



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 15, 2026 – 10:03 AM UTC

PDB ID : 4YFX / pdb_00004yfx
Title : Escherichia coli RNA polymerase in complex with Myxopyronin B
Authors : Molodtsov, V.; Fleming, P.R.; Eyermann, C.J.; Ferguson, A.D.; Foulk, M.A.;
McKinney, D.C.; Masse, C.E.; Buurman, E.T.; Murakami, K.S.
Deposited on : 2015-02-25
Resolution : 3.84 Å(reported)

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

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A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

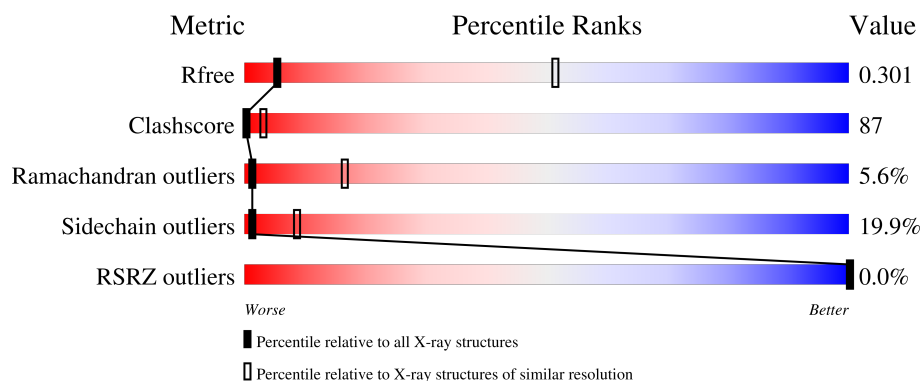
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.84 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1169 (4.00-3.68)
Clashscore	190562	1211 (4.00-3.68)
Ramachandran outliers	187476	1156 (4.00-3.68)
Sidechain outliers	187428	1149 (4.00-3.68)
RSRZ outliers	180081	1168 (4.00-3.68)

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

Mol	Chain	Length	Quality of chain
1	A	329	
1	B	329	
1	G	329	
1	H	329	
2	C	1342	

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Mol	Chain	Length	Quality of chain
2	I	1342	
3	D	1407	
3	J	1407	
4	E	91	
4	K	91	
5	F	613	
5	L	613	

2 Entry composition

There are 8 unique types of molecules in this entry. The entry contains 55388 atoms, of which 33 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-directed RNA polymerase subunit alpha.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	229	Total	C	N	O	S	0	0	0
			1779	1108	316	349	6			
1	B	289	Total	C	N	O	S	0	0	0
			2239	1403	393	435	8			
1	G	227	Total	C	N	O	S	0	0	0
			1755	1093	311	345	6			
1	H	216	Total	C	N	O	S	0	0	0
			1662	1038	292	326	6			

- Molecule 2 is a protein called DNA-directed RNA polymerase subunit beta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	1340	Total	C	N	O	S	0	0	0
			10564	6628	1838	2055	43			
2	I	1340	Total	C	N	O	S	0	0	0
			10552	6621	1835	2053	43			

- Molecule 3 is a protein called DNA-directed RNA polymerase subunit beta'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	1166	Total	C	N	O	S	0	0	0
			9062	5701	1622	1693	46			
3	J	1155	Total	C	N	O	S	0	0	0
			9021	5675	1617	1683	46			

- Molecule 4 is a protein called DNA-directed RNA polymerase subunit omega.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	E	89	Total	C	N	O	S	0	0	0
			691	421	129	140	1			
4	K	79	Total	C	N	O	S	0	0	0
			627	382	118	126	1			

- Molecule 5 is a protein called RNA polymerase sigma factor RpoD.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	F	458	Total	C	N	O	S	0	0	0
			3726	2332	668	703	23			
5	L	458	Total	C	N	O	S	0	0	0
			3640	2282	647	690	21			

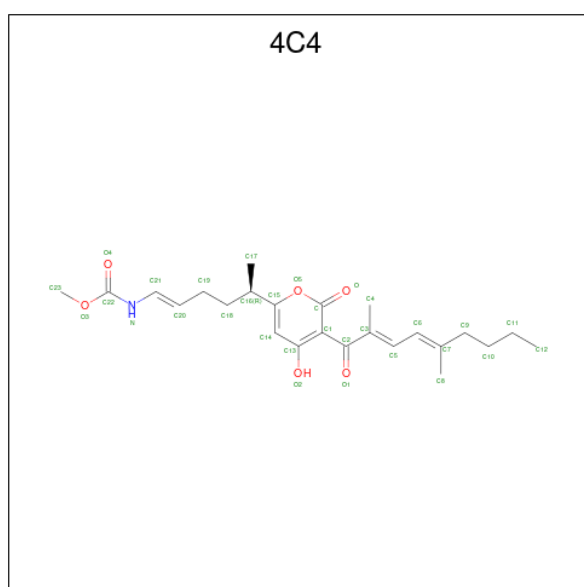
- Molecule 6 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	D	1	Total	Mg	0	0
			1	1		
6	J	1	Total	Mg	0	0
			1	1		

- Molecule 7 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	D	2	Total	Zn	0	0
			2	2		
7	J	2	Total	Zn	0	0
			2	2		

- Molecule 8 is Myxopyronin B (CCD ID: 4C4) (formula: C₂₄H₃₃NO₆).

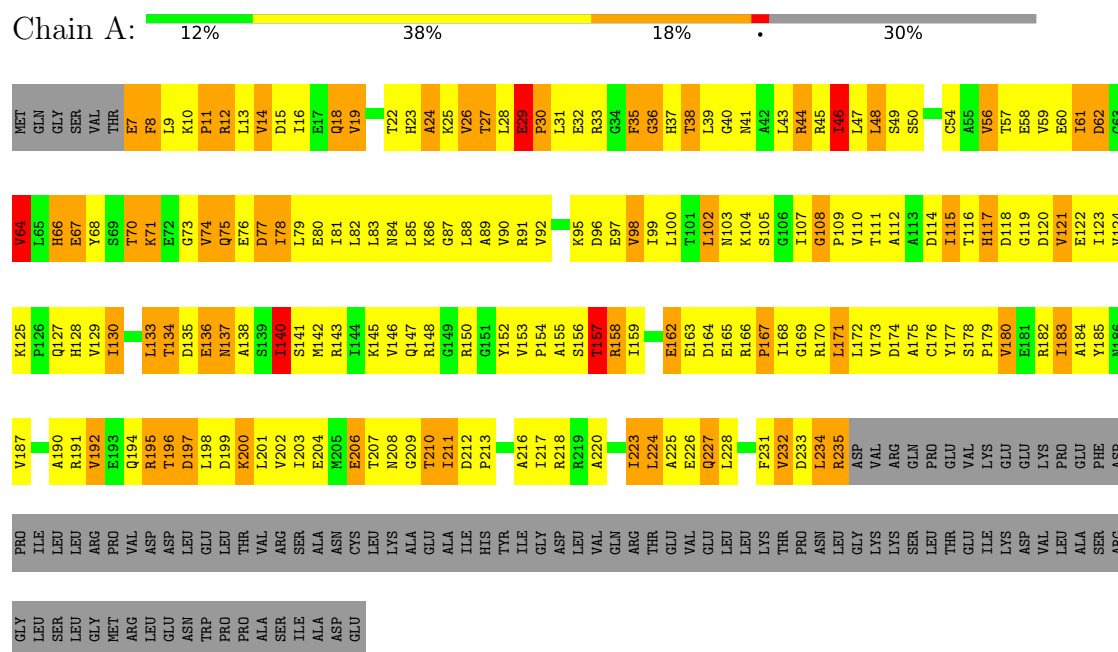


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
8	D	1	Total	C	H	N	O	0	0
			64	24	33	1	6		

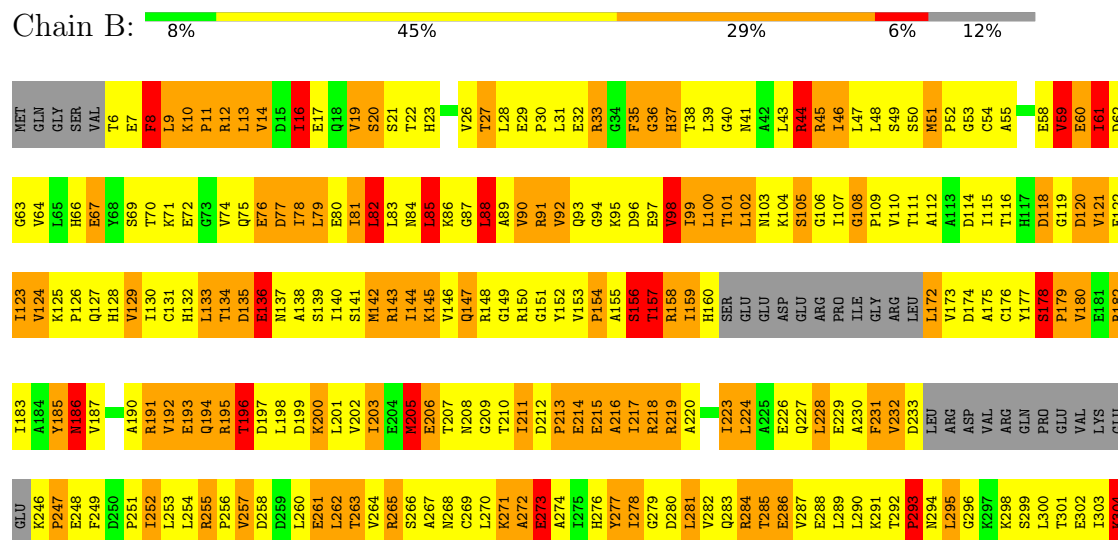
3 Residue-property plots

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

• Molecule 1: DNA-directed RNA polymerase subunit alpha



• Molecule 1: DNA-directed RNA polymerase subunit alpha



D305
V306
L307
A308
S309
R310
G311
S312
L314
G315
M316
R317
LEU
GLU
ASN
GLN
TRP
PRO
PRO
ALA
SER
ILE
ALA
ASP
GLU

• Molecule 1: DNA-directed RNA polymerase subunit alpha

Chain G: 13% 45% 10% 31%

MET
GLN
GLY
SER
VAL
THR
E7
F8
L9
K10
P11
R12
L13
V14
D15
I16
E17
Q18
V19
S20
H23
A24
K25
V26
T27
L28
E29
P30
L31
E32
R33
G34
F35
G36
H37
T38
L39
G40
N41
A42
L43
R44
R45
I46
L47
L48
S49
S50
M51
V56
T57
E58
V59
E60
I61
D62
G63
V64
L65
H66
E67
Y68
K71
E72
G73
Q74
Q75
E76
D77
L78
L79
E80
I81
L82
L83
L84
M84
L85
R86
G87
L88
A89
Y90
R91
Y92
Q93
D96
E97
V98
L99
L100
T101
E102
N103
M104
T107
G108
P109
V110
T111
A112
A113
D114
I115
T116
G117
H117
D118
G119
D120
V121
E122
I123
V124
K125
P126
G127
H128
V129
C131
H132
L133
T134
D135
E136
N137
A138
D139
S139
I140
S141
M142
R143
I144
K145
V146
Q147
R148
G149
R150
L151
G151
Y152
V153
P154
A155
S156
T157
R158
L159
H160
S161
E162
E163
D164
E165
R166
P167
I168
G169
R170
L171
L172
V173
D174
A175
G176
Y177
S178
P179
V180
D181
V181
I181
R182
G183
A184
Y185
M186
V187
E188
A189
A190
R191
V192
R195
T196
D197
L198
D199
K200
L201
V202
I203
E204
M205
E206
T207
N208
G209
T210
L211
D212
P213
A216
L217
R218
D219
A220
A221
T222
L223
L224
A225
E226
Q227
L228
E229
A230
F231
V232
D233
LEU
ARG
GLY
VAL
ARG
GLN
PRO
GLU
LEU
LEU
LEU
THR
ASN
LEU
GLY
LYS
LYS
SER
LEU
THR
GLU
VAL
ILE
SER
PHE

• Molecule 1: DNA-directed RNA polymerase subunit alpha

Chain H: 13% 38% 15% 34%

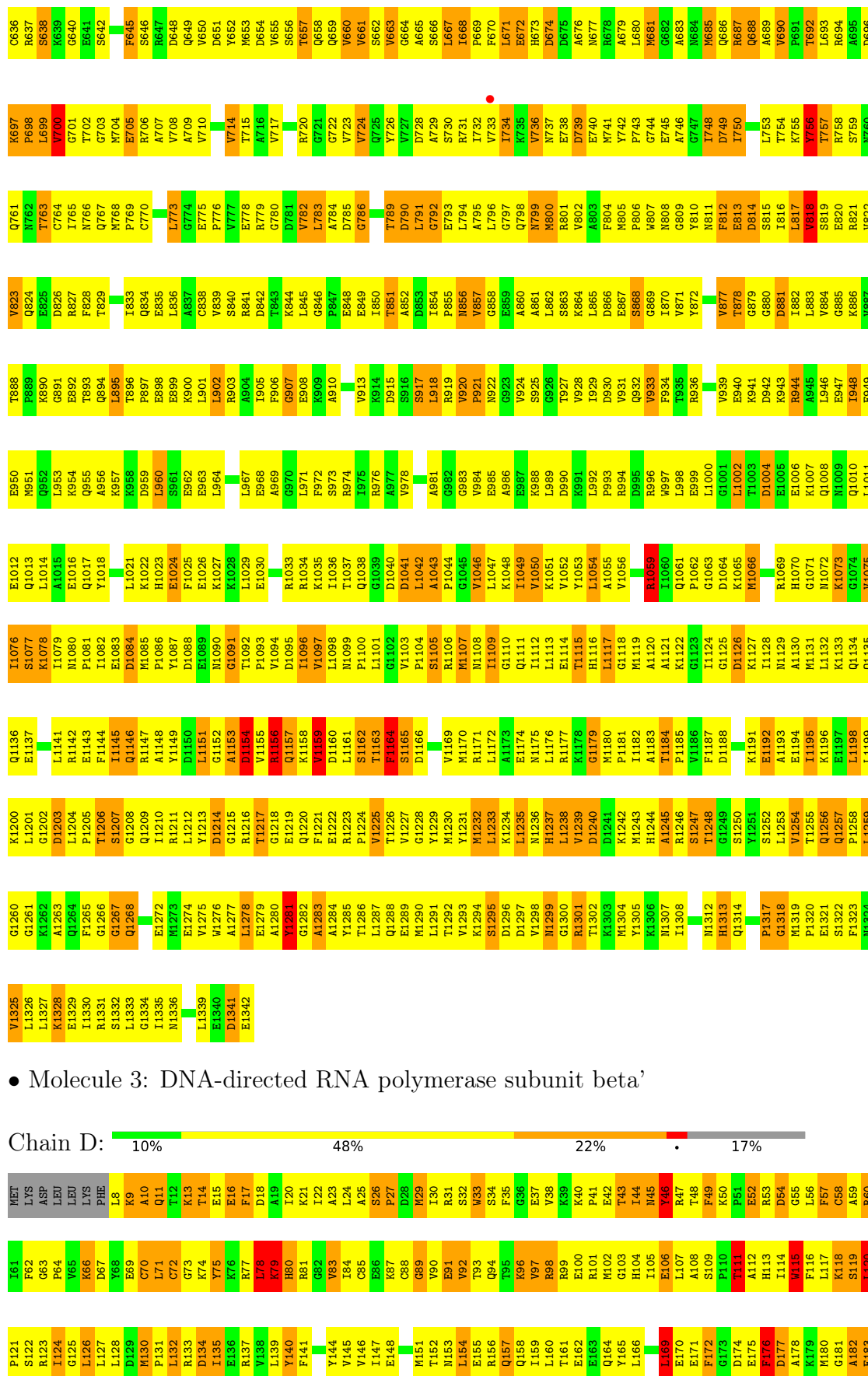
MET
GLN
GLY
SER
VAL
T6
E7
F8
L9
K10
P11
R12
L13
V14
D15
I16
E17
Q18
V19
S20
H23
A24
K25
V26
T27
L28
E29
P30
L31
E32
R33
G34
F35
G36
H37
T38
L39
G40
N41
A42
L43
R44
R45
I46
L47
L48
S49
S50
M51
P52
G53
C54
A55
V56
T57
E58
V59
E60
I61
D62
G63
V64
H66
E67
Y68
S69
K70
T71
E72
G73
V74
Q75
E76
D77
L78
L79
E80
I81
L82
L83
N84
L85
R86
G87
L88
A89
Y90
R91
Y92
Q93
G94
K95
D96
E97
V98
T99
L100
T101
A102
L103
L104
K104
S106
G106
I107
G108
A112
A113
D114
I115
C116
Y117
H117
S178
P179
V180
E181
V182
I183
E122
T123
V124
K125
P126
H128
V129
I130
C131
H132
L133
T134
D135
E136
N137
A138
S139
I140
M205
E206
S141
M142
R143
I144
K145
R148
G149
R150
L151
Y152
V153
P154
A155
S156
T157
R158
I158
H158
E215
A216
L217
R218
D219
A220
A221
L224
A225
E226
Q227
L228
E229
A230
F231
V232
D233
LEU
ARG
GLY
VAL
ARG
GLN
PRO
GLU
LEU
LEU
LEU
THR
ASN
LEU
GLY
LYS
LYS
SER
LEU
THR
GLU
VAL
ILE
LYS
ASP
VAL
LEU
ALA
SER

• Molecule 2: DNA-directed RNA polymerase subunit beta

Chain C: 14% 61% 22%

MET	VAL										
		S61	S62	S63	S64	S65	S66	S67	S68	S69	S70
K991	L992	V122	Y123	M124	G125	F126	E127	D128	C129	B130	A131
L993	P994	L184	D185	F186	E187	F188	D189	P190	K191	M192	N193
R995	D996	L246	R247	T250	S251	A252	F253	D254	E255	K260	V261
R997	Q998	N314	M315	E316	L317	S318	R319	D320	L321	K322	S323
L998	E999	E374	P375	P376	P377	R378	R379	A380	E381	S382	F383
L999	P000	D434	I435	M436	N437	K438	K439	V442	D443	H447	L448
L001	L002	L498	S499	A500	A501	K502	K503	F504	F505	F506	G507
L003	L004	V558	C559	P560	I561	E562	F563	P564	E565	G566	P567
L005	L006	N620	S621	N622	L623	D624	E625	E626	G627	H628	F629
L007	L008	L680	M681	G682	A683	N684	M685	Q686	R687	A688	A689
L009	L010	M741	Y742	P743	G744	E745	A746	G747	I748	D749	F750
L011	L012	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L013	L014	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L015	L016	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L017	L018	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L019	L020	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L021	L022	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L023	L024	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L025	L026	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L027	L028	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L029	L030	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L031	L032	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L033	L034	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L035	L036	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L037	L038	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L039	L040	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L041	L042	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L043	L044	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L045	L046	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L047	L048	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L049	L050	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L051	L052	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L053	L054	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L055	L056	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L057	L058	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L059	L060	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L061	L062	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L063	L064	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L065	L066	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L067	L068	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L069	L070	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L071	L072	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L073	L074	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L075	L076	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L077	L078	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L079	L080	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L081	L082	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L083	L084	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L085	L086	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L087	L088	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L089	L090	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L091	L092	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L093	L094	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L095	L096	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L097	L098	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L099	L100	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L101	L102	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L103	L104	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L105	L106	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L107	L108	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L109	L110	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L111	L112	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L113	L114	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L115	L116	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L117	L118	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L119	L120	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L121	L122	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L123	L124	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L125	L126	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L127	L128	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L129	L130	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L131	L132	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L133	L134	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L135	L136	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L137	L138	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L139	L140	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L141	L142	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L143	L144	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L145	L146	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L147	L148	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L149	L150	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L151	L152	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L153	L154	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L155	L156	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L157	L158	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L159	L160	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L161	L162	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L163	L164	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L165	L166	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L167	L168	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L169	L170	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L171	L172	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L173	L174	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L175	L176	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L177	L178	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L179	L180	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L181	L182	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L183	L184	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L185	L186	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L187	L188	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L189	L190	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L191	L192	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L193	L194	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L195	L196	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L197	L198	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L199	L200	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L201	L202	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L203	L204	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L205	L206	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L207	L208	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L209	L210	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L211	L212	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L213	L214	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L215	L216	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F811
L217	L218	L809	Y810	L811	F812	L813	Y814	G815	G816	F817	F818
L219	L220	S863	K864	L865	D866	R867	S868	G869	I870	V871	T872
L221	L222	V802	A803	P804	M805	P806	I807	Q808	R809	N810	F





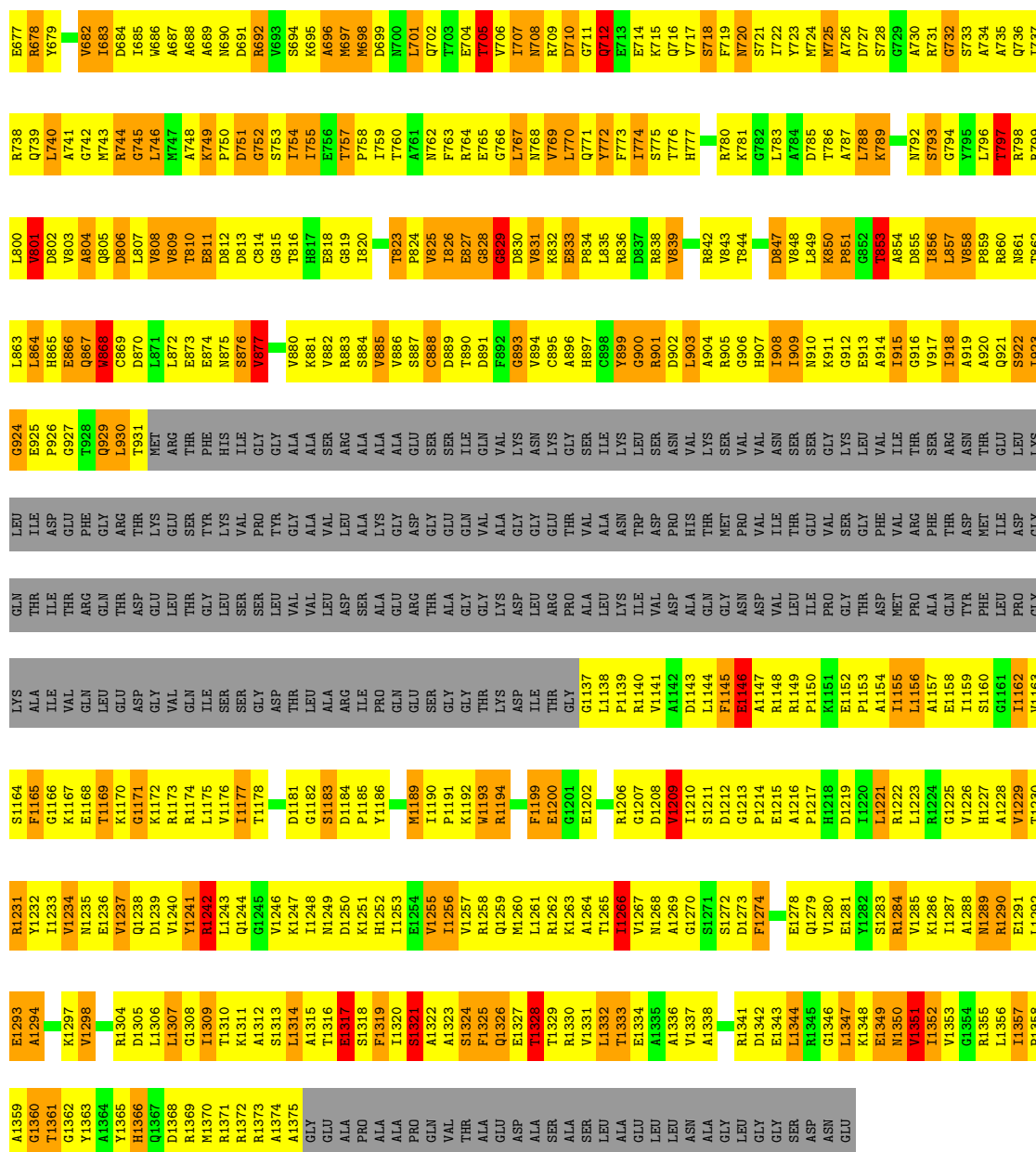


L1223	R1284	R1345	ASP
R1224	V1285	G1346	ASN
G1225	K1286	G1347	GLU
V1226	K1287	K1348	
I1227	L1288	E1349	
H1227	L1288	I1350	
A1228	M1289	V1351	
V1229		I1352	
T1230	L1292	I1353	
E1231	E1293	G1354	
Y1232	A1294	G1355	
N1233	N1295	L1356	
G1234	G1296	I1357	
W1234	K1297	P1358	
H1235	L1297	A1359	
E1236	V1298	G1360	
V1237	G1299	T1361	
T1238	A1300	G1362	
Q1238	Q1301	T1363	
D1239	T1302	Y1364	
V1240	V1302	A1365	
D1241	S1303	I1366	
Y1241	R1304	I1367	
R1242	R1304	P1368	
L1243	D1305	A1369	
		G1370	
V1246		H1371	
K1247	G1308	R1372	
I1248	I1309	I1373	
N1249	T1310	A1374	
D1250	K1311	I1375	
K1251	A1312	G1376	
H1252	S1313	GLU	
I1253	R1314	ALA	
E1254	R1315	PRO	
V1255	T1316	ALA	
V1257	E1317	GLN	
Q1259	F1318	VAL	
M1260	F1319	THR	
L1261	I1320	ALA	
K1263	S1321	ALA	
A1264	A1322	PRO	
E1265	A1323	GLN	
V1266	F1325	ALA	
I1267	Q1326	ALA	
N1268	E1327	GLU	
A1269	T1328	ASP	
G1270	T1329	ALA	
S1271	R1330	SER	
S1272	L1331	ALA	
F1273	L1332	SER	
D1274	T1333	LEU	
L1275	E1334	ALA	
E1276	A1335	GLU	
G1277	A1336	LEU	
Q1278	V1337	LEU	
E1279	A1338	ASN	
V1280	G1339	ALA	
E1281	K1340	GLY	
S1283	R1341	LEU	
	D1342	GLY	
	Y1282	GLY	
	E1283	SER	

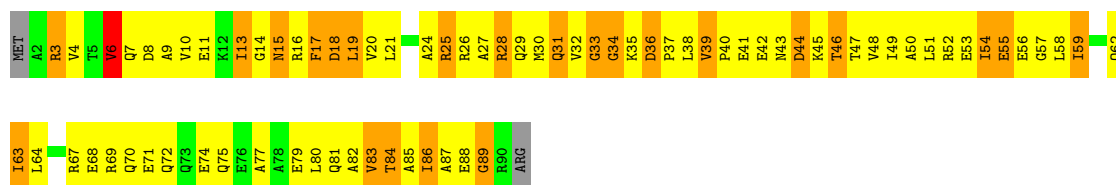
• Molecule 3: DNA-directed RNA polymerase subunit beta'

Chain J: 12% 48% 20% 18%

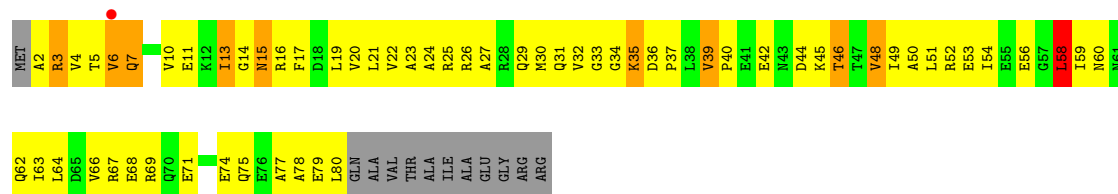
MET	L61	I124	A184	P247	D308	L368	L432	S492	Y555	P616
LYS	F62	G125	I185	D248	N309	P369	G433	F493	E556	T617
ASP	G63	L126	Q186	L249	G310	K370	L434	A494	K557	V618
LEU	P64	L127	A187	R250	R311	K371	Q435	N495	D558	I619
		L128	L188	P251	R312	K372	A436	A496	A559	F620
		L129	L189	L252	G313	K373	F437	E497	N560	A621
		M130	K190	V253	R314	L374	E438	P498	G561	D622
		P131	S191		A315	E375	P439	L499	E562	Q623
		L132	M192	D256	L316	L376	W440	I500	S563	Q624
		R133	L193	G257	T317	F377	L441	V501	W564	L624
		L134	L194	G258	G318	K378	L442	P502	A565	N625
		G73	L195	R259	S319	P379	E443	S503	K566	T627
		THR	L196	F260	R320	F380	G444	O504	T567	G628
		K74	Q196	A261	K321	L381	K445	D505	S568	P629
		Y75	E197	T262	R322	Y382	A446	V506	L569	A630
		K76	C198		P323	T447	L447	V507	K570	G631
					S263	L385		L508	T571	A632
		H80	L201	D264	L324	L449	Q448	O509	G572	R634
		R81	R202	D265	K325	A391	L449	S509	T573	A633
		G82	E203	W266	S326	L390	H450	L510	W574	R634
		W83	E204	D267	L327	A392	P451	V511	G575	S635
		K21	L205	R269	A328	T392	L452	W512	T577	A637
		I22	N206	Y270	D329	T393	V453	N513	R576	S638
		A23	E207	R271	M330	I394	C454	T514	A577	V645
		K87		R272	K331	K395	A455	R515	T578	V639
		L24	S210	L273	G333	A396	A456	D516	L579	G640
		A25	E211	R274	K334	A397	Y457	C517	W580	L641
		S26	T212	N275	Q335	K398	N458	N518	T582	D642
		P27	G214	R276	G336	M400	D460	A520	W583	P644
		D28	K215	N277	R337	V401	F461	K521	P584	
		M29	K216	R278	F338	E402	D462	G522	L587	T648
		I30	K216	L279	R339	R403	C463	E523	P587	P647
		R31	L217	K280	Q340	E404	D464	G524	F588	E648
		S32		L281	N341	E405	Q465	N525	W589	K649
		W33	R220	L282	L342	A406	M466	W526	S590	K650
		S34	I221	L283	L343	V407	A467	L527	I591	H651
		F35	K222	D284	G344	V408	V468	T528	W592	E652
		G36	R223	L285	K345	W409	H469		N593	T653
		R99	L224	L286	R346	D410	V470		Q594	L654
		E37	E225	A287	Y347	L411	L471		A595	S655
		ALA	E162	P288	D348	L412	L472		L596	E656
		ALA	Y165	D289	Y349	D413	T473		G597	A657
		ALA	L166	I290	S350	E414	L474		K598	
		ASP	D167	Q229	S351	V415	E475		W599	S660
		ASP	L107	S230	G352	L416	A476		A600	V661
		ALA	A108	G231	R292	R417	Q477		G540	A662
		ALA	S109	N232	R293	V354	L478		S602	E663
		SER	P110	K233	N294	E355	E479		A542	T664
		SER	T111	P234	E295	K296	A480		N604	Q665
		F49	A112	E235	K296	P297	V421		L544	E666
		K50	H113	W236	F297	G357	A481		H544	L606
		P51	I114	M237	G358	L422	A482		H545	Q667
		E52	W115	L238	L299	L423	L483		A546	F668
		R53	F116	Q300	L299	N424	M484		R547	Q669
		D54	L117	E301	L361	R425	M485		V609	S670
		G55	K118	V241	R362	A426	S486		K549	G671
		L120	S119	L242	L363	P427	T487		W550	L672
		F57	K179	P243	H364	T428	M488		R551	L673
		C58	M180	V244	Q365	L429	N489		L552	T674
		A59	G181	L245	L306	T490	A675		L614	A675
		R123	R132	E183	G367	R431	L491		K615	Q676



Chain E: 14% 57% 25% ..

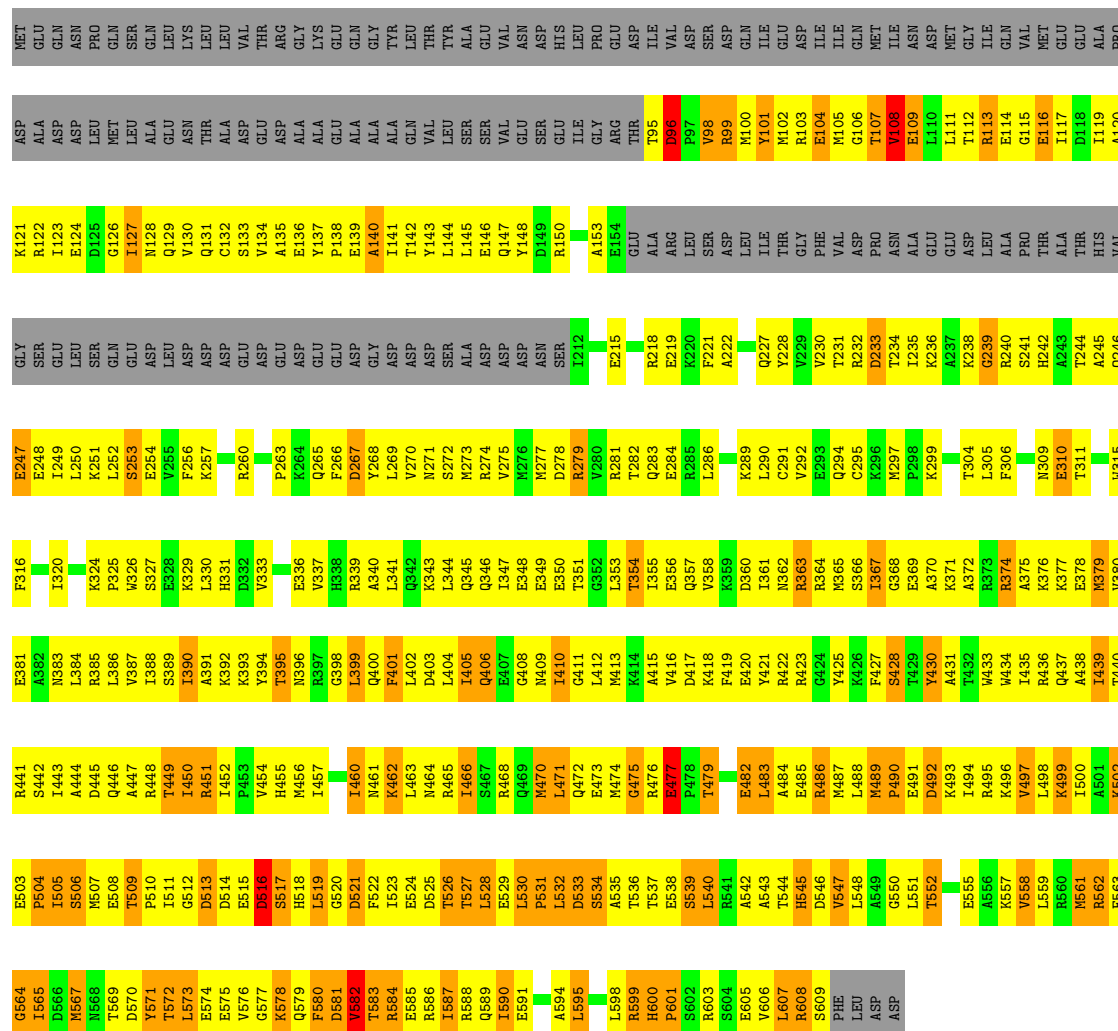


Chain K: 19% 57% 10% 13%



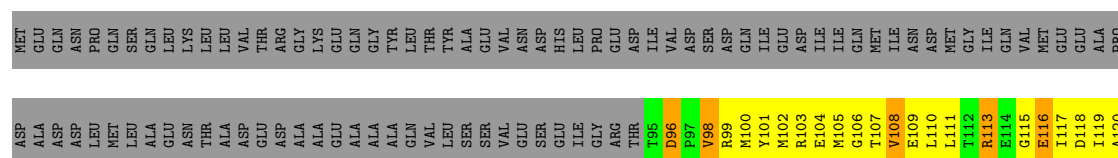
• Molecule 5: RNA polymerase sigma factor RpoD

Chain F: 15% 44% 15% 25%



• Molecule 5: RNA polymerase sigma factor RpoD

Chain L: 15% 49% 11% 25%



K121	Q246	E310	K376	A438	R560
R122	E247	T311	K377	I439	M561
I123	E248	S312	E378	R440	R562
E124	I249	D313	N379	R441	F563
	L250	T314	V380	S442	G564
I127	K251	W315	E381	I443	I565
N128	L252	F316	A382	A444	D566
Q129	S253	M322	N383	D445	M567
V130	E254	N323	L384	Q446	
ASP C131	V255	K324	R385	A447	Y571
C132	F256	L386	R386	R448	T572
S133	K257	P325	V387	T449	L573
V134	Q258	W326	I388	I450	E574
A135	F259	S327	S389	R451	E575
E136	L260	E328	A390	I452	V576
ASP Y137	L261	K329	A391	P453	G577
GLU P138	V262	L330	K392	V454	K578
E139	F263	H331	K393	H455	
A140	K264	D332	Y394	M456	D581
I141	Q265	V333	T395	I457	V582
T142	F266	S334	N396	E458	T583
Y143	D267	E335	K397	T459	R584
L144	Y268	E336	G398	I460	E585
	ALA	L399	N461	N461	E586
Q147	V270	R339	Q400	K462	T587
Y148	N271	A340	F401	L463	R588
D149	S272	Q342	L402	M464	Q589
R150	M273	K343	D403	R465	T590
V151	R274	L344	L404	I466	E591
E152	V275	L345	I405	S467	A592
A153	M276	Q345	Q406	R468	K593
E154	M277	Q346	Q407	Q469	A594
GLU	D278	I347	Q408	M470	L595
ALA	R279	E348	M409	L471	L596
ARG	V280	E349	I410	Q472	R597
LEU	R281	E350	Q411	E473	L598
SER			L412	M474	R599
ASP	E223	L353	M413	G475	H600
LEU	L224	T354	K414	R476	P601
ILE	R225	I355	A415	E477	S602
THR	A226	E356	V416	P478	R603
GLY	Q227	Q357	D417	T479	S604
PHE	Y228	V358	K418		E605
VAL	V229	K359	F419	E482	V606
ASP	V230	D360	E420	L483	L607
PRO	T231	I361	Y421	A484	R608
ASN	R232	N362	R422	E485	S609
ALA	D233	R363	R423	R486	PHE
GLU	T234	R364		M487	LEU
GLU	I235	M365	F427	L488	ASP
ASP	K236	S366	E428	M489	ASP
LEU	A237	I367	T429	P490	
ALA	K238	G368	Y430	E491	
PRO	G239	E369	A431	D492	
THR	R240	A370	T432	K493	
ALA	S241	K371	W433	I494	
THR	H242	A372	W434	R495	
HIS	A243	R373	I435	K496	
VAL	T244	R374	R436	V497	
GLY	A245	A375	Q437	L498	

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	188.52Å 205.18Å 310.14Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	29.95 – 3.84 29.95 – 3.84	Depositor EDS
% Data completeness (in resolution range)	92.4 (29.95-3.84) 79.1 (29.95-3.84)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.08 (at 3.88Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.9_1692)	Depositor
R, R_{free}	0.236 , 0.300 0.243 , 0.301	Depositor DCC
R_{free} test set	1859 reflections (1.62%)	wwPDB-VP
Wilson B-factor (Å ²)	136.1	Xtriage
Anisotropy	0.197	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 140.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	55388	wwPDB-VP
Average B, all atoms (Å ²)	170.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.12% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: 4C4, ZN, MG

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	0.95	0/1801	1.55	28/2440 (1.1%)
1	B	0.67	1/2265 (0.0%)	1.29	21/3066 (0.7%)
1	G	0.65	0/1777	1.30	14/2408 (0.6%)
1	H	0.67	0/1681	1.34	21/2278 (0.9%)
2	C	0.96	4/10733 (0.0%)	1.56	199/14482 (1.4%)
2	I	0.78	0/10721	1.41	129/14468 (0.9%)
3	D	0.93	4/9202 (0.0%)	1.56	164/12424 (1.3%)
3	J	0.77	0/9161	1.45	136/12366 (1.1%)
4	E	0.83	1/693 (0.1%)	1.47	13/935 (1.4%)
4	K	0.47	0/629	1.12	5/847 (0.6%)
5	F	0.72	0/3777	1.31	32/5076 (0.6%)
5	L	0.60	0/3689	1.22	25/4969 (0.5%)
All	All	0.82	10/56129 (0.0%)	1.45	787/75759 (1.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	B	0	1
2	C	0	3
2	I	0	3
3	D	0	5
3	J	0	2
All	All	0	14

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	127	ILE	CA-CB	-8.73	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	127	ILE	CA-C	-6.21	1.47	1.52
3	D	115	TRP	CA-C	-5.54	1.45	1.52
4	E	17	PHE	CA-C	-5.39	1.48	1.53
3	D	457	TYR	CA-C	-5.25	1.45	1.52
3	D	915	ILE	CA-CB	-5.25	1.47	1.54
3	D	58	CYS	N-CA	-5.21	1.39	1.46
1	B	185	TYR	N-CA	-5.14	1.39	1.46
2	C	129	LEU	CA-C	-5.08	1.46	1.52
2	C	604	HIS	CG-CD2	-5.06	1.30	1.35

All (787) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	I	354	ASP	CA-C-N	13.28	132.97	119.56
2	I	354	ASP	C-N-CA	13.28	132.97	119.56
3	D	358	GLY	CA-C-N	-12.99	103.61	119.84
3	D	358	GLY	C-N-CA	-12.99	103.61	119.84
2	C	534	GLY	CA-C-N	12.90	133.77	119.83
2	C	534	GLY	C-N-CA	12.90	133.77	119.83
2	C	1099	ASN	CA-C-N	12.61	135.60	119.84
2	C	1099	ASN	C-N-CA	12.61	135.60	119.84
2	I	167	SER	N-CA-C	-12.32	97.93	111.36
2	C	1043	ALA	CA-C-N	-12.17	105.17	120.51
2	C	1043	ALA	C-N-CA	-12.17	105.17	120.51
3	D	120	LEU	CA-C-N	-11.67	105.26	119.84
3	D	120	LEU	C-N-CA	-11.67	105.26	119.84
3	J	499	ILE	N-CA-C	-11.54	101.82	113.47
2	C	566	GLY	CA-C-N	11.18	133.81	119.84
2	C	566	GLY	C-N-CA	11.18	133.81	119.84
1	B	10	LYS	CA-C-N	11.10	133.72	119.84
1	B	10	LYS	C-N-CA	11.10	133.72	119.84
5	F	599	ARG	N-CA-C	-10.94	99.32	111.14
2	I	551	HIS	CA-C-N	10.64	133.13	119.84
2	I	551	HIS	C-N-CA	10.64	133.13	119.84
3	D	752	GLY	N-CA-C	-10.58	101.04	114.37
3	J	1171	GLY	N-CA-C	-10.49	102.10	115.42
3	J	351	GLY	N-CA-C	-10.34	96.57	110.74
2	C	697	LYS	CA-C-N	-10.23	107.05	119.84
2	C	697	LYS	C-N-CA	-10.23	107.05	119.84
2	I	534	GLY	CA-C-N	10.16	130.80	119.93
2	I	534	GLY	C-N-CA	10.16	130.80	119.93
2	C	1316	GLU	CA-C-N	10.08	132.44	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	1316	GLU	C-N-CA	10.08	132.44	119.84
2	I	1091	GLY	N-CA-C	-9.95	101.42	114.85
2	I	1267	GLY	N-CA-C	-9.65	99.35	112.57
4	E	15	ASN	N-CA-C	9.57	124.49	113.01
3	J	1242	ARG	N-CA-C	-9.53	100.87	111.07
2	C	48	GLY	N-CA-C	-9.52	96.86	110.75
1	A	108	GLY	CA-C-N	9.51	131.72	119.84
1	A	108	GLY	C-N-CA	9.51	131.72	119.84
3	J	853	THR	N-CA-C	9.51	121.86	108.74
1	G	160	HIS	N-CA-C	-9.44	100.62	113.18
3	D	672	LEU	N-CA-C	-9.41	101.03	111.28
1	A	232	VAL	N-CA-C	-9.34	101.76	110.82
3	J	757	THR	CA-C-N	9.28	131.44	119.84
3	J	757	THR	C-N-CA	9.28	131.44	119.84
5	L	477	GLU	CA-C-N	9.23	131.38	119.84
5	L	477	GLU	C-N-CA	9.23	131.38	119.84
2	C	126	GLU	CA-C-N	-9.22	114.83	122.85
2	C	126	GLU	C-N-CA	-9.22	114.83	122.85
2	I	416	GLY	N-CA-C	-9.12	98.17	110.20
2	I	1318	GLY	N-CA-C	-9.08	101.24	112.68
3	D	858	VAL	CA-C-N	8.96	131.04	119.84
3	D	858	VAL	C-N-CA	8.96	131.04	119.84
3	J	1213	GLY	CA-C-N	8.93	131.00	119.84
3	J	1213	GLY	C-N-CA	8.93	131.00	119.84
3	J	550	VAL	N-CA-C	8.91	120.18	107.88
3	D	924	GLY	N-CA-C	-8.88	103.64	114.66
1	B	59	VAL	N-CA-C	8.87	120.42	108.27
2	C	1157	GLN	N-CA-C	8.87	121.75	111.11
2	C	112	GLY	N-CA-C	-8.81	92.29	113.18
2	C	1113	LEU	N-CA-C	-8.80	101.69	111.28
1	A	64	VAL	N-CA-C	8.78	120.46	108.17
3	J	1266	ILE	N-CA-C	8.77	120.12	110.21
3	J	1146	GLU	N-CA-C	-8.77	101.84	112.54
3	J	1234	VAL	N-CA-C	8.75	119.59	111.45
2	C	1180	MET	CA-C-N	8.69	129.03	119.90
2	C	1180	MET	C-N-CA	8.69	129.03	119.90
3	J	924	GLY	N-CA-C	-8.68	103.90	114.66
1	H	153	VAL	CA-C-N	8.64	129.89	120.13
1	H	153	VAL	C-N-CA	8.64	129.89	120.13
3	D	438	GLU	N-CA-C	-8.58	99.24	110.39
3	J	53	ARG	N-CA-C	-8.57	96.70	110.32
2	C	451	ARG	N-CA-C	-8.56	95.80	109.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	514	PHE	N-CA-C	-8.56	98.70	110.35
1	A	29	GLU	CA-C-N	-8.53	109.18	119.84
1	A	29	GLU	C-N-CA	-8.53	109.18	119.84
3	D	426	ALA	CA-C-N	-8.52	109.19	119.84
3	D	426	ALA	C-N-CA	-8.52	109.19	119.84
2	I	1179	GLY	N-CA-C	-8.50	103.37	112.04
2	I	565	GLU	N-CA-C	-8.50	101.36	112.41
3	D	322	ARG	CA-C-N	8.43	129.10	119.99
3	D	322	ARG	C-N-CA	8.43	129.10	119.99
2	C	624	ASP	N-CA-C	8.41	119.74	107.88
2	C	371	ARG	CA-C-N	-8.37	109.38	119.84
2	C	371	ARG	C-N-CA	-8.37	109.38	119.84
3	D	839	VAL	CB-CA-C	-8.37	103.70	111.06
3	J	347	VAL	N-CA-C	8.35	118.75	108.06
1	H	29	GLU	CA-C-N	8.33	146.99	127.00
1	H	29	GLU	C-N-CA	8.33	146.99	127.00
3	D	1211	SER	N-CA-C	-8.30	96.59	108.96
1	G	64	VAL	N-CA-C	8.26	120.00	107.77
3	D	347	VAL	N-CA-C	8.22	118.58	108.06
3	D	358	GLY	N-CA-C	-8.20	95.62	112.34
2	C	661	VAL	N-CA-C	8.19	120.59	108.96
3	D	1365	TYR	N-CA-C	8.17	119.96	111.14
3	D	1152	GLU	CA-C-N	8.15	131.26	120.25
3	D	1152	GLU	C-N-CA	8.15	131.26	120.25
2	I	920	VAL	CA-C-N	8.09	129.95	119.84
2	I	920	VAL	C-N-CA	8.09	129.95	119.84
3	J	752	GLY	N-CA-C	-8.08	103.32	114.64
1	A	36	GLY	N-CA-C	-8.08	102.86	112.64
1	B	51	MET	CA-C-N	8.08	129.94	119.84
1	B	51	MET	C-N-CA	8.08	129.94	119.84
2	I	140	GLY	N-CA-C	-8.07	104.18	115.32
3	D	587	LEU	CA-C-N	8.05	127.81	119.76
3	D	587	LEU	C-N-CA	8.05	127.81	119.76
3	J	253	VAL	CA-C-N	8.04	129.90	119.84
3	J	253	VAL	C-N-CA	8.04	129.90	119.84
2	C	1012	GLU	N-CA-C	-8.04	102.47	111.07
3	D	242	LEU	CA-C-N	-8.02	110.40	120.51
3	D	242	LEU	C-N-CA	-8.02	110.40	120.51
2	C	177	ILE	N-CA-C	8.00	116.16	107.60
3	J	1298	VAL	N-CA-C	-7.98	104.81	111.91
2	C	832	HIS	N-CA-C	7.96	121.26	109.24
4	E	6	VAL	N-CA-C	-7.95	104.96	112.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	517	GLN	N-CA-C	-7.93	101.80	112.26
3	D	407	VAL	CB-CA-C	-7.91	101.47	112.14
2	C	181	GLY	N-CA-C	-7.91	102.77	112.33
2	I	563	THR	CA-C-N	-7.89	112.71	120.52
2	I	563	THR	C-N-CA	-7.89	112.71	120.52
2	I	1281	TYR	N-CA-C	-7.87	100.38	110.53
2	C	374	GLU	CA-C-N	7.87	128.48	120.38
2	C	374	GLU	C-N-CA	7.87	128.48	120.38
5	F	96	ASP	CA-C-N	7.87	128.29	119.32
5	F	96	ASP	C-N-CA	7.87	128.29	119.32
2	C	1318	GLY	N-CA-C	-7.86	102.78	112.68
2	C	663	VAL	N-CA-C	-7.85	102.44	111.00
2	I	181	GLY	N-CA-C	-7.85	104.03	112.04
1	A	10	LYS	CA-C-N	7.84	129.21	120.66
1	A	10	LYS	C-N-CA	7.84	129.21	120.66
1	H	29	GLU	C-N-CD	-7.83	103.36	120.60
3	D	653	ILE	CB-CA-C	-7.83	101.86	111.88
3	D	1292	LEU	N-CA-C	-7.83	103.04	114.39
3	D	1344	LEU	CB-CA-C	-7.78	106.65	117.23
2	C	223	LEU	N-CA-C	7.67	119.72	111.36
3	D	78	LEU	N-CA-C	-7.62	103.72	112.87
2	I	668	ILE	CA-C-N	-7.61	112.37	120.66
2	I	668	ILE	C-N-CA	-7.61	112.37	120.66
3	J	615	LYS	CA-C-N	-7.60	112.01	120.45
3	J	615	LYS	C-N-CA	-7.60	112.01	120.45
3	D	130	MET	CA-C-N	7.58	128.60	120.11
3	D	130	MET	C-N-CA	7.58	128.60	120.11
2	C	628	HIS	N-CA-C	-7.57	97.99	110.17
2	C	818	VAL	N-CA-C	7.56	119.20	108.17
3	J	456	ALA	N-CA-C	-7.55	102.74	110.97
3	D	923	ILE	CB-CA-C	-7.52	102.18	112.04
2	I	661	VAL	N-CA-C	7.52	119.64	108.96
2	C	920	VAL	CA-C-N	7.51	129.22	119.84
2	C	920	VAL	C-N-CA	7.51	129.22	119.84
3	J	462	ASP	N-CA-C	-7.50	105.02	112.97
3	D	433	GLY	N-CA-C	-7.49	106.02	115.31
2	I	87	ILE	CB-CA-C	-7.45	102.49	111.81
3	D	886	VAL	N-CA-C	-7.45	102.15	112.50
3	D	925	GLU	CA-C-N	-7.43	112.20	120.45
3	D	925	GLU	C-N-CA	-7.43	112.20	120.45
3	D	589	TYR	N-CA-C	-7.42	103.27	111.36
1	B	231	PHE	N-CA-C	7.41	123.73	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	J	438	GLU	N-CA-C	-7.36	100.76	110.40
2	I	1257	GLN	CA-C-N	7.35	129.03	119.84
2	I	1257	GLN	C-N-CA	7.35	129.03	119.84
2	C	1061	GLN	CA-C-N	7.33	129.00	119.84
2	C	1061	GLN	C-N-CA	7.33	129.00	119.84
3	D	91	GLU	N-CA-C	-7.33	100.17	110.50
2	I	717	VAL	N-CA-C	7.33	119.38	108.46
2	C	610	GLU	N-CA-C	-7.32	103.39	111.36
3	J	600	ALA	N-CA-C	-7.31	104.33	113.18
3	D	1190	ILE	N-CA-C	7.29	116.28	107.61
5	F	368	GLY	N-CA-C	-7.25	103.99	112.83
2	C	77	GLU	CA-C-N	7.24	127.65	119.83
2	C	77	GLU	C-N-CA	7.24	127.65	119.83
1	G	108	GLY	CA-C-N	7.23	128.88	119.84
1	G	108	GLY	C-N-CA	7.23	128.88	119.84
3	D	602	SER	N-CA-C	-7.22	103.49	111.36
1	G	10	LYS	CA-C-N	7.22	128.53	120.66
1	G	10	LYS	C-N-CA	7.22	128.53	120.66
2	I	846	GLY	CA-C-N	7.20	129.97	120.25
2	I	846	GLY	C-N-CA	7.20	129.97	120.25
2	C	706	ARG	N-CA-C	-7.19	101.96	111.24
3	J	1369	ARG	N-CA-C	-7.18	103.18	112.23
3	D	368	LEU	CA-C-N	-7.18	111.46	120.51
3	D	368	LEU	C-N-CA	-7.18	111.46	120.51
1	B	145	LYS	N-CA-C	7.18	120.84	109.50
2	I	82	VAL	CB-CA-C	-7.18	102.84	111.81
3	J	888	CYS	N-CA-C	7.17	120.79	110.10
2	C	1319	MET	N-CA-C	7.16	120.19	110.31
2	C	1061	GLN	N-CA-C	7.16	114.57	108.13
2	I	498	ILE	N-CA-C	-7.16	103.55	110.42
2	C	144	VAL	CA-C-N	-7.15	113.59	123.10
2	C	144	VAL	C-N-CA	-7.15	113.59	123.10
3	D	370	LYS	N-CA-C	-7.13	102.55	111.11
3	D	901	ARG	N-CA-C	7.13	122.65	113.88
3	J	51	PRO	CA-C-N	-7.11	111.26	121.42
3	J	51	PRO	C-N-CA	-7.11	111.26	121.42
1	B	8	PHE	N-CA-C	7.09	120.17	109.95
2	I	562	GLU	CA-C-N	-7.09	113.75	123.96
2	I	562	GLU	C-N-CA	-7.09	113.75	123.96
1	H	130	ILE	N-CA-C	7.07	117.62	111.90
4	E	87	ALA	N-CA-C	-7.06	104.54	113.01
3	J	1266	ILE	CB-CA-C	-7.05	103.56	111.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	L	457	ILE	CB-CA-C	-7.05	102.95	111.97
2	C	539	THR	N-CA-C	-7.04	98.38	109.50
2	C	518	ASN	N-CA-C	-7.04	103.61	111.28
5	F	489	MET	CA-C-N	7.04	128.63	119.84
5	F	489	MET	C-N-CA	7.04	128.63	119.84
3	D	293	ARG	N-CA-C	-7.00	103.34	110.97
5	L	96	ASP	CA-C-N	7.00	127.30	119.32
5	L	96	ASP	C-N-CA	7.00	127.30	119.32
2	I	1184	THR	CA-C-N	-7.00	112.43	119.92
2	I	1184	THR	C-N-CA	-7.00	112.43	119.92
2	C	607	SER	N-CA-C	-7.00	101.15	110.24
2	I	1245	ALA	CA-C-N	-7.00	112.86	123.07
2	I	1245	ALA	C-N-CA	-7.00	112.86	123.07
2	C	717	VAL	N-CA-C	6.99	118.88	108.46
2	I	1043	ALA	CA-C-N	-6.99	113.04	120.66
2	I	1043	ALA	C-N-CA	-6.99	113.04	120.66
3	D	1308	GLY	N-CA-C	-6.98	103.90	111.93
2	C	688	GLN	N-CA-C	-6.97	105.13	112.93
2	C	526	HIS	N-CA-C	-6.95	103.63	111.07
2	I	625	GLU	CB-CA-C	-6.95	108.57	116.63
3	D	257	GLY	N-CA-C	-6.95	104.26	114.61
2	I	566	GLY	N-CA-C	6.94	126.50	112.34
1	B	142	MET	N-CA-C	6.93	119.98	109.23
3	D	378	LYS	CA-C-N	-6.91	111.20	119.84
3	D	378	LYS	C-N-CA	-6.91	111.20	119.84
2	I	177	ILE	CA-C-N	6.91	129.22	120.51
2	I	177	ILE	C-N-CA	6.91	129.22	120.51
2	C	64	GLY	N-CA-C	-6.89	106.75	114.40
2	C	109	ALA	CA-C-N	-6.89	111.22	119.84
2	C	109	ALA	C-N-CA	-6.89	111.22	119.84
2	C	1269	ARG	N-CA-C	-6.89	100.79	110.50
3	D	1136	GLY	N-CA-C	6.89	120.52	110.80
2	C	344	GLY	CA-C-N	6.88	131.20	121.91
2	C	344	GLY	C-N-CA	6.88	131.20	121.91
3	J	539	SER	N-CA-C	-6.88	104.89	113.28
3	J	732	GLY	N-CA-C	-6.86	102.98	112.18
1	H	137	ASN	N-CA-C	-6.86	102.74	112.13
3	J	797	THR	N-CA-C	-6.85	103.74	111.07
2	C	1267	GLY	N-CA-C	-6.84	102.82	112.60
2	I	1232	MET	N-CA-C	6.84	119.83	109.23
3	D	1269	ALA	N-CA-C	6.83	117.50	108.07
5	L	540	LEU	CA-CB-CG	-6.83	92.38	116.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	632	ASP	N-CA-C	-6.83	103.90	111.82
2	I	252	SER	N-CA-C	-6.82	104.71	113.16
3	J	306	LEU	N-CA-C	6.80	118.35	111.07
2	C	1249	GLY	N-CA-C	6.79	123.11	111.16
2	C	177	ILE	CA-C-N	6.77	128.04	120.66
2	C	177	ILE	C-N-CA	6.77	128.04	120.66
3	J	257	GLY	N-CA-C	-6.77	104.47	114.90
4	K	58	LEU	N-CA-C	-6.76	105.06	113.38
5	F	153	ALA	N-CA-C	-6.75	105.04	113.28
2	I	783	LEU	N-CA-C	6.75	121.74	112.90
2	I	1341	ASP	N-CA-C	6.74	117.98	108.00
2	C	1295	SER	N-CA-C	6.74	125.15	110.80
2	C	104	ILE	N-CA-C	6.73	118.41	108.45
2	C	928	VAL	N-CA-C	-6.72	102.62	110.21
2	I	734	ILE	N-CA-C	6.68	117.46	108.11
2	I	42	ASP	CA-C-N	6.67	128.18	119.84
2	I	42	ASP	C-N-CA	6.67	128.18	119.84
1	A	8	PHE	N-CA-C	6.66	120.47	110.14
2	I	374	GLU	CA-C-N	6.66	127.24	120.38
2	I	374	GLU	C-N-CA	6.66	127.24	120.38
4	E	89	GLY	N-CA-C	-6.65	104.71	112.83
3	J	646	ILE	CA-C-N	6.65	126.67	119.89
3	J	646	ILE	C-N-CA	6.65	126.67	119.89
2	I	137	VAL	CA-C-N	-6.64	116.22	122.66
2	I	137	VAL	C-N-CA	-6.64	116.22	122.66
2	I	417	SER	N-CA-C	6.64	118.87	110.24
2	C	32	LEU	CA-CB-CG	-6.64	93.07	116.30
3	D	617	THR	N-CA-C	-6.64	103.30	111.40
3	D	875	ASN	N-CA-C	-6.63	101.34	110.35
3	J	115	TRP	CA-CB-CG	-6.63	101.01	113.60
2	I	818	VAL	N-CA-C	6.60	117.06	108.35
2	C	514	PHE	CA-C-N	-6.60	112.06	121.50
2	C	514	PHE	C-N-CA	-6.60	112.06	121.50
5	F	111	LEU	N-CA-C	6.59	119.20	109.24
3	D	246	PRO	O-C-N	6.59	124.34	121.31
3	D	444	GLY	N-CA-C	-6.59	97.57	113.18
3	J	1231	ARG	N-CA-C	-6.57	104.75	112.89
2	C	6	THR	N-CA-C	-6.57	104.31	113.37
3	J	1209	VAL	N-CA-C	6.55	117.49	108.84
1	H	10	LYS	CA-C-N	6.54	128.01	119.84
1	H	10	LYS	C-N-CA	6.54	128.01	119.84
2	I	472	GLU	N-CA-C	-6.54	104.08	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	177	ILE	CB-CA-C	-6.53	103.67	111.18
3	J	509	GLY	N-CA-C	-6.52	104.94	112.50
3	J	130	MET	CA-C-N	6.52	127.41	120.11
3	J	130	MET	C-N-CA	6.52	127.41	120.11
2	I	700	VAL	CB-CA-C	-6.50	105.27	112.68
2	C	1257	GLN	CA-C-N	6.50	127.96	119.84
2	C	1257	GLN	C-N-CA	6.50	127.96	119.84
2	I	629	PHE	N-CA-C	-6.49	100.82	110.23
1	H	108	GLY	CA-C-N	6.48	127.94	119.84
1	H	108	GLY	C-N-CA	6.48	127.94	119.84
3	D	316	ILE	CA-C-N	-6.44	111.05	122.07
3	D	316	ILE	C-N-CA	-6.44	111.05	122.07
3	J	354	VAL	N-CA-C	-6.43	101.24	109.80
2	I	425	ILE	CB-CA-C	-6.43	103.77	111.81
3	J	273	ILE	CB-CA-C	-6.43	103.47	111.70
3	D	878	ASP	N-CA-C	6.42	124.40	114.64
1	G	74	VAL	N-CA-C	-6.41	99.25	108.48
1	H	86	LYS	N-CA-C	-6.41	104.56	112.38
3	D	562	GLU	N-CA-C	6.39	119.92	109.24
3	J	353	SER	N-CA-C	6.39	116.30	107.73
2	C	490	GLN	N-CA-C	-6.39	97.19	110.80
2	I	792	GLY	N-CA-C	-6.38	106.98	115.40
3	J	1256	ILE	CB-CA-C	-6.38	103.81	111.97
2	I	98	VAL	N-CA-C	6.36	117.19	107.77
3	D	1274	PHE	N-CA-C	6.36	124.35	110.80
3	J	767	LEU	N-CA-C	-6.35	99.85	109.95
2	I	575	LEU	CA-CB-CG	-6.34	94.10	116.30
2	I	645	PHE	N-CA-C	6.34	118.82	109.24
2	C	1068	GLY	N-CA-C	-6.34	102.90	112.41
2	C	1248	THR	CA-C-N	-6.34	117.28	122.16
2	C	1248	THR	C-N-CA	-6.34	117.28	122.16
2	C	600	THR	CA-C-N	-6.33	111.95	123.34
2	C	600	THR	C-N-CA	-6.33	111.95	123.34
3	D	33	TRP	CA-C-N	-6.33	112.72	122.09
3	D	33	TRP	C-N-CA	-6.33	112.72	122.09
2	C	1161	LEU	CA-CB-CG	-6.31	94.23	116.30
2	C	562	GLU	CA-C-N	-6.30	111.09	123.56
2	C	562	GLU	C-N-CA	-6.30	111.09	123.56
2	I	11	ILE	N-CA-C	6.29	116.88	107.51
2	C	1281	TYR	N-CA-C	-6.29	102.42	110.53
3	J	893	GLY	N-CA-C	6.28	118.61	110.45
3	J	1350	ASN	N-CA-C	6.27	121.06	113.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	788	LEU	CA-CB-CG	-6.26	94.38	116.30
1	A	38	THR	N-CA-C	-6.25	104.47	111.28
2	C	551	HIS	CA-C-N	6.24	127.64	119.84
2	C	551	HIS	C-N-CA	6.24	127.64	119.84
2	I	674	ASP	N-CA-C	6.24	119.03	107.99
2	C	49	LEU	N-CA-C	-6.23	104.18	110.97
2	C	695	ALA	CA-C-N	-6.22	109.66	121.54
2	C	695	ALA	C-N-CA	-6.22	109.66	121.54
1	G	29	GLU	CA-C-N	-6.22	112.06	119.84
1	G	29	GLU	C-N-CA	-6.22	112.06	119.84
2	C	571	LEU	CA-CB-CG	-6.21	94.55	116.30
3	D	1309	ILE	CB-CA-C	-6.21	103.75	111.70
3	J	1176	VAL	N-CA-C	6.21	115.66	106.85
5	F	547	VAL	N-CA-C	6.20	118.15	111.58
2	I	17	LYS	N-CA-C	-6.20	106.25	113.88
3	J	525	MET	N-CA-C	6.20	118.11	109.31
2	C	578	TYR	N-CA-C	-6.19	105.49	113.16
2	I	109	ALA	CA-C-N	-6.19	112.11	119.84
2	I	109	ALA	C-N-CA	-6.19	112.11	119.84
2	I	64	GLY	N-CA-C	-6.18	107.54	114.40
2	C	1007	LYS	N-CA-C	-6.18	104.45	111.07
1	G	29	GLU	N-CA-C	6.18	123.46	109.81
3	D	335	GLN	N-CA-C	6.17	123.95	110.80
3	J	578	ILE	CB-CA-C	-6.17	103.04	112.05
2	C	7	GLU	N-CA-C	-6.14	105.44	113.12
3	D	729	GLY	N-CA-C	-6.13	106.62	115.27
3	D	1254	GLU	N-CA-C	-6.13	104.59	111.28
3	D	250	ARG	CA-C-N	6.12	127.50	119.84
3	D	250	ARG	C-N-CA	6.12	127.50	119.84
2	C	908	GLU	N-CA-C	-6.12	99.73	109.59
3	D	402	GLU	N-CA-C	-6.12	104.69	111.36
3	D	1327	GLU	N-CA-C	-6.12	101.36	110.23
3	J	1212	ASP	N-CA-C	6.12	118.71	109.41
4	K	48	VAL	N-CA-C	6.11	116.28	110.42
3	D	317	THR	N-CA-C	-6.10	100.63	110.32
2	C	1319	MET	CA-C-N	6.09	126.12	119.90
2	C	1319	MET	C-N-CA	6.09	126.12	119.90
3	D	674	THR	N-CA-C	6.09	118.76	110.35
3	D	419	HIS	CA-C-N	-6.09	114.00	120.03
3	D	419	HIS	C-N-CA	-6.09	114.00	120.03
3	D	468	VAL	N-CA-C	6.07	118.76	108.86
2	C	690	VAL	CB-CA-C	-6.07	104.93	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	I	685	MET	N-CA-C	-6.07	104.95	112.90
3	J	362	ARG	N-CA-C	-6.06	100.62	110.20
3	D	415	VAL	N-CA-C	-6.05	104.60	110.72
5	F	99	ARG	N-CA-C	-6.05	104.59	111.07
2	I	780	GLY	N-CA-C	-6.05	106.74	115.27
3	D	45	ASN	N-CA-C	6.05	117.87	111.28
2	I	184	LEU	CA-CB-CG	-6.05	95.13	116.30
3	J	621	ALA	N-CA-C	6.05	117.54	111.07
5	L	397	ARG	N-CA-C	-6.04	103.22	111.56
3	J	1321	SER	N-CA-C	-6.04	103.86	111.11
3	J	322	ARG	CA-C-N	6.04	126.95	120.13
3	J	322	ARG	C-N-CA	6.04	126.95	120.13
5	L	503	GLU	CA-C-N	6.04	141.49	127.00
5	L	503	GLU	C-N-CA	6.04	141.49	127.00
2	I	210	LEU	CA-CB-CG	-6.03	95.19	116.30
2	I	1341	ASP	CB-CA-C	-6.02	107.91	116.34
3	D	344	GLY	N-CA-C	-6.02	95.84	113.30
3	D	854	ALA	N-CA-C	-6.02	105.89	113.23
2	I	76	GLY	N-CA-C	-6.02	104.84	112.54
2	I	493	ILE	CA-C-N	6.02	129.37	120.95
2	I	493	ILE	C-N-CA	6.02	129.37	120.95
3	J	531	LYS	N-CA-C	6.01	118.33	111.11
3	D	564	VAL	N-CA-C	6.01	116.52	107.80
2	I	733	VAL	N-CA-C	6.01	117.13	108.48
5	F	482	GLU	N-CA-C	-6.00	104.66	111.14
2	I	1156	ARG	N-CA-C	-6.00	106.28	113.97
2	C	199	ASP	CB-CA-C	-6.00	109.67	116.63
5	L	458	GLU	N-CA-C	-5.99	104.66	111.07
2	C	375	PRO	N-CA-C	5.99	118.01	110.70
3	D	1352	ILE	CB-CA-C	-5.99	104.30	111.97
2	I	1246	ARG	N-CA-C	5.99	118.50	108.02
3	D	485	MET	N-CA-C	-5.99	102.21	110.35
1	H	149	GLY	N-CA-C	5.98	119.24	110.80
3	D	1341	ARG	N-CA-C	-5.97	100.06	109.50
3	J	33	TRP	CA-C-N	-5.97	113.26	122.09
3	J	33	TRP	C-N-CA	-5.97	113.26	122.09
3	J	900	GLY	N-CA-C	-5.96	102.66	110.29
3	J	692	ARG	N-CA-C	-5.96	104.13	111.40
1	B	108	GLY	CA-C-N	5.96	125.92	119.78
1	B	108	GLY	C-N-CA	5.96	125.92	119.78
3	D	903	LEU	N-CA-C	-5.95	99.91	108.60
5	L	237	ALA	N-CA-C	-5.93	105.89	113.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	1101	LEU	N-CA-C	-5.93	105.70	113.17
3	D	852	GLY	N-CA-C	-5.93	102.88	112.31
3	D	285	LEU	N-CA-C	-5.92	106.05	113.28
3	D	140	TYR	N-CA-C	-5.92	106.11	113.15
2	I	1024	GLU	N-CA-C	-5.92	104.91	111.71
3	D	1266	ILE	CB-CA-C	-5.91	104.83	111.45
2	C	667	LEU	CA-C-N	-5.91	117.60	123.04
2	C	667	LEU	C-N-CA	-5.91	117.60	123.04
3	D	307	LEU	N-CA-C	5.91	118.86	111.24
2	C	1091	GLY	N-CA-C	-5.91	107.45	114.48
2	C	94	ALA	CA-C-N	5.91	128.22	120.25
2	C	94	ALA	C-N-CA	5.91	128.22	120.25
2	C	899	GLU	N-CA-C	-5.90	104.54	110.97
3	J	287	ALA	CA-C-N	5.90	126.83	119.98
3	J	287	ALA	C-N-CA	5.90	126.83	119.98
3	J	718	SER	N-CA-C	5.90	118.16	110.43
1	A	140	ILE	CB-CA-C	-5.89	101.26	110.69
5	L	489	MET	CA-C-N	5.88	127.19	119.84
5	L	489	MET	C-N-CA	5.88	127.19	119.84
2	I	1328	LYS	N-CA-C	-5.88	105.37	112.54
3	D	915	ILE	CB-CA-C	-5.87	101.66	111.29
2	C	676	ALA	N-CA-C	5.87	119.54	112.38
3	D	1296	GLY	N-CA-C	-5.87	105.54	112.64
3	D	923	ILE	N-CA-C	5.86	116.50	110.82
2	I	213	LEU	N-CA-C	-5.86	105.72	112.92
1	A	192	VAL	N-CA-C	-5.85	101.25	109.21
3	D	72	CYS	N-CA-C	-5.85	104.90	111.28
3	D	497	GLU	CA-C-N	-5.84	113.95	119.85
3	D	497	GLU	C-N-CA	-5.84	113.95	119.85
3	D	1200	GLU	N-CA-C	5.84	120.13	112.89
3	J	923	ILE	CB-CA-C	-5.84	104.39	112.04
3	D	1178	THR	CA-C-N	5.84	125.60	119.76
3	D	1178	THR	C-N-CA	5.84	125.60	119.76
3	J	433	GLY	N-CA-C	-5.83	108.08	115.31
3	J	494	ALA	N-CA-C	-5.83	105.01	111.36
2	C	325	LEU	N-CA-C	-5.82	106.52	113.97
1	A	48	LEU	CA-CB-CG	-5.82	95.94	116.30
3	D	1229	VAL	CB-CA-C	-5.82	104.44	111.88
5	F	239	GLY	N-CA-C	-5.81	102.52	111.64
3	J	1347	LEU	N-CA-C	-5.81	98.42	110.80
2	C	24	VAL	CA-C-N	5.81	126.14	119.92
2	C	24	VAL	C-N-CA	5.81	126.14	119.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	169	LEU	N-CA-C	-5.80	104.33	111.40
2	C	563	THR	CA-C-N	-5.79	114.78	120.52
2	C	563	THR	C-N-CA	-5.79	114.78	120.52
1	B	205	MET	N-CA-C	5.79	117.59	108.96
3	D	1320	ILE	CB-CA-C	-5.79	104.33	112.14
3	J	930	LEU	N-CA-C	5.79	118.98	110.59
4	K	35	LYS	N-CA-C	5.77	116.04	108.07
3	D	201	LEU	N-CA-C	-5.77	105.07	111.71
1	B	88	LEU	N-CA-C	5.77	117.95	109.24
3	J	603	LYS	N-CA-C	-5.77	105.08	111.71
3	J	1344	LEU	CB-CA-C	-5.77	109.94	116.63
3	J	438	GLU	CA-C-N	5.76	127.05	119.84
3	J	438	GLU	C-N-CA	5.76	127.05	119.84
2	I	1208	GLY	N-CA-C	-5.76	107.98	115.59
1	H	108	GLY	N-CA-C	5.76	124.09	112.34
4	K	7	GLN	N-CA-C	5.76	117.23	111.07
3	D	640	GLY	N-CA-C	-5.75	102.39	110.96
3	D	1278	GLU	N-CA-C	5.75	118.43	109.52
3	D	58	CYS	N-CA-C	-5.75	100.62	108.38
2	I	525	THR	N-CA-C	-5.75	106.40	113.41
2	C	530	ILE	CA-C-N	-5.74	115.14	122.77
2	C	530	ILE	C-N-CA	-5.74	115.14	122.77
1	A	130	ILE	N-CA-C	-5.74	106.12	111.45
3	J	1326	GLN	N-CA-C	5.73	123.00	110.80
3	D	676	GLY	N-CA-C	-5.72	105.75	113.24
1	A	117	HIS	N-CA-C	5.72	118.62	110.10
1	B	61	ILE	N-CA-C	5.72	116.71	108.48
3	D	900	GLY	N-CA-C	-5.72	102.86	110.58
5	F	499	LYS	CA-C-N	-5.71	113.29	121.52
5	F	499	LYS	C-N-CA	-5.71	113.29	121.52
5	F	462	LYS	N-CA-C	-5.71	104.97	111.07
3	J	663	GLU	N-CA-C	-5.71	104.75	110.97
5	L	525	ASP	N-CA-C	-5.70	103.00	110.53
2	I	48	GLY	N-CA-C	-5.69	102.46	110.88
3	J	338	PHE	N-CA-C	5.68	115.79	108.34
5	L	411	GLY	N-CA-C	-5.67	105.82	113.24
2	C	1284	ALA	N-CA-C	5.67	122.87	110.80
1	H	228	LEU	N-CA-C	5.66	120.03	113.18
5	F	483	LEU	CA-CB-CG	-5.66	96.49	116.30
2	C	412	GLU	N-CA-C	-5.65	104.51	111.40
2	C	817	LEU	CA-C-N	-5.65	114.56	122.75
2	C	817	LEU	C-N-CA	-5.65	114.56	122.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	668	ILE	CA-C-N	-5.64	114.51	120.66
2	C	668	ILE	C-N-CA	-5.64	114.51	120.66
2	I	476	LYS	N-CA-C	-5.64	105.03	111.07
3	D	286	ALA	N-CA-C	-5.64	103.46	111.24
2	I	1049	ILE	N-CA-C	5.64	115.80	108.35
3	D	287	ALA	CA-C-N	5.64	126.52	119.98
3	D	287	ALA	C-N-CA	5.64	126.52	119.98
3	J	201	LEU	N-CA-C	5.63	117.42	111.28
2	C	415	GLU	N-CA-C	5.63	117.41	108.79
2	C	823	VAL	CB-CA-C	-5.63	104.54	112.14
3	J	291	ILE	CB-CA-C	-5.62	104.52	111.94
3	J	1199	PHE	N-CA-C	-5.62	100.82	109.76
3	J	1351	VAL	CB-CA-C	-5.62	104.68	112.04
2	C	426	ILE	CB-CA-C	-5.62	104.69	111.88
2	C	540	ARG	N-CA-C	-5.62	104.37	111.11
2	I	264	GLU	N-CA-C	5.62	118.83	110.52
2	I	345	PRO	N-CA-C	-5.62	103.82	113.70
3	J	222	LYS	N-CA-C	-5.60	104.39	111.11
2	C	27	LEU	CA-CB-CG	-5.59	96.72	116.30
4	E	55	GLU	N-CA-C	-5.59	105.09	111.07
2	C	890	LYS	N-CA-C	5.58	117.46	107.80
2	I	623	LEU	N-CA-C	-5.58	100.25	108.79
3	D	1183	SER	N-CA-C	-5.58	102.02	110.28
3	J	346	ARG	CA-C-N	-5.58	113.42	121.95
3	J	346	ARG	C-N-CA	-5.58	113.42	121.95
3	D	191	SER	N-CA-C	5.58	118.55	111.69
2	C	922	ASN	N-CA-C	5.58	118.32	109.96
2	I	1041	ASP	N-CA-C	5.58	117.50	108.41
3	D	682	VAL	CB-CA-C	-5.57	104.57	111.70
2	C	1035	LYS	N-CA-C	-5.57	105.30	111.71
3	D	470	VAL	N-CA-C	5.57	114.24	107.61
2	C	17	LYS	N-CA-C	-5.57	106.53	113.55
4	E	59	ILE	N-CA-C	5.56	116.75	108.46
2	I	1217	THR	N-CA-C	-5.56	106.47	113.20
3	J	632	ALA	N-CA-C	-5.56	104.91	110.97
2	C	911	SER	N-CA-C	5.55	118.05	110.55
3	D	561	GLY	N-CA-C	-5.55	106.36	114.90
5	F	473	GLU	N-CA-C	-5.55	104.92	110.97
1	H	205	MET	N-CA-C	5.55	117.70	108.99
3	J	99	ARG	N-CA-C	-5.55	105.13	113.89
3	J	876	SER	N-CA-C	-5.55	106.55	113.15
2	C	389	PHE	CB-CA-C	-5.54	101.77	110.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	1304	MET	N-CA-C	-5.54	105.16	111.14
3	D	774	ILE	CB-CA-C	-5.53	104.67	112.14
2	I	877	VAL	N-CA-C	5.53	116.14	108.23
1	H	77	ASP	N-CA-C	-5.53	102.71	110.50
1	H	227	GLN	N-CA-C	-5.53	105.26	111.28
3	J	880	VAL	N-CA-C	5.52	115.84	108.27
2	C	963	GLU	N-CA-C	-5.52	104.28	111.02
2	C	527	LYS	N-CA-C	5.51	116.97	111.07
3	D	134	ASP	N-CA-C	5.51	116.97	111.07
3	D	1256	ILE	CB-CA-C	-5.51	104.92	111.97
3	J	725	MET	N-CA-C	-5.51	104.92	111.03
2	C	845	LEU	N-CA-C	-5.50	106.52	113.18
3	D	501	VAL	CA-C-N	5.50	126.72	119.84
3	D	501	VAL	C-N-CA	5.50	126.72	119.84
3	J	470	VAL	N-CA-C	5.50	114.16	107.61
3	D	411	ILE	CB-CA-C	-5.50	102.28	111.29
2	C	467	GLY	N-CA-C	-5.50	106.01	113.37
3	D	60	ARG	N-CA-C	-5.49	104.69	111.33
2	C	503	LYS	N-CA-C	-5.49	105.40	111.71
3	D	743	MET	CB-CG-SD	-5.48	96.25	112.70
3	D	333	GLY	N-CA-C	-5.48	100.19	113.18
2	C	287	VAL	CA-C-N	5.47	125.67	120.31
2	C	287	VAL	C-N-CA	5.47	125.67	120.31
3	J	607	THR	N-CA-C	5.47	116.92	111.07
3	J	1291	GLU	N-CA-C	-5.46	105.44	111.71
2	C	1128	ILE	CB-CA-C	-5.45	104.72	111.70
2	C	544	GLY	N-CA-C	-5.45	97.50	113.30
1	A	115	ILE	N-CA-C	-5.45	104.11	110.05
3	J	793	SER	CA-C-N	5.45	126.13	120.03
3	J	793	SER	C-N-CA	5.45	126.13	120.03
2	C	1001	GLY	N-CA-C	-5.44	100.29	113.18
2	I	171	LEU	N-CA-C	-5.43	101.27	109.85
5	F	140	ALA	N-CA-C	-5.42	105.38	111.28
2	C	667	LEU	CA-CB-CG	-5.41	97.36	116.30
1	H	84	ASN	N-CA-C	-5.41	105.55	111.82
2	I	24	VAL	CA-C-N	-5.41	114.13	119.92
2	I	24	VAL	C-N-CA	-5.41	114.13	119.92
3	D	250	ARG	N-CA-C	-5.41	101.14	109.79
3	J	103	GLY	N-CA-C	-5.40	100.38	113.18
3	J	829	GLY	CA-C-N	-5.40	115.54	123.00
3	J	829	GLY	C-N-CA	-5.40	115.54	123.00
3	D	686	TRP	N-CA-C	-5.40	105.29	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	58	GLU	N-CA-C	5.39	116.65	108.07
2	I	328	SER	N-CA-C	-5.39	106.77	113.19
1	B	178	SER	CA-C-N	5.39	126.58	119.84
1	B	178	SER	C-N-CA	5.39	126.58	119.84
3	D	1321	SER	N-CA-C	-5.39	104.44	111.02
3	D	57	PHE	N-CA-C	-5.39	100.88	109.23
3	J	568	SER	N-CA-C	5.39	116.71	108.52
2	I	565	GLU	CA-CB-CG	5.38	124.87	114.10
1	A	200	LYS	CA-C-N	-5.38	115.47	123.11
1	A	200	LYS	C-N-CA	-5.38	115.47	123.11
3	D	115	TRP	CA-CB-CG	-5.38	103.38	113.60
2	C	934	PHE	N-CA-C	-5.38	101.40	109.95
5	F	571	TYR	CA-CB-CG	-5.38	104.22	113.90
5	F	477	GLU	CA-C-N	5.38	126.56	119.84
5	F	477	GLU	C-N-CA	5.38	126.56	119.84
2	C	657	THR	N-CA-C	-5.36	105.84	112.38
3	J	1145	PHE	N-CA-C	5.36	118.92	112.38
3	D	336	GLY	N-CA-C	5.36	125.88	113.18
5	L	131	GLN	N-CA-C	-5.35	104.50	111.02
3	D	360	TYR	N-CA-C	-5.35	106.60	113.02
2	C	575	LEU	CA-CB-CG	-5.34	97.59	116.30
3	J	91	GLU	N-CA-C	-5.34	102.96	110.50
2	I	346	TYR	N-CA-C	-5.34	105.10	111.03
2	C	888	THR	N-CA-C	-5.34	102.94	110.31
2	C	714	VAL	CB-CA-C	-5.34	102.54	111.29
3	D	1317	GLU	N-CA-C	-5.34	105.46	111.28
3	J	345	LYS	N-CA-C	5.34	122.17	110.80
2	C	1045	GLY	N-CA-C	-5.33	108.48	115.47
2	C	804	PHE	CB-CA-C	-5.33	101.55	110.19
3	J	592	VAL	N-CA-C	-5.33	107.53	112.43
4	E	13	ILE	N-CA-C	5.33	115.65	107.77
5	F	101	TYR	N-CA-C	-5.33	105.37	111.07
2	I	229	ILE	CB-CA-C	-5.32	106.16	111.80
2	I	814	ASP	N-CA-C	-5.32	105.84	114.09
3	J	228	VAL	N-CA-C	-5.32	105.31	110.42
3	J	450	HIS	CA-C-N	5.31	124.94	119.05
3	J	450	HIS	C-N-CA	5.31	124.94	119.05
3	D	211	GLU	N-CA-C	5.31	117.75	111.33
5	L	433	TRP	CA-CB-CG	-5.30	103.52	113.60
1	A	18	GLN	N-CA-C	-5.30	101.83	110.20
2	C	711	ASP	CA-C-N	-5.30	113.84	121.42
2	C	711	ASP	C-N-CA	-5.30	113.84	121.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	J	426	ALA	CA-C-N	-5.30	113.22	119.84
3	J	426	ALA	C-N-CA	-5.30	113.22	119.84
3	D	259	ARG	N-CA-C	-5.29	103.04	110.35
1	A	46	ILE	CA-C-N	5.29	128.11	120.38
1	A	46	ILE	C-N-CA	5.29	128.11	120.38
3	J	503	SER	CA-C-N	-5.29	114.02	122.17
3	J	503	SER	C-N-CA	-5.29	114.02	122.17
1	H	136	GLU	CB-CA-C	-5.29	110.46	116.54
3	D	1237	VAL	N-CA-C	-5.29	104.59	110.62
2	I	1075	VAL	CB-CA-C	-5.29	104.54	111.25
2	I	1097	VAL	N-CA-CB	-5.29	106.06	112.35
3	D	605	LEU	N-CA-C	5.28	117.12	111.36
5	F	503	GLU	N-CA-C	5.28	121.49	109.81
3	J	283	LEU	CA-CB-CG	-5.28	97.81	116.30
3	D	846	GLU	CA-CB-CG	-5.28	103.54	114.10
2	I	1206	THR	N-CA-C	-5.28	105.61	111.36
3	J	116	PHE	N-CA-C	-5.28	106.84	113.28
3	J	493	PRO	N-CA-C	-5.28	107.75	114.35
2	C	198	ILE	N-CA-C	-5.27	102.04	109.21
3	J	508	LEU	CA-CB-CG	-5.27	97.84	116.30
2	C	843	THR	CA-C-N	5.27	127.60	120.38
2	C	843	THR	C-N-CA	5.27	127.60	120.38
5	F	479	THR	N-CA-C	5.27	116.57	109.24
2	I	1157	GLN	N-CA-C	5.27	117.43	111.11
2	C	786	GLY	CA-C-N	-5.27	115.15	120.31
2	C	786	GLY	C-N-CA	-5.27	115.15	120.31
2	C	1235	LEU	CA-CB-CG	-5.27	97.87	116.30
1	B	194	GLN	N-CA-C	5.26	116.75	109.54
2	C	290	GLU	N-CA-C	-5.26	106.91	113.38
5	L	522	PHE	CA-C-N	-5.26	114.54	122.01
5	L	522	PHE	C-N-CA	-5.26	114.54	122.01
3	D	442	ILE	N-CA-C	5.26	115.29	108.35
2	I	561	ILE	N-CA-C	5.26	120.28	109.34
2	C	521	LEU	N-CA-C	-5.25	105.45	111.07
2	C	31	GLN	N-CA-C	-5.25	105.20	111.03
1	G	192	VAL	N-CA-C	-5.25	102.30	109.55
1	A	71	LYS	N-CA-C	-5.25	101.60	109.95
1	A	223	ILE	CB-CA-C	-5.25	105.16	111.88
1	A	70	THR	CA-C-N	-5.24	114.43	122.87
1	A	70	THR	C-N-CA	-5.24	114.43	122.87
1	B	186	ASN	N-CA-C	-5.24	101.33	109.72
2	I	449	GLY	N-CA-C	-5.24	106.68	115.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	453	ILE	N-CA-C	5.24	115.40	107.75
5	L	355	ILE	N-CA-C	5.24	115.97	110.62
2	C	1334	GLY	N-CA-C	-5.23	106.50	115.61
3	D	464	ASP	N-CA-C	-5.23	103.23	110.35
4	E	36	ASP	CA-C-N	5.23	125.44	120.31
4	E	36	ASP	C-N-CA	5.23	125.44	120.31
2	I	626	GLU	N-CA-C	-5.23	105.69	111.71
2	I	322	LEU	CA-CB-CG	-5.22	98.02	116.30
5	L	530	LEU	CA-C-N	5.22	124.67	119.24
5	L	530	LEU	C-N-CA	5.22	124.67	119.24
5	F	247	GLU	N-CA-C	5.21	117.04	111.36
5	F	451	ARG	CB-CG-CD	-5.21	99.32	111.30
5	F	492	ASP	N-CA-C	-5.21	105.08	111.75
2	C	211	ARG	N-CA-C	-5.20	105.03	111.33
3	D	387	LEU	CA-CB-CG	-5.20	98.09	116.30
2	C	63	SER	N-CA-C	-5.20	107.30	113.38
3	D	346	ARG	CA-C-N	-5.20	113.99	121.95
3	D	346	ARG	C-N-CA	-5.20	113.99	121.95
2	C	433	ILE	N-CA-C	5.20	115.86	110.82
3	D	441	LEU	CA-CB-CG	-5.20	98.11	116.30
3	D	1168	GLU	N-CA-C	5.20	116.97	108.76
3	J	40	LYS	N-CA-C	-5.20	101.11	109.58
2	C	519	ASN	CA-C-N	5.20	125.50	119.47
2	C	519	ASN	C-N-CA	5.20	125.50	119.47
2	C	734	ILE	CA-C-N	-5.19	115.29	122.30
2	C	734	ILE	C-N-CA	-5.19	115.29	122.30
3	J	271	ARG	N-CA-C	5.19	116.75	111.14
3	D	445	LYS	N-CA-C	-5.19	103.88	111.30
4	E	63	ILE	CB-CA-C	-5.19	105.24	111.88
3	J	1189	MET	N-CA-C	5.19	116.98	108.52
3	J	755	ILE	N-CA-C	5.18	116.05	108.58
2	C	389	PHE	CA-C-N	-5.18	114.06	121.98
2	C	389	PHE	C-N-CA	-5.18	114.06	121.98
2	I	27	LEU	CA-CB-CG	-5.18	98.19	116.30
3	J	789	LYS	N-CA-C	-5.18	105.64	111.28
3	D	1326	GLN	CB-CA-C	-5.17	107.93	114.40
2	I	800	MET	N-CA-C	5.17	117.88	109.24
3	J	95	THR	N-CA-C	-5.17	106.92	113.18
3	J	346	ARG	N-CA-C	-5.17	103.21	110.35
2	I	1263	ALA	CB-CA-C	-5.17	110.59	116.54
2	C	1283	ALA	N-CA-C	5.17	121.80	110.80
3	D	662	ALA	N-CA-C	-5.17	105.77	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	I	262	TYR	N-CA-C	5.17	118.04	111.69
2	C	732	ILE	CA-C-N	-5.16	116.38	123.14
2	C	732	ILE	C-N-CA	-5.16	116.38	123.14
4	E	44	ASP	N-CA-C	-5.16	102.65	110.24
2	C	708	VAL	CB-CA-C	-5.16	105.10	112.22
3	J	135	ILE	N-CA-C	-5.16	105.47	110.42
2	C	699	LEU	N-CA-C	-5.16	105.66	111.28
4	E	34	GLY	N-CA-C	-5.16	100.95	113.18
5	F	590	ILE	CB-CA-C	-5.16	105.28	111.88
5	F	521	ASP	N-CA-C	-5.16	106.68	112.87
3	J	866	GLU	N-CA-C	-5.16	105.55	111.07
2	C	468	LEU	CA-CB-CG	-5.15	98.27	116.30
1	G	226	GLU	N-CA-C	5.15	116.89	111.28
5	L	406	GLN	N-CA-C	-5.15	105.35	110.97
2	C	315	MET	N-CA-C	-5.15	101.47	109.14
2	C	471	VAL	N-CA-C	-5.15	105.52	110.72
3	J	1317	GLU	N-CA-C	-5.15	105.10	111.33
5	L	503	GLU	C-N-CD	-5.14	109.29	120.60
2	I	667	LEU	CA-C-N	-5.13	118.32	123.04
2	I	667	LEU	C-N-CA	-5.13	118.32	123.04
2	I	786	GLY	CA-C-N	-5.13	114.70	120.14
2	I	786	GLY	C-N-CA	-5.13	114.70	120.14
2	C	110	PRO	N-CA-C	-5.13	101.91	112.47
2	C	1112	ILE	CB-CA-C	-5.13	105.32	112.04
3	J	233	LYS	CA-C-N	5.13	124.62	119.19
3	J	233	LYS	C-N-CA	5.13	124.62	119.19
2	I	1259	LEU	CA-CB-CG	-5.12	98.37	116.30
2	C	1057	LYS	CA-C-N	-5.12	115.59	123.07
2	C	1057	LYS	C-N-CA	-5.12	115.59	123.07
5	L	578	LYS	N-CA-C	5.12	117.53	111.33
3	J	57	PHE	N-CA-C	-5.12	101.42	109.50
1	H	50	SER	N-CA-C	5.12	117.29	109.62
2	I	30	ILE	N-CA-C	-5.12	105.72	110.53
2	I	463	GLN	N-CA-C	-5.12	105.78	111.36
3	D	510	LEU	N-CA-C	-5.11	105.39	110.97
2	C	176	ILE	N-CA-C	5.11	114.84	106.72
3	D	839	VAL	N-CA-C	5.11	118.07	112.96
1	G	147	GLN	N-CA-C	-5.11	101.92	109.18
2	I	47	TYR	CA-CB-CG	5.11	123.10	113.90
3	D	237	MET	N-CA-C	-5.11	106.74	112.87
3	D	1257	VAL	N-CA-C	-5.11	105.00	110.36
3	D	341	ASN	CA-C-N	-5.10	112.81	121.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	341	ASN	C-N-CA	-5.10	112.81	121.18
2	C	16	GLY	N-CA-C	-5.10	101.10	113.18
4	E	54	ILE	CB-CA-C	-5.10	105.18	112.22
2	I	603	ILE	N-CA-C	5.09	116.05	108.46
3	J	1165	PHE	N-CA-C	5.09	117.27	109.07
1	G	84	ASN	N-CA-C	-5.09	105.81	112.23
3	J	1193	TRP	N-CA-C	-5.09	107.23	112.93
3	J	1247	LYS	N-CA-C	5.09	117.59	108.17
2	C	1059	ARG	CA-C-N	-5.09	115.69	122.77
2	C	1059	ARG	C-N-CA	-5.09	115.69	122.77
1	B	36	GLY	N-CA-C	-5.09	101.12	113.18
2	C	136	PHE	CA-C-N	-5.08	116.52	122.93
2	C	136	PHE	C-N-CA	-5.08	116.52	122.93
4	K	48	VAL	CB-CA-C	-5.08	105.46	111.97
2	C	367	TYR	N-CA-C	-5.08	105.01	111.11
2	I	373	GLY	N-CA-C	-5.08	109.03	115.08
3	D	541	LEU	CA-CB-CG	-5.08	98.53	116.30
3	D	1359	ALA	N-CA-C	-5.08	99.99	110.80
5	F	540	LEU	CA-CB-CG	-5.07	98.56	116.30
3	D	532	GLU	N-CA-C	-5.06	107.05	113.18
2	I	671	LEU	N-CA-C	-5.06	105.77	111.28
1	B	271	LYS	N-CA-C	-5.05	105.04	111.11
5	F	430	TYR	N-CA-C	-5.05	106.97	113.23
2	I	281	ASP	N-CA-C	-5.05	104.67	111.54
3	D	176	PHE	CA-C-N	-5.05	114.97	122.74
3	D	176	PHE	C-N-CA	-5.05	114.97	122.74
3	J	105	ILE	N-CA-C	5.05	115.92	108.45
3	J	120	LEU	CA-C-N	-5.04	114.02	120.23
3	J	120	LEU	C-N-CA	-5.04	114.02	120.23
2	C	476	LYS	N-CA-C	-5.04	105.67	111.07
2	C	548	ARG	N-CA-C	-5.04	106.81	113.12
2	C	179	TYR	N-CA-C	-5.04	106.39	112.54
3	D	157	GLN	N-CA-C	-5.04	107.63	112.97
5	F	561	MET	N-CA-C	-5.04	105.88	112.23
2	I	82	VAL	N-CA-C	5.04	115.18	110.30
1	A	121	VAL	N-CA-C	5.03	114.81	107.37
3	J	231	GLY	N-CA-C	-5.03	101.27	113.18
3	D	388	ARG	N-CA-C	-5.02	106.98	113.01
1	A	24	ALA	N-CA-C	5.02	116.69	108.76
2	I	1195	ILE	CB-CA-C	-5.01	105.33	111.94
3	D	1213	GLY	CA-C-N	5.01	126.10	119.84
3	D	1213	GLY	C-N-CA	5.01	126.10	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	35	PHE	N-CA-C	-5.00	105.52	110.97
2	C	117	ILE	N-CA-C	5.00	115.06	107.80

There are no chirality outliers.

All (14) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	196	THR	Peptide
2	C	236	LYS	Peptide
2	C	600	THR	Peptide
2	C	658	GLN	Peptide
3	D	111	THR	Peptide
3	D	1184	ASP	Peptide
3	D	14	THR	Peptide
3	D	250	ARG	Peptide
3	D	902	ASP	Peptide
2	I	109	ALA	Peptide
2	I	236	LYS	Peptide
2	I	564	PRO	Peptide
3	J	250	ARG	Peptide
3	J	901	ARG	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1779	0	1806	354	0
1	B	2239	0	2300	505	0
1	G	1755	0	1773	338	0
1	H	1662	0	1687	295	0
2	C	10564	0	10571	1912	1
2	I	10552	0	10548	1844	0
3	D	9062	0	9227	1861	1
3	J	9021	0	9213	1842	1
4	E	691	0	695	97	0
4	K	627	0	634	107	0
5	F	3726	0	3798	660	1

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	L	3640	0	3650	595	0
6	D	1	0	0	0	0
6	J	1	0	0	0	0
7	D	2	0	0	0	0
7	J	2	0	0	0	0
8	D	31	33	32	16	0
All	All	55355	33	55934	9716	2

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 87.

All (9716) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:88:LEU:HD12	1:B:89:ALA:H	1.07	1.18
2:I:280:ASP:HB3	2:I:282:VAL:HG23	1.24	1.18
3:D:850:LYS:HG2	3:D:857:LEU:HD11	1.24	1.18
2:C:798:GLN:HB2	2:C:828:PHE:HE1	1.04	1.17
3:D:1372:ARG:HH21	3:J:854:ALA:HB3	1.07	1.15
3:J:120:LEU:HB3	3:J:121:PRO:HD3	1.25	1.15
3:J:706:VAL:HG12	3:J:715:LYS:HB3	1.28	1.15
2:C:119:GLU:HB2	2:C:489:PRO:HD2	1.23	1.15
1:H:42:ALA:HA	1:H:45:ARG:HG3	1.22	1.15
3:D:857:LEU:HD23	3:D:871:LEU:HD21	1.21	1.14
3:J:520:ALA:HB1	3:J:543:SER:HB3	1.27	1.13
1:A:14:VAL:HG22	1:A:15:ASP:H	1.10	1.13
2:C:646:SER:HB3	2:C:649:GLN:HG3	1.27	1.12
1:B:112:ALA:HB3	1:B:126:PRO:HA	1.21	1.12
2:C:1160:ASP:HB2	2:C:1161:LEU:HA	1.32	1.12
1:G:38:THR:HA	1:H:45:ARG:HD3	1.25	1.12
1:G:224:LEU:HD21	1:H:224:LEU:HD21	1.22	1.12
1:H:153:VAL:HB	1:H:175:ALA:HB3	1.12	1.12
1:B:102:LEU:HD21	1:B:115:ILE:HA	1.28	1.11
2:C:1062:PRO:HA	2:C:1076:ILE:HD11	1.31	1.11
3:J:265:LEU:HD11	3:J:330:MET:HE1	1.27	1.11
2:C:607:SER:HB3	2:C:610:GLU:HG3	1.31	1.11
2:I:344:GLY:HA3	2:I:346:TYR:CE1	1.86	1.11
2:I:59:ILE:HG21	2:I:475:VAL:HG11	1.30	1.11
1:B:35:PHE:HA	1:B:38:THR:HG22	1.19	1.11
1:B:183:ILE:HG22	1:B:205:MET:HG3	1.24	1.10
2:C:594:VAL:HG22	2:C:599:VAL:HA	1.27	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:614:LEU:HD23	4:E:7:GLN:HB2	1.25	1.10
5:F:279:ARG:HH21	5:F:347:ILE:HG12	1.12	1.10
3:J:510:LEU:HD23	3:J:601:ILE:HD11	1.10	1.10
3:D:130:MET:HE2	3:D:135:ILE:HG12	1.32	1.09
2:I:1066:MET:HE1	2:I:1076:ILE:HD12	1.23	1.09
3:J:268:LEU:HD11	3:J:324:LEU:HD13	1.33	1.09
1:B:284:ARG:HA	1:B:284:ARG:NH1	1.65	1.09
2:C:839:VAL:HG12	2:C:1049:ILE:HG12	1.34	1.09
2:I:1160:ASP:HB2	2:I:1162:SER:H	1.12	1.09
1:A:44:ARG:HB2	1:A:183:ILE:HG21	1.13	1.09
1:B:81:ILE:HG22	1:B:85:LEU:HD21	1.31	1.09
1:B:153:VAL:HG13	1:B:157:THR:HG21	1.28	1.09
5:F:572:THR:HG23	5:F:575:GLU:HB3	1.31	1.08
2:I:700:VAL:HG11	2:I:1114:GLU:HG3	1.31	1.08
2:I:1131:MET:HE2	2:I:1141:LEU:HD12	1.30	1.08
2:I:884:VAL:HG11	2:I:1050:VAL:HG21	1.35	1.08
2:I:1304:MET:HE3	2:I:1308:ILE:HD11	1.32	1.08
2:C:59:ILE:HG21	2:C:475:VAL:HG11	1.36	1.08
2:C:1144:PHE:HE1	2:C:1201:LEU:HD11	1.17	1.08
5:L:540:LEU:HD13	5:L:607:LEU:HG	1.34	1.08
2:C:496:LYS:HZ2	2:C:497:PRO:HG3	1.15	1.07
2:I:810:TYR:CE2	3:J:359:PRO:HD2	1.90	1.07
3:J:647:PRO:HG3	3:J:697:MET:HB3	1.10	1.07
5:F:234:THR:HB	5:F:245:ALA:HB1	1.30	1.07
5:L:406:GLN:HE21	5:L:406:GLN:HA	1.17	1.07
3:J:573:THR:HG23	3:J:576:ARG:HG3	1.33	1.07
3:D:850:LYS:HB3	3:D:851:PRO:HD2	1.35	1.06
1:G:45:ARG:CG	1:H:38:THR:HB	1.84	1.06
3:D:390:LEU:CD2	3:D:407:VAL:HG11	1.85	1.06
2:I:1151:LEU:HG	2:I:1198:LEU:HD23	1.37	1.06
5:F:562:ARG:HG2	5:F:573:LEU:HD12	1.29	1.06
2:C:1160:ASP:CB	2:C:1161:LEU:HA	1.85	1.06
3:J:339:ARG:HB3	3:J:340:GLN:CA	1.85	1.06
3:D:259:ARG:HG2	3:D:260:PHE:H	1.21	1.05
3:D:647:PRO:HG3	3:D:697:MET:HB3	1.32	1.05
5:F:139:GLU:HA	5:F:142:THR:HG22	1.09	1.05
3:J:336:GLY:HA2	3:J:1327:GLU:H	1.19	1.05
2:C:1196:LYS:HD2	2:C:1206:THR:HG23	1.33	1.05
1:A:81:ILE:HA	1:A:84:ASN:HD22	1.17	1.05
2:C:1142:ARG:HH12	2:C:1165:SER:HA	1.21	1.05
1:B:33:ARG:HH11	1:B:33:ARG:HG2	1.22	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:145:ILE:HG22	2:C:456:VAL:HG22	1.34	1.05
2:C:1062:PRO:CA	2:C:1076:ILE:HD11	1.87	1.05
2:I:798:GLN:HB2	2:I:828:PHE:HE1	1.13	1.04
2:C:1272:GLU:HB2	3:D:342:LEU:HD12	1.37	1.04
2:I:338:THR:HG21	2:I:345:PRO:HB3	1.09	1.04
3:J:325:LYS:HE3	3:J:330:MET:HG2	1.35	1.04
3:D:268:LEU:HD22	3:D:306:LEU:HA	1.40	1.03
2:I:1211:ARG:HB2	2:I:1220:GLN:HE21	1.22	1.03
2:I:1284:ALA:HB3	3:J:1361:THR:HB	1.35	1.03
2:I:1131:MET:HB3	2:I:1141:LEU:HD11	1.37	1.03
3:J:495:ASN:O	3:J:497:GLU:N	1.91	1.03
3:J:1358:PRO:HB3	3:J:1366:HIS:CD2	1.92	1.03
5:L:412:LEU:HB2	5:L:435:ILE:HD11	1.38	1.03
1:H:118:ASP:HB2	1:H:121:VAL:HB	1.06	1.03
2:C:302:ILE:HG22	2:C:309:LEU:HA	1.35	1.03
3:D:252:LEU:HD23	3:D:262:THR:HB	1.34	1.03
3:J:814:CYS:HB2	3:J:889:ASP:HB3	1.39	1.03
2:C:59:ILE:HD12	2:C:475:VAL:HG21	1.38	1.02
3:D:423:LEU:HD12	3:D:468:VAL:HG12	1.41	1.02
5:L:108:VAL:HA	5:L:385:ARG:HH12	1.24	1.02
2:C:483:ASP:HB2	2:C:486:THR:HG21	1.08	1.02
3:J:80:HIS:HB3	3:J:83:VAL:HG11	1.40	1.02
3:J:746:LEU:HG	3:J:758:PRO:HB3	1.37	1.02
2:C:1144:PHE:CE1	2:C:1201:LEU:HD11	1.94	1.02
2:I:338:THR:CG2	2:I:345:PRO:HB3	1.90	1.02
3:J:520:ALA:HB3	3:J:546:ALA:HB2	1.39	1.02
2:C:1284:ALA:CB	3:D:1361:THR:HB	1.90	1.02
5:L:530:LEU:H	5:L:530:LEU:HD12	1.20	1.02
2:C:817:LEU:CD1	2:C:1097:VAL:HB	1.90	1.01
3:D:288:PRO:HG3	5:F:380:VAL:HG11	1.38	1.01
3:D:357:VAL:HG22	3:D:461:PHE:HE1	1.21	1.01
3:D:1215:GLU:HG3	3:D:1220:ILE:HD11	1.39	1.01
5:F:495:ARG:HA	5:F:498:LEU:HD23	1.36	1.01
1:A:61:ILE:HD11	1:A:142:MET:HE2	1.42	1.01
1:A:54:CYS:HB3	1:A:148:ARG:HA	1.41	1.01
1:B:310:ARG:HA	1:B:310:ARG:HE	1.25	1.01
3:D:836:ARG:HE	3:D:869:CYS:HB3	1.25	1.01
3:J:647:PRO:HG3	3:J:697:MET:CB	1.89	1.01
3:D:706:VAL:HG12	3:D:715:LYS:HB3	1.41	1.01
1:B:35:PHE:HA	1:B:38:THR:CG2	1.91	1.00
2:C:798:GLN:HB2	2:C:828:PHE:CE1	1.96	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1280:VAL:HG11	3:J:1304:ARG:HH21	1.19	1.00
2:C:810:TYR:HE1	2:C:1078:LYS:HD2	1.26	1.00
2:I:98:VAL:HG21	2:I:124:MET:HE3	1.42	1.00
3:J:242:LEU:HD23	3:J:243:PRO:HD2	1.44	1.00
1:A:162:GLU:HG3	1:A:165:GLU:HG2	1.38	1.00
2:I:176:ILE:HB	2:I:184:LEU:HB3	1.43	1.00
3:J:42:GLU:HG2	5:L:451:ARG:NE	1.75	1.00
1:A:61:ILE:HG22	1:A:64:VAL:CG2	1.91	1.00
1:B:29:GLU:HB3	1:B:200:LYS:HB2	1.44	1.00
2:I:174:ALA:HB2	2:I:432:LEU:HD13	1.41	0.99
1:A:207:THR:HG22	1:A:209:GLY:H	1.27	0.99
2:C:1024:GLU:HA	2:C:1027:LYS:HD3	1.42	0.99
1:A:50:SER:HB3	1:B:8:PHE:HZ	1.25	0.99
2:I:646:SER:HB3	2:I:649:GLN:HG3	1.43	0.99
3:D:872:LEU:HD22	3:D:877:VAL:HG11	1.45	0.99
3:D:357:VAL:HG22	3:D:461:PHE:CE1	1.98	0.99
3:J:48:THR:O	3:J:50:LYS:N	1.95	0.99
2:C:1305:TYR:HE1	3:D:379:PRO:CG	1.74	0.98
2:C:985:GLU:O	2:C:989:LEU:N	1.95	0.98
3:D:519:ASN:HB2	3:D:709:ARG:HB2	1.44	0.98
2:I:26:TYR:HE2	2:I:28:LEU:HB2	1.26	0.98
2:C:1278:LEU:HD12	2:C:1287:LEU:HB2	1.45	0.98
2:I:993:PRO:HG2	2:I:996:ARG:HB2	1.46	0.98
3:J:423:LEU:HD12	3:J:468:VAL:HG12	1.43	0.98
2:C:799:ASN:HB3	2:C:1231:TYR:HD1	1.25	0.98
2:C:817:LEU:HD23	2:C:1080:ASN:HD22	1.26	0.98
2:I:176:ILE:HD11	2:I:428:VAL:HG21	1.45	0.98
3:J:339:ARG:HB3	3:J:340:GLN:HA	1.45	0.98
1:B:41:ASN:OD1	1:B:44:ARG:NH1	1.96	0.98
3:J:339:ARG:HB3	3:J:340:GLN:CB	1.94	0.98
2:C:818:VAL:HG23	2:C:1096:ILE:HG23	1.43	0.98
3:D:888:CYS:SG	3:D:890:THR:HG22	2.04	0.98
3:J:268:LEU:HD22	3:J:306:LEU:HD23	1.44	0.98
2:C:882:ILE:HD12	2:C:882:ILE:H	1.29	0.98
3:D:1280:VAL:HG21	3:D:1304:ARG:HE	1.29	0.97
5:F:540:LEU:HD13	5:F:607:LEU:HD22	1.46	0.97
3:D:140:TYR:HD2	5:F:100:MET:HE1	1.29	0.97
3:J:510:LEU:CD2	3:J:601:ILE:HD11	1.94	0.97
3:D:510:LEU:HD23	3:D:601:ILE:HD11	1.42	0.97
1:G:45:ARG:HG2	1:H:38:THR:CB	1.94	0.97
1:G:45:ARG:HG2	1:H:38:THR:HB	0.98	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:944:ARG:HE	2:I:948:ILE:HD11	1.29	0.97
3:J:615:LYS:HZ2	4:K:7:GLN:HG2	1.24	0.97
3:D:80:HIS:HB3	3:D:83:VAL:HG11	1.47	0.97
3:J:865:HIS:CE1	3:J:867:GLN:HB2	2.00	0.97
2:C:119:GLU:HG3	2:C:488:MET:HB3	1.45	0.97
3:J:210:SER:HB2	3:J:213:LYS:HB2	1.46	0.97
2:C:883:LEU:HB2	2:C:918:LEU:HD11	1.44	0.97
3:J:72:CYS:N	3:J:88:CYS:SG	2.36	0.97
2:C:960:LEU:HD13	2:C:963:GLU:HG3	1.45	0.96
5:F:100:MET:O	5:F:104:GLU:HB2	1.65	0.96
3:J:1316:THR:HG22	3:J:1318:SER:H	1.29	0.96
2:C:122:VAL:HG21	2:C:493:ILE:HG21	1.45	0.96
3:D:888:CYS:HA	3:D:898:CYS:SG	2.05	0.96
3:J:872:LEU:HD22	3:J:877:VAL:HG11	1.47	0.96
2:C:590:PRO:HG3	2:C:605:TYR:CZ	2.00	0.96
5:L:240:ARG:HB3	5:L:244:THR:HB	1.48	0.96
1:B:284:ARG:HH11	1:B:284:ARG:CA	1.77	0.96
3:D:694:SER:HB2	3:D:738:ARG:HD3	1.48	0.96
4:K:49:ILE:HA	4:K:52:ARG:HD3	1.47	0.96
3:D:1159:ILE:HG22	3:D:1177:ILE:HD12	1.42	0.96
2:I:548:ARG:NH2	2:I:568:ASN:HA	1.80	0.96
3:J:885:VAL:O	3:J:1258:ARG:NH1	1.98	0.96
3:D:865:HIS:CE1	3:D:867:GLN:HB2	1.99	0.96
2:I:1253:LEU:HA	5:L:525:ASP:HB2	1.48	0.96
2:C:483:ASP:HB2	2:C:486:THR:CG2	1.96	0.96
5:F:139:GLU:HA	5:F:142:THR:CG2	1.94	0.96
3:D:113:HIS:CE1	3:D:115:TRP:HB2	2.01	0.96
2:I:516:ASP:O	2:I:522:SER:OG	1.82	0.95
3:D:482:ALA:O	3:D:488:ASN:ND2	2.00	0.95
1:B:228:LEU:O	1:B:230:ALA:N	1.99	0.95
1:B:284:ARG:HA	1:B:284:ARG:HH11	0.81	0.95
2:I:407:ARG:HA	2:I:407:ARG:NE	1.77	0.95
2:C:756:TYR:HD1	2:C:756:TYR:H	1.12	0.95
3:D:805:GLN:O	3:D:807:LEU:N	1.99	0.95
5:F:423:ARG:HB3	5:F:425:TYR:CD1	2.02	0.95
4:K:39:VAL:HG22	4:K:40:PRO:HD2	1.49	0.95
2:C:1284:ALA:HB2	3:D:1361:THR:HB	1.46	0.95
3:D:850:LYS:CG	3:D:857:LEU:HD11	1.97	0.95
1:B:107:ILE:HG12	1:B:135:ASP:HA	1.45	0.95
1:B:282:VAL:HG21	1:B:316:MET:HE2	1.47	0.95
2:C:722:GLY:HA2	2:C:737:ASN:OD1	1.67	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:562:ARG:HD3	5:F:573:LEU:HG	1.48	0.95
2:C:1217:THR:OG1	2:C:1219:GLU:HG2	1.65	0.95
3:D:1167:LYS:HZ3	3:D:1170:LYS:HB2	1.29	0.95
3:D:1372:ARG:NH2	3:J:854:ALA:HB3	1.81	0.95
1:G:189:ALA:HA	1:G:199:ASP:HA	1.46	0.95
3:D:252:LEU:CD2	3:D:262:THR:HB	1.97	0.94
2:I:26:TYR:CE2	2:I:28:LEU:HB2	2.01	0.94
3:J:130:MET:HE2	3:J:135:ILE:HG12	1.50	0.94
1:B:182:ARG:NH1	3:D:581:MET:SD	2.40	0.94
3:D:120:LEU:HB3	3:D:121:PRO:HD3	1.47	0.94
3:D:867:GLN:HE21	3:D:867:GLN:H	1.01	0.94
2:I:1142:ARG:HH12	2:I:1165:SER:HA	1.30	0.94
5:L:448:ARG:HD3	5:L:450:ILE:HG13	1.49	0.94
3:J:369:PRO:HB3	3:J:444:GLY:O	1.68	0.94
1:A:187:VAL:HG12	1:A:201:LEU:HD13	1.48	0.94
3:D:810:THR:CG2	3:D:893:GLY:HA3	1.98	0.94
2:I:452:ARG:HH11	2:I:452:ARG:HG3	1.30	0.94
2:C:1293:VAL:HG11	2:C:1304:MET:HB2	1.50	0.94
2:I:1101:LEU:O	3:J:731:ARG:HD3	1.66	0.94
3:J:426:ALA:HB3	3:J:427:PRO:HD3	1.48	0.94
3:J:507:VAL:HG21	3:J:598:LYS:HB2	1.49	0.94
3:D:205:LEU:HA	3:D:217:LEU:HD21	1.50	0.94
2:I:810:TYR:HE2	3:J:359:PRO:HD2	1.22	0.94
5:F:394:TYR:CD2	5:F:439:ILE:HD11	2.03	0.94
3:D:156:ARG:HH12	3:D:157:GLN:HE21	0.98	0.93
2:I:98:VAL:HG21	2:I:124:MET:CE	1.97	0.93
2:C:959:ASP:O	2:C:963:GLU:HG2	1.69	0.93
3:J:1239:ASP:O	3:J:1243:LEU:HB2	1.67	0.93
5:F:290:LEU:HB3	5:F:333:VAL:HG21	1.49	0.93
5:F:562:ARG:CZ	5:F:573:LEU:HB3	1.98	0.93
1:G:218:ARG:HD3	1:H:233:ASP:H	1.34	0.93
1:H:118:ASP:CB	1:H:121:VAL:HB	1.97	0.93
2:C:119:GLU:CB	2:C:489:PRO:HD2	1.99	0.93
3:J:647:PRO:CG	3:J:697:MET:HB3	1.98	0.93
5:L:132:CYS:SG	5:L:257:LYS:NZ	2.41	0.93
5:F:474:MET:O	5:F:476:ARG:N	2.02	0.93
3:D:520:ALA:HB3	3:D:546:ALA:HB2	1.51	0.93
2:C:810:TYR:CE1	2:C:1078:LYS:HD2	2.04	0.93
5:F:346:GLN:NE2	5:F:350:GLU:OE2	2.02	0.93
2:I:551:HIS:H	2:I:554:HIS:CD2	1.87	0.92
3:J:190:LYS:HD3	3:J:235:GLU:HG2	1.49	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1160:ASP:HB2	2:I:1162:SER:N	1.82	0.92
2:I:1282:GLY:O	2:I:1284:ALA:N	2.01	0.92
2:C:557:ARG:HH21	2:C:608:ALA:HA	1.34	0.92
3:D:867:GLN:HE21	3:D:867:GLN:N	1.68	0.92
5:L:471:LEU:HD21	5:L:478:PRO:HD3	1.51	0.92
2:C:590:PRO:HB2	2:C:655:VAL:HG21	1.51	0.92
3:D:48:THR:O	3:D:50:LYS:N	2.02	0.92
1:G:224:LEU:HD21	1:H:224:LEU:CD2	1.98	0.92
2:I:208:ILE:HG23	2:I:362:ALA:HB1	1.51	0.92
3:J:788:LEU:HG	3:J:789:LYS:N	1.84	0.92
2:C:1326:LEU:HD21	8:D:2004:4C4:H15	1.52	0.92
1:B:76:GLU:OE2	1:B:132:HIS:N	2.03	0.92
3:D:506:VAL:HG23	3:D:628:GLY:HA3	1.51	0.92
2:I:746:ALA:HB2	2:I:974:ARG:HE	1.34	0.92
5:L:544:THR:O	5:L:547:VAL:N	2.03	0.92
3:J:385:LEU:HD21	3:J:411:ILE:HG13	1.50	0.92
3:J:513:MET:HE1	3:J:579:LEU:HD13	1.52	0.92
2:C:551:HIS:H	2:C:554:HIS:CD2	1.87	0.91
1:H:118:ASP:HB2	1:H:121:VAL:CB	1.99	0.91
2:I:453:ILE:HD11	2:I:530:ILE:HD13	1.52	0.91
2:C:582:ASN:HB3	2:C:585:GLY:H	1.35	0.91
3:D:848:VAL:HG12	3:D:858:VAL:H	1.34	0.91
3:J:1280:VAL:HG11	3:J:1304:ARG:NH2	1.84	0.91
2:C:1268:GLN:NE2	3:D:352:ARG:HD3	1.84	0.91
2:I:936:ARG:NH2	2:I:1046:VAL:O	2.04	0.91
3:J:232:ASN:HA	3:J:236:TRP:HZ3	1.34	0.91
3:D:424:ASN:HB2	3:D:434:ILE:HG12	1.50	0.91
2:I:324:LYS:O	2:I:327:GLN:NE2	2.02	0.91
1:A:152:TYR:HE1	2:C:824:GLN:HA	1.33	0.91
2:C:243:PRO:HB2	2:C:278:GLU:CG	2.00	0.91
2:C:1342:GLU:HA	3:D:17:PHE:HA	1.52	0.91
3:D:97:VAL:HG11	3:D:101:ARG:CZ	2.01	0.91
2:C:90:VAL:HG12	2:C:91:THR:H	1.36	0.91
5:F:454:VAL:O	5:F:457:ILE:N	2.04	0.91
3:D:70:CYS:SG	3:D:73:GLY:N	2.43	0.91
3:D:260:PHE:HB2	5:F:504:PRO:CG	2.01	0.91
3:D:425:ARG:HG2	3:D:426:ALA:H	1.35	0.91
3:J:741:ALA:O	3:J:762:ASN:ND2	2.03	0.91
3:D:205:LEU:HD23	3:D:217:LEU:HG	1.49	0.91
3:D:1282:TYR:O	3:D:1285:VAL:HG22	1.71	0.91
5:F:240:ARG:HD3	5:F:244:THR:HB	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:9:LEU:CB	1:B:32:GLU:HG3	2.00	0.91
2:C:344:GLY:HA3	2:C:346:TYR:CE2	2.05	0.91
2:C:1136:GLN:O	2:C:1140:LYS:HG3	1.69	0.91
3:D:527:LEU:CD2	3:D:536:LEU:HD23	2.00	0.91
1:G:100:LEU:HD23	1:G:115:ILE:HG21	1.49	0.91
5:L:316:PHE:HZ	5:L:334:SER:HA	1.35	0.91
2:C:302:ILE:O	2:C:330:HIS:NE2	2.03	0.90
2:C:324:LYS:O	2:C:327:GLN:NE2	2.04	0.90
2:C:519:ASN:ND2	2:C:689:ALA:O	2.04	0.90
2:C:1297:ASP:OD1	2:C:1300:GLY:N	2.02	0.90
3:J:113:HIS:CE1	3:J:115:TRP:HB2	2.07	0.90
3:D:394:ILE:HD11	5:F:536:THR:HG22	1.53	0.90
1:A:152:TYR:HE2	1:A:154:PRO:HB3	1.36	0.90
3:J:826:ILE:HA	3:J:831:VAL:HA	1.53	0.90
1:A:100:LEU:HD23	1:A:115:ILE:HG21	1.53	0.90
3:D:842:ARG:HB3	3:D:882:VAL:HG11	1.54	0.90
1:G:12:ARG:H	1:G:30:PRO:HD2	1.35	0.90
2:C:901:LEU:HA	5:F:563:PHE:CE2	2.06	0.90
2:C:1280:ALA:HB3	3:D:431:ARG:HB3	1.53	0.90
3:D:79:LYS:HG3	3:D:80:HIS:ND1	1.87	0.90
3:D:849:LEU:H	3:D:849:LEU:HD22	1.35	0.90
3:J:220:ARG:O	3:J:224:LEU:N	2.05	0.90
2:C:414:ILE:HG13	2:C:415:GLU:HG2	1.50	0.90
2:C:148:GLN:NE2	2:C:533:LEU:O	2.04	0.90
3:D:514:THR:CB	3:D:596:LEU:HD23	2.01	0.90
2:I:944:ARG:HG3	2:I:948:ILE:HD12	1.53	0.90
3:J:810:THR:HG21	3:J:893:GLY:HA3	1.52	0.90
2:C:435:ILE:O	2:C:438:GLY:N	2.05	0.90
2:C:726:TYR:CE2	2:C:728:ASP:HB2	2.07	0.90
2:I:1192:GLU:HA	2:I:1195:ILE:HD12	1.53	0.90
3:J:842:ARG:HD3	3:J:882:VAL:HG11	1.51	0.90
2:C:927:THR:HG22	2:C:928:VAL:O	1.72	0.90
2:C:1255:THR:O	2:C:1257:GLN:N	2.04	0.90
3:D:245:LEU:HG	3:D:246:PRO:HD2	1.54	0.90
2:I:245:ARG:HG2	2:I:337:PHE:CE2	2.07	0.89
2:I:798:GLN:HB2	2:I:828:PHE:CE1	2.06	0.89
2:I:1260:GLY:HA3	2:I:1265:PHE:HA	1.54	0.89
3:J:1234:VAL:HA	3:J:1237:VAL:HG12	1.52	0.89
2:C:1191:LYS:HD3	2:C:1193:ALA:H	1.37	0.89
4:E:10:VAL:HG22	4:E:19:LEU:HD23	1.55	0.89
1:B:102:LEU:O	1:B:141:SER:HA	1.72	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:128:ASN:HA	5:F:131:GLN:HB2	1.52	0.89
2:I:519:ASN:HD21	2:I:796:LEU:HD23	1.35	0.89
3:D:362:ARG:H	3:D:365:GLN:HE21	1.16	0.89
3:D:762:ASN:ND2	3:D:765:GLU:OE2	2.05	0.89
2:I:1077:SER:HB3	3:J:357:VAL:HG23	1.54	0.89
3:J:366:CYS:HB3	3:J:437:PHE:CD1	2.06	0.89
5:L:540:LEU:CD1	5:L:607:LEU:HG	2.02	0.89
3:D:119:SER:OG	3:D:1333:THR:HG21	1.73	0.89
2:I:685:MET:HA	2:I:688:GLN:HE21	1.36	0.89
3:J:850:LYS:HB3	3:J:851:PRO:HD2	1.50	0.89
2:C:713:GLY:O	2:C:715:THR:N	2.04	0.89
3:D:1316:THR:HG22	3:D:1318:SER:H	1.34	0.89
2:I:1196:LYS:HD2	2:I:1206:THR:HG23	1.54	0.89
3:D:1167:LYS:NZ	3:D:1170:LYS:HB2	1.87	0.89
5:F:215:GLU:HA	5:F:218:ARG:HD3	1.51	0.89
2:I:146:VAL:HG12	2:I:529:ARG:HB3	1.52	0.89
3:J:425:ARG:HG2	3:J:426:ALA:H	1.37	0.89
3:J:615:LYS:NZ	4:K:7:GLN:HG2	1.85	0.89
1:A:44:ARG:HB2	1:A:183:ILE:CG2	2.01	0.89
5:F:135:ALA:HA	5:F:256:PHE:CD2	2.08	0.89
2:C:1120:ALA:HB2	2:C:1199:LEU:HD23	1.55	0.89
5:F:585:GLU:HA	5:F:588:ARG:HG3	1.55	0.89
2:I:800:MET:HE2	2:I:1096:ILE:HD11	1.54	0.89
3:J:514:THR:HG21	3:J:596:LEU:HB2	1.54	0.89
2:C:296:VAL:HB	2:C:336:LEU:HD12	1.55	0.89
3:D:140:TYR:CD2	5:F:100:MET:HE1	2.08	0.89
2:I:314:ASN:OD1	2:I:348:SER:OG	1.90	0.89
3:D:156:ARG:NH1	3:D:157:GLN:HE21	1.71	0.88
3:D:609:TYR:HB2	3:D:617:THR:HG21	1.55	0.88
2:I:1238:LEU:HD12	2:I:1238:LEU:H	1.37	0.88
3:J:325:LYS:CE	3:J:330:MET:HG2	2.03	0.88
2:I:5:TYR:O	2:I:8:LYS:HG2	1.72	0.88
4:K:35:LYS:NZ	4:K:71:GLU:OE2	2.05	0.88
2:C:1293:VAL:HG13	2:C:1301:ARG:HA	1.54	0.88
3:J:479:GLU:HG2	4:K:20:VAL:HG11	1.52	0.88
3:J:931:THR:HB	3:J:1137:GLY:CA	2.03	0.88
3:D:114:ILE:HD12	3:D:304:ASP:HB3	1.56	0.88
5:F:572:THR:CG2	5:F:575:GLU:HB3	2.02	0.88
2:C:496:LYS:NZ	2:C:497:PRO:HG3	1.89	0.88
3:D:77:ARG:HG3	3:D:79:LYS:H	1.37	0.88
1:H:32:GLU:HB2	1:H:35:PHE:CD2	2.06	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:488:ASN:HD21	4:K:6:VAL:HG11	1.37	0.88
3:J:1157:ALA:CB	3:J:1206:ARG:HA	2.02	0.88
3:J:857:LEU:HD12	3:J:858:VAL:H	1.38	0.88
2:C:243:PRO:HB2	2:C:278:GLU:HG3	1.53	0.88
2:C:303:ASP:HB3	2:C:306:THR:CG2	2.04	0.88
3:D:870:ASP:O	3:D:874:GLU:HG3	1.74	0.88
1:H:153:VAL:O	1:H:175:ALA:N	2.06	0.88
2:I:516:ASP:HA	2:I:761:GLN:NE2	1.87	0.88
2:I:1284:ALA:HB1	3:J:1356:LEU:HD21	1.52	0.88
2:C:724:VAL:HG11	2:C:727:VAL:CG2	2.04	0.88
2:C:818:VAL:CG2	2:C:1096:ILE:HG23	2.04	0.88
2:C:1312:ASN:HD21	2:C:1314:GLN:HE21	0.93	0.88
3:D:245:LEU:HD21	3:D:249:LEU:HD12	1.56	0.88
1:H:140:ILE:HD11	1:H:142:MET:HE3	1.56	0.88
3:J:481:ARG:HA	3:J:485:MET:HB2	1.54	0.88
3:J:1371:ARG:HH22	3:J:1372:ARG:HH21	1.20	0.88
2:C:805:MET:HE1	2:C:1221:PHE:CE1	2.09	0.87
3:D:854:ALA:CB	3:J:1372:ARG:HG3	2.03	0.87
3:D:896:ALA:HB1	3:D:908:ILE:HD11	1.53	0.87
5:L:270:VAL:HA	5:L:273:MET:HE2	1.55	0.87
5:L:484:ALA:HB1	5:L:490:PRO:O	1.73	0.87
1:A:45:ARG:HG2	1:B:38:THR:HB	1.56	0.87
2:C:1315:MET:HE2	2:C:1317:PRO:HD3	1.53	0.87
3:D:382:TYR:HE1	3:D:401:VAL:HG21	1.39	0.87
1:G:153:VAL:HB	1:G:175:ALA:HB3	1.56	0.87
2:I:990:ASP:HA	2:I:997:TRP:CZ2	2.08	0.87
3:J:491:LEU:HB2	3:J:904:ALA:HA	1.55	0.87
3:D:198:CYS:O	3:D:202:ARG:N	2.06	0.87
3:J:537:TYR:O	3:J:540:GLY:N	2.08	0.87
3:J:1138:LEU:HB3	3:J:1139:PRO:HD3	1.56	0.87
2:C:145:ILE:HD11	2:C:512:SER:HB2	1.57	0.87
3:D:16:GLU:O	3:D:1369:ARG:NH2	2.07	0.87
3:D:835:LEU:O	3:D:839:VAL:HG23	1.73	0.87
3:J:416:ILE:HD13	3:J:441:LEU:HD21	1.54	0.87
3:J:536:LEU:HD13	3:J:541:LEU:HB2	1.56	0.87
3:J:709:ARG:O	3:J:711:GLY:N	2.07	0.87
2:C:1196:LYS:HD2	2:C:1206:THR:CG2	2.03	0.87
3:D:108:ALA:CB	3:D:279:LEU:HD22	2.04	0.87
3:D:776:THR:O	3:D:778:GLY:N	2.06	0.87
5:F:484:ALA:HB2	5:F:494:ILE:HD12	1.55	0.87
2:I:698:PRO:HB3	2:I:1231:TYR:CG	2.09	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1160:ASP:CG	2:I:1161:LEU:HA	2.00	0.87
3:J:707:ILE:HG22	3:J:708:ASN:H	1.37	0.87
3:J:737:ILE:HA	3:J:740:LEU:HD22	1.56	0.87
2:C:1192:GLU:HA	2:C:1195:ILE:HD12	1.56	0.87
3:J:128:LEU:HD11	3:J:189:LEU:HD21	1.56	0.87
1:B:103:ASN:HA	1:B:141:SER:HB2	1.54	0.87
3:D:667:GLN:HA	3:D:672:LEU:HD13	1.54	0.87
3:J:1157:ALA:HB3	3:J:1206:ARG:HA	1.56	0.87
5:L:585:GLU:HA	5:L:588:ARG:HD2	1.56	0.87
2:C:138:ILE:O	2:C:139:ASN:ND2	2.07	0.87
2:C:981:ALA:O	2:C:1007:LYS:NZ	2.07	0.87
4:K:53:GLU:HB3	4:K:59:ILE:HG13	1.56	0.87
2:C:157:PHE:CE2	2:C:431:LYS:HG2	2.10	0.87
2:I:296:VAL:HB	2:I:336:LEU:HD12	1.57	0.87
2:I:496:LYS:O	2:I:500:ALA:N	2.08	0.87
2:I:1223:ARG:NH1	2:I:1223:ARG:HB3	1.89	0.87
1:A:71:LYS:HB3	1:A:74:VAL:HG11	1.57	0.86
3:D:1322:ALA:HA	3:D:1325:PHE:CD1	2.09	0.86
1:G:81:ILE:HA	1:G:84:ASN:HD22	1.40	0.86
2:I:1281:TYR:CE1	3:J:484:MET:HE3	2.09	0.86
3:J:573:THR:CG2	3:J:576:ARG:HG3	2.03	0.86
3:J:1234:VAL:HA	3:J:1237:VAL:CG1	2.05	0.86
3:D:1265:THR:O	3:D:1303:SER:N	2.07	0.86
1:G:191:ARG:HH22	1:G:197:ASP:HA	1.37	0.86
2:I:1160:ASP:CB	2:I:1161:LEU:HA	2.05	0.86
2:I:1222:GLU:OE2	3:J:537:TYR:OH	1.93	0.86
3:J:54:ASP:OD1	3:J:60:ARG:NH1	2.08	0.86
1:B:88:LEU:CD1	1:B:89:ALA:H	1.89	0.86
3:D:98:ARG:O	3:D:248:ASP:HB2	1.76	0.86
5:F:279:ARG:NH2	5:F:347:ILE:HG12	1.91	0.86
3:J:394:ILE:HA	3:J:397:ALA:HB3	1.56	0.86
3:J:517:CYS:H	3:J:545:HIS:HB2	1.39	0.86
1:B:89:ALA:HB1	1:B:124:VAL:HB	1.56	0.86
2:C:411:ARG:NH2	2:C:427:ASP:OD2	2.07	0.86
2:C:1142:ARG:HH22	2:C:1165:SER:CB	1.88	0.86
2:C:870:ILE:CG2	2:C:944:ARG:HD3	2.06	0.86
3:D:35:PHE:CE1	3:D:101:ARG:HD3	2.10	0.86
3:D:128:LEU:HD21	3:D:189:LEU:CD2	2.05	0.86
3:D:1329:THR:O	3:D:1333:THR:OG1	1.93	0.86
2:I:95:PRO:HA	2:I:126:GLU:HG2	1.55	0.86
2:C:1030:GLU:OE2	2:C:1034:ARG:NH2	2.09	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:857:LEU:HD21	3:D:875:ASN:ND2	1.90	0.86
2:I:162:GLY:HA2	2:I:168:GLY:HA2	1.55	0.86
2:I:402:ARG:NH2	2:I:424:ASP:OD2	2.08	0.86
2:I:1329:GLU:HA	3:J:245:LEU:CD1	2.06	0.86
3:J:63:GLY:O	3:J:98:ARG:HD2	1.75	0.86
2:C:670:PHE:CE2	2:C:1113:LEU:HB3	2.10	0.86
3:D:145:VAL:HG23	3:D:159:ILE:HG22	1.57	0.86
1:H:91:ARG:HG3	1:H:122:GLU:HB3	1.55	0.86
3:J:120:LEU:HB3	3:J:121:PRO:CD	2.03	0.86
3:D:42:GLU:HG3	5:F:451:ARG:HG3	1.57	0.86
3:D:56:LEU:H	3:D:56:LEU:HD12	1.39	0.86
3:D:580:TRP:CZ3	3:D:589:TYR:HA	2.10	0.86
3:J:227:PHE:CE2	3:J:232:ASN:HB2	2.10	0.86
3:J:746:LEU:HG	3:J:758:PRO:CB	2.05	0.86
2:C:1254:VAL:O	3:D:99:ARG:NH2	2.08	0.86
2:I:404:LYS:HD3	2:I:586:PHE:HZ	1.39	0.86
2:I:516:ASP:HA	2:I:761:GLN:HE22	1.37	0.86
3:D:161:THR:N	3:D:164:GLN:OE1	2.09	0.86
3:D:591:ILE:HG23	3:D:592:VAL:HG13	1.56	0.86
3:D:810:THR:HG21	3:D:893:GLY:HA3	1.54	0.86
5:F:270:VAL:HG12	5:F:274:ARG:NH2	1.90	0.86
1:B:69:SER:H	1:B:78:ILE:HD12	1.39	0.85
2:C:1124:ILE:HG21	2:C:1180:MET:CE	2.06	0.85
2:C:1146:GLN:O	2:C:1146:GLN:NE2	2.07	0.85
3:D:232:ASN:ND2	3:D:1337:VAL:O	2.08	0.85
3:D:356:THR:OG1	3:D:357:VAL:N	2.07	0.85
4:E:36:ASP:HB2	4:E:37:PRO:CD	2.07	0.85
1:A:61:ILE:HG22	1:A:64:VAL:HG22	1.56	0.85
1:A:191:ARG:HH12	1:A:198:LEU:H	1.23	0.85
3:J:674:THR:N	3:J:677:GLU:OE1	2.08	0.85
3:D:363:LEU:HA	3:D:450:HIS:CD2	2.12	0.85
3:D:1371:ARG:HD2	3:J:856:ILE:HG13	1.58	0.85
2:I:1142:ARG:NH1	2:I:1169:VAL:HG21	1.92	0.85
3:D:741:ALA:O	3:D:762:ASN:ND2	2.08	0.85
4:E:80:LEU:O	4:E:84:THR:OG1	1.93	0.85
1:G:12:ARG:HG3	1:H:230:ALA:HB1	1.59	0.85
1:G:191:ARG:NH2	1:G:197:ASP:HA	1.90	0.85
2:I:590:PRO:HB2	2:I:655:VAL:HG21	1.58	0.85
2:I:1142:ARG:HD3	2:I:1161:LEU:HD13	1.59	0.85
3:D:43:THR:OG1	5:F:449:THR:O	1.94	0.85
3:D:850:LYS:HB3	3:D:851:PRO:CD	2.07	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:63:GLY:HA3	1:H:71:LYS:HE3	1.55	0.85
2:I:563:THR:HG21	2:I:570:GLY:H	1.41	0.85
3:J:537:TYR:HE2	3:J:631:TYR:HE1	1.21	0.85
1:A:13:LEU:HD12	1:A:16:ILE:HD11	1.58	0.85
2:C:810:TYR:CD2	3:D:359:PRO:HD2	2.12	0.85
3:D:810:THR:O	3:D:911:LYS:HE2	1.77	0.85
4:E:36:ASP:HB2	4:E:37:PRO:HD2	1.58	0.85
5:F:561:MET:HG2	5:F:571:TYR:CB	2.07	0.85
1:G:32:GLU:OE2	1:H:150:ARG:NH1	2.10	0.85
3:J:515:ARG:NH2	3:J:717:VAL:O	2.10	0.85
3:J:931:THR:HB	3:J:1137:GLY:HA3	1.58	0.85
2:C:1062:PRO:HA	2:C:1076:ILE:CD1	2.06	0.85
3:D:615:LYS:HE2	3:D:616:PRO:HD3	1.58	0.85
3:D:814:CYS:SG	3:D:883:ARG:NH2	2.50	0.85
3:D:1156:LEU:HA	3:D:1210:ILE:HG12	1.59	0.85
3:J:645:VAL:HB	3:J:701:LEU:HD23	1.58	0.85
2:C:525:THR:HG21	2:C:687:ARG:HD2	1.56	0.85
3:D:79:LYS:HE3	3:D:80:HIS:HA	1.58	0.85
2:C:854:ILE:CG2	2:C:855:PRO:HD2	2.07	0.85
3:D:611:ILE:HG22	3:D:612:LEU:HD12	1.57	0.85
5:L:454:VAL:O	5:L:457:ILE:N	2.10	0.85
3:D:205:LEU:CA	3:D:217:LEU:HD21	2.07	0.84
3:D:848:VAL:CG1	3:D:858:VAL:HG13	2.07	0.84
5:F:423:ARG:HB3	5:F:425:TYR:HD1	1.42	0.84
2:I:1268:GLN:NE2	3:J:352:ARG:HD3	1.91	0.84
3:J:252:LEU:HD21	3:J:262:THR:HB	1.58	0.84
3:J:317:THR:CG2	3:J:320:ASN:HB3	2.06	0.84
2:I:1266:GLY:HA3	3:J:346:ARG:HH11	1.40	0.84
5:L:512:GLY:O	5:L:514:ASP:N	2.10	0.84
1:A:107:ILE:HD11	1:A:136:GLU:H	1.42	0.84
2:C:697:LYS:HA	2:C:795:ALA:HB2	1.58	0.84
2:I:447:HIS:CE1	2:I:553:THR:HG21	2.10	0.84
3:J:706:VAL:HG12	3:J:715:LYS:CB	2.08	0.84
3:J:1341:ARG:NH1	3:J:1343:GLU:OE2	2.11	0.84
2:C:339:ASN:OD1	2:C:342:ASP:N	2.10	0.84
3:D:115:TRP:O	3:D:119:SER:OG	1.95	0.84
2:I:289:VAL:HG13	2:I:319:LEU:HD11	1.59	0.84
5:L:449:THR:OG1	5:L:503:GLU:O	1.95	0.84
3:D:29:MET:O	3:D:32:SER:OG	1.95	0.84
4:E:30:MET:HE1	4:E:49:ILE:CG2	2.06	0.84
3:J:265:LEU:HD13	3:J:327:LEU:HD21	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:527:LEU:H	3:J:550:VAL:HG12	1.40	0.84
5:L:506:SER:O	5:L:509:THR:OG1	1.95	0.84
2:C:607:SER:HB3	2:C:610:GLU:CG	2.07	0.84
3:D:895:CYS:SG	3:D:898:CYS:N	2.50	0.84
3:D:1149:ARG:NE	3:D:1153:PRO:HG2	1.93	0.84
5:F:530:LEU:HB2	5:F:533:ASP:HB2	1.60	0.84
1:G:91:ARG:NH1	1:G:212:ASP:OD1	2.10	0.84
1:G:161:SER:O	1:G:163:GLU:N	2.10	0.84
2:I:670:PHE:CD1	2:I:1184:THR:HG21	2.12	0.84
3:J:1262:ARG:HH22	3:J:1312:ALA:HB1	1.43	0.84
2:C:209:ILE:HA	2:C:212:ALA:HB3	1.58	0.84
2:C:810:TYR:CE2	3:D:359:PRO:HD2	2.12	0.84
3:D:647:PRO:HG3	3:D:697:MET:CB	2.08	0.84
2:I:198:ILE:HD12	2:I:369:MET:HE1	1.58	0.84
1:B:301:THR:HA	1:B:304:LYS:CE	2.08	0.84
2:C:201:ARG:HG2	2:C:201:ARG:HH11	1.40	0.84
3:D:18:ASP:HB2	3:D:1373:ARG:NH2	1.93	0.84
3:D:1169:THR:HG23	3:D:1192:LYS:HD3	1.56	0.84
5:F:366:SER:O	5:F:369:GLU:HB2	1.78	0.84
2:I:590:PRO:HG3	2:I:605:TYR:CE1	2.12	0.84
3:J:660:GLU:O	3:J:663:GLU:HB2	1.77	0.84
3:J:910:ASN:HB3	4:K:15:ASN:OD1	1.76	0.84
2:I:94:ALA:HB2	2:I:129:LEU:HD11	1.59	0.84
2:I:417:SER:OG	2:I:419:ILE:O	1.95	0.84
3:J:707:ILE:N	3:J:714:GLU:O	2.09	0.84
5:L:121:LYS:HG2	5:L:421:TYR:CZ	2.13	0.84
2:C:617:ALA:HB3	2:C:653:MET:CB	2.06	0.84
3:D:42:GLU:HG3	5:F:451:ARG:CG	2.06	0.84
3:D:1322:ALA:HA	3:D:1325:PHE:CE1	2.13	0.84
1:B:292:THR:HB	1:B:295:LEU:HB2	1.58	0.83
3:D:515:ARG:NH2	3:D:717:VAL:O	2.11	0.83
1:G:167:PRO:HB2	1:G:170:ARG:HG3	1.58	0.83
2:I:985:GLU:HB3	2:I:988:LYS:HB2	1.60	0.83
3:J:403:ARG:HG3	3:J:403:ARG:HH11	1.42	0.83
5:L:129:GLN:NE2	5:L:364:ARG:O	2.10	0.83
2:C:815:SER:HB2	2:C:1077:SER:OG	1.78	0.83
2:C:1214:ASP:OD1	2:C:1216:ARG:N	2.11	0.83
2:I:390:PHE:HA	2:I:419:ILE:HG21	1.61	0.83
2:I:548:ARG:HH21	2:I:568:ASN:HA	1.38	0.83
1:B:159:ILE:HG23	1:B:160:HIS:H	1.39	0.83
2:C:202:ARG:NH2	2:C:368:ARG:HH22	1.77	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1297:ASP:OD1	2:I:1300:GLY:N	2.12	0.83
1:B:9:LEU:HB2	1:B:32:GLU:HG3	1.58	0.83
3:D:520:ALA:HB3	3:D:546:ALA:CB	2.08	0.83
3:D:865:HIS:CE1	3:D:868:TRP:H	1.96	0.83
5:F:577:GLY:O	5:F:579:GLN:N	2.12	0.83
2:I:818:VAL:HG23	2:I:1096:ILE:HG23	1.58	0.83
2:C:607:SER:CB	2:C:610:GLU:HG3	2.08	0.83
2:C:892:GLU:HG3	2:C:892:GLU:O	1.79	0.83
2:C:1029:LEU:HD23	2:C:1030:GLU:N	1.94	0.83
3:D:1163:VAL:CG2	3:D:1175:LEU:HD21	2.07	0.83
1:H:79:LEU:HD23	1:H:79:LEU:H	1.43	0.83
2:I:1155:VAL:HG23	2:I:1157:GLN:H	1.41	0.83
1:A:134:THR:OG1	2:C:773:LEU:HD11	1.78	0.83
1:B:88:LEU:HD12	1:B:89:ALA:N	1.93	0.83
5:F:231:THR:CG2	5:F:249:ILE:HG12	2.08	0.83
3:J:488:ASN:O	4:K:16:ARG:NH2	2.11	0.83
1:A:71:LYS:HB3	1:A:74:VAL:CG1	2.07	0.83
2:C:315:MET:HA	2:C:352:ARG:HH12	1.43	0.83
2:C:546:GLU:OE1	2:C:546:GLU:N	2.10	0.83
2:C:744:GLY:O	2:C:746:ALA:N	2.10	0.83
3:D:62:PHE:CD2	3:D:247:PRO:HG2	2.14	0.83
5:F:390:ILE:HD12	5:F:436:ARG:HG3	1.60	0.83
2:I:371:ARG:HB3	2:I:374:GLU:OE2	1.78	0.83
2:I:1222:GLU:O	3:J:636:GLY:HA3	1.78	0.83
3:J:115:TRP:O	3:J:119:SER:OG	1.94	0.83
3:J:148:GLU:H	3:J:156:ARG:HG3	1.42	0.83
1:A:41:ASN:ND2	2:C:1216:ARG:O	2.11	0.83
3:D:289:ASP:HA	3:D:292:VAL:HG13	1.57	0.83
5:F:231:THR:HG23	5:F:249:ILE:HG12	1.61	0.83
1:G:76:GLU:OE2	1:G:76:GLU:N	2.11	0.83
2:I:483:ASP:HB2	2:I:486:THR:HG21	1.60	0.83
2:C:871:VAL:O	2:C:944:ARG:NH1	2.12	0.83
2:C:1289:GLU:OE2	3:D:473:THR:HG22	1.77	0.83
2:I:119:GLU:HG3	2:I:489:PRO:HD2	1.59	0.83
2:I:280:ASP:HB3	2:I:282:VAL:CG2	2.06	0.83
3:J:189:LEU:HB3	3:J:234:PRO:HB2	1.60	0.83
3:J:203:GLU:O	3:J:207:GLU:N	2.12	0.83
1:B:154:PRO:HD2	1:B:157:THR:HG23	1.58	0.83
2:C:133:ASN:O	2:C:527:LYS:NZ	2.10	0.83
2:C:493:ILE:O	5:F:472:GLN:NE2	2.11	0.83
3:D:625:MET:O	3:D:628:GLY:N	2.12	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:289:ASP:HA	3:J:292:VAL:HG22	1.61	0.83
3:J:304:ASP:OD2	3:J:312:ARG:NH2	2.11	0.83
2:C:706:ARG:HG3	2:C:793:GLU:HG2	1.60	0.82
5:F:436:ARG:O	5:F:440:THR:HG22	1.77	0.82
2:I:138:ILE:O	2:I:139:ASN:ND2	2.11	0.82
1:B:62:ASP:N	1:B:142:MET:SD	2.51	0.82
3:D:128:LEU:HD21	3:D:189:LEU:HD23	1.62	0.82
3:D:321:LYS:HG2	3:D:322:ARG:N	1.91	0.82
3:D:682:VAL:O	3:D:685:ILE:HG12	1.80	0.82
5:F:128:ASN:O	5:F:132:CYS:N	2.12	0.82
2:I:115:LYS:HD3	2:I:116:ASP:H	1.43	0.82
2:I:726:TYR:CE2	2:I:728:ASP:HB2	2.14	0.82
3:J:132:LEU:HD11	3:J:136:GLU:HG3	1.61	0.82
1:A:13:LEU:CD1	1:A:16:ILE:HD11	2.09	0.82
1:A:92:VAL:HG12	1:A:121:VAL:HG22	1.62	0.82
2:C:1293:VAL:HG22	2:C:1300:GLY:HA3	1.61	0.82
3:D:282:LEU:HD21	5:F:410:ILE:HD11	1.60	0.82
3:D:1346:GLY:HA3	3:D:1349:GLU:OE2	1.79	0.82
2:I:617:ALA:HA	2:I:636:CYS:SG	2.19	0.82
2:I:703:GLY:N	2:I:705:GLU:OE2	2.10	0.82
3:J:146:VAL:HB	3:J:156:ARG:O	1.79	0.82
3:J:482:ALA:O	3:J:488:ASN:ND2	2.12	0.82
3:J:520:ALA:HB1	3:J:543:SER:CB	2.07	0.82
2:C:617:ALA:N	2:C:652:TYR:O	2.12	0.82
2:C:732:ILE:HG21	2:C:783:LEU:HD12	1.59	0.82
2:I:815:SER:HB2	2:I:1077:SER:OG	1.79	0.82
1:B:310:ARG:HA	1:B:310:ARG:NE	1.94	0.82
5:F:530:LEU:CB	5:F:533:ASP:HB2	2.10	0.82
1:G:14:VAL:HG13	1:G:27:THR:HB	1.62	0.82
2:I:9:LYS:HD3	2:I:1171:ARG:HD3	1.61	0.82
2:I:10:ARG:HD3	2:I:1181:PRO:HG2	1.60	0.82
2:I:407:ARG:HA	2:I:407:ARG:HE	1.39	0.82
2:I:490:GLN:HA	2:I:493:ILE:HG23	1.62	0.82
3:J:357:VAL:O	3:J:449:LEU:N	2.11	0.82
5:L:593:LYS:O	5:L:596:ARG:HB2	1.80	0.82
1:A:47:LEU:O	1:A:180:VAL:HG21	1.80	0.82
1:B:289:LEU:HB3	1:B:300:LEU:CD2	2.10	0.82
3:D:825:VAL:HG11	3:D:833:GLU:HB3	1.60	0.82
3:D:884:SER:OG	3:D:1254:GLU:OE1	1.97	0.82
3:D:1179:PRO:HD2	3:D:1184:ASP:HA	1.62	0.82
4:E:79:GLU:O	4:E:83:VAL:HG12	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:507:MET:O	5:F:519:LEU:HB3	1.79	0.82
1:H:42:ALA:HA	1:H:45:ARG:CG	2.06	0.82
3:J:666:GLU:O	3:J:670:SER:N	2.11	0.82
5:L:215:GLU:HA	5:L:218:ARG:HD3	1.59	0.82
5:L:585:GLU:HA	5:L:588:ARG:CD	2.10	0.82
1:B:283:GLN:O	1:B:284:ARG:HD2	1.80	0.82
3:D:425:ARG:HE	3:D:426:ALA:HB3	1.45	0.82
3:D:588:PRO:HB2	3:D:590:SER:OG	1.79	0.82
3:D:1227:HIS:CD2	3:J:1293:GLU:HG2	2.15	0.82
5:F:505:ILE:HD12	5:F:506:SER:H	1.44	0.82
2:I:1062:PRO:HA	2:I:1076:ILE:HG22	1.60	0.82
3:J:1284:ARG:HH12	3:J:1288:ALA:HB2	1.42	0.82
5:L:139:GLU:O	5:L:141:ILE:N	2.10	0.82
2:C:1142:ARG:NH1	2:C:1165:SER:HA	1.93	0.82
2:I:5:TYR:HD1	2:I:8:LYS:HD3	1.45	0.82
2:I:1108:ASN:OD1	2:I:1111:GLN:NE2	2.11	0.82
2:I:1266:GLY:HA3	3:J:346:ARG:NH1	1.94	0.82
3:J:292:VAL:O	3:J:296:LYS:HG3	1.80	0.82
1:B:102:LEU:CD2	1:B:115:ILE:HA	2.10	0.82
3:D:495:ASN:O	3:D:497:GLU:N	2.13	0.82
4:E:56:GLU:HB2	4:E:58:LEU:HD13	1.62	0.82
5:F:130:VAL:HG22	5:F:365:MET:HA	1.60	0.82
1:G:228:LEU:O	1:G:230:ALA:N	2.12	0.82
2:I:23:ASP:OD1	2:I:23:ASP:N	2.12	0.82
2:C:1122:LYS:HG2	2:C:1229:TYR:CE1	2.14	0.82
3:D:660:GLU:O	3:D:663:GLU:HB2	1.79	0.82
3:D:1289:ASN:O	3:D:1289:ASN:ND2	2.11	0.82
5:F:561:MET:HG2	5:F:571:TYR:HB2	1.60	0.82
2:I:201:ARG:HH11	2:I:201:ARG:CG	1.92	0.82
1:B:156:SER:HA	1:B:158:ARG:N	1.94	0.81
1:B:252:ILE:O	1:B:278:ILE:HD11	1.79	0.81
2:C:840:SER:HB2	2:C:850:ILE:HD11	1.60	0.81
2:C:1305:TYR:CE1	3:D:379:PRO:HG3	2.14	0.81
3:D:260:PHE:HB2	5:F:504:PRO:HG2	1.62	0.81
3:D:883:ARG:NH2	3:D:898:CYS:SG	2.53	0.81
5:F:608:ARG:NH2	5:F:609:SER:HA	1.95	0.81
3:J:128:LEU:HD21	3:J:189:LEU:HD23	1.62	0.81
3:J:1316:THR:HG22	3:J:1318:SER:N	1.95	0.81
2:C:605:TYR:C	2:C:606:LEU:HD12	2.04	0.81
3:D:290:ILE:H	3:D:290:ILE:HD12	1.45	0.81
3:D:398:LYS:HG2	3:D:402:GLU:OE2	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:797:THR:HG22	3:D:924:GLY:HA3	1.61	0.81
5:L:373:ARG:HD2	5:L:377:LYS:HE3	1.62	0.81
2:C:211:ARG:NH1	2:C:217:THR:OG1	2.12	0.81
2:C:834:GLN:HE21	2:C:1056:VAL:HG21	1.43	0.81
3:D:60:ARG:HA	3:D:89:GLY:O	1.78	0.81
5:F:348:GLU:HG3	5:F:355:ILE:HG12	1.61	0.81
5:F:437:GLN:HG3	5:F:438:ALA:N	1.93	0.81
5:F:562:ARG:CD	5:F:573:LEU:HG	2.10	0.81
2:I:538:LEU:HD12	2:I:538:LEU:H	1.44	0.81
2:I:607:SER:OG	2:I:610:GLU:HG3	1.80	0.81
2:I:697:LYS:HA	2:I:795:ALA:HB2	1.60	0.81
1:A:50:SER:HB3	1:B:8:PHE:CZ	2.13	0.81
1:A:102:LEU:HD23	1:A:115:ILE:HA	1.62	0.81
2:C:817:LEU:HD12	2:C:1097:VAL:HB	1.62	0.81
2:C:1308:ILE:HG23	3:D:380:PHE:CE2	2.15	0.81
1:G:195:ARG:CG	1:G:198:LEU:HG	2.10	0.81
2:I:379:GLU:O	2:I:383:SER:OG	1.98	0.81
2:I:810:TYR:HE1	2:I:1078:LYS:HZ3	1.28	0.81
2:I:819:SER:OG	2:I:821:ARG:HB3	1.80	0.81
1:A:61:ILE:HD11	1:A:142:MET:CE	2.09	0.81
1:A:61:ILE:CD1	1:A:142:MET:HE2	2.10	0.81
1:B:123:ILE:HG22	1:B:126:PRO:HD3	1.62	0.81
2:C:71:VAL:HB	2:C:99:LYS:HB2	1.62	0.81
2:C:1305:TYR:CE1	3:D:379:PRO:CG	2.63	0.81
5:F:525:ASP:OD1	5:F:526:THR:N	2.13	0.81
1:G:10:LYS:NZ	1:H:229:GLU:OE1	2.14	0.81
1:G:167:PRO:HG2	1:G:170:ARG:HD2	1.61	0.81
2:C:1239:VAL:O	2:C:1242:LYS:N	2.11	0.81
2:I:615:VAL:HG13	2:I:650:VAL:HA	1.61	0.81
2:C:483:ASP:CB	2:C:486:THR:HG21	2.02	0.81
2:C:1029:LEU:HD23	2:C:1030:GLU:HA	1.60	0.81
2:C:1106:ARG:O	2:C:1108:ASN:N	2.14	0.81
3:D:171:GLU:HB3	3:D:172:PHE:CD2	2.16	0.81
3:D:1179:PRO:CD	3:D:1184:ASP:HA	2.10	0.81
3:D:1375:ALA:HB1	3:J:853:THR:OG1	1.80	0.81
5:F:587:ILE:HD12	5:F:590:ILE:HB	1.62	0.81
2:I:15:PHE:HE1	2:I:1194:GLU:HB3	1.45	0.81
5:L:124:GLU:O	5:L:128:ASN:ND2	2.13	0.81
2:C:59:ILE:CD1	2:C:475:VAL:HG21	2.11	0.81
3:D:35:PHE:CD1	3:D:101:ARG:HB3	2.16	0.81
3:D:1160:SER:N	3:D:1206:ARG:HB3	1.96	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:153:VAL:CB	1:H:175:ALA:HB3	2.04	0.81
3:J:356:THR:OG1	3:J:357:VAL:N	2.12	0.81
1:A:167:PRO:HG2	1:A:170:ARG:HG3	1.63	0.81
1:B:95:LYS:HD2	1:B:120:ASP:HB3	1.61	0.81
2:C:69:GLN:HE21	2:C:101:ARG:HD2	1.45	0.81
3:D:362:ARG:O	3:D:365:GLN:HG2	1.79	0.81
3:D:1280:VAL:HG22	3:D:1284:ARG:HE	1.46	0.81
2:I:993:PRO:HG2	2:I:996:ARG:CB	2.11	0.81
2:C:234:ASP:OD1	2:C:235:ASN:N	2.12	0.81
2:C:358:ASP:OD1	2:C:361:SER:N	2.14	0.81
3:D:1149:ARG:CZ	3:D:1153:PRO:HG2	2.11	0.81
5:F:487:MET:HB3	5:F:489:MET:HG2	1.61	0.81
2:C:208:ILE:HG23	2:C:362:ALA:HB1	1.63	0.80
3:D:1168:GLU:OE2	3:D:1169:THR:OG1	1.97	0.80
2:I:386:GLU:HA	2:I:390:PHE:HD2	1.46	0.80
2:I:520:PRO:HG3	2:I:714:VAL:HG11	1.63	0.80
1:A:179:PRO:HB3	1:A:208:ASN:ND2	1.97	0.80
1:G:45:ARG:NH2	2:I:1216:ARG:HA	1.96	0.80
2:I:660:VAL:HG22	2:I:661:VAL:HG12	1.61	0.80
2:C:464:PHE:O	2:C:467:GLY:N	2.14	0.80
3:D:709:ARG:O	3:D:711:GLY:N	2.14	0.80
3:D:733:SER:O	3:D:736:GLN:N	2.15	0.80
3:D:1238:GLN:HB3	3:D:1242:ARG:HH21	1.46	0.80
3:D:1359:ALA:O	3:D:1363:TYR:N	2.14	0.80
1:G:88:LEU:HD13	1:G:128:HIS:CD2	2.16	0.80
1:H:42:ALA:CA	1:H:45:ARG:HG3	2.07	0.80
2:I:594:VAL:HG11	2:I:650:VAL:HG23	1.62	0.80
3:J:674:THR:HG23	3:J:677:GLU:CD	2.06	0.80
3:J:811:GLU:O	3:J:895:CYS:HA	1.81	0.80
2:C:1281:TYR:HE1	3:D:484:MET:HA	1.45	0.80
3:D:1234:VAL:HA	3:D:1237:VAL:HG12	1.64	0.80
2:I:86:GLN:HA	2:I:140:GLY:HA2	1.64	0.80
2:I:1116:HIS:CE1	3:J:641:ILE:H	2.00	0.80
5:L:324:LYS:HG3	5:L:326:TRP:CZ2	2.16	0.80
1:B:92:VAL:O	1:B:148:ARG:NH2	2.15	0.80
3:D:390:LEU:HD22	3:D:407:VAL:HG11	1.62	0.80
3:D:527:LEU:HD21	3:D:536:LEU:HD23	1.63	0.80
2:I:871:VAL:O	2:I:944:ARG:NH1	2.13	0.80
3:J:339:ARG:CB	3:J:340:GLN:HA	2.11	0.80
1:B:154:PRO:HD2	1:B:157:THR:CG2	2.11	0.80
2:C:1068:GLY:HA3	2:C:1072:ASN:HD21	1.47	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1132:LEU:HD22	2:C:1177:ARG:HH22	1.45	0.80
3:D:514:THR:HG21	3:D:596:LEU:HB2	1.62	0.80
3:D:608:CYS:SG	3:D:617:THR:HA	2.20	0.80
5:F:132:CYS:SG	5:F:257:LYS:NZ	2.52	0.80
5:F:575:GLU:HA	5:F:578:LYS:CD	2.12	0.80
1:G:195:ARG:HD2	1:G:196:THR:H	1.46	0.80
2:I:758:ARG:HB2	2:I:833:ILE:CG2	2.11	0.80
3:J:98:ARG:O	3:J:248:ASP:HB2	1.81	0.80
3:J:334:LYS:HA	3:J:1328:THR:HG21	1.62	0.80
3:D:357:VAL:CG2	3:D:461:PHE:HE1	1.95	0.80
5:F:139:GLU:CA	5:F:142:THR:HG22	2.04	0.80
5:F:234:THR:HB	5:F:245:ALA:CB	2.09	0.80
5:F:484:ALA:O	5:F:487:MET:HB2	1.82	0.80
2:I:234:ASP:OD1	2:I:235:ASN:N	2.15	0.80
5:L:412:LEU:CB	5:L:435:ILE:HD11	2.10	0.80
1:B:196:THR:HG22	1:B:197:ASP:HB3	1.63	0.80
2:C:312:ALA:HB3	2:C:315:MET:HE3	1.63	0.80
2:C:1029:LEU:HD23	2:C:1030:GLU:CA	2.12	0.80
2:C:1113:LEU:HD11	3:D:641:ILE:HD11	1.64	0.80
1:H:25:LYS:HG3	1:H:204:GLU:HG3	1.63	0.80
1:H:47:LEU:HD13	1:H:180:VAL:HG11	1.62	0.80
2:I:318:SER:H	2:I:321:LEU:HD12	1.45	0.80
2:I:1164:PHE:O	2:I:1166:ASP:N	2.15	0.80
3:J:268:LEU:HD22	3:J:306:LEU:HA	1.62	0.80
4:K:32:VAL:O	4:K:34:GLY:N	2.15	0.80
2:C:621:SER:HB3	2:C:634:VAL:HG21	1.62	0.80
1:G:218:ARG:HH11	1:H:233:ASP:N	1.80	0.80
3:J:520:ALA:CB	3:J:543:SER:HB3	2.10	0.80
1:H:23:HIS:ND1	1:H:206:GLU:HG2	1.95	0.80
2:I:75:LEU:HD11	2:I:127:ILE:HD11	1.63	0.80
2:I:546:GLU:OE1	2:I:546:GLU:N	2.11	0.80
5:L:98:VAL:HB	5:L:402:LEU:HD21	1.64	0.80
1:A:152:TYR:CD1	2:C:824:GLN:HG2	2.17	0.79
1:B:272:ALA:O	1:B:274:ALA:N	2.14	0.79
2:C:59:ILE:HG21	2:C:475:VAL:CG1	2.12	0.79
2:C:1305:TYR:HE1	3:D:379:PRO:HG3	1.45	0.79
3:D:1360:GLY:HA2	4:E:17:PHE:CE2	2.17	0.79
5:F:297:MET:CE	5:F:330:LEU:HD21	2.12	0.79
2:I:1131:MET:CE	2:I:1141:LEU:HD12	2.12	0.79
3:J:733:SER:O	3:J:736:GLN:N	2.14	0.79
1:B:101:THR:HA	1:B:142:MET:O	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:157:THR:O	1:B:159:ILE:N	2.15	0.79
3:D:518:VAL:HG11	3:D:707:ILE:HD13	1.64	0.79
5:F:348:GLU:CG	5:F:355:ILE:HG12	2.11	0.79
2:I:1285:TYR:CD2	3:J:475:GLU:HG2	2.17	0.79
3:J:1219:ASP:OD1	3:J:1222:ARG:NH2	2.14	0.79
1:A:44:ARG:HG2	1:A:45:ARG:N	1.95	0.79
1:A:190:ALA:HB2	1:A:200:LYS:N	1.98	0.79
1:B:76:GLU:OE1	1:B:76:GLU:N	2.13	0.79
2:C:516:ASP:HA	2:C:761:GLN:HE22	1.48	0.79
3:D:707:ILE:O	3:D:714:GLU:N	2.12	0.79
3:D:806:ASP:HA	3:D:1347:LEU:CD1	2.12	0.79
1:G:28:LEU:HD23	1:H:231:PHE:HE1	1.46	0.79
5:L:135:ALA:HB1	5:L:253:SER:HB3	1.65	0.79
2:C:27:LEU:O	2:C:528:ARG:NH1	2.14	0.79
2:C:1113:LEU:CD1	3:D:641:ILE:HD11	2.13	0.79
3:D:117:LEU:HA	3:D:124:ILE:HD12	1.62	0.79
1:G:89:ALA:O	1:G:124:VAL:HG12	1.80	0.79
2:I:968:GLU:HG3	2:I:1018:TYR:HE1	1.46	0.79
2:I:1087:TYR:HE1	2:I:1215:GLY:HA2	1.45	0.79
2:I:1142:ARG:NH1	2:I:1165:SER:HA	1.97	0.79
3:J:322:ARG:HG3	3:J:323:PRO:HD2	1.65	0.79
3:J:746:LEU:CD2	3:J:758:PRO:HG3	2.12	0.79
3:D:513:MET:HE1	3:D:579:LEU:HD13	1.65	0.79
3:D:1159:ILE:HG22	3:D:1177:ILE:CD1	2.13	0.79
1:G:67:GLU:HB2	1:G:79:LEU:HD23	1.62	0.79
1:G:79:LEU:O	1:G:83:LEU:HD13	1.82	0.79
2:I:407:ARG:HH22	2:I:414:ILE:HG22	1.47	0.79
2:I:1212:LEU:HD22	2:I:1225:VAL:HG21	1.64	0.79
2:I:1292:THR:HG22	2:I:1293:VAL:HG23	1.65	0.79
5:L:439:ILE:HG13	5:L:440:THR:N	1.98	0.79
2:C:15:PHE:HB3	2:C:17:LYS:NZ	1.98	0.79
2:C:1160:ASP:HB2	2:C:1161:LEU:CA	2.12	0.79
3:D:1203:ARG:NH2	3:D:1205:GLU:OE2	2.15	0.79
3:J:598:LYS:O	3:J:601:ILE:HG22	1.82	0.79
3:J:762:ASN:ND2	3:J:765:GLU:OE2	2.15	0.79
5:L:224:LEU:HA	5:L:255:VAL:HG11	1.62	0.79
1:B:81:ILE:HG22	1:B:85:LEU:CD2	2.12	0.79
2:C:799:ASN:HB3	2:C:1231:TYR:CD1	2.15	0.79
2:C:1149:TYR:HD1	2:C:1159:VAL:HG11	1.47	0.79
1:G:9:LEU:HB3	1:G:32:GLU:CD	2.08	0.79
3:J:242:LEU:HD23	3:J:243:PRO:CD	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:678:ARG:HG3	3:J:679:TYR:H	1.48	0.79
5:L:483:LEU:HD21	5:L:487:MET:HE3	1.63	0.79
1:B:152:TYR:HA	1:B:175:ALA:O	1.82	0.79
1:B:255:ARG:HH11	1:B:255:ARG:CG	1.95	0.79
2:C:1281:TYR:CE1	3:D:484:MET:HA	2.18	0.79
3:D:270:ARG:NH2	5:F:449:THR:HG23	1.98	0.79
3:D:514:THR:O	3:D:514:THR:OG1	2.00	0.79
3:D:670:SER:HB2	3:D:672:LEU:CD1	2.13	0.79
5:F:572:THR:HG23	5:F:575:GLU:CB	2.10	0.79
3:J:336:GLY:HA2	3:J:1327:GLU:N	1.95	0.79
3:J:358:GLY:H	3:J:359:PRO:HD3	1.47	0.79
3:J:801:VAL:O	3:J:805:GLN:HB2	1.82	0.79
2:C:250:THR:HA	2:C:268:ARG:HA	1.65	0.79
2:C:522:SER:HA	2:C:525:THR:HG22	1.65	0.79
2:C:755:LYS:O	2:C:757:THR:HG22	1.83	0.79
2:C:1125:GLY:HA3	2:C:1179:GLY:HA2	1.64	0.79
5:F:279:ARG:NH2	5:F:350:GLU:OE1	2.15	0.79
5:F:333:VAL:HG22	5:F:336:GLU:HB2	1.65	0.79
2:I:216:THR:HG23	2:I:219:GLN:OE1	1.83	0.79
3:J:41:PRO:HB2	3:J:270:ARG:HG3	1.65	0.79
3:J:114:ILE:HD12	3:J:304:ASP:HB3	1.63	0.79
1:A:18:GLN:HA	1:A:24:ALA:CB	2.13	0.79
2:I:452:ARG:HG3	2:I:452:ARG:NH1	1.95	0.79
2:I:901:LEU:HA	5:L:563:PHE:HE2	1.46	0.79
3:J:275:ARG:HH11	3:J:298:MET:HB3	1.48	0.79
2:C:4:SER:OG	2:C:5:TYR:N	2.14	0.78
3:D:260:PHE:HB2	5:F:504:PRO:HG3	1.65	0.78
2:I:1281:TYR:OH	3:J:432:LEU:HA	1.83	0.78
3:J:1153:PRO:HA	3:J:1214:PRO:O	1.84	0.78
5:L:404:LEU:O	5:L:408:GLY:N	2.16	0.78
1:A:57:THR:HG23	1:A:158:ARG:NH1	1.98	0.78
2:C:593:LYS:HB3	2:C:602:GLU:CG	2.13	0.78
3:D:147:ILE:HG13	3:D:177:ASP:HB3	1.63	0.78
3:D:768:ASN:N	3:D:771:GLN:OE1	2.16	0.78
5:F:540:LEU:HD13	5:F:607:LEU:CD2	2.13	0.78
3:J:505:ASP:HB3	3:J:629:PHE:CE1	2.18	0.78
3:J:614:LEU:N	3:J:615:LYS:HZ1	1.81	0.78
3:J:847:ASP:N	3:J:847:ASP:OD1	2.16	0.78
5:L:253:SER:O	5:L:257:LYS:N	2.16	0.78
1:B:33:ARG:HG2	1:B:33:ARG:NH1	1.92	0.78
1:B:46:ILE:HG22	1:B:47:LEU:N	1.97	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:98:VAL:HG21	2:C:124:MET:CE	2.12	0.78
2:C:146:VAL:CG1	2:C:529:ARG:HB3	2.13	0.78
2:C:146:VAL:HG12	2:C:529:ARG:HB3	1.62	0.78
2:C:1174:GLU:OE2	2:C:1177:ARG:NH1	2.16	0.78
2:C:1238:LEU:H	2:C:1238:LEU:HD12	1.49	0.78
1:G:190:ALA:HB2	1:G:200:LYS:HB2	1.66	0.78
2:I:331:LYS:HB2	2:I:332:ARG:HH21	1.48	0.78
3:J:492:SER:CB	3:J:499:ILE:HD13	2.14	0.78
3:J:614:LEU:HD23	4:K:7:GLN:HB2	1.63	0.78
3:J:617:THR:O	3:J:620:PHE:HB3	1.84	0.78
5:L:316:PHE:CZ	5:L:334:SER:HA	2.18	0.78
1:A:41:ASN:HB2	2:C:1218:GLY:HA3	1.66	0.78
3:D:528:THR:O	3:D:551:ARG:HB3	1.83	0.78
3:D:903:LEU:HD21	3:D:909:ILE:HD12	1.64	0.78
2:I:280:ASP:CB	2:I:282:VAL:HG23	2.11	0.78
2:I:798:GLN:NE2	2:I:827:ARG:O	2.16	0.78
3:J:115:TRP:CZ2	3:J:1329:THR:HG23	2.18	0.78
3:J:910:ASN:ND2	4:K:15:ASN:HA	1.99	0.78
3:J:1181:ASP:OD1	3:J:1182:GLY:N	2.13	0.78
2:C:801:ARG:HH12	2:C:1119:MET:HE1	1.48	0.78
2:I:1212:LEU:HD22	2:I:1225:VAL:CG2	2.13	0.78
3:J:152:THR:HG21	3:J:176:PHE:CB	2.13	0.78
4:K:67:ARG:NH1	4:K:71:GLU:OE2	2.16	0.78
1:A:232:VAL:O	1:B:218:ARG:HG2	1.83	0.78
1:B:112:ALA:HA	1:B:115:ILE:HG13	1.64	0.78
1:B:216:ALA:O	1:B:220:ALA:N	2.15	0.78
2:C:356:THR:HG21	2:C:362:ALA:HA	1.65	0.78
3:D:259:ARG:HG2	3:D:260:PHE:N	1.97	0.78
2:I:557:ARG:NH2	2:I:608:ALA:HA	1.98	0.78
3:J:1184:ASP:N	3:J:1185:PRO:HD3	1.98	0.78
3:D:1341:ARG:NH1	3:D:1343:GLU:OE2	2.16	0.78
5:F:130:VAL:HG13	5:F:365:MET:HG3	1.66	0.78
5:F:295:CYS:SG	5:F:330:LEU:HD23	2.23	0.78
2:I:1116:HIS:CE1	3:J:641:ILE:HB	2.18	0.78
2:C:1131:MET:HE2	2:C:1141:LEU:HD12	1.64	0.78
2:C:1268:GLN:CD	3:D:352:ARG:HD3	2.09	0.78
2:C:1339:LEU:HD23	3:D:17:PHE:CE1	2.19	0.78
4:E:15:ASN:C	4:E:17:PHE:H	1.92	0.78
3:J:405:GLU:O	3:J:408:VAL:HG22	1.84	0.78
3:J:413:ASP:O	3:J:416:ILE:HG22	1.83	0.78
3:J:660:GLU:HB3	3:J:685:ILE:HD12	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:688:ALA:O	3:J:692:ARG:N	2.16	0.78
5:L:387:VAL:HG13	5:L:435:ILE:HG21	1.66	0.78
2:C:26:TYR:CE2	2:C:28:LEU:HB2	2.18	0.78
2:C:80:PHE:HB3	2:C:84:GLU:HB2	1.65	0.78
2:C:367:TYR:HD1	2:C:381:ALA:HA	1.48	0.78
2:C:517:GLN:HE21	2:C:759:SER:HA	1.48	0.78
3:D:660:GLU:HB3	3:D:685:ILE:HD12	1.65	0.78
5:F:265:GLN:O	5:F:268:TYR:HB3	1.83	0.78
5:F:366:SER:HA	5:F:369:GLU:OE1	1.84	0.78
5:F:525:ASP:CG	5:F:528:LEU:HG	2.08	0.78
5:F:562:ARG:HG2	5:F:573:LEU:CD1	2.12	0.78
2:I:148:GLN:HG2	2:I:149:LEU:H	1.48	0.78
2:I:517:GLN:N	2:I:761:GLN:OE1	2.16	0.78
2:I:646:SER:CB	2:I:649:GLN:HG3	2.13	0.78
2:I:890:LYS:HE2	2:I:891:GLY:O	1.82	0.78
3:J:97:VAL:HG11	3:J:101:ARG:CZ	2.13	0.78
3:J:580:TRP:HA	3:J:583:VAL:HG23	1.64	0.78
3:J:1167:LYS:HB2	3:J:1174:ARG:HH11	1.49	0.78
5:L:108:VAL:HA	5:L:385:ARG:NH1	1.97	0.78
2:C:685:MET:CE	2:C:1071:GLY:HA2	2.14	0.78
2:C:1033:ARG:HG2	2:C:1033:ARG:HH11	1.47	0.78
3:D:854:ALA:HB1	3:J:1372:ARG:HG3	1.64	0.78
3:D:866:GLU:OE1	3:D:866:GLU:N	2.17	0.78
2:I:493:ILE:O	5:L:472:GLN:NE2	2.17	0.78
5:L:246:GLN:O	5:L:250:LEU:HG	1.83	0.78
5:L:377:LYS:O	5:L:381:GLU:HG3	1.84	0.78
5:L:530:LEU:H	5:L:530:LEU:CD1	1.95	0.78
1:B:82:LEU:HA	1:B:85:LEU:CD1	2.14	0.77
1:B:192:VAL:HB	1:B:195:ARG:HG3	1.65	0.77
2:C:992:LEU:HB2	2:C:993:PRO:HD2	1.64	0.77
3:D:1372:ARG:HH21	3:J:854:ALA:CB	1.93	0.77
3:J:174:ASP:O	3:J:175:GLU:HG2	1.82	0.77
3:J:210:SER:HB2	3:J:213:LYS:CB	2.14	0.77
3:D:1165:PHE:CD2	3:D:1175:LEU:HD13	2.19	0.77
1:G:45:ARG:HG3	1:G:46:ILE:HD13	1.65	0.77
1:H:107:ILE:HG12	1:H:136:GLU:O	1.83	0.77
3:J:370:LYS:HG2	3:J:441:LEU:HD12	1.64	0.77
5:L:374:ARG:O	5:L:378:GLU:HG3	1.85	0.77
1:B:192:VAL:O	1:B:194:GLN:N	2.17	0.77
3:D:748:ALA:HA	3:D:754:ILE:HA	1.66	0.77
5:F:594:ALA:HB3	5:F:595:LEU:HD23	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:563:PHE:O	5:L:565:ILE:N	2.17	0.77
2:C:1336:ASN:HD22	3:D:29:MET:HE1	1.48	0.77
3:D:576:ARG:NH1	3:D:593:ASN:O	2.17	0.77
2:I:1075:VAL:CG2	3:J:463:GLY:HA2	2.14	0.77
2:C:378:ARG:NH1	2:C:382:GLU:OE2	2.17	0.77
2:C:899:GLU:O	2:C:902:LEU:N	2.16	0.77
2:I:359:ARG:HG2	2:I:363:LEU:HD12	1.65	0.77
2:I:724:VAL:HG23	2:I:775:GLU:O	1.83	0.77
3:J:353:SER:OG	3:J:354:VAL:N	2.15	0.77
3:J:418:GLU:HB3	4:K:48:VAL:HG23	1.64	0.77
3:J:814:CYS:CB	3:J:889:ASP:HB3	2.13	0.77
3:J:1370:MET:HE1	3:J:1373:ARG:HH11	1.47	0.77
1:A:7:GLU:OE1	1:B:150:ARG:NH2	2.17	0.77
2:C:519:ASN:HD21	2:C:689:ALA:HB3	1.47	0.77
3:D:426:ALA:HB1	3:D:427:PRO:HD3	1.67	0.77
3:D:521:LYS:O	3:D:542:ALA:HA	1.83	0.77
2:I:818:VAL:HG22	2:I:1096:ILE:HG12	1.67	0.77
3:J:270:ARG:NH2	5:L:449:THR:HG23	1.98	0.77
3:J:362:ARG:O	3:J:365:GLN:HG2	1.84	0.77
1:A:39:LEU:O	1:A:43:LEU:N	2.16	0.77
2:C:98:VAL:O	2:C:121:GLU:HA	1.84	0.77
2:C:685:MET:HE2	2:C:1071:GLY:HA2	1.67	0.77
3:D:793:SER:O	3:D:796:LEU:HB3	1.85	0.77
3:D:1215:GLU:CG	3:D:1220:ILE:HD11	2.15	0.77
2:I:389:PHE:HA	2:I:395:TYR:CD1	2.20	0.77
3:J:232:ASN:HA	3:J:236:TRP:CZ3	2.20	0.77
3:J:520:ALA:HB3	3:J:546:ALA:CB	2.12	0.77
2:C:241:LEU:HD11	2:C:246:LEU:HD11	1.65	0.77
3:D:747:MET:O	3:D:755:ILE:HG13	1.85	0.77
3:D:1316:THR:HG22	3:D:1318:SER:N	1.99	0.77
2:I:1276:TRP:HA	2:I:1279:GLU:OE1	1.84	0.77
3:J:339:ARG:O	3:J:798:ARG:NH2	2.18	0.77
3:J:844:THR:HG23	3:J:864:LEU:HD21	1.65	0.77
5:L:239:GLY:O	5:L:245:ALA:HB2	1.85	0.77
1:A:197:ASP:O	1:A:198:LEU:HD23	1.85	0.77
1:B:292:THR:HB	1:B:295:LEU:CB	2.15	0.77
2:C:201:ARG:HB3	2:C:369:MET:HE2	1.65	0.77
2:C:883:LEU:HB2	2:C:918:LEU:CD1	2.13	0.77
3:D:35:PHE:HD1	3:D:101:ARG:HB3	1.47	0.77
3:D:1175:LEU:O	3:D:1187:GLU:HA	1.85	0.77
1:H:115:ILE:HG22	1:H:116:THR:H	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:642:ASP:HA	3:J:764:ARG:HH21	1.48	0.77
3:J:857:LEU:HD13	3:J:872:LEU:HD21	1.67	0.77
1:A:14:VAL:CG2	1:A:15:ASP:H	1.89	0.77
2:C:4:SER:HB3	2:C:7:GLU:CD	2.10	0.77
3:D:146:VAL:HB	3:D:156:ARG:O	1.84	0.77
3:D:278:ARG:HA	3:D:281:ARG:NH1	1.99	0.77
3:D:820:ILE:HG22	3:D:1227:HIS:ND1	2.00	0.77
3:D:908:ILE:HD13	3:D:909:ILE:O	1.85	0.77
3:D:1168:GLU:O	3:D:1170:LYS:N	2.17	0.77
1:H:76:GLU:OE1	1:H:76:GLU:N	2.18	0.77
3:J:289:ASP:N	3:J:289:ASP:OD1	2.17	0.77
3:J:1157:ALA:HB3	3:J:1207:GLY:H	1.50	0.77
1:B:9:LEU:HB3	1:B:32:GLU:HG3	1.67	0.76
3:D:242:LEU:HD23	3:D:243:PRO:HD2	1.66	0.76
5:F:575:GLU:HA	5:F:578:LYS:HD2	1.67	0.76
1:H:41:ASN:OD1	2:I:1217:THR:HA	1.86	0.76
3:J:45:ASN:O	3:J:46:TYR:HB3	1.83	0.76
3:J:342:LEU:O	3:J:344:GLY:N	2.17	0.76
3:J:576:ARG:NH1	3:J:593:ASN:O	2.15	0.76
1:A:45:ARG:HH12	1:B:37:HIS:HB2	1.49	0.76
3:D:260:PHE:CB	5:F:504:PRO:HG2	2.15	0.76
3:D:1282:TYR:HD2	3:D:1286:LYS:HZ1	1.33	0.76
2:I:1287:LEU:HD22	3:J:1357:ILE:HD11	1.67	0.76
2:C:1024:GLU:HA	2:C:1027:LYS:CD	2.13	0.76
3:D:37:GLU:OE2	3:D:106:GLU:N	2.15	0.76
3:D:120:LEU:HB3	3:D:121:PRO:CD	2.14	0.76
5:F:581:ASP:O	5:F:583:THR:HG22	1.85	0.76
1:G:76:GLU:OE1	1:G:132:HIS:N	2.18	0.76
1:G:88:LEU:HD13	1:G:128:HIS:HD2	1.51	0.76
2:I:1109:ILE:HD11	3:J:644:MET:SD	2.25	0.76
3:J:614:LEU:HB3	3:J:615:LYS:HZ3	1.48	0.76
3:D:823:THR:C	3:D:835:LEU:HD13	2.10	0.76
5:F:583:THR:OG1	5:F:584:ARG:HG2	1.85	0.76
1:G:32:GLU:HB2	1:G:35:PHE:CD2	2.20	0.76
1:G:133:LEU:HD21	1:G:140:ILE:HD11	1.68	0.76
3:J:262:THR:O	5:L:507:MET:N	2.18	0.76
3:J:770:LEU:HD13	3:J:770:LEU:H	1.50	0.76
3:J:901:ARG:HA	3:J:908:ILE:HA	1.68	0.76
2:C:57:PHE:HD1	2:C:70:TYR:HB2	1.51	0.76
1:G:31:LEU:HB2	1:G:199:ASP:O	1.86	0.76
2:I:12:ARG:HG3	2:I:1181:PRO:HB2	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:908:ILE:HD13	3:J:909:ILE:N	2.00	0.76
3:J:1262:ARG:NH2	3:J:1312:ALA:HB1	2.00	0.76
5:L:124:GLU:HG2	5:L:128:ASN:HD21	1.51	0.76
5:L:394:TYR:CG	5:L:439:ILE:HD11	2.20	0.76
2:C:1196:LYS:CD	2:C:1206:THR:HG23	2.13	0.76
2:C:1278:LEU:CD1	2:C:1287:LEU:HB2	2.15	0.76
1:G:125:LYS:HE2	1:G:128:HIS:HB2	1.67	0.76
1:H:79:LEU:HA	1:H:82:LEU:HG	1.67	0.76
2:I:812:PHE:O	2:I:1099:ASN:ND2	2.18	0.76
2:I:1082:ILE:H	2:I:1082:ILE:HD12	1.50	0.76
3:J:645:VAL:HB	3:J:701:LEU:CD2	2.16	0.76
2:C:323:ALA:O	2:C:327:GLN:N	2.17	0.76
2:C:817:LEU:CD2	2:C:1080:ASN:HD22	1.97	0.76
3:D:45:ASN:OD1	3:D:48:THR:N	2.17	0.76
3:D:362:ARG:HG2	3:D:626:TYR:OH	1.85	0.76
5:F:421:TYR:C	5:F:423:ARG:H	1.93	0.76
5:F:435:ILE:O	5:F:439:ILE:HG23	1.86	0.76
2:I:130:MET:HB2	2:I:136:PHE:HE1	1.49	0.76
3:J:16:GLU:HG3	3:J:17:PHE:HD2	1.50	0.76
5:L:138:PRO:HD2	5:L:353:LEU:HD11	1.66	0.76
5:L:448:ARG:HG2	5:L:448:ARG:HH11	1.50	0.76
5:L:453:PRO:HB3	5:L:455:HIS:CE1	2.21	0.76
1:A:61:ILE:HG22	1:A:64:VAL:HG21	1.67	0.76
1:A:162:GLU:CG	1:A:165:GLU:HG2	2.13	0.76
3:D:336:GLY:HA2	3:D:338:PHE:HA	1.68	0.76
2:I:551:HIS:O	2:I:554:HIS:N	2.18	0.76
5:L:269:LEU:O	5:L:273:MET:HG3	1.86	0.76
3:D:598:LYS:HA	3:D:601:ILE:HG22	1.67	0.76
3:D:1181:ASP:OD1	3:D:1182:GLY:N	2.19	0.76
2:I:1295:SER:HB2	3:J:347:VAL:HG23	1.66	0.76
3:J:300:GLN:NE2	3:J:304:ASP:OD2	2.19	0.76
3:J:1170:LYS:C	3:J:1172:LYS:H	1.92	0.76
1:A:12:ARG:H	1:A:30:PRO:CD	1.97	0.76
3:D:1280:VAL:CG2	3:D:1304:ARG:HE	1.99	0.76
2:I:358:ASP:OD1	2:I:361:SER:N	2.19	0.76
2:I:1120:ALA:HB2	2:I:1199:LEU:CD2	2.15	0.76
1:B:224:LEU:O	1:B:227:GLN:HB2	1.86	0.75
2:C:884:VAL:HG11	2:C:1050:VAL:HG21	1.66	0.75
2:C:1078:LYS:HG2	2:C:1079:ILE:N	2.01	0.75
3:D:618:VAL:O	3:D:621:ALA:N	2.18	0.75
1:G:85:LEU:HD21	1:G:130:ILE:HG23	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:39:ILE:CD1	2:I:75:LEU:HG	2.16	0.75
2:I:683:ALA:HA	2:I:686:GLN:HB2	1.66	0.75
2:I:1042:LEU:HB2	2:I:1046:VAL:HG21	1.67	0.75
2:C:481:LEU:HD22	2:C:481:LEU:H	1.50	0.75
2:C:1124:ILE:HG21	2:C:1180:MET:HE2	1.68	0.75
3:D:358:GLY:H	3:D:359:PRO:HD3	1.50	0.75
4:E:24:ALA:O	4:E:27:ALA:N	2.17	0.75
5:F:428:SER:O	5:F:431:ALA:N	2.15	0.75
2:I:10:ARG:HH12	2:I:697:LYS:HD3	1.49	0.75
5:L:362:ASN:O	5:L:365:MET:HE2	1.86	0.75
1:A:31:LEU:HB2	1:A:199:ASP:O	1.86	0.75
2:C:1132:LEU:HD22	2:C:1177:ARG:NH2	2.01	0.75
3:D:808:VAL:O	3:D:810:THR:HG22	1.86	0.75
2:I:277:LEU:HD23	2:I:282:VAL:HB	1.68	0.75
5:L:387:VAL:HG22	5:L:435:ILE:CD1	2.17	0.75
1:A:92:VAL:HG11	1:A:98:VAL:HG13	1.68	0.75
1:B:153:VAL:O	1:B:175:ALA:N	2.18	0.75
2:C:389:PHE:O	2:C:419:ILE:HG22	1.85	0.75
2:C:529:ARG:HG2	2:C:530:ILE:H	1.50	0.75
2:C:1210:ILE:HG22	2:C:1211:ARG:O	1.86	0.75
2:C:1280:ALA:CB	3:D:431:ARG:HB3	2.16	0.75
2:C:1305:TYR:HE1	3:D:379:PRO:HG2	1.51	0.75
3:D:220:ARG:O	3:D:224:LEU:HD12	1.86	0.75
1:G:57:THR:HG22	1:G:58:GLU:HG3	1.68	0.75
2:I:1160:ASP:HB2	2:I:1161:LEU:HA	1.67	0.75
3:J:678:ARG:HG3	3:J:679:TYR:N	2.02	0.75
1:A:14:VAL:HG22	1:A:15:ASP:N	1.95	0.75
2:C:516:ASP:HA	2:C:761:GLN:NE2	2.02	0.75
2:C:646:SER:CB	2:C:649:GLN:HG3	2.14	0.75
3:D:18:ASP:HB3	3:D:1369:ARG:NH1	2.01	0.75
5:F:286:LEU:HD23	5:F:340:ALA:HB2	1.67	0.75
1:H:153:VAL:HG11	1:H:158:ARG:NH1	2.00	0.75
3:D:130:MET:HG3	3:D:131:PRO:HD2	1.68	0.75
3:D:190:LYS:HA	3:D:235:GLU:HG3	1.68	0.75
3:J:74:LYS:HD2	3:J:87:LYS:HZ3	1.51	0.75
3:J:264:ASP:HB3	3:J:324:LEU:HB2	1.69	0.75
3:J:303:VAL:O	3:J:306:LEU:N	2.19	0.75
2:C:216:THR:OG1	2:C:219:GLN:N	2.20	0.75
2:C:971:LEU:CD1	2:C:1018:TYR:HB2	2.17	0.75
3:D:1183:SER:C	3:D:1185:PRO:HD3	2.11	0.75
4:E:71:GLU:O	4:E:75:GLN:HG3	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:81:ILE:O	1:G:85:LEU:HG	1.86	0.75
3:J:352:ARG:CB	3:J:467:ALA:HA	2.17	0.75
3:J:610:ARG:HG2	3:J:866:GLU:HG2	1.68	0.75
3:J:707:ILE:HD11	3:J:716:GLN:HG2	1.69	0.75
5:L:119:ILE:HA	5:L:122:ARG:HG3	1.67	0.75
3:D:63:GLY:O	3:D:98:ARG:HD2	1.86	0.75
5:F:240:ARG:HD3	5:F:244:THR:CB	2.16	0.75
2:I:182:SER:OG	2:I:199:ASP:OD1	2.04	0.75
2:I:884:VAL:HG11	2:I:1050:VAL:CG2	2.16	0.75
3:J:1221:LEU:HD13	3:J:1222:ARG:N	2.02	0.75
1:B:35:PHE:CA	1:B:38:THR:HG22	2.10	0.75
2:C:448:LEU:HD11	2:C:554:HIS:ND1	2.02	0.75
3:D:98:ARG:NH1	3:D:248:ASP:OD2	2.19	0.75
3:D:812:ASP:O	3:D:896:ALA:N	2.19	0.75
3:D:1262:ARG:HH22	3:D:1312:ALA:HB1	1.51	0.75
2:I:518:ASN:OD1	2:I:518:ASN:N	2.20	0.75
2:I:626:GLU:N	2:I:626:GLU:OE2	2.20	0.75
2:I:854:ILE:HG23	2:I:855:PRO:HD2	1.68	0.75
3:J:134:ASP:O	3:J:138:VAL:HG23	1.87	0.75
3:J:865:HIS:CE1	3:J:868:TRP:H	2.03	0.75
2:C:88:ARG:HB2	2:C:88:ARG:NH1	2.02	0.74
2:C:960:LEU:HA	2:C:963:GLU:HG3	1.67	0.74
3:D:903:LEU:CD2	3:D:909:ILE:HD12	2.17	0.74
1:G:9:LEU:HD22	1:G:32:GLU:HG2	1.69	0.74
1:G:231:PHE:HB3	1:H:218:ARG:HB3	1.69	0.74
2:I:1295:SER:CB	3:J:347:VAL:HG23	2.17	0.74
2:C:122:VAL:HG21	2:C:493:ILE:CG2	2.17	0.74
2:C:1013:GLN:HA	2:C:1016:GLU:OE2	1.86	0.74
3:D:224:LEU:O	3:D:227:PHE:N	2.20	0.74
4:E:7:GLN:NE2	4:E:7:GLN:O	2.21	0.74
5:F:119:ILE:HA	5:F:122:ARG:HG3	1.69	0.74
1:H:30:PRO:C	1:H:31:LEU:HD22	2.12	0.74
2:I:59:ILE:HD13	2:I:472:GLU:HG3	1.67	0.74
2:I:1131:MET:HE2	2:I:1141:LEU:CD1	2.14	0.74
2:I:1255:THR:O	2:I:1257:GLN:N	2.20	0.74
3:J:146:VAL:HA	3:J:178:ALA:HB2	1.68	0.74
3:J:1146:GLU:HB3	3:J:1148:ARG:HG3	1.67	0.74
1:A:224:LEU:HB3	1:B:228:LEU:HD11	1.67	0.74
2:C:819:SER:HB2	2:C:1085:MET:SD	2.27	0.74
3:D:194:LEU:HD13	3:D:228:VAL:HG22	1.68	0.74
2:I:519:ASN:ND2	2:I:689:ALA:HB3	2.00	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:260:PHE:CB	5:L:504:PRO:HG3	2.16	0.74
3:J:622:ASP:HB3	3:J:626:TYR:CE2	2.22	0.74
3:J:1318:SER:HA	3:J:1342:ASP:OD2	1.86	0.74
3:D:369:PRO:HB3	3:D:444:GLY:O	1.88	0.74
1:H:61:ILE:HB	1:H:64:VAL:O	1.87	0.74
2:I:807:TRP:HE1	2:I:1086:PRO:HG3	1.51	0.74
2:I:1022:LYS:O	2:I:1025:PHE:HB3	1.87	0.74
2:I:1077:SER:CB	3:J:357:VAL:HG23	2.17	0.74
3:J:235:GLU:H	3:J:235:GLU:CD	1.96	0.74
3:J:427:PRO:O	3:J:429:LEU:HD22	1.87	0.74
4:K:13:ILE:HD11	4:K:54:ILE:HG21	1.68	0.74
1:B:41:ASN:O	1:B:45:ARG:HG3	1.88	0.74
2:C:1276:TRP:HD1	8:D:2004:4C4:H32	1.53	0.74
3:D:1162:ILE:HD12	3:D:1163:VAL:H	1.53	0.74
3:D:1352:ILE:HD11	8:D:2004:4C4:H6	1.69	0.74
2:I:815:SER:HB3	3:J:461:PHE:HD1	1.52	0.74
2:I:921:PRO:HB2	2:I:924:VAL:HG22	1.69	0.74
3:J:1159:ILE:HG22	3:J:1177:ILE:CD1	2.17	0.74
5:L:466:ILE:HD12	5:L:487:MET:HE2	1.69	0.74
1:A:137:ASN:N	1:A:137:ASN:OD1	2.21	0.74
1:B:273:GLU:OE2	1:B:293:PRO:HG2	1.88	0.74
2:C:360:LEU:HD13	2:C:378:ARG:HH21	1.53	0.74
2:C:569:ILE:O	2:C:571:LEU:N	2.21	0.74
3:J:21:LYS:HZ2	3:J:23:ALA:HB2	1.52	0.74
3:J:116:PHE:HB2	3:J:124:ILE:HD11	1.69	0.74
1:A:165:GLU:C	1:A:167:PRO:HD2	2.12	0.74
2:C:788:SER:O	2:C:794:LEU:HD12	1.86	0.74
3:D:88:CYS:O	3:D:90:VAL:N	2.20	0.74
3:D:857:LEU:HD23	3:D:871:LEU:CD2	2.11	0.74
2:I:161:LYS:O	2:I:163:LYS:N	2.21	0.74
3:J:52:GLU:HG2	5:L:451:ARG:NH1	2.02	0.74
3:J:149:GLY:O	3:J:176:PHE:HB2	1.87	0.74
3:J:235:GLU:OE1	3:J:235:GLU:N	2.18	0.74
2:C:1113:LEU:HD11	3:D:641:ILE:CD1	2.17	0.74
2:C:1160:ASP:CG	2:C:1161:LEU:HA	2.13	0.74
3:D:1274:PHE:HE2	3:D:1275:LEU:HD23	1.51	0.74
5:F:390:ILE:HD13	5:F:435:ILE:HG22	1.69	0.74
2:I:3:TYR:CZ	2:I:1158:LYS:HE2	2.23	0.74
2:I:563:THR:HG23	2:I:564:PRO:HD2	1.67	0.74
2:I:726:TYR:HE2	2:I:728:ASP:HB2	1.51	0.74
2:I:930:ASP:OD2	2:I:931:VAL:N	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1336:ASN:ND2	3:J:29:MET:HE3	2.03	0.74
3:J:270:ARG:CZ	5:L:449:THR:HG23	2.18	0.74
3:J:583:VAL:HG13	3:J:587:LEU:HD22	1.70	0.74
3:J:697:MET:SD	3:J:741:ALA:HB3	2.28	0.74
2:C:745:GLU:CG	2:C:1017:GLN:HB3	2.17	0.74
3:D:115:TRP:CE2	3:D:1329:THR:HG23	2.23	0.74
3:D:378:LYS:NZ	3:D:382:TYR:OH	2.21	0.74
3:D:1348:LYS:HG3	8:D:2004:4C4:C22	2.17	0.74
2:I:1257:GLN:NE2	2:I:1296:ASP:OD1	2.21	0.74
3:J:127:LEU:O	3:J:220:ARG:NH2	2.20	0.74
1:A:201:LEU:HD12	1:A:202:VAL:N	2.02	0.74
2:C:339:ASN:OD1	2:C:341:LEU:N	2.21	0.74
3:D:573:THR:HG23	3:D:576:ARG:CD	2.18	0.74
5:F:363:ARG:O	5:F:366:SER:N	2.20	0.74
2:I:1319:MET:HG3	2:I:1320:PRO:HD2	1.69	0.74
3:J:152:THR:HG21	3:J:176:PHE:HB3	1.68	0.74
3:J:416:ILE:CD1	3:J:441:LEU:HD21	2.17	0.74
5:L:357:GLN:NE2	5:L:360:ASP:OD2	2.21	0.74
2:C:1191:LYS:HZ2	2:C:1193:ALA:HB2	1.52	0.73
2:I:685:MET:CE	2:I:1071:GLY:HA2	2.18	0.73
2:I:817:LEU:HD22	2:I:818:VAL:N	2.03	0.73
2:I:1103:VAL:HG21	2:I:1112:ILE:HD11	1.70	0.73
3:J:204:GLU:HA	3:J:207:GLU:HB2	1.68	0.73
3:J:869:CYS:O	3:J:873:GLU:N	2.21	0.73
2:C:192:ASP:OD2	2:C:436:ARG:NH2	2.21	0.73
2:C:1276:TRP:CD1	8:D:2004:4C4:H32	2.22	0.73
3:D:290:ILE:HD12	3:D:290:ILE:N	2.02	0.73
3:D:320:ASN:OD1	3:D:322:ARG:HB3	1.89	0.73
1:G:228:LEU:HG	1:H:221:ALA:HB1	1.68	0.73
1:H:52:PRO:HA	1:H:149:GLY:O	1.88	0.73
2:I:688:GLN:HB2	2:I:1235:LEU:HD22	1.70	0.73
2:I:1087:TYR:HE1	2:I:1215:GLY:CA	2.01	0.73
2:I:1280:ALA:HB3	3:J:431:ARG:HB3	1.70	0.73
1:A:45:ARG:HG3	1:A:46:ILE:HD13	1.69	0.73
2:C:130:MET:SD	2:C:134:GLY:HA2	2.28	0.73
2:C:1191:LYS:HD3	2:C:1193:ALA:N	2.03	0.73
3:D:872:LEU:HD22	3:D:877:VAL:HG21	1.68	0.73
5:F:514:ASP:OD2	5:F:517:SER:OG	2.06	0.73
2:I:20:GLN:O	2:I:20:GLN:HG3	1.88	0.73
2:I:885:GLY:HA2	2:I:917:SER:HB3	1.68	0.73
1:A:45:ARG:CG	1:B:38:THR:HB	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1336:ASN:ND2	3:D:29:MET:HE1	2.02	0.73
3:D:156:ARG:HH12	3:D:157:GLN:NE2	1.81	0.73
3:D:617:THR:O	3:D:620:PHE:HB3	1.89	0.73
3:D:620:PHE:CD2	3:D:624:ILE:HD11	2.23	0.73
5:F:234:THR:CB	5:F:245:ALA:HB1	2.13	0.73
5:F:390:ILE:HD13	5:F:435:ILE:CG2	2.18	0.73
1:H:183:ILE:H	1:H:183:ILE:HD12	1.53	0.73
2:I:111:GLU:OE1	2:I:111:GLU:N	2.21	0.73
5:L:227:GLN:CG	5:L:252:LEU:HA	2.18	0.73
1:A:81:ILE:HA	1:A:84:ASN:ND2	2.00	0.73
1:B:104:LYS:HG2	1:B:110:VAL:HG22	1.71	0.73
5:F:270:VAL:HG12	5:F:274:ARG:CZ	2.18	0.73
1:G:93:GLN:HB2	1:G:120:ASP:OD2	1.89	0.73
2:I:800:MET:CE	2:I:1096:ILE:HD11	2.17	0.73
2:I:1284:ALA:HB1	3:J:1356:LEU:CD2	2.18	0.73
3:J:859:PRO:HG2	3:J:862:THR:HG21	1.69	0.73
5:L:552:THR:HG23	5:L:555:GLU:CB	2.18	0.73
2:C:18:ARG:NH1	2:C:620:ASN:HA	2.04	0.73
1:G:195:ARG:HG2	1:G:198:LEU:HG	1.71	0.73
2:I:989:LEU:HD13	2:I:1000:LEU:HD12	1.70	0.73
3:J:221:ILE:HA	3:J:224:LEU:HB2	1.69	0.73
3:J:418:GLU:HG3	4:K:45:LYS:H	1.54	0.73
3:J:634:ARG:HB3	3:J:634:ARG:CZ	2.16	0.73
3:J:1262:ARG:HG3	3:J:1281:GLU:OE2	1.87	0.73
5:L:117:ILE:O	5:L:120:ALA:N	2.22	0.73
1:A:49:SER:OG	1:A:50:SER:N	2.22	0.73
1:B:111:THR:HB	1:B:126:PRO:O	1.89	0.73
2:C:531:SER:OG	2:C:533:LEU:HB2	1.89	0.73
2:C:559:CYS:HG	2:C:662:SER:HG	0.73	0.73
2:C:1132:LEU:HD13	2:C:1177:ARG:CZ	2.18	0.73
2:C:1202:GLY:O	2:C:1203:ASP:HB2	1.87	0.73
2:C:1312:ASN:OD1	2:C:1314:GLN:HG3	1.88	0.73
3:D:525:MET:O	3:D:548:VAL:HG13	1.89	0.73
3:D:1280:VAL:HG21	3:D:1304:ARG:NE	2.02	0.73
5:F:532:LEU:O	5:F:536:THR:HG23	1.88	0.73
1:G:88:LEU:HD12	1:G:89:ALA:H	1.53	0.73
1:H:57:THR:HG22	1:H:58:GLU:OE1	1.88	0.73
2:I:229:ILE:HB	2:I:240:GLU:HB2	1.68	0.73
2:I:811:ASN:O	2:I:1099:ASN:ND2	2.22	0.73
2:I:1130:ALA:O	2:I:1134:GLN:N	2.16	0.73
5:L:412:LEU:N	5:L:435:ILE:HG12	2.04	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:471:LEU:CD2	5:L:478:PRO:HD3	2.18	0.73
2:C:396:ASP:HA	2:C:418:GLY:O	1.89	0.73
2:C:557:ARG:HH21	2:C:608:ALA:CA	2.00	0.73
3:D:507:VAL:HG11	3:D:598:LYS:HB2	1.69	0.73
4:E:30:MET:HE1	4:E:49:ILE:HG22	1.70	0.73
1:G:166:ARG:O	1:G:168:ILE:N	2.21	0.73
2:I:817:LEU:HD21	2:I:1080:ASN:HD22	1.54	0.73
2:I:1285:TYR:CD1	3:J:1361:THR:HG21	2.24	0.73
3:J:682:VAL:O	3:J:685:ILE:HG12	1.88	0.73
3:J:702:GLN:HA	3:J:723:TYR:HE2	1.54	0.73
5:L:270:VAL:HA	5:L:273:MET:CE	2.19	0.73
2:C:495:ALA:HB3	5:F:471:LEU:HD13	1.69	0.73
2:C:670:PHE:CD2	2:C:1113:LEU:HB3	2.23	0.73
3:D:193:ASP:HB3	3:D:196:GLN:CG	2.19	0.73
3:D:1252:HIS:O	3:D:1255:VAL:HG13	1.89	0.73
1:G:134:THR:HG23	2:I:726:TYR:CE1	2.24	0.73
1:G:228:LEU:CG	1:H:221:ALA:HB1	2.18	0.73
1:H:37:HIS:CD2	2:I:1216:ARG:HD2	2.22	0.73
2:I:59:ILE:CG2	2:I:475:VAL:HG11	2.16	0.73
2:I:61:SER:OG	2:I:66:SER:N	2.17	0.73
2:I:146:VAL:CG1	2:I:529:ARG:HB3	2.19	0.73
2:I:582:ASN:HB3	2:I:586:PHE:H	1.54	0.73
1:B:100:LEU:O	1:B:144:ILE:HG22	1.89	0.73
2:C:179:TYR:OH	2:C:462:ASN:ND2	2.20	0.73
2:C:593:LYS:HA	2:C:652:TYR:CD2	2.24	0.73
2:C:1060:ILE:HG13	2:C:1061:GLN:H	1.54	0.73
2:C:1287:LEU:HD23	2:C:1288:GLN:N	2.03	0.73
3:D:35:PHE:CD1	3:D:101:ARG:HD3	2.23	0.73
3:D:223:LEU:O	3:D:226:ALA:HB3	1.89	0.73
3:D:282:LEU:CD2	5:F:410:ILE:HD11	2.17	0.73
3:D:1162:ILE:O	3:D:1178:THR:N	2.22	0.73
3:D:1283:SER:O	3:D:1286:LYS:N	2.21	0.73
5:F:106:GLY:O	5:F:108:VAL:N	2.22	0.73
5:F:137:TYR:CD2	5:F:140:ALA:HB2	2.24	0.73
2:I:660:VAL:HG22	2:I:661:VAL:CG1	2.18	0.73
2:I:738:GLU:HG2	2:I:741:MET:HE3	1.69	0.73
3:J:412:LEU:O	3:J:415:VAL:HG22	1.88	0.73
3:J:425:ARG:HG2	3:J:426:ALA:N	2.03	0.73
2:C:49:LEU:HD12	2:C:73:TYR:CZ	2.24	0.72
2:C:763:THR:OG1	2:C:764:CYS:N	2.15	0.72
2:C:930:ASP:OD2	2:C:931:VAL:N	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:525:ASP:OD1	5:F:527:THR:N	2.21	0.72
1:G:48:LEU:HD23	1:G:180:VAL:HB	1.71	0.72
3:J:339:ARG:HB3	3:J:340:GLN:CG	2.19	0.72
5:L:387:VAL:HG11	5:L:408:GLY:HA3	1.70	0.72
2:C:5:TYR:O	2:C:8:LYS:HG2	1.89	0.72
3:D:527:LEU:HD23	3:D:536:LEU:HD23	1.70	0.72
3:D:825:VAL:CG1	3:D:833:GLU:HB3	2.18	0.72
3:D:1282:TYR:HB3	3:D:1286:LYS:NZ	2.03	0.72
2:I:169:LYS:O	2:I:170:VAL:HG22	1.87	0.72
2:I:385:PHE:CE2	2:I:390:PHE:HE2	2.06	0.72
2:I:460:ALA:O	2:I:463:GLN:N	2.21	0.72
2:I:510:GLN:CD	2:I:534:GLY:HA2	2.14	0.72
2:I:629:PHE:CE2	2:I:650:VAL:HG21	2.24	0.72
3:J:514:THR:HG21	3:J:596:LEU:CB	2.18	0.72
1:B:257:VAL:HG11	1:B:270:LEU:HD13	1.71	0.72
2:C:88:ARG:HB2	2:C:88:ARG:HH11	1.54	0.72
2:C:529:ARG:C	2:C:530:ILE:HG12	2.13	0.72
2:C:593:LYS:HG2	2:C:602:GLU:OE2	1.87	0.72
5:F:399:LEU:HD12	5:F:400:GLN:H	1.54	0.72
1:G:231:PHE:HB3	1:H:218:ARG:CB	2.20	0.72
2:I:390:PHE:HA	2:I:419:ILE:CG2	2.19	0.72
2:I:490:GLN:HE21	5:L:472:GLN:HB2	1.53	0.72
2:I:1287:LEU:HD23	2:I:1288:GLN:N	2.03	0.72
3:J:21:LYS:NZ	3:J:23:ALA:HB2	2.04	0.72
1:A:207:THR:HG22	1:A:209:GLY:N	2.02	0.72
2:C:941:LYS:NZ	2:C:949:GLU:OE2	2.18	0.72
2:C:1191:LYS:CD	2:C:1193:ALA:H	2.01	0.72
3:D:199:GLU:HA	3:D:202:ARG:HD2	1.71	0.72
3:D:361:LEU:HD23	3:D:365:GLN:HG3	1.70	0.72
3:D:473:THR:OG1	3:D:475:GLU:HB2	1.89	0.72
4:E:6:VAL:CG2	4:E:10:VAL:HG23	2.19	0.72
2:I:15:PHE:CE1	2:I:1194:GLU:HB3	2.23	0.72
2:I:1062:PRO:HA	2:I:1076:ILE:CG2	2.19	0.72
5:L:507:MET:O	5:L:519:LEU:HB3	1.90	0.72
2:C:59:ILE:CG2	2:C:475:VAL:HG11	2.18	0.72
2:C:1293:VAL:HG11	2:C:1304:MET:CB	2.18	0.72
3:D:258:GLY:O	5:F:499:LYS:HE3	1.90	0.72
3:D:826:ILE:HD12	3:D:826:ILE:O	1.89	0.72
4:E:68:GLU:O	4:E:71:GLU:N	2.22	0.72
3:J:275:ARG:NH1	3:J:301:GLU:OE1	2.19	0.72
3:J:826:ILE:HA	3:J:831:VAL:CA	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K:44:ASP:HB2	4:K:49:ILE:HG13	1.71	0.72
5:L:596:ARG:HA	5:L:596:ARG:NE	2.03	0.72
1:A:43:LEU:HD13	1:A:203:ILE:HD11	1.72	0.72
2:C:1142:ARG:HD3	2:C:1161:LEU:HD13	1.70	0.72
2:C:1155:VAL:HG12	2:C:1156:ARG:H	1.55	0.72
2:C:1191:LYS:HZ3	2:C:1193:ALA:N	1.87	0.72
3:D:836:ARG:NE	3:D:869:CYS:HB3	2.01	0.72
3:D:1282:TYR:HB3	3:D:1286:LYS:CE	2.19	0.72
5:F:494:ILE:HG22	5:F:498:LEU:HD21	1.72	0.72
2:I:4:SER:O	2:I:8:LYS:HB3	1.89	0.72
2:I:237:LEU:HG	2:I:292:ILE:HD11	1.70	0.72
2:I:557:ARG:HH21	2:I:608:ALA:HA	1.53	0.72
2:I:901:LEU:HA	5:L:563:PHE:CE2	2.23	0.72
3:J:317:THR:HG23	3:J:320:ASN:HB3	1.70	0.72
3:J:510:LEU:HD23	3:J:601:ILE:CD1	2.06	0.72
3:J:858:VAL:HG11	3:J:872:LEU:HD11	1.71	0.72
5:L:419:PHE:CZ	5:L:427:PHE:HB2	2.24	0.72
1:A:223:ILE:HD11	1:B:8:PHE:CE2	2.23	0.72
1:B:179:PRO:O	1:B:208:ASN:N	2.20	0.72
3:D:54:ASP:OD1	3:D:54:ASP:N	2.20	0.72
3:D:111:THR:HG21	3:D:303:VAL:HG21	1.70	0.72
5:F:235:ILE:HA	5:F:242:HIS:CE1	2.23	0.72
3:J:639:VAL:HG12	3:J:725:MET:HE1	1.71	0.72
3:J:799:ARG:O	3:J:802:ASP:HB2	1.87	0.72
1:B:136:GLU:CG	1:B:137:ASN:H	2.00	0.72
2:C:145:ILE:HD11	2:C:512:SER:CB	2.19	0.72
2:C:557:ARG:HG2	2:C:587:LEU:HB3	1.71	0.72
2:C:802:VAL:HG23	2:C:1096:ILE:O	1.89	0.72
3:D:279:LEU:HD23	3:D:279:LEU:C	2.14	0.72
3:D:423:LEU:CD1	3:D:468:VAL:HG12	2.18	0.72
3:D:803:VAL:HG23	3:D:1313:SER:HA	1.71	0.72
3:D:842:ARG:CB	3:D:882:VAL:HG11	2.19	0.72
1:G:195:ARG:HG3	1:G:198:LEU:HG	1.70	0.72
3:J:514:THR:CG2	3:J:596:LEU:HB2	2.19	0.72
5:L:466:ILE:HD12	5:L:487:MET:CE	2.20	0.72
2:C:46:GLN:HG3	2:C:47:TYR:O	1.89	0.72
2:C:486:THR:HG23	2:C:487:LEU:N	2.05	0.72
2:C:517:GLN:NE2	2:C:759:SER:HA	2.04	0.72
2:C:1107:MET:HE2	3:D:736:GLN:HG2	1.72	0.72
3:D:245:LEU:CD2	3:D:249:LEU:HD12	2.19	0.72
3:D:390:LEU:HD21	3:D:407:VAL:HG11	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1273:ASP:HB2	3:D:1276:GLU:OE1	1.89	0.72
5:F:532:LEU:H	5:F:532:LEU:HD12	1.54	0.72
1:G:218:ARG:HD3	1:H:233:ASP:N	2.05	0.72
2:I:339:ASN:OD1	2:I:341:LEU:N	2.22	0.72
2:I:1078:LYS:HG2	2:I:1079:ILE:H	1.54	0.72
5:L:129:GLN:O	5:L:133:SER:N	2.23	0.72
1:B:215:GLU:O	1:B:217:ILE:N	2.23	0.72
3:D:573:THR:HG23	3:D:576:ARG:HD2	1.72	0.72
3:D:1155:ILE:HD12	3:D:1155:ILE:H	1.55	0.72
5:F:383:ASN:HB2	5:F:412:LEU:HD21	1.72	0.72
1:G:45:ARG:HH22	2:I:1216:ARG:HA	1.53	0.72
1:H:197:ASP:C	1:H:198:LEU:HD22	2.14	0.72
2:I:4:SER:OG	2:I:5:TYR:N	2.23	0.72
2:I:1078:LYS:HG2	2:I:1079:ILE:N	2.04	0.72
3:J:748:ALA:HA	3:J:754:ILE:HA	1.71	0.72
3:J:902:ASP:O	3:J:903:LEU:HD13	1.89	0.72
1:B:9:LEU:HD23	1:B:10:LYS:H	1.55	0.71
1:B:63:GLY:HA3	1:B:71:LYS:HE3	1.71	0.71
2:C:253:PHE:CE1	2:C:255:ILE:HG12	2.25	0.71
2:C:593:LYS:HB3	2:C:602:GLU:HG3	1.69	0.71
4:E:15:ASN:O	4:E:17:PHE:N	2.22	0.71
2:I:818:VAL:O	2:I:1079:ILE:HD12	1.90	0.71
2:I:1116:HIS:O	2:I:1119:MET:HB3	1.90	0.71
3:J:1222:ARG:HG2	3:J:1223:LEU:HD22	1.72	0.71
3:D:302:ALA:O	3:D:305:ALA:HB3	1.90	0.71
3:D:848:VAL:HG12	3:D:858:VAL:HG13	1.69	0.71
5:F:137:TYR:CZ	5:F:139:GLU:HB2	2.24	0.71
2:I:956:ALA:HA	2:I:959:ASP:OD2	1.90	0.71
2:I:1305:TYR:CE1	3:J:379:PRO:HG3	2.25	0.71
3:J:190:LYS:CD	3:J:235:GLU:HG2	2.20	0.71
3:J:580:TRP:HA	3:J:583:VAL:CG2	2.20	0.71
3:J:1343:GLU:HG3	3:J:1373:ARG:NH2	2.05	0.71
1:B:16:ILE:CA	1:B:26:VAL:HG13	2.21	0.71
2:C:74:ARG:HB3	2:C:74:ARG:NH1	2.05	0.71
3:D:697:MET:SD	3:D:741:ALA:HB3	2.31	0.71
3:D:1155:ILE:O	3:D:1156:LEU:HD13	1.91	0.71
5:F:147:GLN:HE22	5:F:150:ARG:NH1	1.87	0.71
1:G:195:ARG:HD2	1:G:196:THR:N	2.04	0.71
1:H:9:LEU:HD23	1:H:10:LYS:N	2.05	0.71
5:L:383:ASN:O	5:L:386:LEU:HB2	1.89	0.71
5:L:546:ASP:OD2	5:L:603:ARG:NH2	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:152:TYR:CE1	2:C:824:GLN:HG2	2.25	0.71
1:B:182:ARG:HG2	1:B:183:ILE:N	2.04	0.71
2:C:95:PRO:HA	2:C:126:GLU:HG2	1.73	0.71
2:C:178:PRO:HB3	2:C:395:TYR:CZ	2.24	0.71
2:C:1018:TYR:HE2	2:C:1022:LYS:HD3	1.56	0.71
3:D:45:ASN:O	3:D:46:TYR:HB3	1.88	0.71
3:D:140:TYR:OH	3:D:312:ARG:NH1	2.23	0.71
5:F:124:GLU:HA	5:F:127:ILE:HG12	1.71	0.71
2:I:49:LEU:O	2:I:52:ALA:N	2.23	0.71
2:I:510:GLN:C	2:I:511:LEU:HD23	2.14	0.71
3:J:74:LYS:HD2	3:J:87:LYS:NZ	2.04	0.71
3:J:808:VAL:O	3:J:810:THR:HG22	1.89	0.71
3:J:1158:GLU:O	3:J:1206:ARG:NH1	2.23	0.71
1:A:43:LEU:HD13	1:A:203:ILE:CD1	2.20	0.71
2:C:189:ASP:OD1	2:C:193:ASN:N	2.23	0.71
2:C:816:ILE:O	2:C:1077:SER:N	2.24	0.71
2:C:918:LEU:C	2:C:918:LEU:HD12	2.16	0.71
2:C:1253:LEU:HD23	2:C:1253:LEU:C	2.16	0.71
3:D:279:LEU:HD12	3:D:295:GLU:CG	2.20	0.71
3:D:426:ALA:CB	3:D:427:PRO:HD3	2.20	0.71
3:D:1323:ALA:HB2	3:D:1331:VAL:HG11	1.70	0.71
2:I:839:VAL:HG12	2:I:1049:ILE:CD1	2.20	0.71
2:I:933:VAL:CG2	2:I:1050:VAL:HG12	2.20	0.71
3:J:1221:LEU:HD11	3:J:1304:ARG:O	1.90	0.71
5:L:387:VAL:HA	5:L:390:ILE:CD1	2.19	0.71
1:A:38:THR:OG1	1:B:45:ARG:NH1	2.23	0.71
1:A:135:ASP:O	1:A:137:ASN:N	2.23	0.71
1:A:224:LEU:HD12	1:A:228:LEU:HD12	1.71	0.71
1:B:268:ASN:O	1:B:272:ALA:N	2.17	0.71
2:C:582:ASN:HB3	2:C:585:GLY:N	2.05	0.71
4:E:32:VAL:O	4:E:34:GLY:N	2.23	0.71
1:G:166:ARG:HD2	1:G:166:ARG:C	2.15	0.71
1:H:32:GLU:HB2	1:H:35:PHE:CE2	2.25	0.71
2:I:990:ASP:HA	2:I:997:TRP:HZ2	1.52	0.71
3:J:744:ARG:HG3	3:J:744:ARG:O	1.91	0.71
2:C:854:ILE:HG22	2:C:855:PRO:HD2	1.70	0.71
3:D:1135:THR:OG1	3:D:1136:GLY:N	2.21	0.71
3:D:1262:ARG:HG3	3:D:1281:GLU:OE1	1.90	0.71
2:I:303:ASP:HB3	2:I:306:THR:OG1	1.90	0.71
2:I:1293:VAL:HG13	2:I:1301:ARG:HA	1.71	0.71
3:J:527:LEU:H	3:J:550:VAL:CG1	2.02	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:604:MET:O	3:J:607:THR:OG1	2.08	0.71
5:L:245:ALA:O	5:L:249:ILE:HG13	1.91	0.71
1:A:59:VAL:HG21	1:A:85:LEU:HD12	1.72	0.71
2:C:521:LEU:HD13	2:C:525:THR:HB	1.73	0.71
2:C:1142:ARG:HH22	2:C:1165:SER:CA	2.02	0.71
3:D:853:THR:HB	3:J:1375:ALA:C	2.16	0.71
3:D:872:LEU:CD2	3:D:877:VAL:HG11	2.20	0.71
1:H:153:VAL:HG11	1:H:158:ARG:CZ	2.21	0.71
2:I:806:PRO:HD3	2:I:1100:PRO:CG	2.20	0.71
2:I:839:VAL:HA	2:I:1049:ILE:HG12	1.72	0.71
3:J:42:GLU:HG2	5:L:451:ARG:CD	2.19	0.71
3:J:872:LEU:CD2	3:J:877:VAL:HG11	2.20	0.71
5:L:234:THR:HB	5:L:245:ALA:HB1	1.72	0.71
2:C:1328:LYS:O	3:D:245:LEU:HD12	1.90	0.71
3:D:200:GLN:HA	3:D:203:GLU:OE2	1.90	0.71
3:D:268:LEU:HB3	3:D:306:LEU:HD23	1.71	0.71
3:D:317:THR:HA	3:D:324:LEU:CD2	2.20	0.71
3:D:519:ASN:OD1	3:D:709:ARG:HD3	1.90	0.71
3:D:847:ASP:N	3:D:847:ASP:OD1	2.23	0.71
5:F:297:MET:HE3	5:F:330:LEU:HD21	1.71	0.71
2:I:359:ARG:CG	2:I:363:LEU:HD12	2.20	0.71
2:I:563:THR:HG23	2:I:564:PRO:CD	2.21	0.71
3:J:189:LEU:O	3:J:192:MET:HG2	1.90	0.71
3:J:430:HIS:CE1	3:J:925:GLU:HG3	2.26	0.71
3:J:622:ASP:HB3	3:J:626:TYR:HE2	1.55	0.71
3:J:1262:ARG:CZ	3:J:1262:ARG:HB3	2.21	0.71
4:K:40:PRO:HB2	4:K:42:GLU:OE2	1.91	0.71
5:L:561:MET:HG2	5:L:571:TYR:HB2	1.72	0.71
1:A:18:GLN:HA	1:A:24:ALA:HB1	1.73	0.71
1:B:101:THR:H	1:B:116:THR:HG21	1.55	0.71
2:C:673:HIS:O	2:C:1109:ILE:HG22	1.90	0.71
2:C:903:ARG:O	2:C:907:GLY:N	2.19	0.71
2:C:1336:ASN:HD22	3:D:29:MET:CE	2.03	0.71
3:D:37:GLU:HB2	3:D:104:HIS:CE1	2.25	0.71
3:D:185:ILE:HG22	3:D:189:LEU:HD11	1.73	0.71
3:D:368:LEU:HD22	3:D:373:ALA:HB2	1.72	0.71
3:D:800:LEU:O	3:D:803:VAL:N	2.18	0.71
5:F:390:ILE:O	5:F:393:LYS:HB2	1.91	0.71
5:F:608:ARG:CZ	5:F:609:SER:HA	2.21	0.71
2:I:12:ARG:NH2	2:I:698:PRO:O	2.21	0.71
3:J:24:LEU:HB2	3:J:232:ASN:CG	2.15	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:41:ASN:ND2	2:C:1217:THR:HA	2.05	0.70
1:B:289:LEU:HB3	1:B:300:LEU:HD23	1.73	0.70
2:C:117:ILE:HD12	2:C:488:MET:HG2	1.73	0.70
3:D:72:CYS:N	3:D:88:CYS:SG	2.62	0.70
3:D:510:LEU:HD23	3:D:601:ILE:CD1	2.20	0.70
1:H:18:GLN:HB3	1:H:24:ALA:HB2	1.72	0.70
2:I:461:GLU:O	2:I:464:PHE:HB3	1.91	0.70
2:I:517:GLN:HE21	2:I:759:SER:HB2	1.56	0.70
2:I:838:CYS:SG	2:I:886:LYS:HD3	2.31	0.70
2:I:849:GLU:CB	2:I:851:THR:HG22	2.21	0.70
3:J:702:GLN:HA	3:J:723:TYR:CE2	2.26	0.70
2:C:57:PHE:CD1	2:C:70:TYR:HB2	2.24	0.70
3:D:230:SER:OG	3:D:232:ASN:N	2.20	0.70
3:D:289:ASP:N	3:D:289:ASP:OD1	2.22	0.70
1:G:104:LYS:HG2	1:G:110:VAL:HG22	1.73	0.70
1:H:59:VAL:O	1:H:171:LEU:HB2	1.90	0.70
1:H:180:VAL:HG12	1:H:205:MET:SD	2.31	0.70
2:I:1211:ARG:CB	2:I:1220:GLN:HE21	2.03	0.70
2:I:1285:TYR:CE2	3:J:475:GLU:HG2	2.26	0.70
3:J:497:GLU:HB3	3:J:498:PRO:CD	2.20	0.70
3:J:642:ASP:HA	3:J:764:ARG:NH2	2.06	0.70
3:J:720:ASN:HD21	3:J:722:ILE:HG22	1.56	0.70
3:J:826:ILE:CA	3:J:831:VAL:HA	2.21	0.70
3:J:872:LEU:O	3:J:877:VAL:HG12	1.91	0.70
3:J:1157:ALA:HB3	3:J:1207:GLY:N	2.06	0.70
5:L:367:ILE:HD13	5:L:367:ILE:N	2.06	0.70
1:B:16:ILE:HA	1:B:26:VAL:HG13	1.72	0.70
2:C:726:TYR:HE2	2:C:728:ASP:HB2	1.56	0.70
2:C:836:LEU:HD21	2:C:921:PRO:HG2	1.72	0.70
2:C:1149:TYR:CD1	2:C:1159:VAL:HG11	2.24	0.70
2:C:1234:LYS:HE2	2:C:1238:LEU:HD23	1.72	0.70
3:D:1280:VAL:CG2	3:D:1284:ARG:HE	2.03	0.70
5:F:466:ILE:O	5:F:470:MET:N	2.22	0.70
1:G:14:VAL:HG13	1:G:15:ASP:H	1.55	0.70
1:H:9:LEU:HB3	1:H:32:GLU:HG2	1.71	0.70
2:I:216:THR:N	2:I:219:GLN:OE1	2.24	0.70
2:I:1160:ASP:CB	2:I:1162:SER:H	1.97	0.70
2:I:1293:VAL:CG1	2:I:1301:ARG:HA	2.20	0.70
3:J:414:GLU:O	4:K:45:LYS:NZ	2.22	0.70
3:J:476:ALA:O	3:J:480:ALA:N	2.19	0.70
1:B:307:LEU:HD23	1:B:314:LEU:HB2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:516:ASP:O	2:C:522:SER:OG	2.08	0.70
2:C:1164:PHE:O	2:C:1166:ASP:N	2.23	0.70
3:D:415:VAL:HG23	3:D:416:ILE:HD13	1.72	0.70
5:F:267:ASP:OD1	5:F:267:ASP:N	2.25	0.70
3:J:452:LEU:HD11	3:J:625:MET:HB2	1.73	0.70
3:J:505:ASP:HB3	3:J:629:PHE:HE1	1.56	0.70
5:L:274:ARG:HG2	5:L:365:MET:HE1	1.74	0.70
5:L:432:THR:O	5:L:436:ARG:N	2.23	0.70
2:C:1312:ASN:HD21	2:C:1314:GLN:NE2	1.78	0.70
3:D:279:LEU:HB2	3:D:295:GLU:HG2	1.72	0.70
3:D:514:THR:HB	3:D:596:LEU:HD23	1.74	0.70
3:D:803:VAL:HG11	3:D:1309:ILE:HG22	1.72	0.70
3:D:805:GLN:C	3:D:807:LEU:H	1.99	0.70
1:G:35:PHE:O	1:G:39:LEU:HG	1.91	0.70
2:I:738:GLU:HG2	2:I:741:MET:CE	2.20	0.70
2:I:901:LEU:HG	2:I:905:ILE:HD11	1.72	0.70
2:I:1035:LYS:HA	2:I:1038:GLN:OE1	1.90	0.70
3:J:270:ARG:O	3:J:274:ASN:ND2	2.19	0.70
3:J:352:ARG:HB2	3:J:466:MET:O	1.92	0.70
5:L:386:LEU:O	5:L:389:SER:OG	2.05	0.70
1:A:145:LYS:NZ	1:A:147:GLN:OE1	2.24	0.70
2:C:92:TYR:CE2	2:C:129:LEU:HB2	2.27	0.70
2:C:555:TYR:OH	2:C:654:ASP:OD1	2.09	0.70
2:C:805:MET:HE1	2:C:1221:PHE:CD1	2.27	0.70
3:D:185:ILE:O	3:D:189:LEU:HG	1.91	0.70
3:D:382:TYR:CE1	3:D:401:VAL:HG21	2.25	0.70
2:I:673:HIS:HB3	2:I:1109:ILE:CG2	2.22	0.70
3:J:294:ASN:HB2	5:L:101:TYR:HD1	1.56	0.70
1:B:286:GLU:HA	1:B:289:LEU:HD12	1.73	0.70
2:C:618:GLN:HG3	3:D:770:LEU:HD21	1.74	0.70
2:C:698:PRO:HB3	2:C:1231:TYR:CE2	2.26	0.70
2:C:878:THR:HA	2:C:925:SER:HB3	1.73	0.70
2:C:1143:GLU:OE1	2:C:1147:ARG:HD3	1.90	0.70
2:C:1164:PHE:HB2	2:C:1168:GLU:CD	2.16	0.70
3:D:183:GLU:O	3:D:187:ALA:N	2.17	0.70
3:D:813:ASP:HB2	3:D:897:HIS:ND1	2.06	0.70
3:D:824:PRO:HB3	3:D:835:LEU:HB2	1.74	0.70
4:E:86:ILE:HG22	4:E:89:GLY:H	1.57	0.70
1:G:190:ALA:HB2	1:G:200:LYS:CB	2.21	0.70
1:G:228:LEU:CD1	1:H:221:ALA:HB1	2.21	0.70
1:H:182:ARG:NH1	3:J:581:MET:HE1	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:522:SER:HB2	2:I:687:ARG:HB3	1.74	0.70
3:D:311:ARG:NH2	3:D:1329:THR:HG21	2.06	0.70
3:D:871:LEU:HD23	3:D:871:LEU:C	2.17	0.70
3:D:1176:VAL:HG22	3:D:1187:GLU:HB3	1.74	0.70
3:D:1257:VAL:HA	3:D:1260:MET:HG3	1.74	0.70
5:F:438:ALA:O	5:F:442:SER:N	2.24	0.70
2:I:475:VAL:HG12	2:I:476:LYS:N	2.06	0.70
2:I:1119:MET:HB2	2:I:1228:GLY:HA2	1.74	0.70
2:I:1247:SER:HB3	3:J:375:GLU:O	1.92	0.70
2:I:1274:GLU:HA	3:J:428:THR:HG21	1.72	0.70
4:K:66:VAL:HA	4:K:69:ARG:NH2	2.06	0.70
5:L:525:ASP:OD1	5:L:527:THR:HG22	1.92	0.70
1:A:12:ARG:O	1:A:30:PRO:HD3	1.91	0.70
1:A:152:TYR:CE1	2:C:824:GLN:HA	2.21	0.70
1:B:282:VAL:CG2	1:B:316:MET:HE2	2.22	0.70
2:C:115:LYS:HE2	2:C:116:ASP:O	1.91	0.70
2:C:285:ILE:HD11	2:C:287:VAL:HG12	1.74	0.70
2:C:745:GLU:CB	2:C:1017:GLN:HB3	2.21	0.70
2:C:812:PHE:CD2	3:D:451:PRO:HB3	2.26	0.70
2:C:1105:SER:HB2	3:D:731:ARG:HG2	1.74	0.70
3:D:326:SER:O	3:D:329:ASP:N	2.23	0.70
3:D:1183:SER:N	3:J:206:ASN:HD21	1.90	0.70
2:I:347:ILE:O	2:I:350:THR:N	2.24	0.70
3:J:705:THR:OG1	3:J:718:SER:HA	1.92	0.70
3:J:740:LEU:O	3:J:764:ARG:HB2	1.92	0.70
1:A:73:GLY:O	1:A:134:THR:HG22	1.90	0.70
1:B:151:GLY:H	1:B:177:TYR:HB2	1.57	0.70
2:C:363:LEU:HD22	2:C:382:GLU:HA	1.74	0.70
2:C:500:ALA:O	2:C:504:GLU:N	2.21	0.70
2:C:732:ILE:HG21	2:C:783:LEU:CD1	2.22	0.70
3:D:795:TYR:HE2	3:D:799:ARG:HD3	1.56	0.70
3:D:854:ALA:HB2	3:J:1372:ARG:HG3	1.72	0.70
3:D:872:LEU:HD22	3:D:877:VAL:CG1	2.19	0.70
3:D:872:LEU:O	3:D:877:VAL:HG12	1.92	0.70
4:E:31:GLN:O	4:E:33:GLY:N	2.25	0.70
2:I:105:TYR:HA	2:I:112:GLY:O	1.91	0.70
2:I:1042:LEU:HB2	2:I:1046:VAL:CG2	2.21	0.70
2:C:227:LYS:NZ	2:C:298:ALA:HB1	2.07	0.69
2:C:269:ILE:HD12	2:C:269:ILE:H	1.56	0.69
2:C:420:LEU:HD23	2:C:420:LEU:N	2.07	0.69
2:C:1246:ARG:HD2	2:C:1265:PHE:O	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1325:VAL:O	2:C:1328:LYS:N	2.25	0.69
3:D:172:PHE:CD2	3:D:172:PHE:N	2.58	0.69
3:D:528:THR:HG23	3:D:532:GLU:HB3	1.74	0.69
3:D:836:ARG:HE	3:D:869:CYS:CB	2.01	0.69
3:D:1274:PHE:CE2	3:D:1275:LEU:HD23	2.27	0.69
4:E:67:ARG:NH1	4:E:71:GLU:OE2	2.25	0.69
1:G:12:ARG:HG3	1:H:230:ALA:CB	2.23	0.69
1:G:151:GLY:O	1:G:177:TYR:N	2.25	0.69
3:J:26:SER:HG	3:J:29:MET:H	1.39	0.69
3:J:931:THR:HB	3:J:1137:GLY:HA2	1.73	0.69
5:L:436:ARG:O	5:L:440:THR:HG22	1.92	0.69
1:B:94:GLY:HA2	1:B:277:TYR:CZ	2.27	0.69
2:C:679:ALA:O	2:C:683:ALA:N	2.24	0.69
3:D:108:ALA:HB1	3:D:279:LEU:HD22	1.73	0.69
2:I:615:VAL:HG21	2:I:645:PHE:CD2	2.26	0.69
2:I:667:LEU:HD21	2:I:704:MET:HB2	1.74	0.69
3:J:45:ASN:HB3	3:J:48:THR:O	1.92	0.69
3:J:699:ASP:HA	3:J:702:GLN:NE2	2.05	0.69
1:A:107:ILE:HD11	1:A:136:GLU:N	2.06	0.69
1:A:191:ARG:HH12	1:A:198:LEU:N	1.89	0.69
1:B:37:HIS:HA	1:B:185:TYR:HE1	1.57	0.69
2:C:675:ASP:HB2	3:D:763:PHE:CZ	2.27	0.69
2:C:1257:GLN:HB3	2:C:1258:PRO:HD2	1.72	0.69
5:F:346:GLN:HA	5:F:349:GLU:CD	2.18	0.69
5:F:488:LEU:HB3	5:F:489:MET:HE2	1.74	0.69
3:J:514:THR:O	3:J:514:THR:OG1	2.07	0.69
3:J:572:THR:HG23	3:J:573:THR:N	2.07	0.69
3:J:620:PHE:CE1	3:J:624:ILE:HD11	2.27	0.69
5:L:111:LEU:HD13	5:L:115:GLY:C	2.18	0.69
5:L:231:THR:O	5:L:234:THR:OG1	2.09	0.69
2:C:819:SER:OG	2:C:821:ARG:HB3	1.93	0.69
3:D:172:PHE:N	3:D:172:PHE:HD2	1.90	0.69
3:D:382:TYR:HE1	3:D:401:VAL:CG2	2.04	0.69
3:D:776:THR:HG22	3:D:777:HIS:N	2.07	0.69
5:F:540:LEU:CD1	5:F:607:LEU:HD22	2.21	0.69
5:F:561:MET:O	5:F:571:TYR:HB2	1.92	0.69
2:I:27:LEU:O	2:I:528:ARG:NH1	2.25	0.69
2:I:736:VAL:HG23	2:I:748:ILE:HG22	1.74	0.69
3:J:520:ALA:CB	3:J:546:ALA:HB2	2.17	0.69
3:J:847:ASP:OD2	3:J:860:ARG:HG2	1.93	0.69
5:L:227:GLN:HG3	5:L:252:LEU:HA	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:76:GLU:HA	1:B:80:GLU:HG2	1.73	0.69
1:B:278:ILE:O	1:B:280:ASP:N	2.22	0.69
1:B:289:LEU:HD23	1:B:295:LEU:HD11	1.74	0.69
2:C:490:GLN:NE2	5:F:472:GLN:HB3	2.08	0.69
3:D:795:TYR:HA	3:D:798:ARG:NH1	2.06	0.69
5:F:394:TYR:OH	5:F:436:ARG:NH1	2.24	0.69
1:G:187:VAL:HG12	1:G:201:LEU:HD22	1.74	0.69
1:H:11:PRO:HG3	1:H:31:LEU:HD11	1.74	0.69
2:I:734:ILE:O	2:I:748:ILE:HB	1.92	0.69
2:I:942:ASP:O	2:I:946:LEU:HD12	1.92	0.69
2:I:1312:ASN:OD1	2:I:1314:GLN:HG3	1.92	0.69
3:J:356:THR:CG2	3:J:446:ALA:HB1	2.22	0.69
3:J:513:MET:HE1	3:J:579:LEU:CD1	2.22	0.69
1:A:191:ARG:NH1	1:A:198:LEU:H	1.89	0.69
2:C:1062:PRO:N	2:C:1076:ILE:HD11	2.07	0.69
3:D:475:GLU:OE1	3:D:475:GLU:N	2.22	0.69
3:D:814:CYS:H	3:D:895:CYS:CB	2.06	0.69
5:F:129:GLN:O	5:F:133:SER:HB2	1.92	0.69
1:H:101:THR:HA	1:H:143:ARG:HG2	1.73	0.69
2:I:53:PHE:HE2	2:I:73:TYR:HB3	1.56	0.69
3:J:514:THR:HA	3:J:576:ARG:HG2	1.73	0.69
3:J:563:LEU:HD12	3:J:563:LEU:H	1.58	0.69
3:J:827:GLU:O	3:J:829:GLY:N	2.26	0.69
3:J:850:LYS:HB3	3:J:851:PRO:CD	2.22	0.69
4:K:60:ASN:O	4:K:64:LEU:HG	1.91	0.69
1:A:77:ASP:OD2	2:C:755:LYS:HE3	1.93	0.69
1:B:263:THR:HG22	1:B:302:GLU:OE2	1.93	0.69
2:C:1281:TYR:CD2	3:D:431:ARG:HD2	2.27	0.69
2:C:1304:MET:CE	3:D:472:LEU:HB3	2.21	0.69
3:D:701:LEU:HD11	3:D:723:TYR:HB2	1.73	0.69
3:D:1146:GLU:HA	3:D:1146:GLU:OE2	1.90	0.69
5:F:399:LEU:HD12	5:F:400:GLN:N	2.08	0.69
2:I:705:GLU:CD	2:I:705:GLU:H	1.99	0.69
2:I:860:ALA:O	2:I:863:SER:OG	2.08	0.69
2:I:1013:GLN:O	2:I:1017:GLN:HG2	1.92	0.69
3:J:382:TYR:HB3	3:J:394:ILE:HD13	1.73	0.69
3:J:382:TYR:CE1	3:J:398:LYS:HA	2.27	0.69
1:A:60:GLU:HG2	1:A:143:ARG:HH21	1.56	0.69
1:A:166:ARG:HD2	1:A:167:PRO:N	2.07	0.69
1:B:33:ARG:HH11	1:B:33:ARG:CG	2.02	0.69
1:B:89:ALA:CB	1:B:124:VAL:H	2.05	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:94:ALA:HB2	2:C:129:LEU:HD11	1.75	0.69
2:C:1184:THR:HG23	2:C:1190:ALA:H	1.57	0.69
3:D:18:ASP:HB3	3:D:1369:ARG:HH12	1.58	0.69
3:D:405:GLU:O	3:D:408:VAL:HG13	1.93	0.69
3:D:528:THR:HG22	3:D:532:GLU:OE1	1.93	0.69
3:D:530:PRO:HA	3:D:533:ALA:CB	2.22	0.69
3:D:611:ILE:HG22	3:D:612:LEU:CD1	2.22	0.69
3:D:1226:VAL:O	3:D:1230:THR:HG22	1.93	0.69
5:F:119:ILE:O	5:F:122:ARG:N	2.26	0.69
1:H:33:ARG:HG3	1:H:197:ASP:OD2	1.92	0.69
2:I:568:ASN:HB2	2:I:571:LEU:HB2	1.73	0.69
2:I:674:ASP:O	3:J:772:TYR:OH	2.08	0.69
2:I:932:GLN:HB3	2:I:934:PHE:HE2	1.56	0.69
2:I:1155:VAL:HG23	2:I:1157:GLN:N	2.08	0.69
2:I:1254:VAL:HG22	2:I:1255:THR:HG23	1.73	0.69
3:J:35:PHE:CD1	3:J:101:ARG:HD3	2.28	0.69
3:J:268:LEU:HD11	3:J:324:LEU:CD1	2.17	0.69
3:J:308:ASP:OD2	3:J:311:ARG:NE	2.23	0.69
1:A:103:ASN:HD21	1:A:141:SER:HB2	1.57	0.69
1:A:156:SER:O	1:A:158:ARG:N	2.26	0.69
1:B:44:ARG:HB3	1:B:44:ARG:CZ	2.21	0.69
2:C:478:ARG:HH12	2:C:482:GLY:HA2	1.57	0.69
2:C:519:ASN:ND2	2:C:689:ALA:HB3	2.07	0.69
2:C:621:SER:HB3	2:C:634:VAL:CG2	2.23	0.69
3:D:825:VAL:HG13	3:D:833:GLU:O	1.93	0.69
3:D:848:VAL:HG11	3:D:858:VAL:HG13	1.73	0.69
5:F:388:ILE:O	5:F:392:LYS:N	2.20	0.69
2:I:898:GLU:OE1	2:I:898:GLU:N	2.17	0.69
3:J:268:LEU:CD2	3:J:306:LEU:HD23	2.22	0.69
3:J:639:VAL:CG1	3:J:725:MET:HE1	2.23	0.69
3:J:1241:TYR:HB3	3:J:1246:VAL:O	1.91	0.69
5:L:498:LEU:HD22	5:L:498:LEU:H	1.56	0.69
1:B:156:SER:HA	1:B:157:THR:C	2.17	0.69
1:B:289:LEU:HB3	1:B:300:LEU:HD21	1.72	0.69
3:D:519:ASN:CB	3:D:709:ARG:HB2	2.23	0.69
3:D:883:ARG:NH2	3:D:895:CYS:SG	2.66	0.69
1:G:134:THR:HA	2:I:773:LEU:HD11	1.75	0.69
2:I:669:PRO:HB2	2:I:1184:THR:HB	1.74	0.69
2:I:848:GLU:OE1	2:I:886:LYS:NZ	2.25	0.69
3:J:34:SER:HB2	3:J:104:HIS:HB3	1.73	0.69
3:J:423:LEU:CD1	3:J:468:VAL:HG12	2.19	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:825:VAL:C	3:J:826:ILE:HG13	2.17	0.69
3:J:825:VAL:CG1	3:J:833:GLU:HB3	2.22	0.69
1:B:112:ALA:CB	1:B:126:PRO:HA	2.12	0.68
1:B:286:GLU:OE2	1:B:300:LEU:HD11	1.93	0.68
3:D:271:ARG:HD3	5:F:400:GLN:HE22	1.58	0.68
3:J:355:ILE:HD13	3:J:466:MET:HG3	1.74	0.68
3:J:850:LYS:HE2	3:J:855:ASP:HB2	1.74	0.68
1:A:66:HIS:HD1	1:A:66:HIS:C	2.00	0.68
2:C:98:VAL:HG21	2:C:124:MET:HE3	1.73	0.68
2:C:421:SER:H	2:C:424:ASP:HB2	1.58	0.68
2:C:1005:GLU:HG2	2:C:1006:GLU:OE1	1.93	0.68
3:D:378:LYS:HB3	3:D:379:PRO:HD3	1.75	0.68
3:D:1157:ALA:HB3	3:D:1207:GLY:N	2.08	0.68
1:G:36:GLY:C	1:G:187:VAL:HG11	2.17	0.68
2:I:657:THR:OG1	2:I:1187:PHE:HB2	1.92	0.68
2:I:818:VAL:CG2	2:I:1096:ILE:HG12	2.23	0.68
2:I:1023:HIS:O	2:I:1027:LYS:HG2	1.93	0.68
3:J:857:LEU:CD1	3:J:872:LEU:HD21	2.23	0.68
3:J:1263:LYS:HE2	3:J:1279:GLN:HE22	1.58	0.68
1:A:61:ILE:CG2	1:A:64:VAL:HG21	2.23	0.68
2:C:22:LEU:HD22	2:C:23:ASP:N	2.09	0.68
2:C:655:VAL:N	2:C:659:GLN:OE1	2.25	0.68
3:D:659:ALA:O	3:D:661:VAL:N	2.27	0.68
3:D:842:ARG:NH2	3:D:884:SER:HB2	2.08	0.68
4:E:88:GLU:HA	4:E:88:GLU:OE2	1.93	0.68
2:I:386:GLU:HA	2:I:390:PHE:CD2	2.27	0.68
2:I:805:MET:HE1	2:I:1221:PHE:CD1	2.29	0.68
3:J:156:ARG:HH12	3:J:157:GLN:HE21	1.39	0.68
1:A:11:PRO:HD3	1:B:227:GLN:OE1	1.92	0.68
1:A:37:HIS:CD2	1:A:187:VAL:HG21	2.29	0.68
1:A:38:THR:C	1:A:39:LEU:HD23	2.17	0.68
1:A:57:THR:HG23	1:A:158:ARG:CZ	2.23	0.68
1:A:57:THR:HG22	1:A:58:GLU:HG2	1.76	0.68
1:A:89:ALA:O	1:A:124:VAL:HG12	1.93	0.68
2:C:593:LYS:HA	2:C:652:TYR:CE2	2.27	0.68
2:C:617:ALA:HB3	2:C:653:MET:HB2	1.73	0.68
2:C:1338:GLU:O	3:D:20:ILE:HG23	1.94	0.68
3:D:623:GLN:O	3:D:627:THR:HG22	1.94	0.68
3:D:647:PRO:CG	3:D:697:MET:HB3	2.16	0.68
3:D:660:GLU:CB	3:D:685:ILE:HD12	2.23	0.68
1:G:191:ARG:NH1	1:G:197:ASP:HA	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:181:GLU:HB2	1:H:206:GLU:O	1.92	0.68
2:I:798:GLN:CB	2:I:828:PHE:HE1	1.98	0.68
2:I:976:ARG:HD2	2:I:989:LEU:HD23	1.76	0.68
3:J:431:ARG:N	3:J:921:GLN:OE1	2.26	0.68
3:J:514:THR:CB	3:J:596:LEU:HD23	2.23	0.68
3:J:853:THR:HG22	3:J:854:ALA:H	1.59	0.68
3:J:915:ILE:HA	3:J:918:ILE:CG2	2.23	0.68
2:C:360:LEU:O	2:C:364:VAL:HG23	1.94	0.68
2:C:992:LEU:HD23	2:C:992:LEU:H	1.56	0.68
3:D:613:GLY:O	3:D:616:PRO:HD2	1.94	0.68
3:D:1238:GLN:CB	3:D:1242:ARG:HH21	2.07	0.68
2:I:111:GLU:CD	2:I:111:GLU:H	2.01	0.68
2:I:1210:ILE:HG22	2:I:1211:ARG:N	2.09	0.68
5:L:387:VAL:HG11	5:L:408:GLY:C	2.19	0.68
2:C:979:LEU:HD11	2:C:1011:LEU:HD11	1.74	0.68
2:C:1115:THR:HG22	2:C:1228:GLY:HA3	1.74	0.68
3:D:212:THR:O	3:D:215:LYS:HE2	1.93	0.68
3:D:322:ARG:HG3	3:D:323:PRO:HD2	1.74	0.68
3:D:362:ARG:H	3:D:365:GLN:NE2	1.89	0.68
3:J:490:ILE:HG12	3:J:500:ILE:CG1	2.24	0.68
5:L:532:LEU:HD13	5:L:532:LEU:O	1.93	0.68
1:A:57:THR:HG23	1:A:158:ARG:HH12	1.59	0.68
2:C:68:LEU:HD12	2:C:101:ARG:O	1.94	0.68
3:D:45:ASN:HA	3:D:52:GLU:OE2	1.93	0.68
3:D:97:VAL:C	3:D:99:ARG:H	2.02	0.68
3:D:1179:PRO:HD2	3:D:1184:ASP:CA	2.23	0.68
5:F:387:VAL:O	5:F:390:ILE:HG23	1.94	0.68
1:H:67:GLU:O	1:H:78:ILE:HB	1.93	0.68
2:I:61:SER:HG	2:I:66:SER:H	1.37	0.68
2:I:972:PHE:CE2	2:I:998:LEU:HD11	2.27	0.68
3:J:646:ILE:HD12	3:J:762:ASN:HD21	1.59	0.68
1:A:208:ASN:OD1	1:A:210:THR:HG23	1.94	0.68
2:C:94:ALA:CB	2:C:129:LEU:HD11	2.24	0.68
2:C:145:ILE:CG2	2:C:456:VAL:HG22	2.20	0.68
2:C:243:PRO:HB2	2:C:278:GLU:HG2	1.73	0.68
2:C:520:PRO:HG3	2:C:714:VAL:HG11	1.76	0.68
2:C:590:PRO:HG3	2:C:605:TYR:CE1	2.29	0.68
2:C:616:ILE:HG22	2:C:617:ALA:O	1.94	0.68
2:C:617:ALA:HB3	2:C:653:MET:HA	1.76	0.68
2:C:1312:ASN:ND2	2:C:1314:GLN:HE21	1.79	0.68
3:D:520:ALA:O	3:D:522:GLY:N	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:621:ALA:HA	3:D:624:ILE:HD12	1.74	0.68
5:F:228:TYR:HA	5:F:252:LEU:HD22	1.76	0.68
5:F:479:THR:O	5:F:482:GLU:N	2.27	0.68
5:F:535:ALA:O	5:F:538:GLU:HB3	1.93	0.68
1:G:191:ARG:CZ	1:G:197:ASP:HA	2.24	0.68
2:I:590:PRO:HG3	2:I:605:TYR:CZ	2.28	0.68
2:I:841:ARG:NH1	3:J:256:ASP:HB3	2.08	0.68
3:J:252:LEU:CD2	3:J:262:THR:HB	2.23	0.68
3:J:495:ASN:C	3:J:497:GLU:H	1.98	0.68
3:J:1283:SER:OG	3:J:1284:ARG:N	2.25	0.68
5:L:264:LYS:N	5:L:264:LYS:HD2	2.09	0.68
2:C:1174:GLU:OE2	2:C:1177:ARG:HD2	1.94	0.68
3:D:148:GLU:OE2	3:D:156:ARG:NE	2.27	0.68
3:D:190:LYS:HD3	3:D:235:GLU:HG2	1.75	0.68
3:D:1270:GLY:HA3	3:D:1297:LYS:O	1.94	0.68
5:F:127:ILE:O	5:F:131:GLN:N	2.19	0.68
1:G:218:ARG:HH11	1:H:233:ASP:H	1.42	0.68
1:G:231:PHE:CB	1:H:218:ARG:HB3	2.24	0.68
2:I:145:ILE:HG21	2:I:456:VAL:HG22	1.75	0.68
2:I:758:ARG:HB2	2:I:833:ILE:HG22	1.75	0.68
1:B:140:ILE:HD12	1:B:141:SER:N	2.09	0.68
2:C:70:TYR:OH	2:C:72:SER:HA	1.94	0.68
2:C:303:ASP:CG	2:C:306:THR:HG22	2.18	0.68
2:C:615:VAL:HG13	2:C:651:ASP:H	1.58	0.68
2:C:698:PRO:HB3	2:C:1231:TYR:CD2	2.29	0.68
2:C:813:GLU:HG3	3:D:460:ASP:HA	1.76	0.68
3:D:161:THR:HG22	3:D:164:GLN:CD	2.19	0.68
3:D:265:LEU:O	3:D:269:TYR:N	2.20	0.68
3:D:766:GLY:O	3:D:767:LEU:HD12	1.94	0.68
5:F:283:GLN:NE2	5:F:343:LYS:HD2	2.09	0.68
5:F:346:GLN:HA	5:F:349:GLU:OE1	1.94	0.68
1:G:187:VAL:CG1	1:G:201:LEU:HD13	2.24	0.68
1:G:207:THR:HG21	1:G:211:ILE:HG22	1.74	0.68
3:J:306:LEU:HB3	3:J:307:LEU:HD23	1.74	0.68
3:J:1356:LEU:HD23	3:J:1357:ILE:N	2.09	0.68
1:A:76:GLU:N	1:A:76:GLU:OE2	2.27	0.67
1:B:61:ILE:HG22	1:B:63:GLY:H	1.59	0.67
1:B:151:GLY:O	1:B:177:TYR:N	2.27	0.67
3:D:127:LEU:HD12	3:D:127:LEU:O	1.94	0.67
3:D:737:ILE:O	3:D:740:LEU:N	2.17	0.67
5:F:460:ILE:O	5:F:463:LEU:N	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:562:ARG:NH1	5:F:591:GLU:OE2	2.27	0.67
1:G:13:LEU:HD23	1:G:13:LEU:H	1.57	0.67
1:G:228:LEU:HD11	1:H:221:ALA:HB1	1.75	0.67
2:I:633:LEU:HD23	2:I:633:LEU:N	2.10	0.67
3:J:126:LEU:HD12	3:J:127:LEU:N	2.09	0.67
3:J:580:TRP:CZ3	3:J:583:VAL:HG11	2.28	0.67
5:L:139:GLU:OE1	5:L:142:THR:HG21	1.93	0.67
1:A:103:ASN:ND2	1:A:141:SER:HB2	2.08	0.67
1:A:166:ARG:N	1:A:167:PRO:HD2	2.08	0.67
2:C:227:LYS:HZ3	2:C:298:ALA:HB1	1.59	0.67
2:C:810:TYR:HE1	2:C:1078:LYS:CD	2.03	0.67
2:C:815:SER:HB3	3:D:461:PHE:HD1	1.58	0.67
2:C:957:LYS:O	2:C:961:SER:OG	2.11	0.67
3:D:203:GLU:O	3:D:206:ASN:N	2.27	0.67
3:D:627:THR:HG23	3:D:628:GLY:N	2.09	0.67
3:D:903:LEU:HB3	3:D:905:ARG:H	1.58	0.67
5:F:136:GLU:OE2	5:F:364:ARG:NH2	2.28	0.67
5:F:295:CYS:HA	5:F:329:LYS:HB3	1.76	0.67
3:J:492:SER:HB3	3:J:499:ILE:HD13	1.74	0.67
3:J:495:ASN:HD22	3:J:497:GLU:HB2	1.58	0.67
5:L:459:THR:O	5:L:463:LEU:HD13	1.94	0.67
5:L:485:GLU:C	5:L:487:MET:H	2.02	0.67
5:L:548:LEU:HA	5:L:551:LEU:HD12	1.76	0.67
1:B:76:GLU:CD	1:B:76:GLU:H	1.99	0.67
1:B:191:ARG:NH2	3:D:410:ASP:OD2	2.27	0.67
2:C:229:ILE:HB	2:C:240:GLU:CD	2.20	0.67
3:D:556:GLU:O	3:D:564:VAL:HB	1.94	0.67
3:D:1171:GLY:HA2	3:D:1193:TRP:CH2	2.29	0.67
5:F:113:ARG:O	5:F:116:GLU:HB2	1.94	0.67
1:G:44:ARG:HG3	1:G:183:ILE:CG2	2.23	0.67
1:G:151:GLY:N	1:G:177:TYR:HB2	2.08	0.67
2:I:76:GLY:C	2:I:95:PRO:HD2	2.19	0.67
2:I:161:LYS:NZ	2:I:161:LYS:H	1.92	0.67
2:I:1308:ILE:HG23	3:J:380:PHE:CE2	2.30	0.67
3:J:260:PHE:HB3	5:L:504:PRO:HG3	1.75	0.67
3:J:460:ASP:O	3:J:461:PHE:HD2	1.77	0.67
3:J:1365:TYR:O	3:J:1368:ASP:HB3	1.94	0.67
2:C:215:TYR:HE2	2:C:422:LYS:HD2	1.58	0.67
2:C:509:SER:O	2:C:511:LEU:N	2.27	0.67
2:C:995:ASP:OD1	2:C:996:ARG:NH2	2.27	0.67
3:D:317:THR:HA	3:D:324:LEU:HG	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:653:ILE:O	3:D:656:GLU:N	2.27	0.67
3:D:667:GLN:CA	3:D:672:LEU:HD13	2.23	0.67
3:D:1313:SER:O	3:D:1315:ALA:N	2.27	0.67
3:D:1333:THR:O	3:D:1337:VAL:HG13	1.95	0.67
5:F:320:ILE:HG21	5:F:331:HIS:CE1	2.28	0.67
5:F:379:MET:HE2	5:F:379:MET:O	1.94	0.67
2:I:74:ARG:NH1	2:I:97:ARG:HB2	2.09	0.67
2:I:854:ILE:CG2	2:I:855:PRO:HD2	2.24	0.67
2:I:898:GLU:H	2:I:898:GLU:CD	2.02	0.67
2:I:1106:ARG:O	2:I:1108:ASN:ND2	2.27	0.67
3:J:260:PHE:HB3	5:L:504:PRO:CG	2.24	0.67
3:J:391:ALA:HB2	3:J:400:MET:SD	2.35	0.67
5:L:354:THR:O	5:L:358:VAL:HG13	1.93	0.67
5:L:599:ARG:C	5:L:601:PRO:HD3	2.19	0.67
1:B:62:ASP:OD2	1:B:140:ILE:HD13	1.94	0.67
2:C:591:TYR:OH	2:C:637:ARG:NH2	2.27	0.67
2:C:736:VAL:CG2	2:C:748:ILE:HA	2.23	0.67
2:C:812:PHE:CE2	3:D:451:PRO:HB3	2.29	0.67
2:C:974:ARG:O	2:C:978:VAL:HG23	1.94	0.67
3:D:725:MET:O	3:D:728:SER:OG	2.12	0.67
1:G:73:GLY:O	1:G:134:THR:HG22	1.93	0.67
2:I:388:LEU:HB3	2:I:389:PHE:CD2	2.30	0.67
2:I:403:MET:HE3	2:I:404:LYS:N	2.09	0.67
2:I:487:LEU:O	2:I:487:LEU:HD23	1.93	0.67
2:I:1277:ALA:HA	3:J:431:ARG:HA	1.75	0.67
2:I:1280:ALA:HB3	3:J:431:ARG:CB	2.23	0.67
3:J:298:MET:O	3:J:301:GLU:HB3	1.94	0.67
3:J:1162:ILE:HG13	3:J:1163:VAL:N	2.09	0.67
1:B:37:HIS:HA	1:B:185:TYR:CE1	2.29	0.67
1:B:98:VAL:HG13	1:B:99:ILE:N	2.09	0.67
1:B:285:THR:HG23	1:B:287:VAL:HB	1.76	0.67
2:C:490:GLN:CD	5:F:472:GLN:HB3	2.19	0.67
2:C:918:LEU:HD12	2:C:918:LEU:O	1.93	0.67
5:F:295:CYS:HB3	5:F:329:LYS:HB2	1.77	0.67
1:G:191:ARG:HH12	1:G:197:ASP:HA	1.60	0.67
1:H:153:VAL:CG1	1:H:158:ARG:HD3	2.24	0.67
2:I:149:LEU:HD12	2:I:452:ARG:O	1.95	0.67
2:I:242:VAL:HB	2:I:245:ARG:HD2	1.76	0.67
2:I:1124:ILE:HD13	2:I:1202:GLY:HA2	1.75	0.67
2:I:1192:GLU:OE2	3:J:764:ARG:NH1	2.27	0.67
3:J:120:LEU:CB	3:J:121:PRO:HD3	2.16	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:268:LEU:O	3:J:271:ARG:HB3	1.94	0.67
3:J:498:PRO:HG2	3:J:602:SER:OG	1.95	0.67
3:J:537:TYR:HE2	3:J:631:TYR:CE1	2.10	0.67
1:A:91:ARG:HD3	1:A:210:THR:O	1.94	0.67
1:A:171:LEU:HD22	1:A:171:LEU:H	1.59	0.67
2:C:615:VAL:HG11	2:C:649:GLN:O	1.95	0.67
2:C:901:LEU:HD11	2:C:905:ILE:HD11	1.77	0.67
2:C:1293:VAL:HG13	2:C:1301:ARG:CA	2.23	0.67
3:D:796:LEU:HD11	3:D:800:LEU:HD11	1.76	0.67
3:D:1352:ILE:HD12	8:D:2004:4C4:C7	2.25	0.67
4:E:56:GLU:CB	4:E:58:LEU:HD13	2.25	0.67
1:G:11:PRO:HB3	1:G:31:LEU:HD23	1.76	0.67
2:I:615:VAL:CG1	2:I:650:VAL:HA	2.24	0.67
2:I:981:ALA:HB1	2:I:1007:LYS:NZ	2.10	0.67
2:I:1063:GLY:O	3:J:354:VAL:HG11	1.94	0.67
3:J:194:LEU:HD22	3:J:224:LEU:CD2	2.24	0.67
3:J:1163:VAL:CG2	3:J:1175:LEU:HD11	2.25	0.67
4:K:3:ARG:HD3	4:K:5:THR:O	1.95	0.67
1:B:92:VAL:CG1	1:B:95:LYS:HB3	2.25	0.67
2:C:1223:ARG:HB3	2:C:1223:ARG:HH11	1.60	0.67
3:D:71:LEU:HB2	3:D:90:VAL:HG21	1.75	0.67
3:D:152:THR:HB	3:D:172:PHE:CE1	2.29	0.67
3:D:382:TYR:HE2	5:F:532:LEU:HD23	1.59	0.67
1:G:218:ARG:NH1	1:H:231:PHE:O	2.28	0.67
1:H:85:LEU:O	1:H:88:LEU:N	2.24	0.67
2:I:98:VAL:O	2:I:121:GLU:HA	1.94	0.67
2:I:665:ALA:C	2:I:667:LEU:H	2.03	0.67
2:I:870:ILE:HG22	2:I:944:ARG:HH11	1.60	0.67
3:J:147:ILE:HG13	3:J:177:ASP:HB3	1.75	0.67
3:J:311:ARG:NH2	3:J:1329:THR:HG21	2.10	0.67
3:J:311:ARG:C	3:J:312:ARG:HG2	2.19	0.67
3:J:785:ASP:HA	3:J:788:LEU:HD23	1.75	0.67
3:J:867:GLN:O	3:J:870:ASP:N	2.28	0.67
1:A:12:ARG:N	1:A:30:PRO:HG2	2.10	0.67
1:A:162:GLU:HG3	1:A:165:GLU:CG	2.20	0.67
1:B:99:ILE:HG13	1:B:144:ILE:C	2.20	0.67
1:B:100:LEU:HD23	1:B:115:ILE:CG2	2.24	0.67
1:B:109:PRO:HB3	1:B:132:HIS:CD2	2.29	0.67
2:C:256:GLU:OE2	2:C:261:VAL:HG22	1.95	0.67
2:C:665:ALA:O	2:C:667:LEU:N	2.28	0.67
3:D:198:CYS:C	3:D:202:ARG:HG3	2.20	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:572:THR:HG23	3:D:573:THR:N	2.09	0.67
5:F:275:VAL:HA	5:F:278:ASP:OD2	1.93	0.67
5:F:514:ASP:O	5:F:515:GLU:HG3	1.95	0.67
2:I:246:LEU:HB3	2:I:269:ILE:HG21	1.75	0.67
3:J:275:ARG:NH1	3:J:298:MET:HB3	2.10	0.67
3:J:432:LEU:HD22	3:J:489:ASN:HB3	1.77	0.67
3:J:698:MET:O	3:J:702:GLN:HB2	1.95	0.67
4:K:44:ASP:HB2	4:K:49:ILE:CG1	2.25	0.67
1:A:27:THR:C	1:A:28:LEU:HD12	2.19	0.67
1:A:73:GLY:HA2	2:C:726:TYR:OH	1.93	0.67
2:C:403:MET:HE3	2:C:404:LYS:N	2.10	0.67
2:C:878:THR:O	2:C:920:VAL:HG11	1.95	0.67
2:C:1246:ARG:NH2	3:D:348:ASP:OD1	2.28	0.67
3:D:42:GLU:N	3:D:42:GLU:OE1	2.27	0.67
3:D:79:LYS:HE3	3:D:80:HIS:CA	2.25	0.67
3:D:97:VAL:HG11	3:D:101:ARG:NH2	2.10	0.67
3:D:268:LEU:HD22	3:D:306:LEU:CA	2.23	0.67
3:D:611:ILE:C	3:D:612:LEU:HD12	2.20	0.67
3:D:892:PHE:HZ	3:D:1282:TYR:HE1	1.40	0.67
1:G:169:GLY:O	1:G:171:LEU:HD13	1.95	0.67
2:I:59:ILE:HG21	2:I:475:VAL:CG1	2.18	0.67
2:I:59:ILE:HG23	2:I:476:LYS:HE3	1.77	0.67
2:I:720:ARG:HD3	2:I:749:ASP:OD1	1.94	0.67
3:J:320:ASN:OD1	3:J:322:ARG:HB3	1.95	0.67
3:J:903:LEU:HD23	3:J:905:ARG:HG3	1.77	0.67
5:L:387:VAL:CG1	5:L:408:GLY:HA3	2.25	0.67
5:L:574:GLU:O	5:L:577:GLY:N	2.28	0.67
2:C:63:SER:C	2:C:65:ASN:H	2.00	0.66
2:C:338:THR:CB	2:C:345:PRO:HB3	2.25	0.66
3:D:171:GLU:HB3	3:D:172:PHE:HD2	1.59	0.66
3:D:530:PRO:HA	3:D:533:ALA:HB3	1.77	0.66
4:E:39:VAL:HG22	4:E:40:PRO:HD2	1.76	0.66
1:G:12:ARG:CG	1:H:230:ALA:HB1	2.25	0.66
2:I:74:ARG:HH12	2:I:97:ARG:CB	2.09	0.66
2:I:417:SER:OG	2:I:419:ILE:N	2.27	0.66
2:I:758:ARG:HB2	2:I:833:ILE:HG21	1.77	0.66
2:I:870:ILE:HG22	2:I:944:ARG:NH1	2.09	0.66
3:J:161:THR:HG22	3:J:164:GLN:CD	2.19	0.66
3:J:493:PRO:HB2	3:J:918:ILE:HD11	1.78	0.66
3:J:537:TYR:CE2	3:J:631:TYR:HE1	2.10	0.66
3:J:910:ASN:HD22	4:K:15:ASN:HA	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:248:GLU:HG3	1:B:249:PHE:N	2.10	0.66
2:C:745:GLU:HB2	2:C:1017:GLN:HB3	1.77	0.66
2:C:756:TYR:HE1	2:C:766:ASN:CG	2.03	0.66
3:D:198:CYS:O	3:D:202:ARG:HG3	1.95	0.66
3:D:271:ARG:CD	5:F:400:GLN:HE22	2.08	0.66
3:D:310:GLY:HA2	3:D:314:ARG:HD2	1.76	0.66
3:D:515:ARG:O	3:D:545:HIS:HB3	1.96	0.66
3:D:622:ASP:HB3	3:D:626:TYR:CE2	2.29	0.66
3:D:1348:LYS:HG3	8:D:2004:4C4:N	2.10	0.66
2:I:469:VAL:HG23	2:I:470:ARG:H	1.59	0.66
2:I:723:VAL:HG22	2:I:776:PRO:HA	1.77	0.66
2:I:745:GLU:N	2:I:1017:GLN:HG3	2.10	0.66
2:I:1302:THR:HG22	5:L:531:PRO:CB	2.25	0.66
3:J:559:ALA:O	3:J:561:GLY:N	2.28	0.66
3:J:1157:ALA:HB1	3:J:1206:ARG:HA	1.77	0.66
3:J:1193:TRP:HB2	3:J:1194:ARG:HH12	1.60	0.66
5:L:563:PHE:C	5:L:565:ILE:H	2.02	0.66
2:C:1010:GLN:O	2:C:1013:GLN:HB2	1.94	0.66
3:D:368:LEU:CD2	3:D:373:ALA:HB2	2.24	0.66
3:D:520:ALA:CB	3:D:546:ALA:HB2	2.22	0.66
3:D:527:LEU:HD23	3:D:532:GLU:CG	2.25	0.66
3:D:1151:LYS:O	3:D:1153:PRO:HD3	1.96	0.66
3:D:1157:ALA:O	3:D:1207:GLY:N	2.27	0.66
3:D:1159:ILE:HG13	3:D:1160:SER:O	1.95	0.66
3:D:1174:ARG:HG2	3:D:1189:MET:HG2	1.77	0.66
5:F:119:ILE:HD12	5:F:122:ARG:HE	1.59	0.66
5:F:585:GLU:CA	5:F:588:ARG:HG3	2.25	0.66
2:I:617:ALA:HB3	2:I:653:MET:CB	2.25	0.66
2:I:746:ALA:CB	2:I:974:ARG:HE	2.07	0.66
2:I:817:LEU:HD23	2:I:1078:LYS:O	1.96	0.66
2:I:1240:ASP:HB3	3:J:445:LYS:NZ	2.10	0.66
3:J:268:LEU:CD1	3:J:324:LEU:HD13	2.19	0.66
3:J:394:ILE:O	3:J:398:LYS:N	2.23	0.66
5:L:122:ARG:NH2	5:L:378:GLU:OE1	2.29	0.66
5:L:372:ALA:O	5:L:376:LYS:HG3	1.96	0.66
2:C:169:LYS:HE2	2:C:190:PRO:HA	1.77	0.66
2:C:1294:LYS:HD3	3:D:472:LEU:HD11	1.78	0.66
4:E:9:ALA:HB2	4:E:55:GLU:CG	2.26	0.66
5:F:390:ILE:CD1	5:F:435:ILE:HG22	2.26	0.66
2:I:4:SER:HB3	2:I:7:GLU:CG	2.24	0.66
2:I:693:LEU:N	2:I:829:THR:O	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:124:ILE:HG12	3:J:237:MET:SD	2.35	0.66
3:J:1167:LYS:NZ	3:J:1170:LYS:HB2	2.10	0.66
5:L:548:LEU:HA	5:L:551:LEU:CD1	2.24	0.66
2:C:169:LYS:O	2:C:170:VAL:HG22	1.95	0.66
2:C:272:ARG:O	2:C:276:GLN:HG3	1.95	0.66
2:C:1060:ILE:HG13	2:C:1061:GLN:N	2.09	0.66
3:D:26:SER:CB	3:D:29:MET:HB3	2.26	0.66
3:D:117:LEU:C	3:D:118:LYS:HG2	2.20	0.66
3:D:810:THR:HG23	3:D:893:GLY:HA3	1.78	0.66
5:F:119:ILE:CD1	5:F:122:ARG:HE	2.07	0.66
5:F:245:ALA:O	5:F:249:ILE:HG13	1.95	0.66
5:F:295:CYS:SG	5:F:330:LEU:HA	2.36	0.66
1:H:48:LEU:HD22	3:J:539:SER:HB3	1.76	0.66
2:I:5:TYR:HA	2:I:8:LYS:HG2	1.77	0.66
2:I:35:PHE:O	2:I:38:PHE:N	2.28	0.66
2:I:478:ARG:NH1	2:I:482:GLY:HA2	2.11	0.66
2:I:673:HIS:HB3	2:I:1109:ILE:HG22	1.78	0.66
2:I:849:GLU:HB2	2:I:851:THR:HG22	1.77	0.66
2:I:897:PRO:CB	5:L:565:ILE:HB	2.25	0.66
2:I:927:THR:HG22	2:I:928:VAL:O	1.95	0.66
2:I:944:ARG:HE	2:I:948:ILE:CD1	2.08	0.66
2:I:1280:ALA:CB	3:J:431:ARG:HB3	2.24	0.66
3:J:1155:ILE:C	3:J:1156:LEU:HD13	2.21	0.66
1:B:205:MET:HG2	1:B:206:GLU:H	1.60	0.66
2:C:15:PHE:HB3	2:C:17:LYS:HZ3	1.57	0.66
2:C:147:SER:OG	2:C:455:SER:HB3	1.96	0.66
2:C:987:GLU:O	2:C:991:LYS:HG3	1.96	0.66
3:D:160:LEU:HD13	3:D:165:TYR:HA	1.77	0.66
3:D:842:ARG:HB3	3:D:882:VAL:CG1	2.26	0.66
2:I:198:ILE:HG22	2:I:199:ASP:CG	2.21	0.66
2:I:435:ILE:O	2:I:438:GLY:N	2.25	0.66
2:I:617:ALA:HB3	2:I:653:MET:HG3	1.78	0.66
2:I:618:GLN:O	2:I:653:MET:HE3	1.95	0.66
2:I:1234:LYS:HE2	2:I:1238:LEU:HD23	1.76	0.66
3:J:80:HIS:CB	3:J:83:VAL:HG11	2.20	0.66
3:J:377:PHE:HD1	3:J:380:PHE:CD1	2.14	0.66
1:A:92:VAL:HG11	1:A:98:VAL:CG1	2.26	0.66
3:D:47:ARG:HH12	5:F:496:LYS:HE2	1.61	0.66
3:D:247:PRO:O	3:D:249:LEU:N	2.29	0.66
3:D:422:LEU:HB2	3:D:469:HIS:HB2	1.77	0.66
3:D:514:THR:O	3:D:595:ALA:HA	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:656:GLU:O	3:D:659:ALA:HB3	1.96	0.66
5:F:320:ILE:HA	5:F:327:SER:HB3	1.77	0.66
2:I:201:ARG:HH11	2:I:201:ARG:HG3	1.60	0.66
2:I:389:PHE:O	2:I:419:ILE:HG22	1.96	0.66
2:I:617:ALA:HB3	2:I:653:MET:HA	1.75	0.66
2:I:799:ASN:HA	2:I:1231:TYR:HA	1.78	0.66
2:I:953:LEU:HA	2:I:1036:ILE:CD1	2.25	0.66
2:I:996:ARG:NH1	2:I:999:GLU:OE2	2.27	0.66
3:J:1279:GLN:HB3	3:J:1281:GLU:OE1	1.95	0.66
1:A:56:VAL:HG22	1:A:173:VAL:CG2	2.25	0.66
1:B:16:ILE:HD12	1:B:214:GLU:HG3	1.78	0.66
1:B:61:ILE:HG22	1:B:63:GLY:N	2.11	0.66
1:B:151:GLY:N	1:B:177:TYR:HB2	2.11	0.66
2:C:5:TYR:C	2:C:7:GLU:H	2.01	0.66
2:C:417:SER:OG	2:C:419:ILE:O	2.14	0.66
2:C:617:ALA:HB3	2:C:653:MET:CA	2.25	0.66
3:D:1280:VAL:HG13	3:D:1284:ARG:HD2	1.76	0.66
5:F:239:GLY:O	5:F:245:ALA:HB2	1.96	0.66
2:I:918:LEU:HD12	2:I:919:ARG:N	2.10	0.66
3:J:68:TYR:HA	3:J:92:VAL:HG23	1.77	0.66
3:J:88:CYS:O	3:J:90:VAL:N	2.29	0.66
3:J:147:ILE:N	3:J:177:ASP:O	2.17	0.66
3:J:392:THR:HB	5:L:606:VAL:HG11	1.77	0.66
3:J:482:ALA:CB	4:K:20:VAL:HG22	2.26	0.66
1:B:155:ALA:O	1:B:158:ARG:HB3	1.95	0.66
2:C:125:GLY:HA2	2:C:499:SER:HB2	1.77	0.66
3:D:915:ILE:HA	3:D:918:ILE:HG23	1.76	0.66
5:F:130:VAL:CG1	5:F:365:MET:HG3	2.25	0.66
5:F:263:PRO:O	5:F:266:PHE:HB3	1.96	0.66
3:J:132:LEU:CD1	3:J:136:GLU:HG3	2.26	0.66
3:J:210:SER:O	3:J:214:ARG:N	2.25	0.66
3:J:814:CYS:HB2	3:J:889:ASP:CB	2.22	0.66
4:K:31:GLN:HB2	4:K:46:THR:HG21	1.77	0.66
2:C:560:PRO:CG	3:D:773:PHE:HE2	2.09	0.66
2:C:759:SER:OG	2:C:763:THR:HG23	1.94	0.66
2:C:1212:LEU:HD22	2:C:1225:VAL:HG21	1.77	0.66
2:C:1294:LYS:HD3	3:D:472:LEU:CD1	2.26	0.66
3:D:490:ILE:O	3:D:491:LEU:HD23	1.97	0.66
3:D:514:THR:HG21	3:D:596:LEU:HD23	1.78	0.66
5:F:605:GLU:O	5:F:608:ARG:HB3	1.96	0.66
1:H:67:GLU:OE2	1:H:171:LEU:HB3	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:219:GLN:O	2:I:222:ASP:HB3	1.96	0.66
2:I:296:VAL:CB	2:I:336:LEU:HD12	2.25	0.66
2:I:373:GLY:O	5:L:99:ARG:HG3	1.95	0.66
2:I:560:PRO:HG2	2:I:660:VAL:HG23	1.77	0.66
2:I:696:ASP:OD2	2:I:827:ARG:NH2	2.29	0.66
3:J:287:ALA:HB1	3:J:288:PRO:HD2	1.78	0.66
3:J:810:THR:CG2	3:J:893:GLY:HA3	2.26	0.66
5:L:123:ILE:O	5:L:127:ILE:HG12	1.96	0.66
5:L:559:LEU:O	5:L:562:ARG:N	2.28	0.66
1:B:98:VAL:O	1:B:145:LYS:HG3	1.95	0.65
2:C:98:VAL:HG21	2:C:124:MET:HE2	1.78	0.65
2:C:363:LEU:CD2	2:C:382:GLU:HA	2.26	0.65
2:C:1146:GLN:HG3	2:C:1160:ASP:OD1	1.96	0.65
2:C:1204:LEU:HB3	2:C:1205:PRO:HD2	1.78	0.65
2:C:1285:TYR:HE1	3:D:1361:THR:HG21	1.59	0.65
3:D:520:ALA:HB1	3:D:543:SER:HB3	1.77	0.65
3:D:1167:LYS:NZ	3:D:1168:GLU:O	2.20	0.65
5:F:372:ALA:O	5:F:376:LYS:HG3	1.96	0.65
1:G:45:ARG:HH12	1:H:37:HIS:CB	2.10	0.65
2:I:404:LYS:NZ	2:I:449:GLY:O	2.29	0.65
2:I:1217:THR:OG1	2:I:1219:GLU:HG2	1.95	0.65
3:J:42:GLU:CG	5:L:451:ARG:HG2	2.26	0.65
3:J:268:LEU:HB3	3:J:306:LEU:HD23	1.76	0.65
1:A:56:VAL:HG22	1:A:173:VAL:HG21	1.76	0.65
1:A:104:LYS:HG2	1:A:105:SER:N	2.12	0.65
2:C:5:TYR:C	2:C:7:GLU:N	2.54	0.65
2:C:198:ILE:HG22	2:C:199:ASP:CG	2.22	0.65
2:C:436:ARG:HD2	2:C:436:ARG:O	1.95	0.65
2:C:550:VAL:HG11	3:D:776:THR:HG22	1.77	0.65
2:C:686:GLN:O	2:C:688:GLN:N	2.30	0.65
2:C:817:LEU:HD21	2:C:1085:MET:HE1	1.76	0.65
3:D:58:CYS:SG	3:D:60:ARG:HB3	2.36	0.65
3:D:188:LEU:O	3:D:191:SER:OG	2.13	0.65
3:D:1222:ARG:HG2	3:D:1223:LEU:HD22	1.78	0.65
5:F:595:LEU:HD23	5:F:595:LEU:N	2.10	0.65
2:I:720:ARG:HH21	2:I:741:MET:HG3	1.59	0.65
2:I:1164:PHE:C	2:I:1166:ASP:H	2.04	0.65
2:I:1182:ILE:HG22	2:I:1183:ALA:H	1.61	0.65
3:J:299:LEU:O	3:J:302:ALA:N	2.28	0.65
3:J:490:ILE:HG12	3:J:500:ILE:HG13	1.77	0.65
3:J:584:PRO:HD2	3:J:587:LEU:HD13	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:844:THR:OG1	3:J:860:ARG:O	2.14	0.65
3:J:1163:VAL:HG22	3:J:1175:LEU:HD11	1.78	0.65
5:L:251:LYS:O	5:L:255:VAL:HG23	1.96	0.65
1:B:82:LEU:HA	1:B:85:LEU:HD12	1.77	0.65
1:B:182:ARG:HG3	1:B:182:ARG:HH11	1.60	0.65
2:C:563:THR:HG23	2:C:564:PRO:O	1.96	0.65
2:C:1332:SER:HA	3:D:243:PRO:HG2	1.79	0.65
3:D:599:LYS:HD2	3:D:600:ALA:N	2.12	0.65
3:D:824:PRO:HD3	3:D:835:LEU:HD22	1.77	0.65
1:G:165:GLU:OE2	1:G:172:LEU:HD11	1.96	0.65
1:H:38:THR:HG23	1:H:39:LEU:HG	1.78	0.65
2:I:1144:PHE:HE1	2:I:1201:LEU:HD11	1.61	0.65
3:J:755:ILE:HD12	3:J:774:ILE:HG21	1.76	0.65
3:J:1262:ARG:HG3	3:J:1281:GLU:CD	2.21	0.65
5:L:277:MET:HE1	5:L:359:LYS:HD3	1.78	0.65
5:L:482:GLU:O	5:L:485:GLU:HB3	1.95	0.65
1:A:38:THR:HG22	1:A:39:LEU:HD23	1.79	0.65
1:A:207:THR:CG2	1:A:209:GLY:H	2.07	0.65
1:A:218:ARG:HG3	1:B:231:PHE:O	1.95	0.65
1:B:232:VAL:HG12	1:B:233:ASP:H	1.61	0.65
2:C:693:LEU:C	2:C:693:LEU:HD23	2.21	0.65
3:D:473:THR:HG23	3:D:476:ALA:CB	2.27	0.65
3:D:599:LYS:HD2	3:D:600:ALA:HB2	1.78	0.65
3:D:888:CYS:HB2	3:D:898:CYS:CB	2.26	0.65
2:I:755:LYS:O	2:I:757:THR:HG22	1.96	0.65
2:I:943:LYS:O	2:I:946:LEU:N	2.29	0.65
2:I:1158:LYS:O	2:I:1159:VAL:HG13	1.96	0.65
3:J:645:VAL:O	3:J:741:ALA:HB1	1.96	0.65
3:J:827:GLU:OE1	3:J:832:LYS:HD2	1.96	0.65
2:C:1125:GLY:CA	2:C:1179:GLY:HA2	2.26	0.65
2:C:1278:LEU:HD12	2:C:1287:LEU:CB	2.25	0.65
3:D:26:SER:HB3	3:D:29:MET:HB3	1.78	0.65
3:D:514:THR:CG2	3:D:596:LEU:HD23	2.26	0.65
3:D:515:ARG:CZ	3:D:719:PHE:HE2	2.09	0.65
1:G:28:LEU:CD2	1:H:231:PHE:HE1	2.09	0.65
2:I:106:GLU:OE1	2:I:114:VAL:HG22	1.97	0.65
3:J:94:GLN:O	3:J:97:VAL:HG23	1.97	0.65
3:J:146:VAL:HA	3:J:178:ALA:CB	2.26	0.65
3:J:514:THR:OG1	3:J:596:LEU:HD23	1.97	0.65
3:J:644:MET:CB	3:J:764:ARG:HG3	2.26	0.65
3:J:1159:ILE:HG22	3:J:1177:ILE:HD12	1.76	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:91:THR:HB	2:C:138:ILE:O	1.96	0.65
2:C:933:VAL:CG2	2:C:1050:VAL:HG12	2.27	0.65
2:C:1287:LEU:HD21	3:D:1351:VAL:HG22	1.77	0.65
3:D:516:ASP:HA	3:D:545:HIS:HB2	1.78	0.65
3:D:660:GLU:O	3:D:664:ILE:HG12	1.95	0.65
3:D:1282:TYR:HB3	3:D:1286:LYS:HE3	1.77	0.65
4:E:50:ALA:O	4:E:54:ILE:HG12	1.97	0.65
5:F:137:TYR:HB3	5:F:140:ALA:CB	2.27	0.65
5:F:418:LYS:O	5:F:430:TYR:HE2	1.78	0.65
5:F:545:HIS:ND1	5:F:545:HIS:O	2.26	0.65
2:I:620:ASN:O	2:I:620:ASN:ND2	2.30	0.65
2:I:842:ASP:HB2	2:I:1047:LEU:HD21	1.79	0.65
2:I:971:LEU:HD11	2:I:1014:LEU:O	1.96	0.65
2:I:1274:GLU:N	2:I:1274:GLU:OE1	2.29	0.65
3:J:127:LEU:O	3:J:127:LEU:HD12	1.96	0.65
3:J:573:THR:OG1	3:J:574:VAL:N	2.25	0.65
3:J:800:LEU:O	3:J:803:VAL:N	2.23	0.65
4:K:42:GLU:C	4:K:44:ASP:H	2.05	0.65
5:L:223:GLU:OE2	5:L:258:GLN:NE2	2.29	0.65
5:L:540:LEU:HD13	5:L:607:LEU:CG	2.21	0.65
1:A:152:TYR:HE2	1:A:154:PRO:CB	2.07	0.65
1:A:152:TYR:CE2	1:A:154:PRO:HB3	2.26	0.65
1:B:255:ARG:HH11	1:B:255:ARG:HG3	1.60	0.65
2:C:49:LEU:HD12	2:C:73:TYR:CE2	2.32	0.65
2:C:216:THR:HG23	2:C:219:GLN:OE1	1.96	0.65
2:C:360:LEU:HD13	2:C:378:ARG:NH2	2.10	0.65
2:C:971:LEU:HD22	2:C:1018:TYR:HD1	1.60	0.65
2:C:1116:HIS:HE1	3:D:641:ILE:H	1.45	0.65
3:D:148:GLU:H	3:D:156:ARG:HG3	1.60	0.65
3:D:620:PHE:CE2	3:D:624:ILE:HD11	2.32	0.65
1:G:41:ASN:ND2	2:I:1216:ARG:O	2.30	0.65
2:I:806:PRO:HD3	2:I:1100:PRO:HG2	1.78	0.65
2:I:1030:GLU:OE2	2:I:1034:ARG:NH2	2.29	0.65
2:I:1160:ASP:OD2	2:I:1163:THR:OG1	2.15	0.65
2:I:1293:VAL:HG13	2:I:1301:ARG:CA	2.26	0.65
5:L:134:VAL:HG21	5:L:266:PHE:HE1	1.60	0.65
2:C:674:ASP:OD2	2:C:1070:HIS:ND1	2.28	0.65
2:C:685:MET:SD	2:C:1073:LYS:HG3	2.37	0.65
2:C:1120:ALA:HB2	2:C:1199:LEU:CD2	2.25	0.65
2:C:1161:LEU:HD11	2:C:1163:THR:O	1.97	0.65
3:D:1167:LYS:HD3	3:D:1174:ARG:HD2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:44:ARG:HG3	1:G:183:ILE:HG22	1.78	0.65
1:G:61:ILE:HG23	1:G:142:MET:HE2	1.79	0.65
1:G:124:VAL:CB	1:G:210:THR:HG22	2.27	0.65
1:G:187:VAL:HG12	1:G:201:LEU:HD13	1.78	0.65
2:I:310:ILE:HG21	2:I:325:LEU:HD23	1.77	0.65
2:I:944:ARG:NE	2:I:948:ILE:HD11	2.08	0.65
2:I:1008:GLN:OE1	2:I:1011:LEU:HD12	1.95	0.65
2:I:1043:ALA:HB1	2:I:1044:PRO:HD2	1.79	0.65
2:I:1128:ILE:HD12	2:I:1176:LEU:HB3	1.78	0.65
2:I:1131:MET:HB3	2:I:1141:LEU:CD1	2.20	0.65
3:J:1368:ASP:OD1	3:J:1372:ARG:NH2	2.30	0.65
4:K:14:GLY:C	4:K:16:ARG:H	2.05	0.65
5:L:120:ALA:HB1	5:L:421:TYR:HB3	1.79	0.65
5:L:121:LYS:O	5:L:124:GLU:N	2.29	0.65
5:L:140:ALA:O	5:L:143:TYR:HB3	1.96	0.65
5:L:343:LYS:HG3	5:L:346:GLN:OE1	1.96	0.65
1:B:41:ASN:HA	1:B:44:ARG:HG3	1.79	0.65
2:C:91:THR:HG21	2:C:503:LYS:HE3	1.79	0.65
2:C:434:ASP:O	2:C:439:LYS:HG2	1.96	0.65
2:C:944:ARG:HG3	2:C:944:ARG:O	1.96	0.65
3:D:1184:ASP:N	3:D:1185:PRO:HD3	2.11	0.65
1:G:17:GLU:O	1:G:25:LYS:N	2.19	0.65
2:I:198:ILE:HD12	2:I:369:MET:CE	2.26	0.65
2:I:344:GLY:HA3	2:I:346:TYR:CD1	2.31	0.65
2:I:421:SER:O	2:I:424:ASP:N	2.30	0.65
2:I:732:ILE:HD12	2:I:753:LEU:HD21	1.79	0.65
3:J:497:GLU:HB3	3:J:498:PRO:HD2	1.77	0.65
3:J:1156:LEU:HA	3:J:1210:ILE:HG12	1.79	0.65
4:K:26:ARG:NH1	4:K:29:GLN:OE1	2.30	0.65
1:A:57:THR:HG22	1:A:58:GLU:CG	2.26	0.65
1:A:179:PRO:HB3	1:A:208:ASN:HD21	1.61	0.65
2:C:5:TYR:HD1	2:C:8:LYS:HD3	1.62	0.65
2:C:384:LEU:HG	2:C:385:PHE:N	2.12	0.65
2:C:557:ARG:NH2	2:C:608:ALA:HA	2.09	0.65
2:C:854:ILE:HG23	2:C:855:PRO:HD2	1.77	0.65
2:C:1326:LEU:HD21	8:D:2004:4C4:C12	2.26	0.65
3:D:544:LEU:HD13	3:D:575:GLY:CA	2.27	0.65
3:D:684:ASP:O	3:D:687:ALA:HB3	1.96	0.65
3:D:1319:PHE:CD1	3:D:1319:PHE:C	2.75	0.65
5:F:235:ILE:HG23	5:F:242:HIS:NE2	2.12	0.65
5:F:266:PHE:O	5:F:270:VAL:HG23	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:440:THR:HG23	5:F:441:ARG:N	2.11	0.65
5:F:487:MET:HB3	5:F:489:MET:H	1.61	0.65
1:H:22:THR:O	1:H:207:THR:OG1	2.15	0.65
2:I:62:TYR:CZ	2:I:476:LYS:HB3	2.31	0.65
2:I:62:TYR:C	2:I:64:GLY:H	2.04	0.65
2:I:164:THR:HG21	2:I:171:LEU:HG	1.78	0.65
2:I:1250:SER:HB3	2:I:1259:LEU:O	1.97	0.65
3:J:352:ARG:HB2	3:J:467:ALA:HA	1.78	0.65
3:J:416:ILE:HG13	3:J:439:PRO:HG2	1.79	0.65
5:L:328:GLU:OE1	5:L:331:HIS:NE2	2.29	0.65
5:L:387:VAL:HG11	5:L:408:GLY:CA	2.26	0.65
1:A:176:CYS:O	1:A:178:SER:N	2.30	0.64
1:B:22:THR:OG1	1:B:207:THR:O	2.14	0.64
2:C:310:ILE:HD13	2:C:325:LEU:HB3	1.79	0.64
3:D:123:ARG:NH1	3:D:1334:GLU:HG3	2.12	0.64
3:D:235:GLU:OE2	3:D:235:GLU:N	2.27	0.64
3:D:530:PRO:O	3:D:533:ALA:N	2.29	0.64
1:G:77:ASP:OD2	2:I:755:LYS:HE3	1.97	0.64
2:I:331:LYS:HB2	2:I:332:ARG:NH2	2.11	0.64
3:J:623:GLN:O	3:J:627:THR:HG22	1.97	0.64
1:A:107:ILE:HG23	1:A:134:THR:HA	1.78	0.64
1:A:112:ALA:HB2	1:A:130:ILE:HD11	1.80	0.64
2:C:338:THR:HG21	2:C:345:PRO:HB3	1.79	0.64
2:C:478:ARG:NH1	2:C:482:GLY:HA2	2.13	0.64
2:C:964:LEU:O	2:C:967:LEU:N	2.29	0.64
2:C:1002:LEU:HG	2:C:1003:THR:N	2.12	0.64
2:C:1142:ARG:CZ	2:C:1161:LEU:HD22	2.27	0.64
3:D:504:GLN:HG3	3:D:505:ASP:H	1.63	0.64
3:D:661:VAL:HG12	3:D:685:ILE:HD11	1.80	0.64
1:H:9:LEU:CB	1:H:32:GLU:HG2	2.26	0.64
1:H:115:ILE:HG22	1:H:116:THR:N	2.11	0.64
2:I:301:TYR:CE2	2:I:333:ILE:HG23	2.31	0.64
2:I:629:PHE:CD2	2:I:634:VAL:HG11	2.32	0.64
3:J:194:LEU:HD22	3:J:224:LEU:HD21	1.79	0.64
3:J:614:LEU:HB3	3:J:615:LYS:NZ	2.11	0.64
1:B:69:SER:O	1:B:78:ILE:HG13	1.98	0.64
1:B:182:ARG:NH1	1:B:182:ARG:HG3	2.12	0.64
1:B:197:ASP:C	1:B:198:LEU:HD22	2.21	0.64
2:C:898:GLU:OE1	2:C:898:GLU:N	2.19	0.64
2:C:1305:TYR:HE2	5:F:532:LEU:CA	2.11	0.64
2:C:1331:ARG:HD3	3:D:33:TRP:CE2	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:803:VAL:HG23	3:D:1313:SER:CA	2.27	0.64
3:D:1174:ARG:HA	3:D:1188:GLU:O	1.97	0.64
5:F:311:THR:HG22	5:F:344:LEU:HG	1.80	0.64
1:H:67:GLU:C	1:H:78:ILE:HD13	2.22	0.64
1:H:88:LEU:HD12	1:H:89:ALA:H	1.62	0.64
2:I:175:ARG:HG2	2:I:177:ILE:HG13	1.80	0.64
2:I:176:ILE:N	2:I:184:LEU:O	2.30	0.64
2:I:989:LEU:HD13	2:I:1000:LEU:CD1	2.26	0.64
3:J:295:GLU:OE1	5:L:406:GLN:HG2	1.98	0.64
5:L:525:ASP:OD1	5:L:526:THR:N	2.30	0.64
1:B:136:GLU:CD	1:B:137:ASN:H	2.06	0.64
2:C:219:GLN:O	2:C:222:ASP:HB3	1.97	0.64
2:C:1076:ILE:C	2:C:1076:ILE:HD12	2.23	0.64
3:D:342:LEU:O	3:D:343:LEU:C	2.41	0.64
3:D:528:THR:CG2	3:D:532:GLU:HB3	2.28	0.64
3:D:574:VAL:O	3:D:578:ILE:HG13	1.97	0.64
3:D:811:GLU:OE1	3:D:890:THR:OG1	2.13	0.64
2:I:1329:GLU:O	2:I:1332:SER:OG	2.11	0.64
3:J:171:GLU:HB3	3:J:172:PHE:CD2	2.32	0.64
3:J:260:PHE:CB	5:L:504:PRO:CG	2.76	0.64
3:J:366:CYS:HB3	3:J:437:PHE:HD1	1.59	0.64
3:J:746:LEU:HG	3:J:758:PRO:CG	2.27	0.64
3:J:825:VAL:HG11	3:J:833:GLU:HB3	1.80	0.64
5:L:124:GLU:HG2	5:L:128:ASN:ND2	2.12	0.64
1:A:207:THR:HG22	1:A:208:ASN:N	2.12	0.64
1:B:99:ILE:HA	1:B:144:ILE:O	1.97	0.64
1:B:289:LEU:CD2	1:B:295:LEU:HD11	2.27	0.64
2:C:82:VAL:HG22	2:C:92:TYR:CD1	2.33	0.64
2:C:180:ARG:NH2	2:C:465:ARG:HH12	1.95	0.64
2:C:569:ILE:C	2:C:571:LEU:H	2.03	0.64
2:C:878:THR:HA	2:C:925:SER:CB	2.28	0.64
3:D:460:ASP:O	3:D:461:PHE:HD2	1.80	0.64
3:D:697:MET:HG3	3:D:698:MET:N	2.11	0.64
3:D:1318:SER:OG	3:D:1342:ASP:OD2	2.10	0.64
1:H:15:ASP:O	1:H:26:VAL:HG13	1.97	0.64
1:H:226:GLU:OE1	1:H:226:GLU:HA	1.98	0.64
2:I:71:VAL:HB	2:I:99:LYS:HB2	1.79	0.64
2:I:269:ILE:N	2:I:269:ILE:HD12	2.13	0.64
2:I:1281:TYR:CE2	3:J:431:ARG:HB2	2.31	0.64
3:J:263:SER:HB2	5:L:507:MET:HE2	1.79	0.64
3:J:1199:PHE:HB2	3:J:1202:GLU:HB2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1280:VAL:HG21	3:J:1304:ARG:NE	2.12	0.64
5:L:355:ILE:HA	5:L:358:VAL:HG22	1.78	0.64
5:L:456:MET:O	5:L:459:THR:OG1	2.16	0.64
1:B:262:LEU:HD12	1:B:262:LEU:H	1.62	0.64
3:D:474:LEU:HD12	3:D:477:GLN:HE21	1.62	0.64
3:D:888:CYS:HB2	3:D:898:CYS:HB3	1.79	0.64
5:F:494:ILE:O	5:F:497:VAL:N	2.29	0.64
1:G:43:LEU:HD13	1:G:203:ILE:CD1	2.27	0.64
1:G:88:LEU:CD1	1:G:125:LYS:HG3	2.28	0.64
1:G:187:VAL:CG1	1:G:201:LEU:HD22	2.28	0.64
2:I:301:TYR:OH	2:I:333:ILE:HA	1.97	0.64
2:I:551:HIS:ND1	2:I:553:THR:OG1	2.30	0.64
2:I:700:VAL:CG1	2:I:1114:GLU:HG3	2.19	0.64
3:J:85:CYS:HB3	3:J:88:CYS:O	1.98	0.64
3:J:526:VAL:HA	3:J:549:LYS:O	1.97	0.64
3:J:835:LEU:HA	3:J:838:ARG:HG3	1.79	0.64
3:J:1322:ALA:HA	3:J:1325:PHE:CD2	2.32	0.64
1:A:159:ILE:HG13	1:A:162:GLU:HB2	1.80	0.64
1:A:223:ILE:HD11	1:B:8:PHE:HE2	1.62	0.64
3:D:184:ALA:O	3:D:188:LEU:N	2.25	0.64
3:D:194:LEU:CD1	3:D:228:VAL:HG22	2.28	0.64
3:D:210:SER:O	3:D:213:LYS:HB2	1.98	0.64
3:D:598:LYS:HA	3:D:601:ILE:CG2	2.27	0.64
3:D:826:ILE:HA	3:D:831:VAL:HA	1.79	0.64
3:D:1171:GLY:HA2	3:D:1193:TRP:HH2	1.62	0.64
3:D:1252:HIS:C	3:D:1255:VAL:HG13	2.23	0.64
1:H:134:THR:OG1	1:H:135:ASP:OD1	2.15	0.64
2:I:57:PHE:CD1	2:I:70:TYR:HB2	2.33	0.64
2:I:83:GLN:O	2:I:87:ILE:HG13	1.98	0.64
2:I:151:ARG:NE	2:I:445:ILE:HD11	2.12	0.64
2:I:296:VAL:O	2:I:335:THR:HA	1.98	0.64
2:I:385:PHE:CE2	2:I:390:PHE:CE2	2.85	0.64
2:I:499:SER:O	2:I:503:LYS:HB2	1.98	0.64
2:I:615:VAL:HA	2:I:638:SER:OG	1.97	0.64
2:I:1292:THR:HG22	2:I:1293:VAL:N	2.11	0.64
3:J:392:THR:HG21	5:L:606:VAL:HG21	1.78	0.64
3:J:915:ILE:HA	3:J:918:ILE:HG23	1.79	0.64
3:J:1155:ILE:O	3:J:1210:ILE:HG12	1.96	0.64
4:K:71:GLU:HA	4:K:74:GLU:HG3	1.78	0.64
2:C:296:VAL:HG13	2:C:315:MET:O	1.97	0.64
2:C:665:ALA:C	2:C:667:LEU:H	2.06	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1160:ASP:HB2	2:C:1161:LEU:HD12	1.80	0.64
3:D:107:LEU:HD12	3:D:240:THR:O	1.98	0.64
3:D:153:ASN:HB2	3:D:172:PHE:CZ	2.33	0.64
3:D:511:TYR:C	3:D:511:TYR:CD1	2.76	0.64
3:D:1156:LEU:HD12	3:D:1209:VAL:HA	1.79	0.64
3:D:1197:ASN:HB2	3:D:1212:ASP:OD2	1.98	0.64
4:E:52:ARG:O	4:E:56:GLU:HG2	1.97	0.64
5:F:505:ILE:HD12	5:F:506:SER:N	2.13	0.64
2:I:26:TYR:OH	2:I:28:LEU:HD12	1.98	0.64
2:I:698:PRO:HB3	2:I:1231:TYR:CD2	2.31	0.64
2:I:745:GLU:H	2:I:1017:GLN:HG3	1.62	0.64
2:I:870:ILE:CG1	2:I:1050:VAL:HG11	2.27	0.64
2:I:870:ILE:HG12	2:I:1050:VAL:HG11	1.80	0.64
2:I:920:VAL:HG13	2:I:921:PRO:HD2	1.80	0.64
2:I:1329:GLU:HA	3:J:245:LEU:HD11	1.78	0.64
3:J:71:LEU:HB3	3:J:88:CYS:SG	2.37	0.64
3:J:343:LEU:O	3:J:343:LEU:HD23	1.97	0.64
3:J:1167:LYS:CB	3:J:1174:ARG:HD3	2.28	0.64
5:L:558:VAL:HG11	5:L:590:ILE:CG2	2.28	0.64
2:C:217:THR:HG23	2:C:351:LEU:HD22	1.80	0.64
3:D:201:LEU:HA	3:D:204:GLU:OE2	1.98	0.64
3:D:849:LEU:HA	3:D:855:ASP:O	1.98	0.64
3:D:1160:SER:H	3:D:1206:ARG:HB3	1.62	0.64
3:D:1199:PHE:HB2	3:D:1202:GLU:CB	2.28	0.64
5:F:242:HIS:C	5:F:246:GLN:HB2	2.22	0.64
5:F:361:ILE:HG13	5:F:362:ASN:N	2.13	0.64
2:I:242:VAL:O	2:I:245:ARG:HB2	1.98	0.64
2:I:436:ARG:O	2:I:436:ARG:HD2	1.97	0.64
2:I:572:ILE:O	2:I:573:ASN:HB2	1.97	0.64
2:I:582:ASN:HD22	2:I:586:PHE:HB2	1.62	0.64
2:I:857:VAL:HG21	2:I:862:LEU:HD21	1.79	0.64
2:I:1233:LEU:HD22	2:I:1233:LEU:N	2.13	0.64
3:J:93:THR:HG22	3:J:94:GLN:H	1.62	0.64
3:J:668:PHE:HA	3:J:673:VAL:CG2	2.28	0.64
3:J:890:THR:OG1	3:J:895:CYS:HB3	1.98	0.64
1:A:233:ASP:O	1:A:234:LEU:HG	1.97	0.64
2:C:870:ILE:HG22	2:C:944:ARG:HD3	1.80	0.64
2:C:901:LEU:HB2	5:F:563:PHE:HD2	1.62	0.64
2:C:1106:ARG:O	2:C:1108:ASN:ND2	2.31	0.64
2:C:1192:GLU:HA	2:C:1195:ILE:CD1	2.26	0.64
3:D:140:TYR:HB3	5:F:100:MET:SD	2.38	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:193:ASP:HB3	3:D:196:GLN:HG2	1.80	0.64
5:F:394:TYR:CG	5:F:439:ILE:HD11	2.32	0.64
5:F:539:SER:OG	5:F:607:LEU:HD11	1.98	0.64
1:G:43:LEU:HD13	1:G:203:ILE:HD11	1.80	0.64
2:I:262:TYR:CZ	2:I:282:VAL:HG21	2.33	0.64
2:I:388:LEU:HB3	2:I:389:PHE:CE2	2.33	0.64
2:I:593:LYS:HE3	2:I:595:THR:HG22	1.79	0.64
2:I:915:ASP:OD1	2:I:917:SER:OG	2.12	0.64
2:I:1285:TYR:HB2	3:J:479:GLU:CD	2.22	0.64
3:J:221:ILE:O	3:J:225:GLU:HG2	1.97	0.64
3:J:674:THR:OG1	3:J:677:GLU:HB2	1.98	0.64
4:K:14:GLY:O	4:K:16:ARG:N	2.31	0.64
5:L:427:PHE:CE1	5:L:431:ALA:HB2	2.33	0.64
1:B:154:PRO:C	1:B:174:ASP:HA	2.24	0.63
2:C:70:TYR:CZ	2:C:72:SER:HA	2.33	0.63
2:C:180:ARG:CZ	2:C:465:ARG:HH12	2.11	0.63
2:C:228:VAL:HB	2:C:335:THR:OG1	1.98	0.63
2:C:1017:GLN:O	2:C:1021:LEU:HG	1.96	0.63
2:C:1142:ARG:HH22	2:C:1165:SER:HB2	1.63	0.63
2:C:1284:ALA:HB2	3:D:1361:THR:CB	2.24	0.63
2:C:1305:TYR:CD2	5:F:531:PRO:HB3	2.33	0.63
3:D:190:LYS:CA	3:D:235:GLU:HG3	2.28	0.63
3:D:591:ILE:HG13	3:D:604:MET:HE2	1.80	0.63
5:F:279:ARG:HH22	5:F:350:GLU:CD	2.05	0.63
5:F:279:ARG:O	5:F:282:THR:HB	1.98	0.63
1:H:158:ARG:NH2	1:H:177:TYR:OH	2.31	0.63
2:I:802:VAL:CG2	2:I:1098:LEU:HD13	2.28	0.63
3:J:183:GLU:O	3:J:187:ALA:N	2.20	0.63
3:J:506:VAL:O	3:J:509:GLY:N	2.31	0.63
3:J:670:SER:HB2	3:J:672:LEU:CD1	2.27	0.63
5:L:358:VAL:HA	5:L:361:ILE:HD11	1.80	0.63
1:B:19:VAL:O	1:B:23:HIS:HB3	1.97	0.63
1:B:54:CYS:HB2	1:B:90:VAL:HB	1.79	0.63
1:B:205:MET:HG2	1:B:206:GLU:N	2.12	0.63
2:C:704:MET:O	2:C:707:ALA:N	2.31	0.63
2:C:1051:LYS:HB3	2:C:1053:TYR:HE1	1.62	0.63
2:C:1113:LEU:CG	3:D:641:ILE:HD11	2.27	0.63
2:C:1255:THR:HG22	2:C:1257:GLN:HG3	1.81	0.63
3:D:527:LEU:HB3	3:D:532:GLU:HG2	1.81	0.63
3:D:1145:PHE:O	3:D:1309:ILE:HG12	1.98	0.63
3:D:1193:TRP:HB2	3:D:1194:ARG:NH1	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:32:GLU:HB2	1:G:35:PHE:HD2	1.63	0.63
1:H:76:GLU:CG	1:H:80:GLU:HG2	2.28	0.63
2:I:131:THR:OG1	2:I:135:THR:O	2.14	0.63
3:J:627:THR:HG23	3:J:628:GLY:N	2.13	0.63
3:J:644:MET:HB3	3:J:764:ARG:HG3	1.80	0.63
2:C:209:ILE:CA	2:C:212:ALA:HB3	2.29	0.63
2:C:971:LEU:HD11	2:C:1018:TYR:HB2	1.80	0.63
3:D:171:GLU:HB3	3:D:172:PHE:CE2	2.33	0.63
3:D:193:ASP:HB3	3:D:196:GLN:HG3	1.80	0.63
3:D:902:ASP:O	3:D:903:LEU:HD22	1.98	0.63
3:D:1229:VAL:O	3:D:1232:TYR:N	2.30	0.63
5:F:304:THR:HG22	5:F:305:LEU:HD12	1.80	0.63
1:H:86:LYS:CD	1:H:174:ASP:HB2	2.28	0.63
2:I:884:VAL:CG1	2:I:1050:VAL:HG21	2.20	0.63
2:I:1172:LEU:O	2:I:1176:LEU:HG	1.97	0.63
2:I:1313:HIS:HB2	3:J:474:LEU:HD22	1.79	0.63
2:I:1322:SER:OG	2:I:1323:PHE:N	2.29	0.63
3:J:325:LYS:HE3	3:J:330:MET:CG	2.21	0.63
3:J:336:GLY:O	3:J:338:PHE:N	2.27	0.63
3:J:513:MET:CE	3:J:579:LEU:HD13	2.25	0.63
3:J:615:LYS:HE2	3:J:616:PRO:HD3	1.81	0.63
3:J:1253:ILE:O	3:J:1257:VAL:HG23	1.99	0.63
3:J:1284:ARG:NH1	3:J:1284:ARG:O	2.32	0.63
5:L:387:VAL:HA	5:L:390:ILE:HD12	1.79	0.63
1:B:190:ALA:O	1:B:198:LEU:HB2	1.97	0.63
2:C:887:VAL:HB	2:C:913:VAL:CG2	2.29	0.63
2:C:980:VAL:HA	2:C:984:VAL:HA	1.80	0.63
2:C:994:ARG:HD2	2:C:997:TRP:CH2	2.33	0.63
2:C:1201:LEU:HD12	2:C:1201:LEU:O	1.98	0.63
3:D:450:HIS:HE1	3:D:452:LEU:HD12	1.63	0.63
3:D:491:LEU:HB2	3:D:904:ALA:O	1.98	0.63
2:I:38:PHE:HB2	2:I:457:GLY:HA2	1.80	0.63
2:I:421:SER:H	2:I:424:ASP:HB2	1.63	0.63
2:I:746:ALA:HB2	2:I:974:ARG:NE	2.11	0.63
2:I:1120:ALA:HB2	2:I:1199:LEU:HD23	1.79	0.63
2:I:1120:ALA:O	2:I:1124:ILE:HG12	1.98	0.63
3:J:58:CYS:SG	3:J:60:ARG:HB3	2.39	0.63
3:J:357:VAL:HG22	3:J:461:PHE:CE1	2.33	0.63
4:K:24:ALA:O	4:K:27:ALA:N	2.31	0.63
1:B:102:LEU:HD21	1:B:114:ASP:O	1.99	0.63
1:B:134:THR:OG1	1:B:135:ASP:N	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:516:ASP:OD1	2:C:761:GLN:NE2	2.31	0.63
2:C:756:TYR:HD1	2:C:756:TYR:N	1.86	0.63
2:C:810:TYR:CE1	2:C:1078:LYS:CD	2.79	0.63
2:C:971:LEU:HD13	2:C:1018:TYR:HB2	1.79	0.63
2:C:1101:LEU:O	3:D:731:ARG:HD3	1.99	0.63
3:D:291:ILE:HD11	5:F:409:ASN:HB3	1.80	0.63
3:D:307:LEU:O	3:D:328:ALA:HB2	1.99	0.63
3:D:425:ARG:HG2	3:D:426:ALA:N	2.07	0.63
3:D:703:THR:O	3:D:705:THR:N	2.30	0.63
3:D:805:GLN:HG2	3:D:806:ASP:OD2	1.98	0.63
2:I:157:PHE:N	2:I:443:ASP:OD2	2.26	0.63
2:I:1043:ALA:HB1	2:I:1044:PRO:CD	2.28	0.63
3:J:511:TYR:CD1	3:J:511:TYR:C	2.76	0.63
1:B:78:ILE:HG22	1:B:79:LEU:N	2.13	0.63
2:C:131:THR:OG1	2:C:135:THR:O	2.12	0.63
2:C:1192:GLU:OE2	3:D:764:ARG:NH1	2.23	0.63
3:D:799:ARG:O	3:D:802:ASP:HB2	1.99	0.63
3:D:1183:SER:CA	3:J:206:ASN:HD21	2.11	0.63
2:I:318:SER:O	2:I:321:LEU:HB2	1.96	0.63
2:I:445:ILE:HG22	2:I:446:ASP:OD1	1.99	0.63
2:I:1331:ARG:HG2	3:J:33:TRP:CZ3	2.34	0.63
3:J:106:GLU:CD	3:J:241:VAL:HG13	2.23	0.63
3:J:210:SER:HB2	3:J:213:LYS:CG	2.29	0.63
3:J:355:ILE:HG22	3:J:447:ILE:HB	1.80	0.63
3:J:661:VAL:O	3:J:665:GLN:N	2.20	0.63
3:J:664:ILE:HA	3:J:667:GLN:OE1	1.98	0.63
3:J:678:ARG:CG	3:J:679:TYR:N	2.60	0.63
3:J:691:ASP:HA	3:J:694:SER:HB3	1.80	0.63
3:J:1234:VAL:CA	3:J:1237:VAL:HG12	2.27	0.63
5:L:227:GLN:CB	5:L:255:VAL:HG21	2.28	0.63
5:L:240:ARG:CB	5:L:244:THR:HB	2.25	0.63
5:L:404:LEU:HD12	5:L:404:LEU:H	1.64	0.63
5:L:497:VAL:HG12	5:L:498:LEU:N	2.13	0.63
1:A:169:GLY:O	1:A:171:LEU:HD22	1.99	0.63
1:B:60:GLU:C	1:B:61:ILE:HD13	2.24	0.63
2:C:468:LEU:O	2:C:471:VAL:N	2.31	0.63
2:C:699:LEU:HG	2:C:799:ASN:OD1	1.99	0.63
2:C:756:TYR:HE1	2:C:766:ASN:ND2	1.96	0.63
2:C:848:GLU:CD	2:C:888:THR:HG22	2.24	0.63
2:C:856:ASN:ND2	5:F:609:SER:O	2.29	0.63
2:C:890:LYS:H	2:C:913:VAL:HA	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:901:LEU:CD1	2:C:905:ILE:HD11	2.28	0.63
2:C:921:PRO:HB2	2:C:924:VAL:CG2	2.28	0.63
3:D:45:ASN:OD1	3:D:47:ARG:N	2.31	0.63
3:D:62:PHE:CD2	3:D:247:PRO:CG	2.81	0.63
3:D:197:GLU:O	3:D:201:LEU:HG	1.99	0.63
3:D:351:GLY:O	3:D:352:ARG:HB3	1.98	0.63
3:D:369:PRO:HG3	3:D:446:ALA:O	1.99	0.63
3:D:1372:ARG:HE	3:J:854:ALA:CB	2.11	0.63
4:E:19:LEU:HD12	4:E:19:LEU:O	1.99	0.63
1:G:91:ARG:HD3	1:G:210:THR:O	1.98	0.63
1:H:57:THR:CG2	1:H:158:ARG:HH21	2.11	0.63
2:I:18:ARG:N	2:I:1188:ASP:OD2	2.28	0.63
2:I:529:ARG:O	2:I:530:ILE:HG12	1.98	0.63
2:I:629:PHE:CZ	2:I:650:VAL:HG21	2.34	0.63
2:I:794:LEU:HG	2:I:796:LEU:HD11	1.81	0.63
2:I:871:VAL:C	2:I:944:ARG:HH12	2.06	0.63
2:I:1287:LEU:O	2:I:1290:MET:N	2.31	0.63
3:J:278:ARG:HA	3:J:281:ARG:NH1	2.13	0.63
3:J:834:PRO:O	3:J:838:ARG:HG2	1.99	0.63
3:J:1167:LYS:CB	3:J:1174:ARG:HH11	2.12	0.63
3:J:1206:ARG:NH2	3:J:1223:LEU:O	2.31	0.63
5:L:242:HIS:C	5:L:246:GLN:HB2	2.24	0.63
1:A:9:LEU:HB2	1:A:32:GLU:HG2	1.80	0.63
2:C:155:VAL:HG23	2:C:175:ARG:O	1.98	0.63
2:C:277:LEU:HA	2:C:280:ASP:HB2	1.80	0.63
2:C:806:PRO:HD3	2:C:1100:PRO:HG2	1.81	0.63
2:C:817:LEU:HD21	2:C:1085:MET:CE	2.28	0.63
2:C:971:LEU:HD23	2:C:972:PHE:N	2.14	0.63
3:D:74:LYS:HB3	3:D:75:TYR:CD1	2.34	0.63
3:D:718:SER:OG	3:D:719:PHE:N	2.31	0.63
5:F:281:ARG:CZ	5:F:281:ARG:HB2	2.29	0.63
5:F:345:GLN:O	5:F:349:GLU:HG3	1.98	0.63
1:G:18:GLN:HA	1:G:24:ALA:CB	2.29	0.63
1:H:47:LEU:O	1:H:180:VAL:HG21	1.98	0.63
3:J:62:PHE:CD1	3:J:247:PRO:HD3	2.34	0.63
3:J:101:ARG:O	3:J:246:PRO:HG3	1.98	0.63
3:J:125:GLY:O	3:J:128:LEU:N	2.31	0.63
3:J:260:PHE:HB2	5:L:504:PRO:HG3	1.78	0.63
3:J:364:HIS:HB3	4:K:4:VAL:HG23	1.80	0.63
5:L:542:ALA:O	5:L:546:ASP:HB2	1.98	0.63
1:B:100:LEU:HG	1:B:116:THR:HG23	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:245:ARG:CZ	2:C:337:PHE:HD2	2.11	0.63
2:C:478:ARG:C	2:C:480:SER:H	2.06	0.63
2:C:478:ARG:O	2:C:481:LEU:HD22	1.99	0.63
2:C:1233:LEU:N	2:C:1233:LEU:HD12	2.14	0.63
3:D:425:ARG:NE	3:D:426:ALA:HB3	2.13	0.63
3:D:527:LEU:HD23	3:D:532:GLU:HG2	1.80	0.63
3:D:537:TYR:C	3:D:539:SER:H	2.05	0.63
3:D:813:ASP:OD1	3:D:883:ARG:NH1	2.31	0.63
2:I:74:ARG:NH1	2:I:121:GLU:OE1	2.32	0.63
2:I:931:VAL:HG22	2:I:1052:VAL:HG13	1.81	0.63
3:J:611:ILE:HG22	3:J:612:LEU:HD12	1.80	0.63
3:J:833:GLU:OE2	3:J:834:PRO:HD2	1.99	0.63
5:L:101:TYR:CE2	5:L:405:ILE:HD11	2.33	0.63
1:A:235:ARG:N	1:A:235:ARG:HD2	2.14	0.62
2:C:325:LEU:HD12	2:C:326:SER:N	2.13	0.62
2:C:670:PHE:CD1	2:C:1184:THR:HG21	2.34	0.62
2:C:718:ALA:HB3	2:C:780:GLY:H	1.64	0.62
2:C:724:VAL:HG11	2:C:727:VAL:HG23	1.80	0.62
2:C:1113:LEU:HD11	3:D:641:ILE:CG1	2.29	0.62
2:C:1122:LYS:HG2	2:C:1229:TYR:CZ	2.33	0.62
3:D:62:PHE:O	3:D:101:ARG:HD2	1.99	0.62
3:D:660:GLU:HB3	3:D:685:ILE:CD1	2.29	0.62
3:D:1163:VAL:HG21	3:D:1175:LEU:HD21	1.81	0.62
5:F:498:LEU:H	5:F:498:LEU:HD22	1.63	0.62
1:G:80:GLU:HG2	1:G:84:ASN:HD21	1.64	0.62
1:H:65:LEU:HD22	1:H:171:LEU:HD21	1.80	0.62
2:I:214:ASN:HB2	2:I:359:ARG:HD2	1.80	0.62
2:I:490:GLN:HE21	5:L:472:GLN:CB	2.12	0.62
2:I:1287:LEU:HD23	2:I:1288:GLN:CA	2.29	0.62
3:J:117:LEU:C	3:J:118:LYS:HG2	2.22	0.62
3:J:435:GLN:HG2	3:J:489:ASN:HD22	1.63	0.62
3:J:511:TYR:HA	3:J:514:THR:HG23	1.80	0.62
3:J:1319:PHE:CE1	3:J:1320:ILE:HG13	2.33	0.62
5:L:265:GLN:O	5:L:268:TYR:HB3	1.98	0.62
1:A:184:ALA:HB2	2:C:1091:GLY:HA3	1.80	0.62
1:B:20:SER:OG	1:B:22:THR:HG22	1.99	0.62
2:C:41:GLN:NE2	2:C:73:TYR:O	2.32	0.62
2:C:70:TYR:HA	2:C:100:LEU:HD23	1.80	0.62
2:C:538:LEU:HD12	2:C:538:LEU:N	2.13	0.62
3:D:80:HIS:CB	3:D:83:VAL:HG11	2.27	0.62
3:D:198:CYS:O	3:D:201:LEU:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1169:THR:O	3:D:1171:GLY:N	2.32	0.62
3:D:1266:ILE:HA	3:D:1302:TYR:HA	1.80	0.62
5:F:102:MET:HE1	5:F:388:ILE:HD13	1.79	0.62
1:H:11:PRO:HG3	1:H:31:LEU:CD1	2.30	0.62
2:I:720:ARG:NH2	2:I:741:MET:HG3	2.13	0.62
2:I:722:GLY:HA2	2:I:737:ASN:OD1	1.99	0.62
2:I:953:LEU:HA	2:I:1036:ILE:HD13	1.79	0.62
2:I:1086:PRO:O	2:I:1094:VAL:HG12	1.99	0.62
2:I:1191:LYS:NZ	2:I:1192:GLU:HB2	2.13	0.62
2:I:1200:LYS:O	2:I:1203:ASP:N	2.22	0.62
2:I:1211:ARG:HB2	2:I:1220:GLN:NE2	2.06	0.62
2:I:1223:ARG:HG3	3:J:635:SER:O	1.99	0.62
2:I:1239:VAL:O	2:I:1242:LYS:N	2.32	0.62
2:I:1305:TYR:OH	5:L:532:LEU:HD23	1.99	0.62
3:J:288:PRO:O	3:J:292:VAL:HG13	1.99	0.62
3:J:624:ILE:C	3:J:627:THR:HG22	2.25	0.62
1:B:179:PRO:HB3	1:B:208:ASN:CG	2.24	0.62
2:C:399:ALA:O	2:C:403:MET:HB2	2.00	0.62
2:C:979:LEU:HD11	2:C:1011:LEU:CD1	2.30	0.62
3:D:118:LYS:O	3:D:120:LEU:N	2.32	0.62
3:D:214:ARG:O	3:D:218:THR:HG22	1.99	0.62
3:D:548:VAL:HG12	3:D:549:LYS:O	2.00	0.62
3:D:882:VAL:HG12	3:D:883:ARG:N	2.13	0.62
3:D:1237:VAL:HG11	3:D:1253:ILE:HD13	1.81	0.62
3:D:1371:ARG:O	3:D:1375:ALA:HB2	1.99	0.62
1:G:23:HIS:HE1	1:G:204:GLU:HG3	1.64	0.62
2:I:687:ARG:C	2:I:689:ALA:H	2.06	0.62
2:I:1131:MET:O	2:I:1135:GLN:N	2.32	0.62
5:L:113:ARG:HA	5:L:116:GLU:CD	2.24	0.62
5:L:295:CYS:SG	5:L:330:LEU:HD23	2.38	0.62
1:B:112:ALA:HA	1:B:115:ILE:CD1	2.30	0.62
2:C:122:VAL:HG23	5:F:472:GLN:HG2	1.81	0.62
2:C:720:ARG:HH21	2:C:741:MET:HA	1.64	0.62
2:C:852:ALA:HB2	2:C:869:GLY:HA2	1.81	0.62
3:D:430:HIS:O	3:D:432:LEU:N	2.33	0.62
3:D:600:ALA:O	3:D:603:LYS:HG2	1.99	0.62
3:D:820:ILE:O	3:D:882:VAL:N	2.31	0.62
3:D:1307:LEU:HD11	3:D:1311:LYS:HG2	1.80	0.62
5:F:240:ARG:HB3	5:F:244:THR:HB	1.82	0.62
2:I:796:LEU:HD12	2:I:796:LEU:N	2.14	0.62
2:I:932:GLN:HB3	2:I:934:PHE:CE2	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:403:ARG:HG3	3:J:403:ARG:NH1	2.12	0.62
3:J:580:TRP:HB2	3:J:589:TYR:CE1	2.34	0.62
5:L:387:VAL:HG22	5:L:435:ILE:HD13	1.80	0.62
1:A:50:SER:CB	1:B:8:PHE:HZ	2.07	0.62
2:C:738:GLU:HA	2:C:741:MET:HE2	1.80	0.62
3:D:60:ARG:HG3	3:D:89:GLY:HA3	1.81	0.62
3:D:580:TRP:HH2	3:D:587:LEU:O	1.81	0.62
3:D:801:VAL:O	3:D:805:GLN:HB2	1.99	0.62
3:D:1160:SER:HB2	3:D:1206:ARG:HG2	1.81	0.62
3:D:1229:VAL:HG13	3:D:1230:THR:H	1.64	0.62
5:F:559:LEU:O	5:F:562:ARG:N	2.33	0.62
1:H:101:THR:HG22	1:H:116:THR:HG21	1.80	0.62
2:I:30:ILE:HD12	2:I:30:ILE:N	2.14	0.62
2:I:245:ARG:HG2	2:I:337:PHE:HE2	1.60	0.62
2:I:901:LEU:O	2:I:905:ILE:HG13	1.98	0.62
2:I:1073:LYS:CB	3:J:462:ASP:HB2	2.30	0.62
2:I:1223:ARG:HB3	2:I:1223:ARG:CZ	2.30	0.62
3:J:492:SER:HB2	3:J:499:ILE:HD13	1.81	0.62
3:J:1313:SER:O	3:J:1315:ALA:N	2.32	0.62
3:J:1319:PHE:C	3:J:1319:PHE:CD1	2.78	0.62
1:A:196:THR:OG1	1:A:197:ASP:N	2.20	0.62
2:C:209:ILE:O	2:C:213:LEU:N	2.33	0.62
2:C:242:VAL:CG2	2:C:245:ARG:HD2	2.29	0.62
2:C:496:LYS:HZ2	2:C:497:PRO:CG	2.01	0.62
2:C:885:GLY:HA2	2:C:917:SER:HB3	1.80	0.62
2:C:927:THR:O	2:C:1054:LEU:HD12	2.00	0.62
2:C:1209:GLN:HB3	2:C:1224:PRO:HB2	1.81	0.62
2:C:1238:LEU:H	2:C:1238:LEU:CD1	1.99	0.62
3:D:426:ALA:CB	3:D:427:PRO:CD	2.77	0.62
3:D:674:THR:HG23	3:D:677:GLU:HB2	1.81	0.62
3:D:864:LEU:N	3:D:864:LEU:HD23	2.14	0.62
3:D:923:ILE:HA	3:D:1248:ILE:CD1	2.29	0.62
5:F:536:THR:O	5:F:539:SER:N	2.32	0.62
2:I:216:THR:H	2:I:219:GLN:HB2	1.63	0.62
2:I:593:LYS:HA	2:I:652:TYR:CD2	2.34	0.62
2:I:892:GLU:HG3	2:I:892:GLU:O	2.00	0.62
3:J:138:VAL:HG11	3:J:145:VAL:CG1	2.29	0.62
1:B:112:ALA:HA	1:B:115:ILE:CG1	2.29	0.62
1:B:146:VAL:HG23	1:B:147:GLN:N	2.15	0.62
2:C:944:ARG:HA	2:C:947:GLU:HG3	1.80	0.62
2:C:985:GLU:HB2	2:C:989:LEU:HB2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:772:TYR:O	3:D:775:SER:HB3	1.98	0.62
5:F:232:ARG:O	5:F:236:LYS:HG3	2.00	0.62
5:F:456:MET:C	5:F:456:MET:HE3	2.23	0.62
5:F:575:GLU:HA	5:F:578:LYS:CG	2.29	0.62
5:F:584:ARG:O	5:F:587:ILE:HG22	2.00	0.62
1:G:182:ARG:O	1:G:183:ILE:HD12	2.00	0.62
2:I:115:LYS:HD3	2:I:116:ASP:N	2.14	0.62
2:I:316:GLU:OE2	2:I:316:GLU:N	2.22	0.62
2:I:395:TYR:HE2	2:I:397:LEU:CD1	2.12	0.62
3:J:111:THR:HG23	3:J:300:GLN:OE1	1.99	0.62
3:J:614:LEU:H	3:J:615:LYS:HZ1	1.48	0.62
3:J:1343:GLU:HG3	3:J:1373:ARG:HH22	1.63	0.62
1:A:45:ARG:HG2	1:B:38:THR:CB	2.28	0.62
2:C:201:ARG:HG2	2:C:201:ARG:NH1	2.12	0.62
2:C:577:VAL:HG23	2:C:661:VAL:O	2.00	0.62
2:C:658:GLN:O	2:C:660:VAL:N	2.32	0.62
3:D:130:MET:HE2	3:D:135:ILE:CG1	2.21	0.62
3:D:482:ALA:HA	4:E:6:VAL:HG11	1.82	0.62
5:F:419:PHE:O	5:F:420:GLU:HB2	1.99	0.62
5:F:540:LEU:O	5:F:544:THR:OG1	2.14	0.62
1:G:124:VAL:HB	1:G:210:THR:HG22	1.82	0.62
1:H:100:LEU:HD21	1:H:121:VAL:HG11	1.81	0.62
2:I:119:GLU:CG	2:I:489:PRO:HD2	2.30	0.62
2:I:1030:GLU:OE1	2:I:1033:ARG:NH2	2.33	0.62
2:I:1087:TYR:CE1	2:I:1215:GLY:HA2	2.32	0.62
2:I:1285:TYR:CE1	3:J:1361:THR:HG21	2.35	0.62
3:J:615:LYS:O	3:J:619:ILE:HG22	2.00	0.62
3:J:647:PRO:HG3	3:J:697:MET:CA	2.29	0.62
3:J:751:ASP:HB3	3:J:753:SER:OG	2.00	0.62
3:J:827:GLU:HB2	3:J:832:LYS:HB2	1.81	0.62
2:C:42:ASP:O	2:C:44:GLU:N	2.28	0.62
2:C:260:LYS:HE3	2:C:262:TYR:CD1	2.35	0.62
2:C:550:VAL:CG1	3:D:777:HIS:HA	2.29	0.62
2:C:1293:VAL:HG22	2:C:1300:GLY:CA	2.29	0.62
3:D:361:LEU:HD22	3:D:366:CYS:HA	1.80	0.62
3:D:545:HIS:ND1	3:D:545:HIS:N	2.48	0.62
3:D:692:ARG:O	3:D:696:ALA:N	2.32	0.62
5:F:235:ILE:HA	5:F:242:HIS:HE1	1.63	0.62
5:F:297:MET:HE1	5:F:330:LEU:HD21	1.81	0.62
1:H:47:LEU:HD23	1:H:51:MET:HE2	1.80	0.62
1:H:86:LYS:HD3	1:H:174:ASP:HB2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:211:ARG:HH22	2:I:351:LEU:CD2	2.12	0.62
2:I:560:PRO:HD3	2:I:660:VAL:O	2.00	0.62
2:I:629:PHE:CE2	2:I:634:VAL:HG11	2.34	0.62
3:J:424:ASN:ND2	3:J:467:ALA:HB3	2.15	0.62
3:J:474:LEU:HD13	3:J:477:GLN:HE21	1.65	0.62
3:J:826:ILE:HA	3:J:831:VAL:N	2.15	0.62
1:A:60:GLU:HB3	1:A:143:ARG:HB2	1.80	0.62
1:A:164:ASP:OD1	1:A:166:ARG:HB2	1.99	0.62
2:C:122:VAL:HG23	5:F:472:GLN:CG	2.30	0.62
2:C:921:PRO:O	2:C:924:VAL:HG22	1.99	0.62
2:C:1305:TYR:HE2	5:F:532:LEU:N	1.97	0.62
3:D:205:LEU:HB2	3:D:217:LEU:HD11	1.82	0.62
3:D:923:ILE:HA	3:D:1248:ILE:HD11	1.81	0.62
3:D:1157:ALA:CB	3:D:1206:ARG:HA	2.30	0.62
5:F:231:THR:HG21	5:F:249:ILE:HA	1.82	0.62
5:F:279:ARG:HA	5:F:282:THR:HB	1.81	0.62
1:G:92:VAL:HA	1:G:120:ASP:O	2.00	0.62
1:G:211:ILE:HD13	1:G:212:ASP:H	1.64	0.62
2:I:75:LEU:CD1	2:I:127:ILE:HD11	2.29	0.62
2:I:943:LYS:HE2	2:I:947:GLU:OE1	1.99	0.62
2:I:992:LEU:HB2	2:I:993:PRO:HD2	1.82	0.62
3:J:320:ASN:HD21	3:J:322:ARG:HB3	1.65	0.62
3:J:321:LYS:HG2	3:J:322:ARG:N	2.15	0.62
3:J:606:ASN:O	3:J:610:ARG:HD3	1.98	0.62
3:J:1137:GLY:N	3:J:1140:ARG:HB3	2.14	0.62
3:J:1352:ILE:N	3:J:1352:ILE:HD12	2.14	0.62
1:B:27:THR:HA	1:B:202:VAL:HA	1.81	0.61
1:B:80:GLU:HG3	1:B:80:GLU:O	2.00	0.61
1:B:285:THR:OG1	1:B:287:VAL:HG23	2.00	0.61
1:B:302:GLU:HA	1:B:305:ASP:OD2	2.00	0.61
2:C:93:SER:HA	2:C:129:LEU:HD12	1.82	0.61
2:C:406:ASN:HD22	2:C:413:GLU:HB2	1.64	0.61
2:C:1116:HIS:O	2:C:1119:MET:HB3	2.00	0.61
3:D:339:ARG:CB	3:D:340:GLN:HA	2.30	0.61
5:F:516:ASP:OD2	5:F:516:ASP:N	2.33	0.61
2:I:242:VAL:CB	2:I:245:ARG:HD2	2.30	0.61
2:I:1145:ILE:HG22	2:I:1146:GLN:N	2.15	0.61
1:B:85:LEU:O	1:B:87:GLY:N	2.32	0.61
2:C:802:VAL:HG12	2:C:1228:GLY:O	1.99	0.61
3:D:411:ILE:O	3:D:414:GLU:HB2	2.00	0.61
3:D:599:LYS:HD2	3:D:600:ALA:CB	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:58:LEU:HD12	4:E:58:LEU:N	2.14	0.61
1:G:218:ARG:CD	1:H:233:ASP:H	2.11	0.61
1:H:89:ALA:HB3	1:H:124:VAL:CG1	2.30	0.61
1:H:192:VAL:O	1:H:195:ARG:N	2.33	0.61
1:H:217:ILE:O	1:H:220:ALA:HB3	2.00	0.61
2:I:378:ARG:NH1	2:I:382:GLU:OE2	2.33	0.61
2:I:452:ARG:HG2	2:I:453:ILE:N	2.14	0.61
2:I:766:ASN:OD1	2:I:767:GLN:N	2.33	0.61
2:I:807:TRP:NE1	2:I:1086:PRO:HG3	2.15	0.61
2:I:815:SER:HB3	3:J:461:PHE:CD1	2.35	0.61
2:I:902:LEU:HA	2:I:905:ILE:HD12	1.81	0.61
2:I:1004:ASP:OD1	2:I:1004:ASP:N	2.34	0.61
2:I:1183:ALA:O	2:I:1185:PRO:HD3	2.00	0.61
3:J:1172:LYS:HA	3:J:1191:PRO:HA	1.82	0.61
5:L:283:GLN:O	5:L:286:LEU:HB3	2.00	0.61
5:L:422:ARG:O	5:L:423:ARG:HG3	2.00	0.61
1:A:45:ARG:HH22	2:C:1216:ARG:HA	1.65	0.61
1:B:92:VAL:HG11	1:B:95:LYS:HB3	1.82	0.61
2:C:130:MET:CG	2:C:134:GLY:HA2	2.30	0.61
2:C:337:PHE:CD1	2:C:337:PHE:C	2.78	0.61
2:C:397:LEU:HD23	2:C:402:ARG:N	2.14	0.61
2:C:551:HIS:ND1	2:C:553:THR:OG1	2.30	0.61
2:C:666:SER:HA	2:C:1186:VAL:HG21	1.81	0.61
3:D:16:GLU:HG3	3:D:1369:ARG:NH2	2.14	0.61
3:D:22:ILE:HG12	3:D:23:ALA:N	2.14	0.61
3:D:97:VAL:O	3:D:99:ARG:N	2.34	0.61
3:D:199:GLU:HA	3:D:202:ARG:CD	2.30	0.61
3:D:205:LEU:CD2	3:D:217:LEU:HG	2.27	0.61
3:D:759:ILE:HD13	3:D:771:GLN:HG2	1.81	0.61
4:E:30:MET:HE1	4:E:49:ILE:HG21	1.82	0.61
5:F:121:LYS:HG2	5:F:421:TYR:CZ	2.35	0.61
5:F:377:LYS:O	5:F:380:VAL:HG12	2.01	0.61
5:F:485:GLU:C	5:F:487:MET:H	2.07	0.61
1:G:137:ASN:N	1:G:137:ASN:OD1	2.32	0.61
2:I:159:SER:O	2:I:160:ASP:HB2	2.00	0.61
2:I:702:THR:HA	2:I:1184:THR:O	1.99	0.61
2:I:1024:GLU:HA	2:I:1027:LYS:HD3	1.80	0.61
2:I:1046:VAL:C	2:I:1047:LEU:HD23	2.25	0.61
2:I:1106:ARG:O	2:I:1108:ASN:N	2.31	0.61
2:I:1202:GLY:O	2:I:1203:ASP:HB2	1.98	0.61
2:I:1293:VAL:HG13	2:I:1301:ARG:N	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:205:LEU:C	3:J:205:LEU:HD13	2.24	0.61
1:B:278:ILE:C	1:B:280:ASP:H	2.07	0.61
2:C:70:TYR:HA	2:C:100:LEU:CD2	2.30	0.61
2:C:564:PRO:HA	2:C:684:ASN:HD21	1.65	0.61
2:C:883:LEU:CB	2:C:918:LEU:HD11	2.24	0.61
2:C:1002:LEU:HG	2:C:1003:THR:H	1.64	0.61
3:D:111:THR:HG23	3:D:300:GLN:OE1	2.00	0.61
3:D:358:GLY:N	3:D:359:PRO:HD3	2.15	0.61
3:D:491:LEU:O	3:D:904:ALA:HA	2.00	0.61
4:E:39:VAL:HG13	4:E:52:ARG:HH21	1.64	0.61
5:F:413:MET:O	5:F:416:VAL:HG12	2.00	0.61
1:G:28:LEU:HD23	1:H:231:PHE:CE1	2.32	0.61
2:I:1111:GLN:O	2:I:1115:THR:OG1	2.18	0.61
3:J:426:ALA:HB3	3:J:427:PRO:CD	2.26	0.61
3:J:457:TYR:O	3:J:458:ASN:HB3	2.00	0.61
5:L:271:ASN:O	5:L:275:VAL:HG23	2.00	0.61
5:L:524:GLU:HG3	5:L:525:ASP:O	1.99	0.61
1:A:57:THR:CG2	1:A:158:ARG:HH12	2.13	0.61
2:C:481:LEU:HD13	2:C:481:LEU:N	2.16	0.61
2:C:894:GLN:HE22	3:D:77:ARG:NH1	1.96	0.61
2:C:1004:ASP:OD1	2:C:1004:ASP:N	2.29	0.61
2:C:1024:GLU:O	2:C:1027:LYS:HG3	2.00	0.61
3:D:27:PRO:O	3:D:31:ARG:HG3	1.99	0.61
3:D:279:LEU:HD12	3:D:295:GLU:HB3	1.80	0.61
3:D:923:ILE:O	3:D:926:PRO:HD2	1.99	0.61
3:D:1267:VAL:N	3:D:1301:THR:O	2.27	0.61
5:F:508:GLU:HA	5:F:508:GLU:OE2	2.01	0.61
5:F:573:LEU:H	5:F:573:LEU:HD13	1.66	0.61
1:H:53:GLY:HA3	1:H:177:TYR:O	2.01	0.61
2:I:631:GLU:OE1	2:I:631:GLU:N	2.32	0.61
2:I:1075:VAL:HG23	3:J:463:GLY:N	2.15	0.61
3:J:400:MET:HA	3:J:405:GLU:OE2	2.00	0.61
3:J:618:VAL:O	3:J:621:ALA:N	2.32	0.61
3:J:749:LYS:HB2	3:J:750:PRO:CD	2.30	0.61
5:L:262:VAL:HG12	5:L:264:LYS:HD3	1.82	0.61
5:L:476:ARG:C	5:L:477:GLU:HG2	2.25	0.61
1:A:231:PHE:HD2	1:B:43:LEU:HD21	1.63	0.61
1:B:14:VAL:HB	1:B:28:LEU:HD13	1.82	0.61
1:B:255:ARG:CG	1:B:255:ARG:NH1	2.59	0.61
2:C:225:PHE:CZ	2:C:347:ILE:HB	2.36	0.61
2:C:517:GLN:NE2	2:C:760:ASN:H	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:801:ARG:NH1	2:C:1119:MET:HE1	2.16	0.61
2:C:1145:ILE:HG22	2:C:1146:GLN:N	2.14	0.61
3:D:133:ARG:HH22	5:F:95:THR:HG22	1.64	0.61
3:D:343:LEU:HD23	3:D:343:LEU:O	2.00	0.61
3:D:843:VAL:HG11	3:D:897:HIS:O	2.01	0.61
3:D:1322:ALA:HA	3:D:1325:PHE:HD1	1.64	0.61
1:G:217:ILE:O	1:G:220:ALA:HB3	2.00	0.61
2:I:976:ARG:NH2	2:I:990:ASP:OD2	2.33	0.61
2:I:1116:HIS:HE1	3:J:641:ILE:H	1.44	0.61
3:J:436:ALA:HB3	3:J:485:MET:HA	1.82	0.61
5:L:560:ARG:HA	5:L:565:ILE:HG23	1.83	0.61
1:B:101:THR:O	1:B:116:THR:HG22	2.01	0.61
1:B:286:GLU:HA	1:B:289:LEU:HB2	1.81	0.61
2:C:277:LEU:HD23	2:C:282:VAL:HG21	1.83	0.61
3:D:742:GLY:O	3:D:762:ASN:HB3	2.01	0.61
3:D:788:LEU:HD12	3:D:791:ALA:HB3	1.81	0.61
2:I:582:ASN:HB3	2:I:586:PHE:N	2.14	0.61
2:I:669:PRO:HB3	2:I:702:THR:HG22	1.81	0.61
2:I:810:TYR:HE1	2:I:1078:LYS:NZ	1.97	0.61
3:J:847:ASP:OD1	3:J:860:ARG:HD2	2.00	0.61
3:J:903:LEU:CB	3:J:905:ARG:HG3	2.30	0.61
3:J:1209:VAL:C	3:J:1210:ILE:HD13	2.26	0.61
3:J:1238:GLN:O	3:J:1242:ARG:N	2.21	0.61
1:B:149:GLY:HA3	1:B:177:TYR:CE2	2.36	0.61
1:B:224:LEU:C	1:B:224:LEU:HD12	2.26	0.61
2:C:213:LEU:O	2:C:214:ASN:HB3	2.01	0.61
2:C:870:ILE:HG22	2:C:944:ARG:HH11	1.66	0.61
2:C:1191:LYS:HZ3	2:C:1193:ALA:H	1.47	0.61
3:D:410:ASP:O	3:D:413:ASP:HB2	2.01	0.61
3:D:473:THR:O	3:D:477:GLN:HG3	2.01	0.61
3:D:805:GLN:HG2	3:D:806:ASP:H	1.65	0.61
5:F:291:CYS:O	5:F:295:CYS:HB2	2.01	0.61
5:F:595:LEU:HD23	5:F:595:LEU:H	1.65	0.61
1:G:124:VAL:HG11	1:G:210:THR:HG22	1.82	0.61
1:G:201:LEU:HD12	1:G:202:VAL:N	2.15	0.61
1:H:65:LEU:O	1:H:66:HIS:ND1	2.34	0.61
2:I:13:LYS:HZ2	2:I:1149:TYR:HA	1.64	0.61
2:I:29:SER:HB2	2:I:30:ILE:HD12	1.82	0.61
2:I:50:GLU:OE1	2:I:54:ARG:NE	2.34	0.61
2:I:363:LEU:O	2:I:381:ALA:HB1	2.01	0.61
2:I:483:ASP:CB	2:I:486:THR:HG21	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:551:HIS:CG	2:I:552:PRO:HD2	2.35	0.61
2:I:1018:TYR:OH	2:I:1022:LYS:NZ	2.25	0.61
3:J:134:ASP:O	3:J:138:VAL:N	2.28	0.61
3:J:194:LEU:O	3:J:197:GLU:N	2.33	0.61
3:J:499:ILE:HG23	3:J:500:ILE:CD1	2.31	0.61
3:J:507:VAL:HG11	3:J:598:LYS:HG3	1.83	0.61
1:B:75:GLN:HG2	1:B:76:GLU:N	2.15	0.61
1:B:153:VAL:HB	1:B:175:ALA:HB3	1.82	0.61
1:B:159:ILE:HG23	1:B:160:HIS:N	2.13	0.61
2:C:16:GLY:O	2:C:1156:ARG:HG2	2.00	0.61
2:C:97:ARG:NH2	5:F:475:GLY:HA3	2.15	0.61
2:C:339:ASN:HB3	2:C:343:HIS:O	2.01	0.61
2:C:969:ALA:O	2:C:973:SER:N	2.27	0.61
3:D:44:ILE:HB	3:D:50:LYS:O	2.00	0.61
3:D:197:GLU:O	3:D:201:LEU:N	2.28	0.61
3:D:491:LEU:HB2	3:D:904:ALA:HA	1.82	0.61
1:H:85:LEU:C	1:H:87:GLY:N	2.57	0.61
2:I:46:GLN:HG3	2:I:47:TYR:O	2.01	0.61
2:I:1024:GLU:HA	2:I:1027:LYS:CG	2.31	0.61
2:I:1080:ASN:HB2	2:I:1085:MET:CE	2.31	0.61
3:J:71:LEU:O	3:J:71:LEU:HD22	2.01	0.61
3:J:399:LYS:NZ	5:L:609:SER:OG	2.34	0.61
3:J:549:LYS:O	3:J:550:VAL:HG13	2.01	0.61
3:J:591:ILE:HG23	3:J:592:VAL:HG12	1.82	0.61
3:J:723:TYR:O	3:J:726:ALA:N	2.32	0.61
5:L:343:LYS:HA	5:L:346:GLN:HB3	1.81	0.61
5:L:427:PHE:CZ	5:L:431:ALA:HB2	2.36	0.61
2:C:496:LYS:HD2	2:C:497:PRO:N	2.16	0.61
2:C:548:ARG:O	3:D:780:ARG:NH1	2.34	0.61
2:C:588:GLU:HG3	2:C:605:TYR:HD1	1.65	0.61
2:C:759:SER:OG	2:C:763:THR:N	2.31	0.61
3:D:651:HIS:HA	3:D:654:ILE:HD12	1.83	0.61
3:D:1156:LEU:HD12	3:D:1208:ASP:O	2.01	0.61
3:D:1196:LEU:N	3:D:1196:LEU:HD22	2.16	0.61
4:E:26:ARG:NH2	4:E:38:LEU:HD13	2.16	0.61
5:F:231:THR:HG23	5:F:249:ILE:CG1	2.30	0.61
2:I:184:LEU:HD12	2:I:185:ASP:H	1.66	0.61
2:I:207:THR:O	2:I:210:LEU:N	2.30	0.61
2:I:564:PRO:HG2	2:I:568:ASN:O	2.01	0.61
2:I:1051:LYS:HB3	2:I:1053:TYR:HE1	1.65	0.61
2:I:1160:ASP:HB2	2:I:1161:LEU:CA	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1198:LEU:O	2:I:1198:LEU:HD13	1.99	0.61
3:J:152:THR:HG21	3:J:176:PHE:HB2	1.81	0.61
3:J:267:ASP:HA	3:J:270:ARG:NH2	2.16	0.61
3:J:606:ASN:OD1	3:J:610:ARG:NE	2.34	0.61
3:J:709:ARG:HD2	3:J:710:ASP:N	2.15	0.61
3:J:859:PRO:HG2	3:J:862:THR:CG2	2.30	0.61
5:L:519:LEU:HD13	5:L:519:LEU:C	2.26	0.61
1:A:18:GLN:HA	1:A:24:ALA:HB2	1.83	0.60
1:A:39:LEU:O	1:A:43:LEU:HB2	2.01	0.60
1:A:45:ARG:NH2	2:C:1216:ARG:HA	2.16	0.60
1:B:190:ALA:N	1:B:198:LEU:O	2.32	0.60
2:C:91:THR:OG1	2:C:138:ILE:HD12	2.00	0.60
2:C:397:LEU:O	2:C:398:SER:OG	2.18	0.60
2:C:560:PRO:HD3	2:C:660:VAL:O	2.01	0.60
2:C:1156:ARG:HB3	2:C:1156:ARG:HH11	1.65	0.60
3:D:358:GLY:O	3:D:361:LEU:HD12	2.01	0.60
3:D:795:TYR:O	3:D:799:ARG:HG3	2.01	0.60
3:D:1194:ARG:N	3:D:1194:ARG:HD2	2.15	0.60
1:G:224:LEU:HD22	1:H:228:LEU:HD11	1.81	0.60
1:H:124:VAL:HG21	1:H:209:GLY:C	2.26	0.60
2:I:1214:ASP:HB2	2:I:1221:PHE:CZ	2.36	0.60
2:I:1302:THR:HG22	5:L:531:PRO:HB3	1.83	0.60
3:J:45:ASN:HA	3:J:52:GLU:OE1	2.01	0.60
3:J:111:THR:HG21	3:J:303:VAL:HG21	1.83	0.60
3:J:641:ILE:HA	3:J:644:MET:HE2	1.83	0.60
3:J:848:VAL:HB	3:J:857:LEU:CD1	2.31	0.60
3:J:1193:TRP:HB2	3:J:1194:ARG:NH1	2.16	0.60
3:J:1257:VAL:O	3:J:1261:LEU:HD12	2.01	0.60
3:J:1319:PHE:CD1	3:J:1320:ILE:N	2.69	0.60
5:L:303:ILE:O	5:L:307:THR:OG1	2.18	0.60
5:L:346:GLN:O	5:L:350:GLU:HG3	2.01	0.60
5:L:445:ASP:OD1	5:L:445:ASP:N	2.34	0.60
2:C:242:VAL:O	2:C:245:ARG:HB2	2.00	0.60
2:C:338:THR:CG2	2:C:345:PRO:HB3	2.32	0.60
2:C:1078:LYS:HE2	2:C:1080:ASN:OD1	2.01	0.60
3:D:53:ARG:CZ	3:D:60:ARG:HD2	2.31	0.60
3:D:317:THR:HG21	3:D:320:ASN:HB3	1.83	0.60
3:D:355:ILE:O	3:D:355:ILE:HG13	2.01	0.60
5:F:354:THR:O	5:F:358:VAL:HG13	2.00	0.60
2:I:201:ARG:HH11	2:I:201:ARG:HG2	1.65	0.60
2:I:206:ALA:O	2:I:209:ILE:HG22	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1180:MET:HG2	2:I:1181:PRO:HD2	1.81	0.60
3:J:61:ILE:O	3:J:101:ARG:HD2	2.01	0.60
3:J:557:LYS:HD3	3:J:611:ILE:HG23	1.83	0.60
3:J:1323:ALA:HB2	3:J:1331:VAL:HG11	1.83	0.60
5:L:448:ARG:HD2	5:L:452:ILE:HD12	1.83	0.60
5:L:543:ALA:O	5:L:547:VAL:HG23	2.00	0.60
1:B:85:LEU:N	1:B:85:LEU:HD23	2.17	0.60
1:B:152:TYR:HD1	1:B:176:CYS:HA	1.66	0.60
2:C:1327:LEU:H	2:C:1327:LEU:HD12	1.65	0.60
3:D:18:ASP:HB2	3:D:1373:ARG:HH21	1.66	0.60
3:D:357:VAL:HG12	3:D:358:GLY:H	1.65	0.60
3:D:1227:HIS:HB2	3:J:1293:GLU:OE1	2.01	0.60
3:D:1234:VAL:HA	3:D:1237:VAL:CG1	2.29	0.60
3:D:1234:VAL:HG23	3:D:1235:ASN:N	2.16	0.60
3:D:1274:PHE:CE2	3:D:1275:LEU:HB3	2.37	0.60
3:D:1280:VAL:HG13	3:D:1284:ARG:CD	2.30	0.60
3:D:1314:LEU:HD11	3:D:1326:GLN:CB	2.31	0.60
5:F:423:ARG:HG2	5:F:425:TYR:HE1	1.65	0.60
1:G:197:ASP:O	1:G:198:LEU:HD23	2.01	0.60
2:I:22:LEU:HD22	2:I:23:ASP:N	2.16	0.60
2:I:360:LEU:HA	2:I:363:LEU:HB2	1.83	0.60
2:I:557:ARG:HH21	2:I:608:ALA:CA	2.13	0.60
2:I:687:ARG:O	2:I:689:ALA:N	2.31	0.60
2:I:742:TYR:HD2	2:I:743:PRO:HD2	1.65	0.60
2:I:1301:ARG:O	2:I:1304:MET:HB3	2.01	0.60
3:J:772:TYR:O	3:J:775:SER:HB3	2.01	0.60
5:L:494:ILE:O	5:L:497:VAL:N	2.34	0.60
5:L:511:ILE:CG2	5:L:517:SER:HB2	2.31	0.60
5:L:536:THR:OG1	5:L:537:THR:N	2.34	0.60
1:A:36:GLY:HA3	1:A:187:VAL:HG11	1.84	0.60
2:C:560:PRO:HG3	3:D:773:PHE:HE2	1.65	0.60
3:D:379:PRO:O	3:D:382:TYR:N	2.33	0.60
3:D:396:ALA:O	3:D:399:LYS:N	2.34	0.60
3:D:515:ARG:C	3:D:545:HIS:HB3	2.26	0.60
3:D:582:ILE:HD11	3:D:623:GLN:HB3	1.84	0.60
3:D:709:ARG:HD2	3:D:710:ASP:N	2.17	0.60
3:D:1140:ARG:HA	3:D:1143:ASP:OD2	2.00	0.60
3:D:1155:ILE:C	3:D:1156:LEU:HD13	2.26	0.60
3:D:1219:ASP:O	3:D:1222:ARG:N	2.35	0.60
3:D:1323:ALA:HA	3:D:1331:VAL:HG21	1.83	0.60
5:F:491:GLU:O	5:F:494:ILE:HB	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:27:THR:C	1:G:28:LEU:HD12	2.26	0.60
1:G:115:ILE:HG22	1:G:116:THR:N	2.16	0.60
2:I:237:LEU:CG	2:I:292:ILE:HD11	2.31	0.60
3:J:194:LEU:CD2	3:J:224:LEU:HD21	2.31	0.60
3:J:408:VAL:HA	3:J:411:ILE:HG12	1.81	0.60
3:J:450:HIS:HE1	3:J:452:LEU:HD12	1.65	0.60
5:L:240:ARG:O	5:L:242:HIS:N	2.34	0.60
5:L:483:LEU:HD23	5:L:487:MET:HG3	1.83	0.60
2:C:159:SER:O	2:C:160:ASP:HB2	2.00	0.60
2:C:234:ASP:CG	2:C:235:ASN:H	2.07	0.60
2:C:592:ARG:O	2:C:652:TYR:HD2	1.85	0.60
2:C:1164:PHE:C	2:C:1166:ASP:H	2.08	0.60
2:C:1247:SER:HB3	3:D:375:GLU:O	2.00	0.60
3:D:212:THR:HA	3:D:215:LYS:NZ	2.16	0.60
3:D:750:PRO:HA	3:D:777:HIS:NE2	2.16	0.60
3:D:1165:PHE:CE2	3:D:1175:LEU:HD13	2.37	0.60
5:F:128:ASN:CA	5:F:131:GLN:HB2	2.30	0.60
5:F:400:GLN:O	5:F:403:ASP:HB2	2.01	0.60
5:F:574:GLU:O	5:F:577:GLY:N	2.35	0.60
1:G:12:ARG:H	1:G:30:PRO:CD	2.12	0.60
1:G:90:VAL:N	1:G:210:THR:HG21	2.16	0.60
2:I:101:ARG:HG3	2:I:118:LYS:HG3	1.83	0.60
2:I:1275:VAL:O	2:I:1278:LEU:HB2	2.01	0.60
3:J:225:GLU:HA	3:J:228:VAL:HG23	1.82	0.60
3:J:577:ALA:HA	3:J:589:TYR:OH	2.01	0.60
3:J:661:VAL:HG12	3:J:685:ILE:HD11	1.84	0.60
3:J:706:VAL:HA	3:J:715:LYS:HA	1.84	0.60
3:J:848:VAL:CG1	3:J:857:LEU:HD11	2.32	0.60
5:L:213:ASP:O	5:L:216:LEU:HB3	2.00	0.60
1:B:9:LEU:HB2	1:B:32:GLU:CG	2.31	0.60
1:B:67:GLU:OE2	1:B:172:LEU:HD13	2.01	0.60
1:B:76:GLU:HB3	1:B:80:GLU:HG2	1.84	0.60
2:C:90:VAL:HG12	2:C:91:THR:N	2.14	0.60
2:C:316:GLU:H	2:C:316:GLU:CD	2.10	0.60
2:C:337:PHE:C	2:C:337:PHE:HD1	2.10	0.60
2:C:1276:TRP:HA	2:C:1279:GLU:OE1	2.01	0.60
3:D:237:MET:O	3:D:238:ILE:HD13	2.01	0.60
3:D:694:SER:HB2	3:D:738:ARG:CD	2.26	0.60
3:D:848:VAL:HG13	3:D:857:LEU:HB2	1.82	0.60
3:D:1163:VAL:HG22	3:D:1164:SER:H	1.66	0.60
4:E:27:ALA:O	4:E:30:MET:N	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:188:GLU:O	1:G:200:LYS:N	2.30	0.60
2:I:395:TYR:HE2	2:I:397:LEU:HD11	1.64	0.60
3:J:263:SER:HB2	5:L:507:MET:CE	2.32	0.60
3:J:289:ASP:HA	3:J:292:VAL:CG2	2.31	0.60
3:J:627:THR:HG23	3:J:628:GLY:H	1.66	0.60
3:J:708:ASN:N	3:J:708:ASN:OD1	2.35	0.60
3:J:1167:LYS:HB3	3:J:1174:ARG:HD3	1.83	0.60
1:A:39:LEU:HD23	1:A:39:LEU:N	2.17	0.60
1:A:182:ARG:O	1:A:183:ILE:HD12	2.02	0.60
1:B:61:ILE:CG2	1:B:63:GLY:H	2.15	0.60
1:B:149:GLY:HA3	1:B:177:TYR:CZ	2.36	0.60
2:C:39:ILE:O	2:C:40:GLU:HB2	2.01	0.60
2:C:1129:ASN:OD1	2:C:1177:ARG:NH2	2.25	0.60
3:D:227:PHE:O	3:D:230:SER:HB3	2.00	0.60
3:D:290:ILE:H	3:D:290:ILE:CD1	2.15	0.60
3:D:352:ARG:CB	3:D:467:ALA:HA	2.32	0.60
3:D:749:LYS:HB2	3:D:750:PRO:CD	2.32	0.60
3:D:1371:ARG:HD2	3:J:856:ILE:CG1	2.29	0.60
1:G:224:LEU:HD23	1:G:224:LEU:C	2.26	0.60
3:J:193:ASP:CG	3:J:196:GLN:HG2	2.26	0.60
3:J:495:ASN:ND2	3:J:497:GLU:HB2	2.17	0.60
5:L:137:TYR:CE2	5:L:139:GLU:HB2	2.36	0.60
2:C:557:ARG:NH1	2:C:611:GLU:OE1	2.34	0.60
2:C:1043:ALA:HB1	2:C:1044:PRO:CD	2.32	0.60
3:D:609:TYR:HA	3:D:617:THR:OG1	2.02	0.60
3:D:707:ILE:HD12	3:D:707:ILE:H	1.67	0.60
3:D:824:PRO:CB	3:D:835:LEU:HB2	2.32	0.60
5:F:500:ILE:O	5:F:500:ILE:HG22	2.02	0.60
1:G:155:ALA:HA	1:G:158:ARG:HG3	1.84	0.60
2:I:145:ILE:CG2	2:I:456:VAL:HG22	2.31	0.60
2:I:186:PHE:CE1	2:I:429:MET:HE3	2.37	0.60
2:I:289:VAL:HG13	2:I:319:LEU:CD1	2.30	0.60
2:I:411:ARG:HG3	2:I:411:ARG:HH11	1.65	0.60
3:J:245:LEU:HG	3:J:246:PRO:HD2	1.84	0.60
3:J:368:LEU:O	3:J:442:ILE:HB	2.00	0.60
3:J:488:ASN:ND2	4:K:6:VAL:HG11	2.13	0.60
3:J:704:GLU:O	3:J:706:VAL:N	2.34	0.60
3:J:818:GLU:CG	3:J:887:SER:HB2	2.31	0.60
3:J:823:THR:C	3:J:835:LEU:HD13	2.27	0.60
5:L:246:GLN:O	5:L:249:ILE:HB	2.02	0.60
1:B:45:ARG:NH1	1:B:45:ARG:HB3	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:47:LEU:HB3	1:B:180:VAL:HG11	1.83	0.60
2:C:15:PHE:HE1	2:C:1194:GLU:HB3	1.67	0.60
2:C:27:LEU:HD12	2:C:711:ASP:HB2	1.83	0.60
2:C:178:PRO:HB3	2:C:395:TYR:CE2	2.37	0.60
2:C:468:LEU:O	2:C:471:VAL:HG12	2.01	0.60
2:C:703:GLY:N	2:C:705:GLU:OE2	2.33	0.60
2:C:1281:TYR:CE2	3:D:431:ARG:HB2	2.36	0.60
3:D:509:GLY:O	3:D:512:TYR:HB3	2.02	0.60
2:I:557:ARG:O	2:I:576:SER:HB2	2.02	0.60
3:J:132:LEU:HD13	3:J:132:LEU:C	2.25	0.60
3:J:287:ALA:HB3	3:J:292:VAL:HG12	1.82	0.60
3:J:848:VAL:HG12	3:J:857:LEU:HD11	1.84	0.60
1:B:112:ALA:HB3	1:B:126:PRO:CA	2.13	0.60
2:C:208:ILE:CG2	2:C:362:ALA:HB1	2.32	0.60
2:C:395:TYR:CE2	2:C:420:LEU:HD21	2.36	0.60
2:C:556:GLY:O	2:C:589:THR:HB	2.01	0.60
2:C:1018:TYR:O	2:C:1021:LEU:N	2.35	0.60
2:C:1104:PRO:HG2	3:D:725:MET:SD	2.42	0.60
3:D:654:ILE:O	3:D:658:GLU:HB2	2.01	0.60
3:D:755:ILE:HD12	3:D:774:ILE:HG21	1.83	0.60
3:D:825:VAL:HG22	3:D:833:GLU:H	1.66	0.60
3:D:884:SER:O	3:D:887:SER:OG	2.17	0.60
3:D:899:TYR:CE1	3:D:915:ILE:HG21	2.37	0.60
3:D:1149:ARG:HG2	3:D:1150:PRO:O	2.02	0.60
3:D:1229:VAL:HG13	3:D:1230:THR:N	2.17	0.60
4:E:25:ARG:HD3	4:E:64:LEU:HD13	1.83	0.60
4:E:48:VAL:O	4:E:51:LEU:N	2.34	0.60
5:F:320:ILE:HG12	5:F:330:LEU:HB2	1.82	0.60
1:G:134:THR:HG23	2:I:726:TYR:HE1	1.64	0.60
1:H:101:THR:H	1:H:116:THR:HG21	1.67	0.60
2:I:13:LYS:O	2:I:1183:ALA:N	2.35	0.60
2:I:1160:ASP:CB	2:I:1161:LEU:CA	2.79	0.60
2:I:1176:LEU:N	2:I:1176:LEU:HD23	2.15	0.60
2:I:1259:LEU:HD12	3:J:346:ARG:HH12	1.65	0.60
2:I:1291:LEU:HD11	3:J:1351:VAL:HG13	1.83	0.60
1:A:57:THR:HG23	1:A:158:ARG:NH2	2.17	0.59
1:B:100:LEU:HD23	1:B:115:ILE:HG22	1.82	0.59
1:B:232:VAL:HG12	1:B:233:ASP:N	2.13	0.59
2:C:57:PHE:HD1	2:C:70:TYR:CB	2.14	0.59
2:C:237:LEU:O	2:C:238:GLN:HG3	2.01	0.59
2:C:1182:ILE:HG22	2:C:1183:ALA:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1286:THR:O	2:C:1290:MET:HB2	2.02	0.59
2:C:1325:VAL:HG12	2:C:1326:LEU:N	2.17	0.59
3:D:537:TYR:O	3:D:540:GLY:N	2.30	0.59
2:I:541:GLU:OE1	2:I:541:GLU:N	2.35	0.59
2:I:756:TYR:N	2:I:756:TYR:CD1	2.69	0.59
3:J:115:TRP:CE2	3:J:1329:THR:HG23	2.37	0.59
3:J:294:ASN:HB2	5:L:101:TYR:CD1	2.37	0.59
3:J:320:ASN:ND2	3:J:322:ARG:HB3	2.17	0.59
3:J:358:GLY:N	3:J:359:PRO:HD3	2.14	0.59
3:J:522:GLY:O	3:J:525:MET:HG2	2.02	0.59
3:J:1167:LYS:CE	3:J:1170:LYS:HB2	2.32	0.59
4:K:13:ILE:HD12	4:K:19:LEU:HA	1.83	0.59
1:B:228:LEU:N	1:B:228:LEU:HD23	2.17	0.59
2:C:745:GLU:N	2:C:1017:GLN:HG3	2.17	0.59
2:C:1052:VAL:C	2:C:1053:TYR:HD1	2.10	0.59
2:C:1164:PHE:N	2:C:1168:GLU:OE1	2.24	0.59
2:C:1191:LYS:HE2	2:C:1192:GLU:HB2	1.82	0.59
2:C:1271:GLY:HA2	3:D:344:GLY:HA3	1.84	0.59
3:D:108:ALA:HB1	3:D:279:LEU:CD2	2.31	0.59
3:D:113:HIS:HE1	3:D:115:TRP:HB2	1.60	0.59
3:D:317:THR:CG2	3:D:320:ASN:HB3	2.32	0.59
3:D:1135:THR:HG23	3:D:1140:ARG:HD3	1.84	0.59
5:F:137:TYR:HB3	5:F:140:ALA:HB2	1.82	0.59
5:F:380:VAL:HG13	5:F:381:GLU:N	2.17	0.59
1:H:61:ILE:HG23	1:H:142:MET:CE	2.32	0.59
1:H:104:LYS:HG3	1:H:105:SER:N	2.16	0.59
3:J:357:VAL:HA	3:J:461:PHE:CE1	2.37	0.59
3:J:734:ALA:HA	3:J:737:ILE:CG1	2.33	0.59
3:J:920:ALA:O	3:J:923:ILE:HB	2.02	0.59
5:L:505:ILE:HD12	5:L:506:SER:H	1.67	0.59
1:B:154:PRO:O	1:B:174:ASP:HA	2.01	0.59
2:C:724:VAL:CG1	2:C:727:VAL:CG2	2.79	0.59
2:C:741:MET:SD	2:C:974:ARG:NH2	2.75	0.59
2:C:1158:LYS:O	2:C:1159:VAL:HG13	2.02	0.59
3:D:317:THR:N	3:D:322:ARG:O	2.35	0.59
3:D:506:VAL:O	3:D:509:GLY:N	2.35	0.59
3:D:922:SER:O	3:D:1248:ILE:HD11	2.03	0.59
3:D:1155:ILE:CD1	3:D:1211:SER:HB3	2.33	0.59
5:F:333:VAL:CG2	5:F:336:GLU:HB2	2.31	0.59
1:H:112:ALA:HA	1:H:130:ILE:CD1	2.32	0.59
2:I:17:LYS:N	2:I:1188:ASP:OD2	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:905:ARG:HH11	4:K:16:ARG:HB2	1.67	0.59
5:L:227:GLN:HG2	5:L:255:VAL:HG21	1.84	0.59
5:L:292:VAL:HG11	5:L:299:LYS:CE	2.32	0.59
1:B:182:ARG:HG2	1:B:183:ILE:H	1.65	0.59
2:C:36:GLN:HG3	2:C:40:GLU:OE2	2.02	0.59
2:C:45:GLY:O	2:C:51:ALA:HB2	2.02	0.59
2:C:94:ALA:N	2:C:129:LEU:HD11	2.18	0.59
2:C:202:ARG:HH11	2:C:369:MET:CG	2.15	0.59
2:C:367:TYR:O	2:C:371:ARG:N	2.34	0.59
2:C:1272:GLU:CB	3:D:342:LEU:HD12	2.21	0.59
2:C:1293:VAL:CG1	2:C:1301:ARG:HA	2.29	0.59
3:D:174:ASP:O	3:D:175:GLU:HG2	2.03	0.59
3:D:215:LYS:CE	3:D:216:LYS:HG3	2.32	0.59
3:D:1219:ASP:OD1	3:D:1222:ARG:NH2	2.34	0.59
5:F:122:ARG:NH2	5:F:378:GLU:OE1	2.35	0.59
5:F:456:MET:HE3	5:F:456:MET:O	2.00	0.59
1:G:191:ARG:HH12	1:G:197:ASP:CA	2.15	0.59
1:H:18:GLN:HB3	1:H:24:ALA:CB	2.32	0.59
2:I:10:ARG:NH1	2:I:697:LYS:HD3	2.18	0.59
2:I:273:HIS:HA	2:I:276:GLN:OE1	2.02	0.59
2:I:368:ARG:O	2:I:372:PRO:HB3	2.02	0.59
2:I:1256:GLN:O	2:I:1301:ARG:NH2	2.35	0.59
3:J:290:ILE:H	3:J:290:ILE:HD12	1.67	0.59
3:J:536:LEU:HD12	3:J:542:ALA:N	2.17	0.59
3:J:1154:ALA:HB1	3:J:1211:SER:O	2.03	0.59
5:L:401:PHE:O	5:L:403:ASP:N	2.35	0.59
5:L:498:LEU:HD22	5:L:498:LEU:N	2.16	0.59
1:A:22:THR:O	1:A:207:THR:N	2.31	0.59
1:B:89:ALA:HB1	1:B:124:VAL:H	1.66	0.59
2:C:242:VAL:HB	2:C:245:ARG:HD2	1.85	0.59
2:C:303:ASP:O	2:C:307:GLY:N	2.36	0.59
2:C:689:ALA:CB	2:C:1233:LEU:HD23	2.33	0.59
2:C:817:LEU:HD22	2:C:818:VAL:N	2.17	0.59
3:D:653:ILE:HA	3:D:656:GLU:CD	2.27	0.59
3:D:1156:LEU:CA	3:D:1210:ILE:HG12	2.32	0.59
3:D:1313:SER:C	3:D:1315:ALA:H	2.10	0.59
2:I:4:SER:HB3	2:I:7:GLU:HG3	1.83	0.59
2:I:22:LEU:HD22	2:I:23:ASP:H	1.66	0.59
2:I:484:LEU:O	2:I:486:THR:HG22	2.03	0.59
2:I:701:GLY:O	2:I:1184:THR:N	2.34	0.59
2:I:896:THR:HB	2:I:897:PRO:HD2	1.82	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1252:HIS:O	3:J:1255:VAL:HG13	2.03	0.59
1:A:45:ARG:NH2	2:C:1215:GLY:O	2.35	0.59
1:A:80:GLU:O	1:A:84:ASN:ND2	2.35	0.59
1:A:91:ARG:HH21	1:A:122:GLU:CD	2.11	0.59
1:A:100:LEU:CD2	1:A:115:ILE:HG21	2.29	0.59
1:B:182:ARG:NH1	3:D:534:GLU:OE1	2.36	0.59
1:B:278:ILE:O	1:B:281:LEU:N	2.35	0.59
2:C:164:THR:HG21	2:C:171:LEU:HD12	1.84	0.59
2:C:338:THR:HB	2:C:345:PRO:HB3	1.84	0.59
5:F:490:PRO:HG2	5:F:493:LYS:CB	2.33	0.59
1:G:191:ARG:HH12	1:G:198:LEU:N	1.99	0.59
1:G:195:ARG:HG2	1:G:198:LEU:CG	2.33	0.59
2:I:82:VAL:HA	2:I:92:TYR:HD1	1.68	0.59
2:I:810:TYR:CD1	2:I:1078:LYS:HD2	2.36	0.59
2:I:815:SER:CB	3:J:461:PHE:HD1	2.14	0.59
3:J:288:PRO:HG2	3:J:291:ILE:HD12	1.84	0.59
5:L:412:LEU:HB2	5:L:435:ILE:CD1	2.24	0.59
1:A:102:LEU:HB3	1:A:142:MET:HG2	1.83	0.59
2:C:65:ASN:O	2:C:105:TYR:HD2	1.85	0.59
2:C:743:PRO:O	2:C:974:ARG:NH1	2.36	0.59
2:C:890:LYS:NZ	2:C:891:GLY:O	2.36	0.59
3:D:342:LEU:O	3:D:344:GLY:N	2.35	0.59
3:D:572:THR:HG23	3:D:573:THR:O	2.03	0.59
3:D:683:ILE:O	3:D:683:ILE:HG12	2.02	0.59
3:D:1368:ASP:HA	3:D:1371:ARG:HH22	1.67	0.59
1:G:60:GLU:HG2	1:G:143:ARG:HH21	1.67	0.59
1:G:130:ILE:HD12	1:G:130:ILE:N	2.18	0.59
1:H:206:GLU:OE1	3:J:531:LYS:NZ	2.26	0.59
2:I:559:CYS:HG	2:I:662:SER:CB	2.15	0.59
3:J:275:ARG:HH21	5:L:400:GLN:HE21	1.49	0.59
3:J:488:ASN:OD1	3:J:488:ASN:N	2.32	0.59
3:J:805:GLN:C	3:J:807:LEU:H	2.11	0.59
1:A:152:TYR:HD2	1:A:154:PRO:HD3	1.68	0.59
2:C:216:THR:O	2:C:220:ILE:HG13	2.03	0.59
2:C:1115:THR:CG2	2:C:1228:GLY:HA3	2.32	0.59
3:D:47:ARG:NH1	5:F:496:LYS:HE2	2.18	0.59
3:D:53:ARG:NH1	3:D:60:ARG:HD2	2.18	0.59
3:D:120:LEU:HD13	3:D:121:PRO:N	2.18	0.59
3:D:218:THR:HG21	3:D:1275:LEU:HD21	1.85	0.59
3:D:259:ARG:CZ	5:F:502:LYS:HD3	2.32	0.59
5:F:120:ALA:HA	5:F:123:ILE:HD12	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:122:VAL:HG23	5:L:472:GLN:HG2	1.85	0.59
2:I:742:TYR:O	2:I:974:ARG:NH2	2.35	0.59
2:I:1042:LEU:CB	2:I:1046:VAL:HG21	2.32	0.59
2:I:1237:HIS:HB3	2:I:1242:LYS:HE3	1.84	0.59
3:J:504:GLN:OE1	3:J:731:ARG:NH1	2.35	0.59
3:J:684:ASP:O	3:J:687:ALA:N	2.35	0.59
3:J:1191:PRO:C	3:J:1193:TRP:H	2.08	0.59
4:K:6:VAL:HG23	4:K:10:VAL:HG23	1.84	0.59
5:L:138:PRO:CD	5:L:353:LEU:HD11	2.33	0.59
1:B:255:ARG:O	1:B:277:TYR:HB3	2.02	0.59
1:B:301:THR:HA	1:B:304:LYS:HE2	1.84	0.59
2:C:91:THR:HG21	2:C:503:LYS:CE	2.32	0.59
2:C:517:GLN:HE21	2:C:759:SER:CA	2.13	0.59
2:C:1066:MET:HE3	2:C:1076:ILE:CG2	2.33	0.59
2:C:1113:LEU:HD11	3:D:641:ILE:HG12	1.83	0.59
3:D:30:ILE:HG12	3:D:33:TRP:CZ3	2.37	0.59
3:D:37:GLU:HG3	3:D:105:ILE:HA	1.85	0.59
3:D:471:PRO:HB3	3:D:476:ALA:HB1	1.85	0.59
3:D:658:GLU:O	3:D:661:VAL:HG22	2.03	0.59
3:D:1314:LEU:CD1	3:D:1326:GLN:CB	2.80	0.59
5:F:347:ILE:HG22	5:F:351:THR:CG2	2.33	0.59
2:I:39:ILE:HD12	2:I:75:LEU:HG	1.85	0.59
2:I:200:ARG:HH11	2:I:200:ARG:HG2	1.67	0.59
2:I:685:MET:HE2	2:I:1071:GLY:HA2	1.84	0.59
2:I:882:ILE:HD11	2:I:919:ARG:HH12	1.67	0.59
3:J:1140:ARG:O	3:J:1140:ARG:HD2	2.02	0.59
4:K:15:ASN:C	4:K:17:PHE:H	2.10	0.59
5:L:381:GLU:O	5:L:384:LEU:HG	2.02	0.59
1:B:63:GLY:HA3	1:B:71:LYS:CE	2.31	0.59
2:C:15:PHE:CE1	2:C:1194:GLU:HB3	2.38	0.59
2:C:119:GLU:HG3	2:C:488:MET:CB	2.28	0.59
2:C:312:ALA:HB3	2:C:315:MET:CE	2.30	0.59
2:C:524:ILE:CD1	2:C:712:SER:HB2	2.32	0.59
2:C:551:HIS:H	2:C:554:HIS:HD2	1.49	0.59
2:C:817:LEU:HD22	2:C:817:LEU:C	2.27	0.59
2:C:1018:TYR:CE2	2:C:1022:LYS:HD3	2.38	0.59
2:C:1082:ILE:CD1	2:C:1082:ILE:H	2.08	0.59
2:C:1333:LEU:CD2	3:D:307:LEU:HD22	2.33	0.59
3:D:892:PHE:HZ	3:D:1282:TYR:CE1	2.19	0.59
3:D:1169:THR:O	3:D:1169:THR:HG22	2.02	0.59
5:F:402:LEU:C	5:F:405:ILE:HG23	2.28	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:444:ALA:HB1	5:F:457:ILE:HG13	1.85	0.59
5:F:462:LYS:HZ3	5:F:489:MET:HE3	1.68	0.59
5:F:552:THR:OG1	5:F:555:GLU:HG3	2.01	0.59
1:G:152:TYR:HB2	2:I:824:GLN:NE2	2.18	0.59
1:H:57:THR:HG21	1:H:158:ARG:HH21	1.68	0.59
2:I:287:VAL:HG23	2:I:288:PRO:O	2.03	0.59
3:J:1159:ILE:HG22	3:J:1177:ILE:HD13	1.85	0.59
5:L:137:TYR:HD1	5:L:138:PRO:HD2	1.67	0.59
5:L:228:TYR:O	5:L:231:THR:N	2.36	0.59
1:A:172:LEU:HD12	1:A:172:LEU:N	2.18	0.58
1:B:100:LEU:HG	1:B:116:THR:CG2	2.33	0.58
1:B:289:LEU:O	1:B:295:LEU:HD22	2.02	0.58
2:C:74:ARG:HH12	2:C:121:GLU:CD	2.11	0.58
2:C:1272:GLU:OE2	3:D:341:ASN:HA	2.02	0.58
3:D:146:VAL:HG23	3:D:158:GLN:O	2.03	0.58
3:D:215:LYS:O	3:D:219:LYS:HE3	2.03	0.58
3:D:227:PHE:CZ	3:D:234:PRO:HG3	2.37	0.58
3:D:744:ARG:HG3	3:D:744:ARG:O	2.03	0.58
5:F:292:VAL:HG11	5:F:299:LYS:CG	2.33	0.58
5:F:494:ILE:O	5:F:497:VAL:HB	2.03	0.58
1:H:101:THR:CG2	1:H:116:THR:HG21	2.32	0.58
2:I:13:LYS:HD2	2:I:14:ASP:N	2.18	0.58
2:I:519:ASN:HD21	2:I:796:LEU:CD2	2.11	0.58
2:I:688:GLN:CB	2:I:1235:LEU:HD22	2.33	0.58
2:I:835:GLU:C	2:I:836:LEU:HD12	2.27	0.58
2:I:895:LEU:HD13	2:I:900:LYS:N	2.18	0.58
2:I:1088:ASP:OD2	2:I:1092:THR:OG1	2.21	0.58
2:I:1105:SER:HA	3:J:736:GLN:NE2	2.18	0.58
2:I:1124:ILE:O	2:I:1127:LYS:HB2	2.03	0.58
3:J:22:ILE:CD1	3:J:1336:ALA:HB2	2.33	0.58
3:J:279:LEU:HD12	3:J:295:GLU:CG	2.32	0.58
3:J:580:TRP:HH2	3:J:587:LEU:O	1.86	0.58
3:J:616:PRO:O	3:J:620:PHE:HB2	2.03	0.58
3:J:668:PHE:HA	3:J:673:VAL:HG23	1.84	0.58
3:J:746:LEU:HD23	3:J:758:PRO:HG3	1.85	0.58
3:J:1241:TYR:HD2	3:J:1246:VAL:HG12	1.68	0.58
5:L:287:ILE:CG2	5:L:315:TRP:HH2	2.16	0.58
1:A:100:LEU:HB3	1:A:115:ILE:HG21	1.85	0.58
1:B:79:LEU:O	1:B:82:LEU:HB2	2.03	0.58
2:C:104:ILE:O	2:C:114:VAL:N	2.35	0.58
2:C:460:ALA:O	2:C:463:GLN:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1322:SER:OG	2:C:1323:PHE:N	2.36	0.58
3:D:24:LEU:HB2	3:D:232:ASN:OD1	2.04	0.58
3:D:117:LEU:CA	3:D:124:ILE:HD12	2.32	0.58
3:D:123:ARG:HH12	3:D:1334:GLU:HG3	1.67	0.58
3:D:872:LEU:HB3	3:D:877:VAL:HG11	1.84	0.58
5:F:563:PHE:O	5:F:565:ILE:N	2.36	0.58
5:F:572:THR:O	5:F:576:VAL:HG23	2.04	0.58
1:G:49:SER:OG	1:G:50:SER:N	2.37	0.58
1:G:80:GLU:O	1:G:84:ASN:ND2	2.36	0.58
2:I:156:PHE:CE2	2:I:158:ASP:HB2	2.38	0.58
2:I:677:ASN:O	2:I:681:MET:HG3	2.03	0.58
2:I:688:GLN:HB2	2:I:1235:LEU:CD2	2.34	0.58
2:I:974:ARG:HB3	2:I:1014:LEU:HD21	1.85	0.58
2:I:1012:GLU:O	2:I:1016:GLU:HG3	2.02	0.58
3:J:502:PRO:HB3	3:J:506:VAL:CG2	2.33	0.58
3:J:545:HIS:CD2	3:J:719:PHE:HZ	2.21	0.58
5:L:108:VAL:HG22	5:L:385:ARG:NH2	2.18	0.58
5:L:292:VAL:HG11	5:L:299:LYS:HE2	1.84	0.58
1:A:43:LEU:CD1	1:A:203:ILE:HD11	2.33	0.58
1:B:124:VAL:CG1	1:B:125:LYS:HG3	2.33	0.58
1:B:156:SER:N	1:B:157:THR:OG1	2.36	0.58
2:C:202:ARG:HH22	2:C:368:ARG:HH22	1.49	0.58
2:C:245:ARG:NH2	2:C:337:PHE:HD2	2.01	0.58
2:C:850:ILE:HG22	2:C:850:ILE:O	2.03	0.58
3:D:126:LEU:HD12	3:D:127:LEU:N	2.18	0.58
3:D:418:GLU:OE2	4:E:44:ASP:HA	2.02	0.58
3:D:432:LEU:C	3:D:434:ILE:H	2.09	0.58
3:D:436:ALA:HB3	3:D:485:MET:HA	1.85	0.58
3:D:648:GLU:OE2	3:D:649:LYS:HE2	2.03	0.58
3:D:748:ALA:CB	3:D:754:ILE:HA	2.33	0.58
3:D:925:GLU:HB3	3:D:926:PRO:HD3	1.85	0.58
3:D:1154:ALA:N	3:D:1214:PRO:O	2.30	0.58
5:F:113:ARG:HA	5:F:116:GLU:OE1	2.03	0.58
5:F:231:THR:O	5:F:235:ILE:HG13	2.04	0.58
5:F:238:LYS:HE2	5:F:242:HIS:CE1	2.37	0.58
5:F:537:THR:O	5:F:540:LEU:N	2.33	0.58
2:I:531:SER:OG	2:I:533:LEU:HB2	2.03	0.58
2:I:563:THR:HG23	2:I:564:PRO:N	2.17	0.58
2:I:665:ALA:O	2:I:667:LEU:N	2.36	0.58
2:I:1144:PHE:HA	2:I:1147:ARG:HG3	1.85	0.58
3:J:31:ARG:NH2	3:J:106:GLU:OE2	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:62:PHE:O	3:J:101:ARG:HG3	2.03	0.58
3:J:261:ALA:HA	5:L:505:ILE:O	2.03	0.58
3:J:378:LYS:HB3	3:J:379:PRO:HD3	1.85	0.58
3:J:1162:ILE:HG23	3:J:1178:THR:HB	1.85	0.58
4:K:32:VAL:O	4:K:32:VAL:HG12	2.03	0.58
5:L:491:GLU:O	5:L:494:ILE:HB	2.03	0.58
5:L:584:ARG:O	5:L:587:ILE:HG22	2.03	0.58
1:A:57:THR:O	1:A:173:VAL:HG22	2.03	0.58
2:C:69:GLN:NE2	2:C:101:ARG:HD2	2.16	0.58
2:C:218:GLU:HG3	2:C:299:LYS:HA	1.85	0.58
2:C:517:GLN:N	2:C:761:GLN:OE1	2.35	0.58
2:C:592:ARG:HA	2:C:603:ILE:HG22	1.83	0.58
2:C:737:ASN:O	2:C:740:GLU:N	2.30	0.58
2:C:898:GLU:H	2:C:898:GLU:CD	2.11	0.58
2:C:1308:ILE:HG23	3:D:380:PHE:CD2	2.39	0.58
3:D:90:VAL:HG12	3:D:91:GLU:O	2.03	0.58
3:D:215:LYS:HE2	3:D:216:LYS:HG3	1.85	0.58
3:D:339:ARG:CB	3:D:340:GLN:CA	2.80	0.58
3:D:343:LEU:HD13	5:F:515:GLU:OE1	2.03	0.58
3:D:795:TYR:C	3:D:795:TYR:CD2	2.81	0.58
4:E:82:ALA:O	4:E:85:ALA:HB3	2.04	0.58
5:F:228:TYR:HA	5:F:252:LEU:CD2	2.32	0.58
5:F:421:TYR:O	5:F:423:ARG:N	2.32	0.58
5:F:452:ILE:HD11	5:F:456:MET:HE2	1.84	0.58
5:F:536:THR:OG1	5:F:537:THR:N	2.34	0.58
1:G:14:VAL:HG22	1:G:15:ASP:N	2.18	0.58
1:G:35:PHE:CZ	1:H:50:SER:HB2	2.39	0.58
1:H:76:GLU:HB3	1:H:80:GLU:HB3	1.85	0.58
2:I:59:ILE:HG23	2:I:476:LYS:CE	2.33	0.58
2:I:148:GLN:HG2	2:I:149:LEU:N	2.17	0.58
2:I:367:TYR:HD1	2:I:384:LEU:HD22	1.68	0.58
2:I:385:PHE:CD2	2:I:390:PHE:HE2	2.21	0.58
2:I:1080:ASN:HB2	2:I:1085:MET:HE3	1.85	0.58
2:I:1119:MET:HE3	2:I:1204:LEU:HD13	1.84	0.58
3:J:135:ILE:HG23	3:J:185:ILE:CD1	2.32	0.58
3:J:421:VAL:HG23	3:J:422:LEU:N	2.19	0.58
3:J:479:GLU:CG	4:K:20:VAL:HG11	2.31	0.58
3:J:536:LEU:CD1	3:J:541:LEU:HB2	2.30	0.58
2:C:38:PHE:CE1	2:C:49:LEU:HD23	2.38	0.58
2:C:80:PHE:HZ	2:C:1038:GLN:HE22	1.49	0.58
2:C:617:ALA:HA	2:C:636:CYS:SG	2.43	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:745:GLU:CD	2:C:1017:GLN:HB3	2.29	0.58
2:C:756:TYR:N	2:C:756:TYR:CD1	2.56	0.58
2:C:852:ALA:O	2:C:862:LEU:HD13	2.04	0.58
3:D:112:ALA:O	3:D:300:GLN:NE2	2.22	0.58
3:D:425:ARG:HB2	3:D:466:MET:HG2	1.86	0.58
3:D:449:LEU:HD12	3:D:450:HIS:H	1.68	0.58
3:D:1179:PRO:HD2	3:D:1184:ASP:CB	2.34	0.58
5:F:377:LYS:O	5:F:381:GLU:HG3	2.04	0.58
5:F:494:ILE:HG22	5:F:498:LEU:CD2	2.34	0.58
5:F:545:HIS:ND1	5:F:545:HIS:C	2.61	0.58
1:G:228:LEU:CD2	1:H:224:LEU:HB3	2.33	0.58
2:I:5:TYR:HA	2:I:8:LYS:CG	2.34	0.58
2:I:170:VAL:HG21	2:I:172:TYR:CZ	2.39	0.58
2:I:225:PHE:CD2	2:I:336:LEU:HD22	2.37	0.58
2:I:462:ASN:O	2:I:466:VAL:HG23	2.03	0.58
2:I:697:LYS:HG2	2:I:698:PRO:N	2.19	0.58
2:I:857:VAL:HG21	2:I:862:LEU:CD2	2.33	0.58
2:I:951:MET:O	2:I:955:GLN:N	2.22	0.58
3:J:632:ALA:O	3:J:635:SER:OG	2.22	0.58
3:J:891:ASP:OD1	3:J:1284:ARG:HG2	2.03	0.58
3:J:1262:ARG:HG2	3:J:1279:GLN:OE1	2.03	0.58
1:A:96:ASP:HA	1:A:148:ARG:HH12	1.68	0.58
1:B:40:GLY:HA3	1:B:185:TYR:CD1	2.38	0.58
2:C:4:SER:O	2:C:8:LYS:HB3	2.03	0.58
2:C:98:VAL:C	2:C:121:GLU:HA	2.28	0.58
2:C:522:SER:CA	2:C:525:THR:HG22	2.32	0.58
2:C:772:SER:OG	2:C:775:GLU:OE1	2.19	0.58
2:C:1025:PHE:O	2:C:1028:LYS:N	2.37	0.58
2:C:1222:GLU:OE2	3:D:537:TYR:OH	2.21	0.58
3:D:44:ILE:HD13	3:D:252:LEU:HD12	1.86	0.58
5:F:598:LEU:HB2	5:F:601:PRO:HG3	1.86	0.58
1:G:207:THR:HG22	1:G:208:ASN:H	1.68	0.58
2:I:817:LEU:HD21	2:I:1080:ASN:ND2	2.18	0.58
3:J:294:ASN:ND2	3:J:298:MET:SD	2.76	0.58
3:J:574:VAL:O	3:J:577:ALA:HB3	2.04	0.58
3:J:844:THR:CG2	3:J:864:LEU:HD21	2.34	0.58
3:J:903:LEU:HD23	3:J:905:ARG:CG	2.34	0.58
3:J:1167:LYS:HD3	3:J:1174:ARG:NH1	2.17	0.58
3:J:1319:PHE:C	3:J:1319:PHE:HD1	2.11	0.58
1:A:100:LEU:HB3	1:A:115:ILE:CG2	2.33	0.58
2:C:50:GLU:OE1	2:C:54:ARG:NE	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:269:ILE:HD12	2:C:269:ILE:N	2.18	0.58
2:C:572:ILE:O	2:C:573:ASN:HB2	2.02	0.58
2:C:672:GLU:HG3	2:C:1187:PHE:HD2	1.68	0.58
2:C:901:LEU:HA	5:F:563:PHE:CD2	2.38	0.58
3:D:537:TYR:CE2	3:D:544:LEU:CD2	2.87	0.58
3:D:625:MET:O	3:D:627:THR:N	2.37	0.58
5:F:513:ASP:HA	5:F:516:ASP:HA	1.86	0.58
1:G:107:ILE:HG13	1:G:136:GLU:HA	1.86	0.58
2:I:285:ILE:HD12	2:I:286:GLU:N	2.19	0.58
2:I:577:VAL:HG23	2:I:661:VAL:O	2.03	0.58
2:I:810:TYR:HE2	3:J:359:PRO:CD	2.07	0.58
2:I:1042:LEU:N	2:I:1042:LEU:HD23	2.19	0.58
2:I:1121:ALA:HB2	2:I:1182:ILE:HD11	1.86	0.58
2:I:1284:ALA:CB	3:J:1362:GLY:H	2.17	0.58
3:J:36:GLY:O	3:J:104:HIS:ND1	2.37	0.58
3:J:490:ILE:O	3:J:499:ILE:HG22	2.03	0.58
3:J:902:ASP:OD1	3:J:903:LEU:N	2.37	0.58
5:L:227:GLN:HG2	5:L:252:LEU:HA	1.84	0.58
5:L:234:THR:HB	5:L:245:ALA:CB	2.33	0.58
5:L:359:LYS:O	5:L:362:ASN:HB3	2.04	0.58
1:A:191:ARG:NH1	1:A:197:ASP:HA	2.19	0.58
1:B:104:LYS:HG2	1:B:110:VAL:CG2	2.33	0.58
1:B:301:THR:HA	1:B:304:LYS:NZ	2.17	0.58
2:C:5:TYR:CD1	2:C:8:LYS:HD3	2.38	0.58
2:C:143:ARG:HH21	2:C:512:SER:C	2.11	0.58
2:C:432:LEU:HD12	2:C:432:LEU:O	2.04	0.58
2:C:1068:GLY:CA	2:C:1072:ASN:HD21	2.16	0.58
3:D:245:LEU:HG	3:D:246:PRO:CD	2.29	0.58
3:D:925:GLU:OE2	3:D:926:PRO:HG3	2.04	0.58
3:D:1156:LEU:HA	3:D:1208:ASP:O	2.04	0.58
1:G:124:VAL:CG1	1:G:210:THR:HG22	2.33	0.58
1:H:69:SER:H	1:H:78:ILE:CD1	2.16	0.58
2:I:222:ASP:HA	2:I:227:LYS:NZ	2.19	0.58
2:I:557:ARG:CZ	2:I:608:ALA:HA	2.34	0.58
2:I:601:ASP:OD1	2:I:601:ASP:N	2.36	0.58
3:J:263:SER:CA	5:L:507:MET:HE2	2.33	0.58
3:J:843:VAL:HA	3:J:862:THR:O	2.04	0.58
3:J:916:GLY:O	3:J:919:ALA:HB3	2.04	0.58
5:L:272:SER:O	5:L:275:VAL:HB	2.04	0.58
5:L:483:LEU:CD2	5:L:487:MET:HG3	2.32	0.58
1:A:66:HIS:C	1:A:66:HIS:ND1	2.61	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:59:VAL:HG12	1:B:60:GLU:O	2.03	0.58
2:C:161:LYS:O	2:C:163:LYS:N	2.36	0.58
2:C:303:ASP:HB3	2:C:306:THR:HG22	1.85	0.58
2:C:490:GLN:HG3	5:F:472:GLN:CB	2.34	0.58
2:C:1024:GLU:HA	2:C:1027:LYS:CG	2.33	0.58
2:C:1111:GLN:HB2	2:C:1230:MET:CE	2.34	0.58
3:D:384:LYS:NZ	3:D:414:GLU:OE1	2.36	0.58
3:D:427:PRO:O	3:D:429:LEU:HD22	2.03	0.58
3:D:705:THR:OG1	3:D:718:SER:HA	2.03	0.58
3:D:825:VAL:HG22	3:D:833:GLU:N	2.19	0.58
3:D:867:GLN:N	3:D:867:GLN:NE2	2.47	0.58
4:E:19:LEU:HD12	4:E:19:LEU:C	2.28	0.58
5:F:274:ARG:HA	5:F:277:MET:HB3	1.85	0.58
1:G:57:THR:HG22	1:G:158:ARG:NH2	2.18	0.58
1:H:65:LEU:C	1:H:171:LEU:HD11	2.29	0.58
1:H:112:ALA:HA	1:H:130:ILE:HD12	1.86	0.58
2:I:4:SER:H	2:I:7:GLU:HB2	1.68	0.58
2:I:464:PHE:O	2:I:467:GLY:N	2.37	0.58
2:I:571:LEU:O	2:I:572:ILE:HD13	2.04	0.58
2:I:744:GLY:O	2:I:746:ALA:N	2.34	0.58
2:I:1223:ARG:HB3	2:I:1223:ARG:HH11	1.65	0.58
3:J:29:MET:O	3:J:32:SER:HB2	2.04	0.58
3:J:97:VAL:HG11	3:J:101:ARG:NH2	2.18	0.58
3:J:308:ASP:CG	3:J:311:ARG:HE	2.09	0.58
3:J:750:PRO:HA	3:J:777:HIS:NE2	2.19	0.58
3:J:1168:GLU:OE2	3:J:1169:THR:OG1	2.21	0.58
3:J:1371:ARG:HH22	3:J:1372:ARG:NH2	1.96	0.58
5:L:267:ASP:N	5:L:267:ASP:OD1	2.36	0.58
5:L:413:MET:O	5:L:416:VAL:HG12	2.04	0.58
1:B:178:SER:O	1:B:180:VAL:N	2.37	0.58
2:C:971:LEU:HD22	2:C:1018:TYR:CD1	2.38	0.58
2:C:1006:GLU:H	2:C:1006:GLU:CD	2.12	0.58
2:C:1078:LYS:HG2	2:C:1079:ILE:H	1.66	0.58
5:F:487:MET:HB3	5:F:489:MET:CG	2.32	0.58
5:F:577:GLY:C	5:F:579:GLN:H	2.10	0.58
1:G:115:ILE:HG22	1:G:116:THR:H	1.69	0.58
2:I:176:ILE:O	2:I:178:PRO:HD3	2.03	0.58
3:J:220:ARG:O	3:J:223:LEU:HB3	2.04	0.58
3:J:339:ARG:HB3	3:J:340:GLN:HG3	1.86	0.58
5:L:390:ILE:HG21	5:L:436:ARG:HG3	1.86	0.58
2:C:160:ASP:O	2:C:164:THR:OG1	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:358:ASP:CG	2:C:361:SER:HB2	2.29	0.57
2:C:496:LYS:HE3	2:C:497:PRO:HD3	1.86	0.57
2:C:1108:ASN:C	2:C:1110:GLY:H	2.12	0.57
3:D:416:ILE:HG23	3:D:439:PRO:HG2	1.86	0.57
3:D:457:TYR:O	3:D:458:ASN:HB3	2.03	0.57
3:D:1209:VAL:C	3:D:1210:ILE:HD13	2.29	0.57
3:D:1318:SER:OG	3:D:1349:GLU:OE1	2.22	0.57
5:F:394:TYR:CD2	5:F:394:TYR:N	2.70	0.57
2:I:115:LYS:CD	2:I:116:ASP:H	2.16	0.57
2:I:168:GLY:O	2:I:170:VAL:N	2.37	0.57
2:I:216:THR:N	2:I:219:GLN:HB2	2.19	0.57
2:I:469:VAL:HG23	2:I:470:ARG:N	2.19	0.57
2:I:978:VAL:O	2:I:981:ALA:HB3	2.03	0.57
3:J:24:LEU:HB2	3:J:232:ASN:OD1	2.03	0.57
3:J:736:GLN:O	3:J:740:LEU:HD13	2.03	0.57
3:J:759:ILE:HD12	3:J:771:GLN:HB3	1.86	0.57
4:K:60:ASN:OD1	4:K:62:GLN:HB3	2.04	0.57
5:L:406:GLN:HA	5:L:406:GLN:NE2	1.97	0.57
5:L:419:PHE:O	5:L:420:GLU:HB2	2.03	0.57
1:B:153:VAL:HG13	1:B:157:THR:CG2	2.18	0.57
1:B:307:LEU:HD23	1:B:313:SER:O	2.04	0.57
2:C:145:ILE:HG13	2:C:511:LEU:O	2.04	0.57
2:C:407:ARG:O	2:C:407:ARG:HD3	2.03	0.57
2:C:979:LEU:CD2	2:C:1000:LEU:HD12	2.34	0.57
2:C:1029:LEU:O	2:C:1031:ALA:N	2.37	0.57
2:C:1336:ASN:OD1	2:C:1337:ILE:N	2.37	0.57
3:D:81:ARG:O	3:D:83:VAL:N	2.37	0.57
3:D:230:SER:OG	3:D:231:GLY:N	2.32	0.57
3:D:513:MET:CE	3:D:579:LEU:HD22	2.34	0.57
3:D:614:LEU:O	3:D:617:THR:N	2.31	0.57
5:F:512:GLY:O	5:F:513:ASP:HB3	2.03	0.57
1:G:207:THR:HG22	1:G:208:ASN:OD1	2.04	0.57
1:G:228:LEU:HD11	1:H:221:ALA:CB	2.34	0.57
2:I:62:TYR:CE2	2:I:476:LYS:HB3	2.39	0.57
2:I:164:THR:CG2	2:I:171:LEU:HG	2.34	0.57
2:I:173:ASN:HA	2:I:186:PHE:O	2.04	0.57
2:I:538:LEU:HD23	2:I:542:ARG:HH12	1.69	0.57
2:I:593:LYS:O	2:I:600:THR:OG1	2.12	0.57
2:I:899:GLU:O	2:I:902:LEU:N	2.37	0.57
3:J:316:ILE:HB	3:J:321:LYS:O	2.04	0.57
3:J:426:ALA:CB	3:J:427:PRO:HD3	2.28	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:502:PRO:HB3	3:J:506:VAL:HG21	1.86	0.57
3:J:746:LEU:HG	3:J:758:PRO:HG3	1.85	0.57
3:J:850:LYS:HE2	3:J:855:ASP:CB	2.33	0.57
3:J:1327:GLU:O	3:J:1330:ARG:N	2.36	0.57
5:L:404:LEU:HD23	5:L:439:ILE:HD12	1.84	0.57
1:A:201:LEU:HD12	1:A:202:VAL:H	1.68	0.57
2:C:169:LYS:HE2	2:C:190:PRO:O	2.03	0.57
2:C:321:LEU:O	2:C:324:LYS:HB2	2.03	0.57
2:C:390:PHE:C	2:C:419:ILE:HG21	2.29	0.57
2:C:1191:LYS:NZ	2:C:1193:ALA:HB2	2.17	0.57
3:D:40:LYS:HB3	3:D:42:GLU:OE1	2.03	0.57
3:D:58:CYS:SG	3:D:60:ARG:N	2.76	0.57
3:D:79:LYS:HG3	3:D:80:HIS:N	2.19	0.57
3:D:707:ILE:N	3:D:714:GLU:O	2.32	0.57
3:D:847:ASP:CA	3:D:860:ARG:H	2.17	0.57
3:D:1159:ILE:CG2	3:D:1177:ILE:HD12	2.26	0.57
4:E:67:ARG:O	4:E:70:GLN:HB3	2.05	0.57
5:F:246:GLN:O	5:F:249:ILE:HB	2.04	0.57
1:G:12:ARG:N	1:G:30:PRO:HD2	2.13	0.57
1:H:37:HIS:NE2	2:I:1216:ARG:HD2	2.18	0.57
1:H:48:LEU:HD11	3:J:538:ARG:HB2	1.86	0.57
2:I:86:GLN:HG3	2:I:140:GLY:HA2	1.87	0.57
2:I:211:ARG:HD3	2:I:357:ASN:O	2.04	0.57
2:I:823:VAL:HG12	2:I:1079:ILE:HD11	1.85	0.57
2:I:1042:LEU:HD12	2:I:1046:VAL:HG23	1.85	0.57
2:I:1191:LYS:HD3	2:I:1193:ALA:H	1.69	0.57
2:I:1242:LYS:O	2:I:1244:HIS:ND1	2.36	0.57
3:J:56:LEU:HD21	3:J:269:TYR:HB3	1.84	0.57
3:J:327:LEU:O	3:J:330:MET:N	2.26	0.57
3:J:372:MET:O	3:J:376:LEU:N	2.37	0.57
3:J:807:LEU:HD23	3:J:915:ILE:HG13	1.85	0.57
3:J:858:VAL:CG1	3:J:872:LEU:HD11	2.34	0.57
3:J:903:LEU:HB3	3:J:905:ARG:N	2.19	0.57
5:L:461:ASN:O	5:L:465:ARG:N	2.30	0.57
5:L:479:THR:O	5:L:479:THR:OG1	2.18	0.57
1:B:81:ILE:O	1:B:85:LEU:HG	2.04	0.57
2:C:746:ALA:HB1	2:C:974:ARG:HH21	1.70	0.57
2:C:747:GLY:HA2	2:C:970:GLY:O	2.05	0.57
2:C:1269:ARG:CB	3:D:343:LEU:HG	2.34	0.57
3:D:93:THR:HG22	3:D:94:GLN:H	1.69	0.57
3:D:265:LEU:HD13	3:D:327:LEU:HD21	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1313:SER:OG	3:D:1314:LEU:N	2.37	0.57
5:F:389:SER:OG	5:F:390:ILE:N	2.35	0.57
5:F:511:ILE:HG23	5:F:512:GLY:N	2.19	0.57
1:G:97:GLU:HG3	1:G:145:LYS:HE2	1.87	0.57
2:I:151:ARG:CZ	2:I:445:ILE:HD11	2.34	0.57
2:I:152:SER:OG	2:I:153:PRO:O	2.22	0.57
2:I:785:ASP:HB3	2:I:789:THR:OG1	2.05	0.57
2:I:879:GLY:HA2	2:I:921:PRO:O	2.04	0.57
3:J:746:LEU:CG	3:J:758:PRO:HG3	2.34	0.57
3:J:1262:ARG:CZ	3:J:1262:ARG:CB	2.83	0.57
3:J:1322:ALA:HA	3:J:1325:PHE:CE2	2.39	0.57
4:K:36:ASP:HB2	4:K:37:PRO:HD2	1.85	0.57
2:C:84:GLU:OE1	2:C:1035:LYS:HD2	2.04	0.57
2:C:367:TYR:CD1	2:C:381:ALA:HA	2.35	0.57
2:C:637:ARG:HA	2:C:642:SER:HA	1.85	0.57
2:C:850:ILE:HG13	2:C:1048:LYS:HD3	1.85	0.57
3:D:655:SER:HA	3:D:658:GLU:CB	2.35	0.57
3:D:843:VAL:CG1	3:D:897:HIS:O	2.52	0.57
3:D:1259:GLN:HA	3:D:1259:GLN:NE2	2.19	0.57
5:F:137:TYR:HD2	5:F:140:ALA:HB2	1.66	0.57
1:G:37:HIS:CD2	1:G:187:VAL:HG21	2.40	0.57
2:I:130:MET:HA	2:I:136:PHE:CD1	2.40	0.57
2:I:869:GLY:C	2:I:870:ILE:HD12	2.30	0.57
2:I:1128:ILE:HD12	2:I:1176:LEU:CB	2.35	0.57
3:J:265:LEU:HD21	3:J:330:MET:SD	2.44	0.57
3:J:435:GLN:HB2	3:J:457:TYR:OH	2.04	0.57
3:J:903:LEU:HB3	3:J:905:ARG:H	1.68	0.57
3:J:1234:VAL:HG23	3:J:1235:ASN:N	2.19	0.57
3:J:1241:TYR:HD1	3:J:1241:TYR:H	1.53	0.57
5:L:212:ILE:O	5:L:214:PRO:HD3	2.05	0.57
1:B:301:THR:OG1	1:B:304:LYS:NZ	2.37	0.57
2:C:202:ARG:HH11	2:C:369:MET:HG3	1.69	0.57
2:C:599:VAL:CG2	2:C:629:PHE:HE1	2.18	0.57
2:C:1210:ILE:O	2:C:1224:PRO:HA	2.04	0.57
3:D:242:LEU:HD23	3:D:243:PRO:CD	2.32	0.57
5:F:545:HIS:C	5:F:545:HIS:HD1	2.12	0.57
1:G:82:LEU:N	1:G:82:LEU:HD23	2.20	0.57
1:H:44:ARG:O	1:H:48:LEU:HB2	2.04	0.57
2:I:93:SER:OG	2:I:126:GLU:HB3	2.04	0.57
2:I:402:ARG:HH12	2:I:424:ASP:CG	2.13	0.57
2:I:477:GLU:O	2:I:480:SER:HB3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:532:ALA:HB1	2:I:538:LEU:CD1	2.35	0.57
2:I:599:VAL:CG2	2:I:629:PHE:HE1	2.17	0.57
2:I:729:ALA:O	2:I:755:LYS:HE2	2.04	0.57
2:I:1281:TYR:HE2	3:J:431:ARG:CB	2.18	0.57
3:J:75:TYR:N	3:J:75:TYR:HD1	2.03	0.57
3:J:309:ASN:H	3:J:326:SER:CB	2.17	0.57
3:J:350:SER:HA	3:J:468:VAL:O	2.04	0.57
3:J:521:LYS:HD2	3:J:541:LEU:O	2.04	0.57
3:J:866:GLU:OE2	3:J:901:ARG:NH2	2.38	0.57
5:L:119:ILE:O	5:L:122:ARG:N	2.38	0.57
1:A:98:VAL:HG21	1:A:121:VAL:HG21	1.86	0.57
2:C:344:GLY:HA3	2:C:346:TYR:CZ	2.39	0.57
2:C:382:GLU:O	2:C:386:GLU:HG2	2.05	0.57
2:C:501:ALA:O	2:C:504:GLU:HB3	2.03	0.57
2:C:857:VAL:HG21	2:C:862:LEU:HD21	1.87	0.57
2:C:1113:LEU:HG	3:D:641:ILE:HD11	1.86	0.57
3:D:198:CYS:HB3	3:D:202:ARG:CZ	2.34	0.57
3:D:348:ASP:HB3	3:D:349:TYR:CD1	2.39	0.57
3:D:474:LEU:CD1	3:D:477:GLN:HE21	2.18	0.57
3:D:788:LEU:CD1	3:D:791:ALA:HB3	2.35	0.57
3:D:903:LEU:HB2	3:D:905:ARG:HG3	1.87	0.57
5:F:476:ARG:HB3	5:F:477:GLU:HG2	1.85	0.57
1:H:16:ILE:HA	1:H:26:VAL:HG22	1.86	0.57
2:I:74:ARG:NH2	2:I:97:ARG:HG3	2.19	0.57
2:I:397:LEU:HB3	2:I:401:GLY:HA3	1.86	0.57
2:I:452:ARG:NH1	2:I:584:TYR:O	2.38	0.57
2:I:616:ILE:HG22	2:I:617:ALA:O	2.04	0.57
2:I:764:CYS:HB2	2:I:833:ILE:HG13	1.87	0.57
2:I:1017:GLN:O	2:I:1021:LEU:HG	2.04	0.57
2:I:1191:LYS:CE	2:I:1192:GLU:HB2	2.34	0.57
3:J:16:GLU:HA	3:J:16:GLU:OE2	2.05	0.57
3:J:557:LYS:HA	3:J:563:LEU:HA	1.86	0.57
3:J:584:PRO:CD	3:J:587:LEU:HD13	2.35	0.57
5:L:117:ILE:HG13	5:L:421:TYR:HB2	1.86	0.57
5:L:387:VAL:HA	5:L:390:ILE:HD11	1.86	0.57
1:A:156:SER:C	1:A:158:ARG:H	2.12	0.57
1:B:273:GLU:CD	1:B:293:PRO:HG2	2.30	0.57
1:B:289:LEU:CB	1:B:300:LEU:HD21	2.34	0.57
2:C:531:SER:C	2:C:533:LEU:H	2.13	0.57
2:C:745:GLU:HB2	2:C:1017:GLN:CB	2.34	0.57
2:C:764:CYS:HB3	2:C:831:ILE:HG22	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:887:VAL:HB	2:C:913:VAL:HG22	1.86	0.57
2:C:942:ASP:O	2:C:945:ALA:HB3	2.05	0.57
3:D:431:ARG:N	3:D:921:GLN:OE1	2.37	0.57
5:F:286:LEU:HD11	5:F:290:LEU:HD11	1.86	0.57
5:F:324:LYS:HG3	5:F:326:TRP:CZ2	2.40	0.57
5:F:462:LYS:NZ	5:F:489:MET:HE3	2.20	0.57
1:H:95:LYS:HD3	1:H:120:ASP:HB2	1.87	0.57
2:I:10:ARG:NH2	2:I:790:ASP:OD2	2.38	0.57
2:I:31:GLN:NE2	2:I:145:ILE:O	2.37	0.57
2:I:159:SER:OG	2:I:160:ASP:N	2.32	0.57
2:I:184:LEU:HD12	2:I:185:ASP:N	2.20	0.57
2:I:237:LEU:CD1	2:I:292:ILE:HD11	2.35	0.57
2:I:564:PRO:O	2:I:569:ILE:HG23	2.05	0.57
2:I:810:TYR:HD1	2:I:1078:LYS:HD2	1.69	0.57
3:J:650:LYS:HE2	3:J:654:ILE:HD11	1.86	0.57
3:J:748:ALA:CB	3:J:754:ILE:HA	2.34	0.57
5:L:433:TRP:NE1	5:L:437:GLN:OE1	2.36	0.57
1:A:28:LEU:HD12	1:A:28:LEU:N	2.18	0.57
1:A:60:GLU:CG	1:A:143:ARG:HH21	2.18	0.57
1:B:76:GLU:CA	1:B:80:GLU:HG2	2.35	0.57
2:C:63:SER:C	2:C:65:ASN:N	2.58	0.57
2:C:130:MET:HG3	2:C:134:GLY:HA2	1.86	0.57
2:C:310:ILE:HG21	2:C:325:LEU:HB3	1.86	0.57
2:C:1107:MET:CE	3:D:736:GLN:HG2	2.34	0.57
2:C:1256:GLN:O	2:C:1301:ARG:NH2	2.38	0.57
2:C:1281:TYR:CE1	3:D:484:MET:HE3	2.40	0.57
2:C:1329:GLU:HA	3:D:245:LEU:CD1	2.35	0.57
3:D:161:THR:HG22	3:D:164:GLN:CG	2.35	0.57
3:D:1199:PHE:HB2	3:D:1202:GLU:HB2	1.87	0.57
4:E:59:ILE:HG23	4:E:64:LEU:HD21	1.85	0.57
5:F:240:ARG:HD3	5:F:244:THR:CG2	2.34	0.57
5:F:345:GLN:O	5:F:348:GLU:HB2	2.05	0.57
5:F:367:ILE:HD13	5:F:367:ILE:N	2.18	0.57
1:G:73:GLY:HA2	2:I:726:TYR:OH	2.04	0.57
1:G:79:LEU:HD13	1:G:83:LEU:HD13	1.87	0.57
1:G:124:VAL:HG21	1:G:209:GLY:C	2.30	0.57
1:G:191:ARG:HH12	1:G:198:LEU:H	1.53	0.57
2:I:517:GLN:HE21	2:I:759:SER:CB	2.18	0.57
2:I:569:ILE:O	2:I:571:LEU:N	2.37	0.57
2:I:848:GLU:CD	2:I:888:THR:HG22	2.29	0.57
2:I:1143:GLU:OE1	2:I:1147:ARG:NH1	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1281:TYR:N	2:I:1281:TYR:HD2	2.03	0.57
2:I:1282:GLY:O	3:J:1360:GLY:HA3	2.05	0.57
2:I:1323:PHE:CD1	2:I:1327:LEU:HD11	2.40	0.57
3:J:210:SER:O	3:J:214:ARG:HG2	2.05	0.57
3:J:491:LEU:HD22	3:J:497:GLU:O	2.04	0.57
3:J:572:THR:HG21	3:J:589:TYR:OH	2.04	0.57
3:J:608:CYS:HG	3:J:620:PHE:HD2	1.51	0.57
3:J:866:GLU:N	3:J:866:GLU:OE1	2.35	0.57
5:L:305:LEU:HD21	5:L:322:MET:HE1	1.85	0.57
1:A:227:GLN:HG2	1:B:35:PHE:HD2	1.68	0.57
1:B:69:SER:H	1:B:78:ILE:CD1	2.15	0.57
1:B:104:LYS:CG	1:B:110:VAL:HG22	2.34	0.57
2:C:201:ARG:HB3	2:C:369:MET:CE	2.35	0.57
2:C:1108:ASN:O	2:C:1110:GLY:N	2.38	0.57
2:C:1138:VAL:HG11	2:C:1165:SER:O	2.05	0.57
3:D:357:VAL:CG2	3:D:461:PHE:CE1	2.78	0.57
3:D:591:ILE:CG2	3:D:592:VAL:HG13	2.31	0.57
3:D:802:ASP:CG	3:D:1325:PHE:HD2	2.11	0.57
5:F:343:LYS:O	5:F:347:ILE:HG13	2.05	0.57
2:I:5:TYR:C	2:I:8:LYS:HG2	2.29	0.57
2:I:390:PHE:CA	2:I:419:ILE:HG21	2.33	0.57
2:I:528:ARG:HD3	2:I:663:VAL:HG21	1.85	0.57
2:I:563:THR:HG21	2:I:569:ILE:HG22	1.86	0.57
2:I:748:ILE:HD13	2:I:748:ILE:N	2.20	0.57
2:I:1043:ALA:O	2:I:1046:VAL:HG13	2.03	0.57
2:I:1069:ARG:NH2	2:I:1231:TYR:HB3	2.19	0.57
2:I:1223:ARG:HB2	3:J:636:GLY:O	2.05	0.57
2:I:1285:TYR:HD1	3:J:1361:THR:HG21	1.70	0.57
3:J:114:ILE:HB	3:J:304:ASP:OD1	2.05	0.57
3:J:294:ASN:HD22	5:L:406:GLN:CD	2.12	0.57
3:J:341:ASN:C	3:J:342:LEU:HD23	2.28	0.57
3:J:555:TYR:CE1	3:J:565:ALA:HB2	2.40	0.57
3:J:1159:ILE:HD12	3:J:1160:SER:H	1.70	0.57
5:L:120:ALA:CB	5:L:421:TYR:HB3	2.35	0.57
1:A:56:VAL:CG2	1:A:173:VAL:HG21	2.35	0.56
1:B:256:PRO:O	1:B:258:ASP:N	2.37	0.56
1:B:269:CYS:O	1:B:272:ALA:HB3	2.05	0.56
1:B:295:LEU:HD21	1:B:300:LEU:HD23	1.87	0.56
2:C:524:ILE:CD1	2:C:712:SER:CB	2.82	0.56
2:C:1124:ILE:HG21	2:C:1180:MET:HE3	1.83	0.56
2:C:1258:PRO:HG2	3:D:346:ARG:C	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1305:TYR:OH	5:F:532:LEU:HG	2.05	0.56
3:D:298:MET:O	3:D:301:GLU:HB3	2.04	0.56
3:D:606:ASN:OD1	3:D:610:ARG:NE	2.38	0.56
3:D:1259:GLN:HE21	3:D:1262:ARG:NH1	2.03	0.56
5:F:141:ILE:O	5:F:144:LEU:HB3	2.05	0.56
2:I:672:GLU:HG2	2:I:1187:PHE:HD2	1.70	0.56
2:I:1175:ASN:C	2:I:1176:LEU:HD23	2.30	0.56
3:J:576:ARG:HB3	3:J:592:VAL:O	2.05	0.56
3:J:1321:SER:O	3:J:1324:SER:HB2	2.05	0.56
5:L:270:VAL:CA	5:L:273:MET:HE2	2.30	0.56
5:L:446:GLN:HG3	5:L:446:GLN:O	2.05	0.56
5:L:479:THR:O	5:L:482:GLU:N	2.38	0.56
1:A:12:ARG:H	1:A:30:PRO:HD2	1.68	0.56
1:A:18:GLN:HG3	1:A:24:ALA:HB2	1.86	0.56
1:A:54:CYS:HB3	1:A:148:ARG:CA	2.26	0.56
2:C:62:TYR:C	2:C:64:GLY:N	2.62	0.56
2:C:463:GLN:HE22	2:C:501:ALA:HB1	1.70	0.56
2:C:490:GLN:HG3	5:F:472:GLN:HB3	1.88	0.56
2:C:689:ALA:HB2	2:C:1233:LEU:HD23	1.85	0.56
2:C:1128:ILE:HD13	2:C:1145:ILE:HD11	1.86	0.56
3:D:317:THR:HG23	3:D:318:GLY:O	2.05	0.56
3:D:396:ALA:HB2	5:F:606:VAL:CG1	2.34	0.56
3:D:415:VAL:CG2	3:D:416:ILE:HD13	2.35	0.56
3:D:532:GLU:HG3	3:D:532:GLU:O	2.05	0.56
4:E:68:GLU:C	4:E:70:GLN:H	2.13	0.56
5:F:374:ARG:HH11	5:F:374:ARG:HG3	1.70	0.56
1:H:196:THR:HG22	1:H:197:ASP:N	2.21	0.56
1:H:225:ALA:O	1:H:228:LEU:HB2	2.05	0.56
2:I:53:PHE:CE2	2:I:73:TYR:HB3	2.37	0.56
2:I:57:PHE:HD1	2:I:70:TYR:N	2.02	0.56
2:I:489:PRO:O	2:I:490:GLN:HB2	2.05	0.56
3:J:153:ASN:H	3:J:154:LEU:HD12	1.69	0.56
3:J:211:GLU:OE2	3:J:214:ARG:NH1	2.38	0.56
3:J:770:LEU:HD13	3:J:770:LEU:N	2.20	0.56
5:L:511:ILE:HG23	5:L:512:GLY:N	2.20	0.56
1:A:102:LEU:HD22	1:A:103:ASN:N	2.20	0.56
1:A:194:GLN:O	1:A:195:ARG:HB2	2.04	0.56
1:B:53:GLY:HA3	1:B:179:PRO:HD3	1.85	0.56
1:B:79:LEU:HD23	1:B:79:LEU:H	1.70	0.56
1:B:264:VAL:O	1:B:267:ALA:HB3	2.06	0.56
2:C:39:ILE:HD11	2:C:75:LEU:HG	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:215:TYR:CE2	2:C:422:LYS:HD2	2.38	0.56
2:C:245:ARG:HG2	2:C:337:PHE:CE2	2.40	0.56
2:C:268:ARG:NH2	2:C:270:THR:HG21	2.20	0.56
2:C:292:ILE:O	2:C:292:ILE:HG22	2.04	0.56
2:C:300:ASP:OD1	2:C:313:ALA:N	2.38	0.56
2:C:698:PRO:HB3	2:C:1231:TYR:CZ	2.41	0.56
2:C:818:VAL:HG22	2:C:1096:ILE:HG12	1.86	0.56
2:C:998:LEU:H	2:C:998:LEU:HD12	1.70	0.56
2:C:1334:GLY:O	3:D:25:ALA:HB2	2.05	0.56
3:D:41:PRO:HA	3:D:56:LEU:HD11	1.85	0.56
3:D:199:GLU:O	3:D:203:GLU:HG3	2.05	0.56
3:D:291:ILE:HG23	5:F:406:GLN:OE1	2.06	0.56
3:D:316:ILE:O	3:D:324:LEU:HD11	2.05	0.56
3:D:344:GLY:O	3:D:345:LYS:O	2.23	0.56
3:D:612:LEU:HD12	3:D:612:LEU:N	2.20	0.56
3:D:620:PHE:O	3:D:624:ILE:N	2.36	0.56
3:D:672:LEU:HD12	3:D:672:LEU:H	1.69	0.56
3:D:679:TYR:C	3:D:679:TYR:CD2	2.84	0.56
3:D:750:PRO:O	3:D:752:GLY:N	2.38	0.56
3:D:795:TYR:C	3:D:795:TYR:HD2	2.14	0.56
3:D:810:THR:OG1	3:D:811:GLU:N	2.38	0.56
3:D:1142:ALA:O	3:D:1146:GLU:HB2	2.05	0.56
5:F:107:THR:O	5:F:107:THR:OG1	2.18	0.56
5:F:562:ARG:O	5:F:563:PHE:HD1	1.88	0.56
1:G:11:PRO:HD3	1:H:227:GLN:OE1	2.04	0.56
1:H:86:LYS:NZ	1:H:174:ASP:OD2	2.37	0.56
2:I:62:TYR:C	2:I:64:GLY:N	2.60	0.56
2:I:76:GLY:CA	2:I:95:PRO:HD2	2.34	0.56
2:I:186:PHE:HE1	2:I:429:MET:HE3	1.70	0.56
2:I:510:GLN:NE2	2:I:534:GLY:HA2	2.20	0.56
2:I:517:GLN:O	2:I:517:GLN:HG2	2.04	0.56
2:I:698:PRO:HG3	2:I:1231:TYR:CZ	2.41	0.56
2:I:1334:GLY:O	3:J:25:ALA:HB3	2.05	0.56
3:J:34:SER:OG	3:J:36:GLY:O	2.22	0.56
3:J:101:ARG:HG2	3:J:101:ARG:HH11	1.70	0.56
3:J:313:GLY:C	3:J:314:ARG:HG3	2.31	0.56
3:J:485:MET:HG3	3:J:486:SER:N	2.20	0.56
3:J:663:GLU:O	3:J:667:GLN:HG3	2.05	0.56
3:J:750:PRO:O	3:J:752:GLY:N	2.39	0.56
3:J:1241:TYR:O	3:J:1244:GLN:N	2.36	0.56
3:J:1252:HIS:O	3:J:1255:VAL:CG1	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:139:GLU:C	5:L:141:ILE:H	2.09	0.56
5:L:297:MET:HG3	5:L:326:TRP:CE3	2.39	0.56
5:L:497:VAL:HG12	5:L:498:LEU:HD22	1.87	0.56
5:L:532:LEU:HD13	5:L:532:LEU:C	2.30	0.56
1:A:217:ILE:O	1:A:220:ALA:HB3	2.05	0.56
1:B:196:THR:HG22	1:B:197:ASP:CB	2.35	0.56
3:D:107:LEU:HD12	3:D:240:THR:C	2.30	0.56
3:D:674:THR:HG23	3:D:677:GLU:OE1	2.06	0.56
3:D:748:ALA:CA	3:D:754:ILE:HA	2.34	0.56
3:D:1358:PRO:HB3	3:D:1366:HIS:ND1	2.21	0.56
5:F:121:LYS:HE2	5:F:421:TYR:CE1	2.40	0.56
5:F:439:ILE:O	5:F:443:ILE:HG13	2.05	0.56
5:F:497:VAL:HG12	5:F:498:LEU:N	2.21	0.56
2:I:82:VAL:HG22	2:I:92:TYR:CE1	2.39	0.56
2:I:158:ASP:CG	2:I:159:SER:N	2.64	0.56
2:I:168:GLY:C	2:I:170:VAL:H	2.12	0.56
2:I:369:MET:O	2:I:372:PRO:HD3	2.05	0.56
2:I:521:LEU:O	2:I:524:ILE:HG22	2.04	0.56
2:I:1305:TYR:CE2	5:L:532:LEU:HA	2.41	0.56
3:J:302:ALA:O	3:J:305:ALA:HB3	2.06	0.56
3:J:322:ARG:CG	3:J:323:PRO:HD2	2.35	0.56
3:J:611:ILE:CG2	3:J:612:LEU:HD12	2.34	0.56
3:J:709:ARG:HD2	3:J:710:ASP:H	1.69	0.56
3:J:781:LYS:HG2	3:J:785:ASP:OD2	2.06	0.56
3:J:865:HIS:HE1	3:J:867:GLN:HB2	1.67	0.56
3:J:1332:LEU:H	3:J:1332:LEU:CD2	2.19	0.56
3:J:1332:LEU:H	3:J:1332:LEU:HD22	1.68	0.56
4:K:71:GLU:O	4:K:75:GLN:HG3	2.05	0.56
5:L:251:LYS:O	5:L:254:GLU:HB2	2.06	0.56
5:L:355:ILE:HA	5:L:358:VAL:CG2	2.35	0.56
5:L:461:ASN:HA	5:L:464:ASN:HB2	1.86	0.56
1:A:27:THR:HG22	1:A:200:LYS:HG3	1.87	0.56
1:A:117:HIS:CE1	1:A:119:GLY:HA2	2.40	0.56
1:B:256:PRO:HA	1:B:277:TYR:HA	1.87	0.56
2:C:624:ASP:OD1	2:C:625:GLU:N	2.25	0.56
2:C:670:PHE:CD2	2:C:1113:LEU:CB	2.87	0.56
2:C:1082:ILE:H	2:C:1082:ILE:HD12	1.69	0.56
2:C:1142:ARG:NH2	2:C:1165:SER:CB	2.66	0.56
3:D:1319:PHE:C	3:D:1319:PHE:HD1	2.14	0.56
5:F:113:ARG:HA	5:F:116:GLU:CD	2.30	0.56
5:F:495:ARG:CA	5:F:498:LEU:HD23	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:124:VAL:HG21	1:G:210:THR:N	2.20	0.56
2:I:669:PRO:CA	2:I:702:THR:HG22	2.36	0.56
2:I:685:MET:O	2:I:1235:LEU:HD11	2.05	0.56
2:I:1272:GLU:CB	3:J:342:LEU:HG	2.35	0.56
3:J:37:GLU:O	3:J:39:LYS:HG3	2.06	0.56
3:J:97:VAL:C	3:J:99:ARG:H	2.13	0.56
3:J:267:ASP:HA	3:J:270:ARG:HH21	1.69	0.56
3:J:580:TRP:CA	3:J:583:VAL:HG23	2.34	0.56
1:A:71:LYS:HB3	1:A:74:VAL:HG13	1.85	0.56
1:B:85:LEU:C	1:B:87:GLY:H	2.13	0.56
1:B:151:GLY:H	1:B:177:TYR:CB	2.19	0.56
2:C:263:VAL:HG13	2:C:267:ARG:HB3	1.86	0.56
2:C:551:HIS:O	2:C:554:HIS:N	2.33	0.56
2:C:617:ALA:HB3	2:C:653:MET:HG3	1.88	0.56
2:C:624:ASP:CG	2:C:625:GLU:H	2.11	0.56
2:C:1240:ASP:HB2	3:D:445:LYS:HZ3	1.71	0.56
3:D:55:GLY:O	3:D:57:PHE:N	2.38	0.56
3:D:233:LYS:HB3	3:D:235:GLU:OE2	2.05	0.56
3:D:872:LEU:HD22	3:D:877:VAL:CG2	2.36	0.56
3:D:1156:LEU:HG	3:D:1224:ARG:HH21	1.71	0.56
5:F:102:MET:O	5:F:105:MET:HE2	2.06	0.56
5:F:386:LEU:O	5:F:389:SER:OG	2.16	0.56
2:I:13:LYS:N	2:I:1181:PRO:O	2.30	0.56
2:I:664:GLY:O	2:I:667:LEU:HB2	2.05	0.56
2:I:737:ASN:HB3	2:I:739:ASP:OD1	2.06	0.56
2:I:1142:ARG:HH11	2:I:1169:VAL:HG21	1.70	0.56
3:J:52:GLU:HG2	5:L:451:ARG:HH11	1.67	0.56
3:J:368:LEU:HD23	3:J:369:PRO:N	2.20	0.56
3:J:528:THR:HG22	3:J:532:GLU:CD	2.31	0.56
3:J:875:ASN:C	3:J:877:VAL:H	2.13	0.56
3:J:1256:ILE:O	3:J:1259:GLN:HB2	2.05	0.56
4:K:29:GLN:O	4:K:35:LYS:N	2.38	0.56
5:L:102:MET:O	5:L:105:MET:N	2.39	0.56
5:L:106:GLY:O	5:L:108:VAL:N	2.39	0.56
1:B:183:ILE:HG22	1:B:205:MET:CG	2.16	0.56
2:C:28:LEU:HD21	2:C:527:LYS:HD2	1.87	0.56
2:C:758:ARG:HA	2:C:833:ILE:HG21	1.88	0.56
2:C:929:ILE:O	2:C:930:ASP:HB2	2.05	0.56
2:C:1160:ASP:HB2	2:C:1162:SER:H	1.70	0.56
2:C:1328:LYS:HE2	3:D:102:MET:CG	2.35	0.56
2:C:1340:GLU:HG3	3:D:21:LYS:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:313:GLY:C	3:D:314:ARG:CG	2.79	0.56
3:D:332:LYS:C	3:D:334:LYS:H	2.12	0.56
3:D:364:HIS:HB2	3:D:485:MET:HE2	1.85	0.56
3:D:517:CYS:H	3:D:545:HIS:HB2	1.70	0.56
3:D:588:PRO:HB2	3:D:590:SER:HG	1.69	0.56
3:D:704:GLU:O	3:D:706:VAL:N	2.38	0.56
5:F:525:ASP:OD2	5:F:528:LEU:HG	2.06	0.56
1:G:45:ARG:O	1:G:45:ARG:HD3	2.04	0.56
1:G:79:LEU:O	1:G:79:LEU:HD13	2.05	0.56
1:H:74:VAL:HG11	1:H:81:ILE:HD11	1.88	0.56
2:I:148:GLN:OE1	2:I:454:ARG:NH1	2.39	0.56
2:I:546:GLU:H	2:I:546:GLU:CD	2.11	0.56
2:I:1143:GLU:OE1	2:I:1147:ARG:HD3	2.05	0.56
2:I:1296:ASP:OD2	2:I:1321:GLU:N	2.39	0.56
3:J:44:ILE:CD1	3:J:260:PHE:CE2	2.88	0.56
3:J:44:ILE:HG13	5:L:450:ILE:HG22	1.87	0.56
3:J:135:ILE:HG23	3:J:185:ILE:HD12	1.88	0.56
3:J:138:VAL:HG11	3:J:145:VAL:HG11	1.88	0.56
3:J:544:LEU:O	3:J:575:GLY:N	2.38	0.56
3:J:670:SER:HB2	3:J:672:LEU:HD13	1.86	0.56
3:J:1170:LYS:C	3:J:1172:LYS:N	2.61	0.56
3:J:1183:SER:C	3:J:1185:PRO:HD3	2.30	0.56
3:J:1348:LYS:O	3:J:1352:ILE:HD13	2.06	0.56
1:A:134:THR:HG23	2:C:726:TYR:CE1	2.41	0.56
1:A:190:ALA:O	1:A:191:ARG:NH1	2.39	0.56
2:C:30:ILE:HD12	2:C:30:ILE:N	2.19	0.56
2:C:179:TYR:OH	2:C:458:GLU:OE2	2.19	0.56
2:C:660:VAL:HG22	2:C:661:VAL:CG1	2.36	0.56
2:C:838:CYS:HB2	2:C:918:LEU:HB3	1.87	0.56
3:D:627:THR:HG23	3:D:628:GLY:H	1.71	0.56
3:D:849:LEU:HD22	3:D:849:LEU:N	2.15	0.56
5:F:117:ILE:HG23	5:F:421:TYR:CD1	2.41	0.56
5:F:347:ILE:HG22	5:F:351:THR:HG23	1.88	0.56
2:I:70:TYR:CZ	2:I:72:SER:HA	2.41	0.56
2:I:538:LEU:HD23	2:I:542:ARG:NH1	2.21	0.56
2:I:710:VAL:HA	2:I:715:THR:CG2	2.35	0.56
2:I:878:THR:OG1	2:I:879:GLY:N	2.34	0.56
2:I:897:PRO:HB3	5:L:565:ILE:HB	1.87	0.56
3:J:368:LEU:HD23	3:J:369:PRO:O	2.06	0.56
3:J:500:ILE:HG22	3:J:500:ILE:O	2.05	0.56
3:J:517:CYS:N	3:J:545:HIS:HB2	2.15	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:462:LYS:O	5:L:466:ILE:N	2.22	0.56
2:C:17:LYS:H	2:C:1188:ASP:CG	2.14	0.56
2:C:242:VAL:HG23	2:C:245:ARG:HD2	1.87	0.56
2:C:285:ILE:HD12	2:C:286:GLU:O	2.06	0.56
2:C:617:ALA:HB3	2:C:653:MET:CG	2.36	0.56
2:C:1164:PHE:HB2	2:C:1168:GLU:OE1	2.06	0.56
3:D:34:SER:OG	3:D:103:GLY:HA2	2.06	0.56
3:D:325:LYS:HE3	3:D:330:MET:HG2	1.88	0.56
3:D:754:ILE:HG13	3:D:755:ILE:N	2.20	0.56
3:D:797:THR:O	3:D:800:LEU:N	2.39	0.56
3:D:1279:GLN:HB3	3:D:1281:GLU:OE2	2.06	0.56
5:F:268:TYR:O	5:F:271:ASN:HB3	2.06	0.56
5:F:557:LYS:O	5:F:561:MET:HE3	2.06	0.56
2:I:211:ARG:HH22	2:I:351:LEU:HD21	1.71	0.56
2:I:213:LEU:N	2:I:213:LEU:HD23	2.20	0.56
2:I:665:ALA:C	2:I:667:LEU:N	2.64	0.56
2:I:1127:LYS:HE3	2:I:1201:LEU:O	2.06	0.56
3:J:734:ALA:HA	3:J:737:ILE:HG12	1.88	0.56
3:J:905:ARG:NH1	4:K:16:ARG:HB2	2.21	0.56
3:J:1199:PHE:HB2	3:J:1202:GLU:CB	2.35	0.56
5:L:596:ARG:HA	5:L:596:ARG:HE	1.69	0.56
1:B:286:GLU:OE2	1:B:304:LYS:HD3	2.06	0.56
2:C:637:ARG:HA	2:C:641:GLU:O	2.05	0.56
2:C:680:LEU:HD13	3:D:783:LEU:CD1	2.36	0.56
2:C:720:ARG:NH2	2:C:742:TYR:H	2.04	0.56
2:C:1191:LYS:NZ	2:C:1193:ALA:H	2.04	0.56
2:C:1315:MET:CE	2:C:1317:PRO:HD3	2.31	0.56
3:D:116:PHE:CD1	3:D:1333:THR:HG22	2.41	0.56
3:D:279:LEU:HD12	3:D:295:GLU:CB	2.35	0.56
3:D:495:ASN:O	3:D:495:ASN:ND2	2.39	0.56
3:D:707:ILE:HD12	3:D:714:GLU:O	2.05	0.56
5:F:484:ALA:HB1	5:F:490:PRO:O	2.06	0.56
1:G:88:LEU:HD11	1:G:125:LYS:HG3	1.88	0.56
1:G:191:ARG:NH1	1:G:198:LEU:H	2.04	0.56
2:I:12:ARG:HG3	2:I:1181:PRO:CB	2.36	0.56
2:I:231:GLU:OE2	2:I:233:ARG:HD2	2.06	0.56
2:I:810:TYR:CE2	3:J:359:PRO:CD	2.78	0.56
2:I:1182:ILE:HG22	2:I:1183:ALA:N	2.19	0.56
2:I:1240:ASP:HB3	3:J:445:LYS:HZ3	1.69	0.56
2:I:1259:LEU:HD12	3:J:346:ARG:NH1	2.21	0.56
3:J:56:LEU:HD12	3:J:56:LEU:H	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:128:LEU:HD11	3:J:189:LEU:CD2	2.33	0.56
3:J:641:ILE:HA	3:J:644:MET:CE	2.36	0.56
3:J:848:VAL:HB	3:J:857:LEU:HD12	1.88	0.56
3:J:1292:LEU:HD12	3:J:1292:LEU:N	2.21	0.56
1:B:81:ILE:O	1:B:83:LEU:N	2.39	0.55
1:B:206:GLU:OE1	3:D:531:LYS:NZ	2.24	0.55
2:C:42:ASP:OD1	2:C:44:GLU:HG2	2.06	0.55
2:C:115:LYS:HE2	2:C:116:ASP:C	2.31	0.55
2:C:582:ASN:HB3	2:C:586:PHE:H	1.71	0.55
2:C:886:LYS:H	2:C:917:SER:HB3	1.71	0.55
2:C:1304:MET:HE3	2:C:1308:ILE:HD11	1.87	0.55
3:D:827:GLU:O	3:D:829:GLY:N	2.39	0.55
3:D:847:ASP:OD2	3:D:860:ARG:HG2	2.06	0.55
3:D:1138:LEU:HB3	3:D:1139:PRO:HD3	1.88	0.55
3:D:1356:LEU:O	3:D:1366:HIS:HE1	1.89	0.55
4:E:48:VAL:O	4:E:51:LEU:HB2	2.05	0.55
5:F:275:VAL:O	5:F:278:ASP:HB2	2.05	0.55
1:G:71:LYS:HB3	1:G:74:VAL:HG13	1.88	0.55
1:H:74:VAL:HG22	1:H:132:HIS:O	2.06	0.55
2:I:385:PHE:HE2	2:I:390:PHE:CE2	2.24	0.55
2:I:593:LYS:HE3	2:I:595:THR:CG2	2.36	0.55
3:J:103:GLY:C	3:J:244:VAL:HG13	2.31	0.55
3:J:181:GLY:O	3:J:183:GLU:HG3	2.06	0.55
3:J:295:GLU:O	3:J:298:MET:N	2.39	0.55
3:J:351:GLY:O	3:J:352:ARG:HB3	2.06	0.55
3:J:608:CYS:SG	3:J:620:PHE:HD2	2.29	0.55
3:J:793:SER:O	3:J:797:THR:N	2.37	0.55
3:J:888:CYS:SG	3:J:890:THR:N	2.75	0.55
3:J:1155:ILE:O	3:J:1156:LEU:HD13	2.06	0.55
3:J:1257:VAL:HA	3:J:1260:MET:HG3	1.88	0.55
5:L:595:LEU:O	5:L:598:LEU:HD23	2.06	0.55
1:B:109:PRO:HA	1:B:132:HIS:HA	1.87	0.55
1:B:289:LEU:HA	1:B:295:LEU:HD13	1.88	0.55
2:C:558:VAL:CG1	2:C:559:CYS:N	2.68	0.55
2:C:841:ARG:HH11	2:C:841:ARG:HG3	1.70	0.55
2:C:870:ILE:HD11	2:C:1050:VAL:HG11	1.88	0.55
2:C:1155:VAL:HG12	2:C:1156:ARG:N	2.19	0.55
2:C:1281:TYR:CD2	3:D:431:ARG:HB2	2.40	0.55
3:D:615:LYS:HE2	3:D:616:PRO:CD	2.32	0.55
3:D:710:ASP:CG	3:D:711:GLY:N	2.63	0.55
3:D:795:TYR:HE2	3:D:799:ARG:CD	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:96:ASP:OD1	5:F:98:VAL:HG13	2.05	0.55
5:F:573:LEU:CD1	5:F:573:LEU:N	2.70	0.55
1:H:13:LEU:HA	1:H:28:LEU:HD12	1.89	0.55
2:I:34:SER:O	2:I:457:GLY:HA3	2.07	0.55
2:I:159:SER:HA	2:I:172:TYR:HD1	1.70	0.55
2:I:277:LEU:HA	2:I:280:ASP:HB2	1.87	0.55
2:I:564:PRO:HD3	2:I:572:ILE:HB	1.88	0.55
2:I:802:VAL:HG23	2:I:1098:LEU:HD13	1.87	0.55
2:I:839:VAL:HG12	2:I:1049:ILE:HD13	1.86	0.55
2:I:1075:VAL:N	3:J:461:PHE:O	2.32	0.55
2:I:1327:LEU:HD12	2:I:1327:LEU:H	1.72	0.55
3:J:272:VAL:HG22	3:J:302:ALA:HB1	1.86	0.55
3:J:352:ARG:HB3	3:J:467:ALA:HA	1.89	0.55
3:J:743:MET:HB2	3:J:760:THR:HA	1.88	0.55
3:J:839:VAL:HG13	3:J:882:VAL:HG21	1.89	0.55
3:J:1313:SER:OG	3:J:1314:LEU:N	2.39	0.55
4:K:53:GLU:HB3	4:K:59:ILE:CG1	2.30	0.55
1:A:9:LEU:HB2	1:A:32:GLU:CG	2.36	0.55
1:B:54:CYS:SG	1:B:92:VAL:HG23	2.47	0.55
1:B:89:ALA:O	1:B:123:ILE:HD12	2.06	0.55
2:C:189:ASP:HB3	2:C:195:PHE:CE2	2.41	0.55
2:C:729:ALA:O	2:C:755:LYS:NZ	2.36	0.55
2:C:1253:LEU:HD13	3:D:253:VAL:CG1	2.36	0.55
3:D:212:THR:HA	3:D:215:LYS:HZ3	1.70	0.55
3:D:516:ASP:CA	3:D:545:HIS:HB2	2.36	0.55
5:F:574:GLU:OE1	5:F:584:ARG:NH1	2.39	0.55
1:H:9:LEU:HB3	1:H:32:GLU:CG	2.36	0.55
2:I:4:SER:HB3	2:I:7:GLU:CD	2.30	0.55
2:I:243:PRO:O	2:I:246:LEU:HD12	2.07	0.55
2:I:413:GLU:HA	2:I:413:GLU:OE2	2.06	0.55
2:I:617:ALA:HB3	2:I:653:MET:CA	2.36	0.55
2:I:903:ARG:O	2:I:907:GLY:N	2.33	0.55
2:I:993:PRO:O	2:I:996:ARG:N	2.37	0.55
2:I:1207:SER:C	2:I:1209:GLN:H	2.14	0.55
2:I:1281:TYR:HD1	3:J:484:MET:HG2	1.70	0.55
3:J:45:ASN:HB3	3:J:50:LYS:H	1.71	0.55
3:J:518:VAL:HG23	3:J:547:ARG:NH2	2.21	0.55
3:J:803:VAL:HG21	3:J:1312:ALA:HB3	1.87	0.55
3:J:1225:GLY:O	3:J:1228:ALA:HB3	2.06	0.55
5:L:536:THR:O	5:L:539:SER:HB3	2.06	0.55
1:B:100:LEU:HD11	1:B:118:ASP:CG	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:176:ILE:HD11	2:C:428:VAL:HG21	1.89	0.55
2:C:253:PHE:CD1	2:C:255:ILE:HG12	2.41	0.55
2:C:522:SER:HA	2:C:525:THR:CG2	2.35	0.55
2:C:1313:HIS:N	4:E:31:GLN:OE1	2.32	0.55
3:D:450:HIS:HE1	3:D:452:LEU:CD1	2.19	0.55
3:D:506:VAL:HG13	3:D:507:VAL:H	1.72	0.55
3:D:701:LEU:CD1	3:D:723:TYR:HB2	2.37	0.55
5:F:419:PHE:CZ	5:F:427:PHE:HD1	2.23	0.55
5:F:575:GLU:HA	5:F:578:LYS:HG3	1.88	0.55
2:I:145:ILE:O	2:I:145:ILE:HG22	2.06	0.55
2:I:484:LEU:O	2:I:486:THR:N	2.35	0.55
2:I:811:ASN:ND2	2:I:1097:VAL:O	2.39	0.55
2:I:1064:ASP:OD1	2:I:1239:VAL:HG12	2.07	0.55
2:I:1214:ASP:OD1	2:I:1216:ARG:N	2.28	0.55
3:J:37:GLU:HA	3:J:104:HIS:O	2.07	0.55
3:J:52:GLU:CG	5:L:451:ARG:HH11	2.19	0.55
3:J:279:LEU:HD23	3:J:279:LEU:C	2.31	0.55
3:J:279:LEU:HB2	3:J:295:GLU:HG2	1.87	0.55
3:J:295:GLU:O	3:J:298:MET:HB2	2.05	0.55
3:J:357:VAL:HG22	3:J:461:PHE:CD1	2.41	0.55
3:J:513:MET:O	3:J:515:ARG:N	2.36	0.55
3:J:720:ASN:O	3:J:724:MET:HG3	2.07	0.55
3:J:863:LEU:HD11	3:J:901:ARG:HB3	1.89	0.55
3:J:1358:PRO:HB3	3:J:1366:HIS:CG	2.38	0.55
1:A:135:ASP:O	1:A:138:ALA:N	2.36	0.55
1:B:37:HIS:CD2	2:C:1216:ARG:HD2	2.41	0.55
1:B:45:ARG:HB3	1:B:45:ARG:HH11	1.72	0.55
2:C:354:ASP:OD2	2:C:356:THR:OG1	2.20	0.55
2:C:1220:GLN:HG2	2:C:1221:PHE:N	2.21	0.55
3:D:382:TYR:CE1	3:D:398:LYS:HA	2.42	0.55
3:D:511:TYR:OH	3:D:515:ARG:NH1	2.38	0.55
3:D:679:TYR:O	3:D:683:ILE:HG22	2.06	0.55
3:D:751:ASP:HB2	3:D:753:SER:H	1.70	0.55
5:F:274:ARG:O	5:F:277:MET:HB3	2.07	0.55
1:G:219:ARG:HA	1:G:222:THR:HB	1.89	0.55
2:I:569:ILE:C	2:I:571:LEU:H	2.12	0.55
2:I:692:THR:OG1	2:I:798:GLN:NE2	2.36	0.55
2:I:888:THR:O	2:I:913:VAL:HG23	2.06	0.55
2:I:1272:GLU:HB2	3:J:342:LEU:HG	1.88	0.55
3:J:318:GLY:C	3:J:320:ASN:H	2.13	0.55
3:J:394:ILE:HA	3:J:397:ALA:CB	2.32	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1233:ILE:HG21	3:J:1257:VAL:HG22	1.88	0.55
5:L:333:VAL:HG22	5:L:336:GLU:HB2	1.87	0.55
1:A:166:ARG:HD2	1:A:167:PRO:CA	2.36	0.55
1:B:47:LEU:O	1:B:180:VAL:HG21	2.06	0.55
2:C:12:ARG:NE	2:C:793:GLU:OE1	2.38	0.55
2:C:119:GLU:CG	2:C:488:MET:HB3	2.29	0.55
2:C:315:MET:HG2	2:C:316:GLU:OE2	2.06	0.55
2:C:406:ASN:ND2	2:C:413:GLU:HB2	2.22	0.55
2:C:509:SER:C	2:C:511:LEU:H	2.15	0.55
2:C:569:ILE:HG22	2:C:570:GLY:N	2.21	0.55
2:C:817:LEU:CD2	2:C:1085:MET:HE1	2.35	0.55
2:C:971:LEU:CD2	2:C:1018:TYR:HD1	2.20	0.55
2:C:1160:ASP:HB2	2:C:1162:SER:N	2.21	0.55
2:C:1212:LEU:HD22	2:C:1225:VAL:CG2	2.37	0.55
2:C:1305:TYR:CE2	5:F:532:LEU:N	2.74	0.55
3:D:108:ALA:HB3	3:D:279:LEU:HD22	1.86	0.55
3:D:190:LYS:HA	3:D:235:GLU:CG	2.34	0.55
3:D:537:TYR:CE2	3:D:544:LEU:HD21	2.41	0.55
3:D:1176:VAL:HA	3:D:1186:TYR:O	2.06	0.55
5:F:316:PHE:O	5:F:320:ILE:HG13	2.07	0.55
5:F:366:SER:HA	5:F:369:GLU:CD	2.32	0.55
5:F:466:ILE:HD12	5:F:487:MET:HE2	1.87	0.55
5:F:572:THR:CG2	5:F:575:GLU:CB	2.80	0.55
1:H:101:THR:HG23	1:H:116:THR:HB	1.88	0.55
2:I:880:GLY:N	2:I:920:VAL:O	2.38	0.55
2:I:1144:PHE:O	2:I:1147:ARG:N	2.39	0.55
2:I:1148:ALA:O	2:I:1151:LEU:HB2	2.06	0.55
2:I:1170:MET:HA	2:I:1170:MET:HE3	1.89	0.55
3:J:274:ASN:OD1	5:L:446:GLN:NE2	2.39	0.55
3:J:339:ARG:CD	3:J:340:GLN:HG3	2.37	0.55
3:J:1270:GLY:HA3	3:J:1298:VAL:HG22	1.89	0.55
5:L:277:MET:SD	5:L:362:ASN:ND2	2.80	0.55
1:A:11:PRO:HA	1:A:30:PRO:HG2	1.88	0.55
1:B:29:GLU:HB3	1:B:200:LYS:CB	2.29	0.55
1:B:178:SER:C	1:B:180:VAL:H	2.15	0.55
1:B:196:THR:OG1	3:D:443:GLU:HG3	2.06	0.55
1:B:258:ASP:O	1:B:261:GLU:HG3	2.06	0.55
2:C:53:PHE:HE2	2:C:73:TYR:HB3	1.72	0.55
2:C:97:ARG:HH21	5:F:476:ARG:HE	1.52	0.55
2:C:303:ASP:HB3	2:C:306:THR:HG23	1.84	0.55
2:C:509:SER:C	2:C:511:LEU:N	2.64	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:555:TYR:CE1	2:C:637:ARG:CZ	2.90	0.55
2:C:606:LEU:HD23	2:C:611:GLU:HA	1.88	0.55
2:C:848:GLU:OE1	2:C:886:LYS:NZ	2.35	0.55
2:C:1284:ALA:HB3	3:D:1361:THR:HB	1.86	0.55
3:D:9:LYS:HG3	3:D:10:ALA:N	2.19	0.55
3:D:70:CYS:SG	3:D:71:LEU:N	2.77	0.55
3:D:510:LEU:HD13	3:D:628:GLY:HA2	1.89	0.55
3:D:530:PRO:C	3:D:533:ALA:H	2.14	0.55
3:D:646:ILE:HG23	3:D:741:ALA:O	2.06	0.55
3:D:1280:VAL:HG21	3:D:1304:ARG:HH21	1.71	0.55
5:F:439:ILE:O	5:F:442:SER:HB3	2.06	0.55
5:F:491:GLU:O	5:F:494:ILE:N	2.39	0.55
1:G:152:TYR:CD1	2:I:824:GLN:HG2	2.41	0.55
2:I:106:GLU:HG3	2:I:107:ARG:N	2.22	0.55
2:I:201:ARG:HB3	2:I:369:MET:HE2	1.88	0.55
2:I:270:THR:HG23	2:I:273:HIS:CE1	2.41	0.55
2:I:502:VAL:O	2:I:505:PHE:HB3	2.05	0.55
2:I:799:ASN:HB3	2:I:1231:TYR:HD1	1.72	0.55
2:I:839:VAL:HG12	2:I:1049:ILE:HD11	1.87	0.55
2:I:944:ARG:HA	2:I:947:GLU:HG3	1.89	0.55
2:I:1142:ARG:HD3	2:I:1161:LEU:CD1	2.33	0.55
3:J:85:CYS:SG	3:J:87:LYS:HB2	2.46	0.55
3:J:491:LEU:HB2	3:J:904:ALA:CA	2.33	0.55
3:J:690:ASN:HA	3:J:743:MET:SD	2.47	0.55
3:J:885:VAL:HG12	3:J:894:VAL:CG1	2.37	0.55
3:J:1234:VAL:HG12	3:J:1253:ILE:HG21	1.88	0.55
3:J:1262:ARG:HG3	3:J:1281:GLU:OE1	2.07	0.55
1:A:40:GLY:HA3	1:A:185:TYR:CD2	2.42	0.55
2:C:131:THR:HB	2:C:133:ASN:H	1.70	0.55
2:C:144:VAL:O	2:C:145:ILE:HD12	2.07	0.55
2:C:447:HIS:CE1	2:C:553:THR:HG21	2.41	0.55
2:C:478:ARG:HH12	2:C:482:GLY:CA	2.20	0.55
2:C:516:ASP:HA	2:C:761:GLN:CD	2.30	0.55
2:C:798:GLN:OE1	2:C:827:ARG:NH2	2.26	0.55
2:C:1185:PRO:HG2	2:C:1188:ASP:O	2.06	0.55
2:C:1191:LYS:CE	2:C:1193:ALA:H	2.20	0.55
2:C:1246:ARG:NH1	2:C:1249:GLY:HA3	2.21	0.55
3:D:517:CYS:N	3:D:545:HIS:O	2.40	0.55
3:D:850:LYS:HE2	3:D:855:ASP:HB3	1.88	0.55
3:D:888:CYS:SG	3:D:890:THR:CG2	2.89	0.55
5:F:396:ASN:O	5:F:396:ASN:ND2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:511:ILE:CG2	5:F:517:SER:HB2	2.37	0.55
2:I:933:VAL:C	2:I:934:PHE:HD2	2.15	0.55
2:I:1180:MET:HG2	2:I:1181:PRO:CD	2.36	0.55
3:J:83:VAL:HG13	3:J:92:VAL:HG13	1.88	0.55
2:C:396:ASP:OD1	2:C:398:SER:N	2.24	0.55
2:C:1330:ILE:HG23	2:C:1335:ILE:HB	1.88	0.55
3:D:161:THR:CG2	3:D:164:GLN:H	2.19	0.55
3:D:317:THR:HG22	3:D:322:ARG:O	2.07	0.55
3:D:805:GLN:HG2	3:D:806:ASP:N	2.21	0.55
3:D:919:ALA:HA	3:D:1252:HIS:ND1	2.21	0.55
5:F:415:ALA:HB2	5:F:434:TRP:HB2	1.89	0.55
1:G:89:ALA:HB1	1:G:210:THR:CG2	2.35	0.55
1:G:167:PRO:HB2	1:G:170:ARG:CG	2.32	0.55
1:H:88:LEU:HD12	1:H:89:ALA:N	2.21	0.55
1:H:113:ALA:C	1:H:115:ILE:H	2.14	0.55
2:I:347:ILE:O	2:I:350:THR:HB	2.07	0.55
2:I:404:LYS:HD3	2:I:586:PHE:CZ	2.31	0.55
3:J:42:GLU:HG3	5:L:451:ARG:HG2	1.88	0.55
3:J:372:MET:O	3:J:376:LEU:HB2	2.07	0.55
3:J:378:LYS:CB	3:J:379:PRO:HD3	2.36	0.55
3:J:491:LEU:HD13	3:J:496:GLY:O	2.05	0.55
3:J:842:ARG:HD3	3:J:882:VAL:CG1	2.32	0.55
4:K:49:ILE:HG12	4:K:52:ARG:HD3	1.89	0.55
2:C:81:ASP:OD1	2:C:82:VAL:N	2.40	0.55
2:C:86:GLN:HG3	2:C:140:GLY:O	2.07	0.55
2:C:760:ASN:C	2:C:762:ASN:H	2.15	0.55
2:C:1005:GLU:HG2	2:C:1006:GLU:CD	2.32	0.55
2:C:1238:LEU:HD12	2:C:1238:LEU:N	2.21	0.55
3:D:205:LEU:HA	3:D:217:LEU:CD2	2.29	0.55
3:D:399:LYS:HB3	3:D:403:ARG:HH22	1.72	0.55
3:D:809:VAL:HG22	3:D:915:ILE:HD13	1.88	0.55
3:D:1234:VAL:CA	3:D:1237:VAL:HG12	2.35	0.55
3:D:1307:LEU:HD11	3:D:1311:LYS:CG	2.36	0.55
5:F:135:ALA:HA	5:F:256:PHE:CE2	2.42	0.55
5:F:354:THR:HG23	5:F:357:GLN:H	1.72	0.55
5:F:574:GLU:HB3	5:F:584:ARG:NH2	2.22	0.55
1:G:150:ARG:NH2	1:H:32:GLU:OE1	2.39	0.55
1:H:48:LEU:CD2	3:J:539:SER:HB3	2.37	0.55
1:H:175:ALA:HB1	1:H:177:TYR:CZ	2.42	0.55
2:I:247:ARG:HH11	2:I:247:ARG:HG3	1.71	0.55
2:I:606:LEU:HD23	2:I:611:GLU:HA	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:669:PRO:CB	2:I:1184:THR:HB	2.37	0.55
2:I:864:LYS:NZ	2:I:877:VAL:HG12	2.20	0.55
2:I:901:LEU:CG	2:I:905:ILE:HD11	2.37	0.55
2:I:1070:HIS:CD2	2:I:1111:GLN:HB3	2.42	0.55
2:I:1260:GLY:HA3	2:I:1265:PHE:CA	2.32	0.55
3:J:290:ILE:HD12	3:J:290:ILE:N	2.22	0.55
5:L:544:THR:OG1	5:L:545:HIS:N	2.39	0.55
1:B:95:LYS:CE	1:B:98:VAL:HG23	2.37	0.54
2:C:893:THR:O	2:C:894:GLN:HB3	2.06	0.54
2:C:1314:GLN:HG2	4:E:28:ARG:NH1	2.22	0.54
3:D:425:ARG:NH1	3:D:459:ALA:HA	2.21	0.54
3:D:450:HIS:CE1	3:D:452:LEU:HD12	2.42	0.54
5:F:562:ARG:NH2	5:F:573:LEU:HB3	2.21	0.54
5:F:565:ILE:O	5:F:567:MET:HG3	2.07	0.54
1:G:23:HIS:CE1	1:G:204:GLU:HG3	2.41	0.54
1:G:77:ASP:O	1:G:80:GLU:N	2.40	0.54
2:I:512:SER:C	2:I:513:GLN:HG2	2.33	0.54
2:I:878:THR:HB	2:I:925:SER:OG	2.07	0.54
2:I:1100:PRO:O	2:I:1101:LEU:HD23	2.06	0.54
2:I:1119:MET:HG3	2:I:1204:LEU:HD13	1.88	0.54
3:J:60:ARG:HA	3:J:89:GLY:O	2.08	0.54
3:J:75:TYR:N	3:J:75:TYR:CD1	2.75	0.54
3:J:268:LEU:HB3	3:J:306:LEU:CD2	2.36	0.54
3:J:723:TYR:CD1	3:J:723:TYR:C	2.84	0.54
4:K:30:MET:HE3	4:K:46:THR:HB	1.89	0.54
5:L:507:MET:C	5:L:509:THR:H	2.15	0.54
1:A:184:ALA:HB2	2:C:1091:GLY:CA	2.36	0.54
1:B:59:VAL:CG2	1:B:144:ILE:HD11	2.37	0.54
1:B:289:LEU:HD23	1:B:295:LEU:CD1	2.37	0.54
2:C:697:LYS:HA	2:C:795:ALA:CB	2.34	0.54
2:C:720:ARG:NH2	2:C:741:MET:HA	2.22	0.54
2:C:803:ALA:HB1	2:C:1227:VAL:HG12	1.88	0.54
2:C:936:ARG:NH2	2:C:1046:VAL:O	2.40	0.54
2:C:959:ASP:C	2:C:963:GLU:HG2	2.31	0.54
2:C:1075:VAL:HG23	3:D:461:PHE:O	2.07	0.54
3:D:222:LYS:HE2	3:D:1273:ASP:OD2	2.07	0.54
3:D:326:SER:O	3:D:327:LEU:C	2.51	0.54
3:D:516:ASP:HA	3:D:545:HIS:CB	2.37	0.54
3:D:670:SER:HB2	3:D:672:LEU:HD11	1.86	0.54
3:D:1356:LEU:HD23	3:D:1357:ILE:N	2.21	0.54
5:F:492:ASP:O	5:F:496:LYS:N	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:191:ARG:HH22	1:G:197:ASP:CA	2.13	0.54
1:G:195:ARG:HG2	1:G:198:LEU:CD1	2.37	0.54
1:H:134:THR:HG23	1:H:135:ASP:N	2.22	0.54
2:I:303:ASP:O	2:I:307:GLY:N	2.40	0.54
2:I:384:LEU:HG	2:I:385:PHE:N	2.21	0.54
2:I:895:LEU:HD11	2:I:900:LYS:HG3	1.88	0.54
3:J:132:LEU:O	3:J:135:ILE:N	2.39	0.54
3:J:142:GLU:OE2	5:L:100:MET:HG2	2.07	0.54
3:J:217:LEU:C	3:J:217:LEU:HD12	2.32	0.54
3:J:652:GLU:O	3:J:656:GLU:HG3	2.06	0.54
3:J:769:VAL:HB	3:J:770:LEU:HD13	1.90	0.54
3:J:847:ASP:CB	3:J:860:ARG:H	2.20	0.54
5:L:448:ARG:HG2	5:L:448:ARG:NH1	2.19	0.54
5:L:474:MET:O	5:L:476:ARG:N	2.40	0.54
1:A:73:GLY:C	1:A:134:THR:HG22	2.32	0.54
1:B:154:PRO:C	1:B:157:THR:HG1	2.16	0.54
2:C:62:TYR:C	2:C:64:GLY:H	2.14	0.54
2:C:201:ARG:NH1	2:C:201:ARG:CG	2.67	0.54
2:C:871:VAL:HG22	2:C:872:TYR:N	2.23	0.54
2:C:919:ARG:O	2:C:921:PRO:HD3	2.07	0.54
2:C:1153:ALA:C	2:C:1155:VAL:HG23	2.31	0.54
2:C:1333:LEU:HD22	3:D:307:LEU:HD22	1.89	0.54
3:D:115:TRP:NE1	3:D:1329:THR:HG23	2.22	0.54
3:D:916:GLY:O	3:D:919:ALA:HB3	2.06	0.54
3:D:1372:ARG:HE	3:J:854:ALA:HB2	1.72	0.54
3:D:1375:ALA:HB1	3:J:853:THR:CB	2.38	0.54
4:E:58:LEU:O	4:E:59:ILE:HD13	2.06	0.54
5:F:394:TYR:HB2	5:F:404:LEU:HD22	1.90	0.54
5:F:585:GLU:HA	5:F:588:ARG:CG	2.33	0.54
1:G:8:PHE:O	1:G:9:LEU:HB2	2.05	0.54
1:G:15:ASP:OD2	1:G:17:GLU:HB2	2.08	0.54
1:H:61:ILE:HG23	1:H:142:MET:HE1	1.89	0.54
2:I:90:VAL:HG12	2:I:91:THR:H	1.72	0.54
2:I:175:ARG:NH2	2:I:185:ASP:OD2	2.41	0.54
2:I:555:TYR:OH	2:I:654:ASP:OD1	2.18	0.54
3:J:247:PRO:O	3:J:249:LEU:N	2.41	0.54
3:J:368:LEU:HD21	3:J:373:ALA:HB2	1.89	0.54
3:J:903:LEU:CD2	3:J:909:ILE:HD12	2.37	0.54
3:J:1163:VAL:HG22	3:J:1164:SER:H	1.72	0.54
3:J:1316:THR:CG2	3:J:1318:SER:HB3	2.37	0.54
5:L:266:PHE:O	5:L:270:VAL:HG23	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:62:ASP:HB3	1:B:142:MET:SD	2.48	0.54
1:B:82:LEU:C	1:B:85:LEU:HG	2.32	0.54
1:B:82:LEU:HD23	1:B:85:LEU:HD12	1.90	0.54
1:B:136:GLU:CG	1:B:137:ASN:N	2.68	0.54
2:C:197:ARG:HD2	2:C:200:ARG:HA	1.90	0.54
2:C:197:ARG:HD3	2:C:201:ARG:O	2.07	0.54
2:C:617:ALA:CB	2:C:653:MET:HB2	2.36	0.54
2:C:700:VAL:HG13	2:C:1117:LEU:CD2	2.37	0.54
2:C:841:ARG:HG3	2:C:841:ARG:NH1	2.23	0.54
2:C:1066:MET:CE	2:C:1076:ILE:CG2	2.86	0.54
2:C:1191:LYS:O	2:C:1195:ILE:HG13	2.07	0.54
3:D:160:LEU:CD1	3:D:165:TYR:HA	2.37	0.54
3:D:473:THR:HG23	3:D:476:ALA:HB2	1.87	0.54
2:I:729:ALA:O	2:I:755:LYS:NZ	2.40	0.54
2:I:745:GLU:CA	2:I:1017:GLN:HG3	2.36	0.54
2:I:1075:VAL:CG2	3:J:463:GLY:CA	2.85	0.54
2:I:1296:ASP:HB2	3:J:345:LYS:HD3	1.89	0.54
3:J:72:CYS:SG	3:J:73:GLY:N	2.81	0.54
3:J:91:GLU:OE1	3:J:93:THR:OG1	2.25	0.54
3:J:111:THR:OG1	3:J:299:LEU:HD23	2.07	0.54
3:J:320:ASN:CG	3:J:322:ARG:HB3	2.32	0.54
3:J:385:LEU:HD21	3:J:411:ILE:CG1	2.30	0.54
3:J:425:ARG:HH12	3:J:464:ASP:CB	2.20	0.54
5:L:98:VAL:CB	5:L:402:LEU:HD21	2.35	0.54
5:L:119:ILE:CA	5:L:122:ARG:HG3	2.36	0.54
5:L:124:GLU:O	5:L:127:ILE:HB	2.07	0.54
5:L:287:ILE:CG2	5:L:315:TRP:CH2	2.90	0.54
2:C:397:LEU:HB3	2:C:401:GLY:HA3	1.89	0.54
2:C:488:MET:N	2:C:491:ASP:OD2	2.34	0.54
3:D:357:VAL:N	3:D:461:PHE:CE1	2.75	0.54
3:D:781:LYS:O	3:D:784:ALA:HB3	2.07	0.54
5:F:124:GLU:HA	5:F:127:ILE:CG1	2.38	0.54
5:F:290:LEU:O	5:F:294:GLN:HB3	2.07	0.54
5:F:548:LEU:N	5:F:548:LEU:HD23	2.17	0.54
1:G:41:ASN:HD22	1:H:41:ASN:ND2	2.04	0.54
2:I:600:THR:HG21	2:I:602:GLU:HG2	1.89	0.54
2:I:769:PRO:HA	2:I:784:ALA:CB	2.38	0.54
2:I:796:LEU:HD12	2:I:796:LEU:H	1.71	0.54
2:I:954:LYS:O	2:I:957:LYS:HB3	2.06	0.54
3:J:395:LYS:O	3:J:399:LYS:HE3	2.06	0.54
3:J:580:TRP:CH2	3:J:587:LEU:O	2.60	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:609:TYR:OH	3:J:906:GLY:N	2.40	0.54
3:J:695:LYS:HD3	3:J:695:LYS:N	2.21	0.54
1:A:179:PRO:HB3	1:A:208:ASN:CG	2.32	0.54
2:C:318:SER:OG	2:C:320:ASP:OD2	2.25	0.54
2:C:377:THR:H	2:C:380:ALA:HB3	1.73	0.54
2:C:550:VAL:HG11	3:D:776:THR:CG2	2.38	0.54
2:C:565:GLU:OE1	2:C:681:MET:HE3	2.08	0.54
2:C:600:THR:HB	2:C:602:GLU:H	1.72	0.54
2:C:735:LYS:HA	2:C:748:ILE:HG22	1.90	0.54
2:C:1079:ILE:O	2:C:1079:ILE:HG23	2.06	0.54
3:D:370:LYS:N	3:D:442:ILE:O	2.38	0.54
3:D:425:ARG:CG	3:D:426:ALA:N	2.71	0.54
3:D:428:THR:HG22	3:D:428:THR:O	2.06	0.54
3:D:435:GLN:HB2	3:D:457:TYR:OH	2.08	0.54
3:D:746:LEU:N	3:D:746:LEU:HD12	2.22	0.54
3:D:762:ASN:OD1	3:D:765:GLU:HG3	2.08	0.54
5:F:608:ARG:HH21	5:F:609:SER:HA	1.70	0.54
1:G:44:ARG:HA	1:G:47:LEU:HB2	1.89	0.54
1:H:211:ILE:HD12	1:H:212:ASP:H	1.71	0.54
2:I:12:ARG:HA	2:I:1181:PRO:HB2	1.89	0.54
2:I:510:GLN:O	2:I:511:LEU:HD23	2.07	0.54
2:I:517:GLN:O	2:I:517:GLN:CG	2.56	0.54
2:I:519:ASN:HD22	2:I:689:ALA:HB3	1.69	0.54
2:I:607:SER:OG	2:I:609:ILE:HG13	2.07	0.54
2:I:1332:SER:O	3:J:243:PRO:HG2	2.07	0.54
3:J:44:ILE:HA	3:J:50:LYS:O	2.07	0.54
3:J:511:TYR:HB2	3:J:596:LEU:O	2.08	0.54
3:J:770:LEU:N	3:J:770:LEU:HD22	2.22	0.54
3:J:930:LEU:HB2	3:J:1138:LEU:HB2	1.89	0.54
3:J:1241:TYR:HD2	3:J:1246:VAL:CG1	2.21	0.54
5:L:485:GLU:O	5:L:487:MET:N	2.40	0.54
1:A:45:ARG:HG3	1:A:46:ILE:CD1	2.37	0.54
1:B:284:ARG:HG3	1:B:288:GLU:HG3	1.89	0.54
2:C:538:LEU:HD12	2:C:538:LEU:H	1.69	0.54
2:C:582:ASN:CB	2:C:586:PHE:H	2.21	0.54
2:C:670:PHE:CE2	2:C:1113:LEU:C	2.86	0.54
2:C:706:ARG:HG2	2:C:706:ARG:HH11	1.73	0.54
2:C:1175:ASN:C	2:C:1176:LEU:HD23	2.33	0.54
2:C:1185:PRO:HD2	2:C:1189:GLY:HA2	1.90	0.54
3:D:125:GLY:O	3:D:128:LEU:N	2.40	0.54
3:D:134:ASP:O	3:D:137:ARG:HB3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:139:LEU:HD21	3:D:182:ALA:HA	1.90	0.54
3:D:215:LYS:O	3:D:219:LYS:HB3	2.07	0.54
3:D:268:LEU:HD21	3:D:305:ALA:C	2.32	0.54
3:D:1186:TYR:HE2	3:D:1188:GLU:HB2	1.72	0.54
3:D:1282:TYR:CB	3:D:1286:LYS:HE3	2.37	0.54
5:F:448:ARG:HD3	5:F:450:ILE:O	2.08	0.54
5:F:460:ILE:HG22	5:F:461:ASN:N	2.22	0.54
5:F:475:GLY:C	5:F:476:ARG:HD2	2.32	0.54
1:G:96:ASP:OD2	1:G:148:ARG:NH2	2.37	0.54
1:G:167:PRO:CG	1:G:170:ARG:HD2	2.34	0.54
1:H:64:VAL:C	1:H:66:HIS:H	2.16	0.54
2:I:5:TYR:HA	2:I:8:LYS:CD	2.36	0.54
2:I:157:PHE:CZ	2:I:431:LYS:HG2	2.43	0.54
2:I:600:THR:HG22	2:I:602:GLU:H	1.72	0.54
2:I:670:PHE:CD2	2:I:1113:LEU:HB3	2.43	0.54
2:I:864:LYS:HZ2	2:I:877:VAL:HG12	1.72	0.54
2:I:981:ALA:HB1	2:I:1007:LYS:HZ2	1.73	0.54
2:I:1222:GLU:HG3	3:J:634:ARG:O	2.08	0.54
2:I:1287:LEU:O	2:I:1290:MET:HB3	2.08	0.54
2:I:1294:LYS:HD3	3:J:472:LEU:HD11	1.90	0.54
3:J:215:LYS:HE2	3:J:216:LYS:HG3	1.90	0.54
3:J:327:LEU:CD2	3:J:330:MET:HE2	2.38	0.54
3:J:471:PRO:HB3	3:J:476:ALA:HB1	1.89	0.54
3:J:857:LEU:CD1	3:J:858:VAL:H	2.16	0.54
3:J:1154:ALA:HA	3:J:1211:SER:OG	2.07	0.54
4:K:50:ALA:O	4:K:54:ILE:HG12	2.06	0.54
5:L:412:LEU:CA	5:L:435:ILE:HD11	2.38	0.54
2:C:86:GLN:HA	2:C:140:GLY:HA2	1.87	0.54
2:C:237:LEU:HB3	2:C:287:VAL:O	2.07	0.54
2:C:698:PRO:HB3	2:C:1231:TYR:CG	2.43	0.54
3:D:46:TYR:CD1	3:D:46:TYR:C	2.85	0.54
3:D:120:LEU:O	3:D:122:SER:N	2.40	0.54
3:D:288:PRO:HG3	5:F:380:VAL:CG1	2.25	0.54
3:D:478:LEU:HB3	4:E:20:VAL:HG13	1.88	0.54
2:I:396:ASP:HA	2:I:418:GLY:O	2.08	0.54
2:I:403:MET:HE1	2:I:404:LYS:CD	2.37	0.54
2:I:614:TYR:CD1	2:I:652:TYR:HE1	2.26	0.54
2:I:836:LEU:HD12	2:I:836:LEU:N	2.23	0.54
2:I:964:LEU:HB2	2:I:1025:PHE:CD2	2.43	0.54
3:J:1226:VAL:C	3:J:1228:ALA:H	2.14	0.54
4:K:60:ASN:CG	4:K:62:GLN:HB3	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:502:LYS:HB3	5:L:504:PRO:HB3	1.90	0.54
1:A:171:LEU:HD22	1:A:171:LEU:N	2.23	0.54
1:B:89:ALA:HB3	1:B:124:VAL:H	1.72	0.54
1:B:97:GLU:HB3	1:B:145:LYS:HE3	1.89	0.54
2:C:208:ILE:HG23	2:C:362:ALA:CB	2.37	0.54
2:C:370:MET:O	2:C:372:PRO:HD3	2.08	0.54
2:C:524:ILE:HD11	2:C:712:SER:N	2.22	0.54
2:C:756:TYR:CE1	2:C:766:ASN:CG	2.85	0.54
2:C:783:LEU:O	2:C:784:ALA:HB2	2.08	0.54
2:C:818:VAL:CG2	2:C:1096:ILE:HG12	2.37	0.54
3:D:253:VAL:HG21	5:F:523:ILE:HD13	1.89	0.54
3:D:263:SER:CA	5:F:507:MET:HE2	2.38	0.54
3:D:527:LEU:HD21	3:D:536:LEU:CD2	2.36	0.54
3:D:562:GLU:OE1	3:D:563:LEU:N	2.34	0.54
1:G:88:LEU:HD12	1:G:89:ALA:N	2.20	0.54
1:G:190:ALA:HB2	1:G:200:LYS:HE3	1.88	0.54
2:I:70:TYR:OH	2:I:72:SER:HA	2.08	0.54
2:I:596:ASP:OD2	2:I:597:GLY:N	2.39	0.54
2:I:1212:LEU:HD22	2:I:1225:VAL:HG22	1.90	0.54
2:I:1304:MET:O	2:I:1307:ASN:N	2.40	0.54
3:J:74:LYS:C	3:J:75:TYR:HD1	2.16	0.54
3:J:271:ARG:O	3:J:274:ASN:HB2	2.08	0.54
3:J:378:LYS:O	3:J:381:ILE:HB	2.07	0.54
3:J:527:LEU:HD23	3:J:532:GLU:OE2	2.07	0.54
3:J:608:CYS:SG	3:J:617:THR:HG23	2.47	0.54
3:J:825:VAL:HG22	3:J:832:LYS:N	2.23	0.54
5:L:141:ILE:N	5:L:141:ILE:HD12	2.23	0.54
1:A:178:SER:OG	1:A:180:VAL:HG23	2.08	0.54
1:B:178:SER:O	1:B:178:SER:OG	2.25	0.54
2:C:548:ARG:HH11	2:C:548:ARG:HG3	1.73	0.54
2:C:800:MET:HE2	2:C:1096:ILE:HD11	1.90	0.54
2:C:903:ARG:NH2	2:C:910:ALA:HB2	2.22	0.54
2:C:934:PHE:N	2:C:934:PHE:HD2	2.05	0.54
2:C:1128:ILE:O	2:C:1131:MET:N	2.41	0.54
2:C:1268:GLN:NE2	3:D:352:ARG:CD	2.66	0.54
3:D:418:GLU:O	3:D:420:PRO:HD3	2.08	0.54
3:D:664:ILE:HA	3:D:667:GLN:OE1	2.08	0.54
3:D:806:ASP:HA	3:D:1347:LEU:HD12	1.90	0.54
3:D:848:VAL:CG1	3:D:857:LEU:HB2	2.37	0.54
5:F:240:ARG:CD	5:F:244:THR:HB	2.29	0.54
1:G:41:ASN:HA	1:G:185:TYR:CE1	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:47:TYR:HD2	2:I:461:GLU:OE2	1.91	0.54
2:I:74:ARG:CZ	2:I:97:ARG:HG3	2.38	0.54
2:I:125:GLY:HA2	2:I:499:SER:HB2	1.90	0.54
2:I:213:LEU:HD11	2:I:425:ILE:HD12	1.90	0.54
2:I:637:ARG:HA	2:I:642:SER:HA	1.89	0.54
2:I:1281:TYR:N	2:I:1281:TYR:CD2	2.75	0.54
2:I:1294:LYS:O	3:J:348:ASP:HB2	2.08	0.54
2:I:1339:LEU:HD12	2:I:1339:LEU:N	2.23	0.54
3:J:527:LEU:N	3:J:550:VAL:HG12	2.18	0.54
3:J:552:ILE:C	3:J:552:ILE:HD12	2.33	0.54
3:J:657:ALA:O	3:J:660:GLU:HB2	2.07	0.54
3:J:707:ILE:O	3:J:714:GLU:N	2.28	0.54
3:J:1239:ASP:O	3:J:1243:LEU:CB	2.49	0.54
5:L:128:ASN:O	5:L:131:GLN:N	2.41	0.54
2:C:189:ASP:HB3	2:C:195:PHE:HE2	1.72	0.53
2:C:347:ILE:HG22	2:C:348:SER:N	2.23	0.53
2:C:490:GLN:CG	5:F:472:GLN:HB3	2.38	0.53
2:C:519:ASN:C	2:C:519:ASN:OD1	2.50	0.53
2:C:835:GLU:C	2:C:836:LEU:HD12	2.32	0.53
2:C:1214:ASP:OD1	2:C:1215:GLY:N	2.41	0.53
2:C:1243:MET:SD	3:D:445:LYS:HB3	2.48	0.53
2:C:1284:ALA:HB3	3:D:479:GLU:OE1	2.07	0.53
3:D:264:ASP:OD2	5:F:506:SER:HB2	2.08	0.53
3:D:433:GLY:C	3:D:434:ILE:HG13	2.33	0.53
3:D:810:THR:HG23	3:D:894:VAL:H	1.72	0.53
3:D:1233:ILE:O	3:D:1237:VAL:HG12	2.09	0.53
5:F:297:MET:CE	5:F:330:LEU:HD11	2.38	0.53
1:G:16:ILE:HG12	1:G:26:VAL:HG23	1.89	0.53
1:G:50:SER:OG	1:H:35:PHE:HZ	1.91	0.53
1:G:221:ALA:O	1:G:224:LEU:HB3	2.08	0.53
1:H:136:GLU:CG	1:H:137:ASN:H	2.19	0.53
2:I:545:PHE:O	2:I:548:ARG:N	2.28	0.53
2:I:723:VAL:HG13	2:I:775:GLU:C	2.33	0.53
2:I:944:ARG:O	2:I:948:ILE:HD12	2.07	0.53
2:I:1117:LEU:HD23	2:I:1118:GLY:N	2.23	0.53
3:J:42:GLU:HG2	5:L:451:ARG:CZ	2.37	0.53
3:J:362:ARG:H	3:J:365:GLN:HE21	1.56	0.53
3:J:674:THR:HG23	3:J:677:GLU:HB2	1.90	0.53
3:J:708:ASN:HA	3:J:712:GLN:O	2.09	0.53
3:J:1328:THR:O	3:J:1332:LEU:HD23	2.08	0.53
5:L:128:ASN:O	5:L:131:GLN:HB2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:13:LEU:HD11	1:A:16:ILE:HD11	1.88	0.53
1:B:156:SER:O	1:B:156:SER:OG	2.24	0.53
2:C:245:ARG:HH11	2:C:245:ARG:HG3	1.74	0.53
2:C:421:SER:O	2:C:424:ASP:N	2.42	0.53
2:C:569:ILE:HG22	2:C:570:GLY:H	1.72	0.53
2:C:817:LEU:HD13	2:C:1097:VAL:HB	1.86	0.53
2:C:979:LEU:HD23	2:C:1000:LEU:HD12	1.91	0.53
3:D:218:THR:HA	3:D:221:ILE:HG22	1.89	0.53
3:D:262:THR:OG1	3:D:263:SER:N	2.42	0.53
3:D:313:GLY:C	3:D:314:ARG:HG2	2.33	0.53
3:D:537:TYR:C	3:D:539:SER:N	2.66	0.53
3:D:1360:GLY:CA	4:E:17:PHE:CE2	2.90	0.53
5:F:273:MET:O	5:F:277:MET:N	2.40	0.53
5:F:573:LEU:HD13	5:F:573:LEU:N	2.23	0.53
2:I:489:PRO:O	2:I:490:GLN:CB	2.55	0.53
2:I:617:ALA:HB3	2:I:653:MET:CG	2.38	0.53
2:I:897:PRO:HB2	5:L:565:ILE:HB	1.89	0.53
3:J:511:TYR:C	3:J:511:TYR:HD1	2.17	0.53
5:L:213:ASP:HB2	5:L:216:LEU:HB3	1.90	0.53
5:L:230:VAL:O	5:L:234:THR:HG23	2.08	0.53
5:L:550:GLY:C	5:L:551:LEU:HD23	2.33	0.53
5:L:561:MET:HG2	5:L:571:TYR:CB	2.37	0.53
1:A:25:LYS:HG2	1:A:204:GLU:HG3	1.89	0.53
1:B:11:PRO:O	1:B:12:ARG:HB2	2.08	0.53
1:B:105:SER:OG	1:B:139:SER:HA	2.07	0.53
2:C:4:SER:HB3	2:C:7:GLU:CG	2.38	0.53
2:C:81:ASP:N	2:C:84:GLU:HG3	2.22	0.53
2:C:106:GLU:OE1	2:C:114:VAL:HG22	2.09	0.53
2:C:593:LYS:HB3	2:C:602:GLU:HG2	1.87	0.53
2:C:883:LEU:HD13	2:C:1052:VAL:HG11	1.91	0.53
2:C:1308:ILE:HD12	3:D:380:PHE:CE2	2.43	0.53
3:D:1163:VAL:HG22	3:D:1164:SER:N	2.23	0.53
3:D:1252:HIS:CA	3:D:1255:VAL:HG13	2.37	0.53
5:F:563:PHE:C	5:F:565:ILE:H	2.16	0.53
2:I:389:PHE:CD1	2:I:395:TYR:CE1	2.97	0.53
2:I:618:GLN:O	2:I:621:SER:OG	2.22	0.53
2:I:786:GLY:C	2:I:789:THR:HG23	2.34	0.53
3:J:27:PRO:HB3	3:J:241:VAL:HG23	1.90	0.53
3:J:31:ARG:CZ	3:J:241:VAL:HG21	2.39	0.53
3:J:144:TYR:CE1	3:J:165:TYR:CE1	2.97	0.53
3:J:357:VAL:CG1	3:J:359:PRO:HD3	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:930:LEU:HD12	3:J:1138:LEU:HD13	1.89	0.53
3:J:1157:ALA:HB3	3:J:1206:ARG:CA	2.33	0.53
3:J:1241:TYR:N	3:J:1241:TYR:CD1	2.76	0.53
3:J:1280:VAL:HG11	3:J:1304:ARG:CZ	2.38	0.53
3:J:1309:ILE:O	3:J:1312:ALA:HB3	2.07	0.53
5:L:227:GLN:HG2	5:L:255:VAL:CG2	2.37	0.53
1:B:263:THR:HG22	1:B:302:GLU:CD	2.33	0.53
2:C:18:ARG:HG2	2:C:1188:ASP:CG	2.34	0.53
2:C:546:GLU:H	2:C:546:GLU:CD	2.11	0.53
2:C:766:ASN:OD1	2:C:767:GLN:N	2.41	0.53
2:C:879:GLY:N	2:C:925:SER:OG	2.42	0.53
3:D:295:GLU:OE1	5:F:406:GLN:HG2	2.07	0.53
3:D:513:MET:HE1	3:D:579:LEU:CD1	2.38	0.53
3:D:795:TYR:CE2	3:D:799:ARG:HD3	2.39	0.53
3:D:915:ILE:CA	3:D:918:ILE:HG23	2.39	0.53
3:D:1149:ARG:CZ	3:D:1153:PRO:CG	2.86	0.53
3:D:1234:VAL:CG2	3:D:1235:ASN:N	2.70	0.53
3:D:1372:ARG:CZ	3:J:854:ALA:HB3	2.37	0.53
5:F:231:THR:CG2	5:F:249:ILE:HA	2.39	0.53
5:F:248:GLU:HG2	5:F:251:LYS:HD2	1.90	0.53
5:F:490:PRO:HG2	5:F:493:LYS:HB2	1.91	0.53
1:G:75:GLN:HA	2:I:729:ALA:N	2.24	0.53
2:I:115:LYS:HE2	2:I:116:ASP:OD1	2.08	0.53
2:I:497:PRO:O	2:I:500:ALA:HB3	2.08	0.53
2:I:669:PRO:HB3	2:I:702:THR:CG2	2.39	0.53
2:I:732:ILE:HD11	2:I:769:PRO:HA	1.91	0.53
2:I:870:ILE:CG2	2:I:944:ARG:HD3	2.38	0.53
2:I:1024:GLU:HA	2:I:1027:LYS:CD	2.37	0.53
3:J:71:LEU:HB2	3:J:90:VAL:HG21	1.88	0.53
3:J:291:ILE:O	3:J:294:ASN:N	2.40	0.53
3:J:396:ALA:O	3:J:399:LYS:N	2.41	0.53
3:J:475:GLU:OE1	3:J:475:GLU:N	2.36	0.53
3:J:1310:THR:HG23	3:J:1311:LYS:N	2.24	0.53
3:J:1352:ILE:N	3:J:1352:ILE:CD1	2.71	0.53
5:L:225:ARG:O	5:L:229:VAL:HG13	2.08	0.53
5:L:270:VAL:HG12	5:L:274:ARG:CZ	2.38	0.53
1:A:158:ARG:NH2	1:A:173:VAL:O	2.35	0.53
1:A:187:VAL:CG1	1:A:201:LEU:HD13	2.29	0.53
1:B:12:ARG:O	1:B:13:LEU:HB3	2.08	0.53
1:B:282:VAL:HG23	1:B:314:LEU:HA	1.90	0.53
2:C:20:GLN:HG3	2:C:20:GLN:O	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:81:ASP:O	2:C:84:GLU:HG3	2.08	0.53
2:C:139:ASN:HD21	2:C:503:LYS:NZ	2.05	0.53
2:C:142:GLU:N	2:C:760:ASN:HD21	2.05	0.53
2:C:169:LYS:NZ	2:C:192:ASP:OD1	2.39	0.53
2:C:882:ILE:H	2:C:882:ILE:CD1	2.02	0.53
2:C:1120:ALA:HB1	2:C:1198:LEU:HD12	1.90	0.53
2:C:1142:ARG:NH1	2:C:1169:VAL:HG21	2.24	0.53
2:C:1191:LYS:HD3	2:C:1191:LYS:C	2.33	0.53
2:C:1200:LYS:O	2:C:1203:ASP:N	2.34	0.53
3:D:22:ILE:HD11	3:D:1336:ALA:HB2	1.91	0.53
3:D:418:GLU:O	3:D:481:ARG:NH2	2.42	0.53
3:D:514:THR:OG1	3:D:596:LEU:HD23	2.09	0.53
3:D:589:TYR:O	3:D:591:ILE:N	2.42	0.53
3:D:706:VAL:CG1	3:D:715:LYS:HB3	2.26	0.53
3:D:1309:ILE:O	3:D:1312:ALA:N	2.40	0.53
5:F:246:GLN:O	5:F:250:LEU:HG	2.08	0.53
1:H:44:ARG:HG3	1:H:183:ILE:HD13	1.91	0.53
2:I:149:LEU:HD11	2:I:451:ARG:HB3	1.89	0.53
2:I:1116:HIS:HE1	3:J:641:ILE:HB	1.71	0.53
2:I:1132:LEU:HD11	2:I:1174:GLU:OE2	2.09	0.53
3:J:148:GLU:H	3:J:156:ARG:CG	2.17	0.53
3:J:288:PRO:HG2	3:J:291:ILE:CD1	2.39	0.53
3:J:1226:VAL:O	3:J:1230:THR:HG22	2.08	0.53
3:J:1316:THR:HG21	3:J:1318:SER:HB3	1.91	0.53
4:K:3:ARG:HA	4:K:3:ARG:HE	1.73	0.53
5:L:508:GLU:HA	5:L:508:GLU:OE2	2.09	0.53
1:A:57:THR:C	1:A:158:ARG:HH22	2.16	0.53
1:A:234:LEU:HD12	1:B:218:ARG:NH1	2.22	0.53
1:B:99:ILE:HG13	1:B:144:ILE:O	2.08	0.53
1:B:201:LEU:HG	1:B:203:ILE:CD1	2.39	0.53
1:B:255:ARG:NH1	1:B:255:ARG:HG2	2.23	0.53
2:C:17:LYS:N	2:C:1188:ASP:OD2	2.42	0.53
2:C:127:ILE:HG22	2:C:502:VAL:HG21	1.90	0.53
2:C:236:LYS:HB3	2:C:237:LEU:HD23	1.91	0.53
2:C:462:ASN:O	2:C:466:VAL:HG23	2.09	0.53
2:C:465:ARG:O	2:C:468:LEU:N	2.41	0.53
2:C:524:ILE:HD12	2:C:712:SER:CB	2.38	0.53
2:C:896:THR:HB	2:C:897:PRO:HD2	1.90	0.53
2:C:1061:GLN:HB2	2:C:1062:PRO:HD2	1.91	0.53
2:C:1172:LEU:O	2:C:1176:LEU:HG	2.09	0.53
2:C:1210:ILE:HG22	2:C:1211:ARG:N	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1338:GLU:OE2	3:D:21:LYS:HE3	2.09	0.53
3:D:647:PRO:HG3	3:D:697:MET:CA	2.38	0.53
5:F:115:GLY:O	5:F:119:ILE:HG12	2.08	0.53
5:F:495:ARG:HA	5:F:498:LEU:CD2	2.25	0.53
1:G:60:GLU:CG	1:G:143:ARG:HH21	2.21	0.53
1:G:134:THR:CG2	2:I:726:TYR:CE1	2.91	0.53
2:I:17:LYS:O	2:I:17:LYS:HD3	2.08	0.53
2:I:901:LEU:HG	2:I:905:ILE:CD1	2.36	0.53
3:J:356:THR:HG23	3:J:446:ALA:HB1	1.89	0.53
3:J:368:LEU:HD23	3:J:368:LEU:C	2.34	0.53
3:J:400:MET:O	3:J:405:GLU:HG3	2.09	0.53
3:J:572:THR:HG23	3:J:573:THR:O	2.09	0.53
3:J:611:ILE:HB	3:J:612:LEU:HD12	1.91	0.53
5:L:421:TYR:C	5:L:423:ARG:H	2.17	0.53
2:C:629:PHE:CE2	2:C:634:VAL:HG11	2.43	0.53
2:C:839:VAL:HG12	2:C:1049:ILE:CG1	2.24	0.53
2:C:918:LEU:CD1	2:C:918:LEU:C	2.81	0.53
2:C:1134:GLN:C	2:C:1135:GLN:HG2	2.33	0.53
2:C:1254:VAL:HG13	2:C:1255:THR:H	1.72	0.53
2:C:1287:LEU:HD23	2:C:1288:GLN:CA	2.39	0.53
2:C:1305:TYR:CD2	5:F:531:PRO:CB	2.92	0.53
3:D:152:THR:HB	3:D:172:PHE:CD1	2.43	0.53
3:D:473:THR:HG23	3:D:476:ALA:H	1.73	0.53
3:D:521:LYS:NZ	3:D:540:GLY:O	2.36	0.53
3:D:820:ILE:N	3:D:882:VAL:O	2.42	0.53
3:D:843:VAL:O	3:D:883:ARG:HB2	2.09	0.53
3:D:1218:HIS:H	3:D:1218:HIS:CD2	2.24	0.53
5:F:281:ARG:CZ	5:F:281:ARG:CB	2.87	0.53
2:I:148:GLN:NE2	2:I:533:LEU:O	2.42	0.53
2:I:237:LEU:O	2:I:238:GLN:HG3	2.09	0.53
2:I:445:ILE:HG22	2:I:446:ASP:N	2.24	0.53
2:I:529:ARG:HG2	2:I:530:ILE:H	1.74	0.53
2:I:732:ILE:CD1	2:I:784:ALA:HB2	2.38	0.53
2:I:798:GLN:HG3	2:I:828:PHE:CE1	2.44	0.53
2:I:1033:ARG:HG2	2:I:1033:ARG:HH11	1.74	0.53
2:I:1281:TYR:HE2	3:J:431:ARG:HB2	1.73	0.53
3:J:307:LEU:HD23	3:J:307:LEU:N	2.23	0.53
3:J:548:VAL:HG12	3:J:549:LYS:O	2.08	0.53
3:J:723:TYR:CE1	3:J:727:ASP:HB2	2.43	0.53
3:J:923:ILE:O	3:J:926:PRO:HD2	2.08	0.53
3:J:1156:LEU:CA	3:J:1210:ILE:HG12	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:44:ARG:HE	1:A:183:ILE:HG22	1.74	0.53
1:A:191:ARG:HH12	1:A:197:ASP:HA	1.74	0.53
1:B:102:LEU:C	1:B:141:SER:HA	2.34	0.53
2:C:230:PHE:CE2	2:C:292:ILE:HD11	2.44	0.53
2:C:736:VAL:HG23	2:C:748:ILE:HA	1.90	0.53
2:C:1183:ALA:O	2:C:1185:PRO:HD3	2.09	0.53
2:C:1285:TYR:O	2:C:1288:GLN:N	2.42	0.53
3:D:270:ARG:CZ	5:F:449:THR:HG23	2.39	0.53
3:D:491:LEU:CB	3:D:904:ALA:HA	2.38	0.53
3:D:1199:PHE:CD1	3:D:1199:PHE:N	2.77	0.53
2:I:1284:ALA:CB	3:J:1361:THR:HB	2.24	0.53
3:J:576:ARG:HD3	3:J:594:GLN:O	2.07	0.53
3:J:798:ARG:NH1	3:J:798:ARG:HG2	2.24	0.53
3:J:1163:VAL:HG23	3:J:1175:LEU:HD21	1.91	0.53
3:J:1170:LYS:HD3	3:J:1189:MET:SD	2.49	0.53
3:J:1343:GLU:HB3	3:J:1373:ARG:HH12	1.74	0.53
5:L:448:ARG:HH21	5:L:501:ALA:HA	1.74	0.53
5:L:483:LEU:O	5:L:486:ARG:N	2.42	0.53
1:A:9:LEU:HD23	1:A:9:LEU:N	2.22	0.53
2:C:725:GLN:OE1	2:C:735:LYS:NZ	2.36	0.53
2:C:745:GLU:CB	2:C:1017:GLN:CB	2.87	0.53
2:C:811:ASN:ND2	2:C:1099:ASN:N	2.57	0.53
2:C:1285:TYR:C	2:C:1287:LEU:N	2.63	0.53
2:C:1323:PHE:O	2:C:1326:LEU:N	2.42	0.53
2:C:1328:LYS:HE2	3:D:102:MET:HG3	1.90	0.53
3:D:215:LYS:HD2	3:D:219:LYS:NZ	2.24	0.53
3:D:517:CYS:N	3:D:545:HIS:HB2	2.24	0.53
3:D:674:THR:OG1	3:D:675:ALA:N	2.39	0.53
3:D:848:VAL:N	3:D:858:VAL:O	2.35	0.53
3:D:853:THR:O	3:D:854:ALA:HB3	2.09	0.53
5:F:130:VAL:HA	5:F:133:SER:CB	2.39	0.53
5:F:410:ILE:HG22	5:F:411:GLY:N	2.24	0.53
2:I:9:LYS:O	2:I:1175:ASN:ND2	2.41	0.53
2:I:57:PHE:HD1	2:I:69:GLN:C	2.16	0.53
2:I:208:ILE:HG22	2:I:209:ILE:N	2.23	0.53
2:I:471:VAL:HG12	2:I:472:GLU:N	2.21	0.53
2:I:478:ARG:C	2:I:480:SER:H	2.16	0.53
2:I:525:THR:HG21	2:I:687:ARG:CD	2.39	0.53
2:I:738:GLU:HA	2:I:741:MET:HE2	1.90	0.53
2:I:817:LEU:HD13	2:I:1097:VAL:HG21	1.90	0.53
3:J:193:ASP:O	3:J:197:GLU:HG3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:739:GLN:HB3	3:J:763:PHE:HE2	1.74	0.53
3:J:803:VAL:CG2	3:J:1312:ALA:HB3	2.39	0.53
3:J:814:CYS:SG	3:J:815:GLY:N	2.82	0.53
3:J:847:ASP:CB	3:J:856:ILE:HD13	2.38	0.53
3:J:1280:VAL:CG1	3:J:1304:ARG:HH21	2.08	0.53
1:A:57:THR:HG22	1:A:58:GLU:N	2.23	0.53
1:A:86:LYS:HD3	1:A:176:CYS:SG	2.48	0.53
1:A:213:PRO:O	1:A:216:ALA:HB3	2.08	0.53
1:B:22:THR:O	1:B:206:GLU:HA	2.08	0.53
1:B:23:HIS:HD1	1:B:206:GLU:HG2	1.73	0.53
1:B:208:ASN:OD1	1:B:209:GLY:N	2.42	0.53
1:B:273:GLU:CD	1:B:293:PRO:HD2	2.33	0.53
2:C:22:LEU:HD22	2:C:23:ASP:H	1.74	0.53
2:C:803:ALA:CB	2:C:1227:VAL:HG12	2.39	0.53
2:C:1023:HIS:O	2:C:1027:LYS:HG2	2.09	0.53
2:C:1160:ASP:CB	2:C:1161:LEU:CA	2.69	0.53
2:C:1285:TYR:O	2:C:1289:GLU:N	2.30	0.53
3:D:67:ASP:OD1	3:D:94:GLN:HB3	2.09	0.53
3:D:74:LYS:HB3	3:D:75:TYR:CE1	2.43	0.53
3:D:147:ILE:N	3:D:177:ASP:O	2.35	0.53
3:D:236:TRP:C	3:D:238:ILE:N	2.65	0.53
3:D:328:ALA:O	3:D:331:ILE:HG12	2.09	0.53
3:D:394:ILE:CG1	3:D:395:LYS:N	2.72	0.53
3:D:745:GLY:C	3:D:746:LEU:HD12	2.34	0.53
3:D:788:LEU:O	3:D:791:ALA:N	2.42	0.53
5:F:599:ARG:C	5:F:601:PRO:HD3	2.33	0.53
1:G:134:THR:CB	2:I:773:LEU:HD11	2.39	0.53
1:H:76:GLU:HG2	1:H:80:GLU:HG2	1.90	0.53
1:H:185:TYR:HB2	1:H:201:LEU:HD11	1.91	0.53
2:I:516:ASP:HA	2:I:761:GLN:CD	2.34	0.53
2:I:992:LEU:HD23	2:I:992:LEU:H	1.73	0.53
2:I:1259:LEU:HG	2:I:1260:GLY:N	2.22	0.53
2:I:1298:VAL:HG13	2:I:1299:ASN:N	2.23	0.53
3:J:185:ILE:O	3:J:188:LEU:HB2	2.09	0.53
4:K:39:VAL:CG2	4:K:40:PRO:HD2	2.30	0.53
5:L:113:ARG:O	5:L:116:GLU:HB2	2.08	0.53
5:L:137:TYR:HD2	5:L:140:ALA:HB2	1.74	0.53
5:L:448:ARG:NE	5:L:452:ILE:HD12	2.24	0.53
1:B:37:HIS:CG	2:C:1216:ARG:HD2	2.44	0.52
1:B:100:LEU:O	1:B:143:ARG:HA	2.09	0.52
2:C:143:ARG:HB3	2:C:513:GLN:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:297:VAL:HG12	2:C:315:MET:O	2.09	0.52
2:C:479:LEU:HD21	2:C:492:MET:HE1	1.91	0.52
2:C:906:PHE:CZ	5:F:605:GLU:HB2	2.43	0.52
2:C:921:PRO:HB2	2:C:924:VAL:HG21	1.90	0.52
2:C:1006:GLU:CD	2:C:1006:GLU:N	2.67	0.52
2:C:1330:ILE:O	2:C:1333:LEU:HB2	2.09	0.52
3:D:812:ASP:HA	3:D:911:LYS:HE3	1.91	0.52
3:D:1351:VAL:C	3:D:1354:GLY:H	2.16	0.52
5:F:320:ILE:HG12	5:F:330:LEU:HD12	1.91	0.52
5:F:348:GLU:HG2	5:F:355:ILE:HG12	1.89	0.52
1:G:88:LEU:CD1	1:G:128:HIS:HD2	2.20	0.52
1:H:66:HIS:HA	1:H:67:GLU:OE1	2.09	0.52
2:I:158:ASP:CG	2:I:159:SER:H	2.17	0.52
2:I:306:THR:OG1	2:I:308:GLU:HB2	2.08	0.52
2:I:463:GLN:NE2	2:I:501:ALA:O	2.42	0.52
2:I:797:GLY:O	2:I:1231:TYR:OH	2.19	0.52
2:I:810:TYR:HD2	3:J:359:PRO:HG2	1.74	0.52
2:I:1052:VAL:C	2:I:1053:TYR:HD1	2.16	0.52
3:J:263:SER:CB	5:L:507:MET:HE2	2.39	0.52
3:J:825:VAL:HG13	3:J:833:GLU:HB3	1.91	0.52
1:A:62:ASP:HB2	1:A:141:SER:O	2.08	0.52
1:B:28:LEU:N	1:B:201:LEU:O	2.42	0.52
2:C:13:LYS:NZ	2:C:1148:ALA:O	2.41	0.52
2:C:685:MET:SD	2:C:1073:LYS:CG	2.97	0.52
2:C:804:PHE:O	3:D:638:SER:HB2	2.10	0.52
2:C:838:CYS:SG	2:C:884:VAL:HG11	2.49	0.52
2:C:843:THR:N	2:C:846:GLY:O	2.35	0.52
2:C:845:LEU:HB2	2:C:889:PRO:HG2	1.90	0.52
2:C:934:PHE:N	2:C:934:PHE:CD2	2.76	0.52
2:C:1141:LEU:O	2:C:1144:PHE:N	2.41	0.52
3:D:31:ARG:NH2	3:D:241:VAL:HG21	2.24	0.52
3:D:332:LYS:C	3:D:334:LYS:N	2.67	0.52
3:D:512:TYR:CE1	3:D:635:SER:HB2	2.45	0.52
3:D:516:ASP:OD1	3:D:516:ASP:N	2.41	0.52
3:D:678:ARG:NH1	3:D:679:TYR:HA	2.23	0.52
3:D:797:THR:O	3:D:801:VAL:HG12	2.09	0.52
3:D:1136:GLY:HA2	3:D:1140:ARG:HG2	1.92	0.52
3:D:1184:ASP:O	3:D:1186:TYR:N	2.42	0.52
3:D:1280:VAL:HG13	3:D:1284:ARG:NE	2.24	0.52
3:D:1331:VAL:O	3:D:1335:ALA:N	2.42	0.52
2:I:130:MET:CB	2:I:136:PHE:HE1	2.17	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:193:ASN:ND2	2:I:353:VAL:HG21	2.24	0.52
2:I:193:ASN:HD21	2:I:353:VAL:HG21	1.73	0.52
2:I:216:THR:OG1	2:I:219:GLN:N	2.40	0.52
2:I:303:ASP:OD1	2:I:306:THR:HG23	2.10	0.52
2:I:850:ILE:O	2:I:850:ILE:HG22	2.09	0.52
2:I:1107:MET:SD	3:J:739:GLN:NE2	2.82	0.52
3:J:905:ARG:CD	4:K:16:ARG:HD2	2.40	0.52
5:L:105:MET:HG2	5:L:105:MET:O	2.09	0.52
5:L:558:VAL:HG11	5:L:590:ILE:HG21	1.91	0.52
1:A:228:LEU:HD11	1:B:224:LEU:HG	1.90	0.52
1:B:224:LEU:O	1:B:224:LEU:HD12	2.10	0.52
2:C:210:LEU:HB3	2:C:220:ILE:HD11	1.91	0.52
2:C:366:ILE:O	2:C:370:MET:N	2.31	0.52
2:C:403:MET:HE1	2:C:404:LYS:CD	2.39	0.52
2:C:660:VAL:HG22	2:C:661:VAL:HG12	1.91	0.52
2:C:870:ILE:HG21	2:C:944:ARG:HD3	1.86	0.52
2:C:1009:ASN:HA	2:C:1012:GLU:HB2	1.92	0.52
3:D:215:LYS:O	3:D:219:LYS:CB	2.56	0.52
3:D:303:VAL:O	3:D:306:LEU:N	2.42	0.52
3:D:317:THR:HA	3:D:324:LEU:CG	2.38	0.52
3:D:557:LYS:HA	3:D:562:GLU:O	2.09	0.52
3:D:850:LYS:HG2	3:D:857:LEU:CD1	2.17	0.52
3:D:1280:VAL:HG22	3:D:1284:ARG:NE	2.20	0.52
5:F:141:ILE:HD11	5:F:256:PHE:CE1	2.44	0.52
5:F:311:THR:O	5:F:341:LEU:HB3	2.08	0.52
1:G:150:ARG:HD2	1:H:8:PHE:CZ	2.45	0.52
2:I:189:ASP:CB	2:I:190:PRO:CD	2.87	0.52
2:I:320:ASP:O	2:I:323:ALA:N	2.42	0.52
2:I:425:ILE:O	2:I:428:VAL:HB	2.09	0.52
2:I:688:GLN:C	2:I:1235:LEU:HD22	2.35	0.52
2:I:745:GLU:HA	2:I:1017:GLN:HG3	1.91	0.52
2:I:1172:LEU:HD11	2:I:1176:LEU:HD11	1.91	0.52
3:J:912:GLY:HA2	3:J:1363:TYR:CD1	2.44	0.52
5:L:227:GLN:C	5:L:252:LEU:HD13	2.35	0.52
5:L:358:VAL:HA	5:L:361:ILE:CD1	2.40	0.52
1:B:217:ILE:HA	1:B:220:ALA:HB3	1.92	0.52
2:C:5:TYR:HA	2:C:8:LYS:HG2	1.91	0.52
2:C:563:THR:HG21	2:C:569:ILE:HG22	1.91	0.52
2:C:623:LEU:N	2:C:623:LEU:HD23	2.25	0.52
2:C:897:PRO:HB3	5:F:563:PHE:O	2.07	0.52
3:D:650:LYS:HE2	3:D:654:ILE:HD11	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:872:LEU:CB	3:D:877:VAL:HG11	2.40	0.52
5:F:130:VAL:HA	5:F:133:SER:HB2	1.90	0.52
5:F:269:LEU:HA	5:F:272:SER:HB3	1.90	0.52
1:G:41:ASN:C	1:G:43:LEU:H	2.18	0.52
1:G:134:THR:CA	2:I:773:LEU:HD11	2.40	0.52
1:G:177:TYR:O	1:G:178:SER:HB2	2.10	0.52
1:H:47:LEU:HD13	1:H:180:VAL:CG1	2.37	0.52
2:I:144:VAL:HG12	2:I:145:ILE:N	2.25	0.52
2:I:297:VAL:HA	2:I:334:GLU:O	2.10	0.52
2:I:797:GLY:HA3	2:I:1233:LEU:HD13	1.91	0.52
2:I:963:GLU:O	2:I:967:LEU:HB2	2.08	0.52
2:I:1239:VAL:HG21	3:J:445:LYS:CB	2.40	0.52
3:J:128:LEU:HD21	3:J:189:LEU:CD2	2.37	0.52
3:J:399:LYS:HA	3:J:402:GLU:OE2	2.09	0.52
3:J:629:PHE:O	3:J:632:ALA:HB3	2.08	0.52
3:J:847:ASP:HB2	3:J:856:ILE:HD13	1.91	0.52
3:J:1290:ARG:HD3	3:J:1294:ALA:HB3	1.91	0.52
5:L:130:VAL:O	5:L:134:VAL:HG23	2.09	0.52
1:B:123:ILE:HG22	1:B:126:PRO:CD	2.34	0.52
2:C:245:ARG:CZ	2:C:337:PHE:CD2	2.92	0.52
2:C:581:THR:HG22	2:C:585:GLY:HA2	1.91	0.52
2:C:1053:TYR:N	2:C:1053:TYR:CD1	2.78	0.52
2:C:1182:ILE:HG22	2:C:1183:ALA:H	1.73	0.52
2:C:1199:LEU:HD13	2:C:1205:PRO:O	2.10	0.52
3:D:123:ARG:O	3:D:127:LEU:HB3	2.08	0.52
3:D:510:LEU:O	3:D:514:THR:HG22	2.09	0.52
3:D:562:GLU:OE1	3:D:562:GLU:HA	2.09	0.52
3:D:609:TYR:HB2	3:D:617:THR:CG2	2.33	0.52
3:D:706:VAL:CG1	3:D:715:LYS:HE2	2.40	0.52
3:D:824:PRO:N	3:D:835:LEU:HD13	2.25	0.52
5:F:274:ARG:NH1	5:F:369:GLU:OE2	2.43	0.52
1:H:112:ALA:O	1:H:115:ILE:HG13	2.10	0.52
2:I:5:TYR:CA	2:I:8:LYS:HG2	2.38	0.52
2:I:74:ARG:O	2:I:96:LEU:HD12	2.09	0.52
2:I:86:GLN:HG3	2:I:140:GLY:CA	2.40	0.52
2:I:147:SER:OG	2:I:455:SER:HB3	2.10	0.52
2:I:216:THR:H	2:I:219:GLN:CD	2.17	0.52
2:I:593:LYS:HA	2:I:652:TYR:CE2	2.45	0.52
2:I:688:GLN:O	2:I:1235:LEU:HD22	2.09	0.52
2:I:1119:MET:HB2	2:I:1228:GLY:CA	2.39	0.52
2:I:1143:GLU:CD	2:I:1147:ARG:HH11	2.17	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:355:ILE:HD13	3:J:466:MET:SD	2.49	0.52
3:J:394:ILE:O	3:J:394:ILE:HD12	2.10	0.52
3:J:882:VAL:HG12	3:J:883:ARG:N	2.23	0.52
3:J:927:GLY:O	3:J:930:LEU:HG	2.08	0.52
5:L:343:LYS:C	5:L:346:GLN:HB3	2.34	0.52
1:A:41:ASN:CB	2:C:1218:GLY:HA3	2.37	0.52
1:B:97:GLU:HB3	1:B:145:LYS:CE	2.40	0.52
2:C:742:TYR:HD2	2:C:743:PRO:HD2	1.74	0.52
2:C:745:GLU:HB2	2:C:1017:GLN:CG	2.38	0.52
2:C:761:GLN:O	2:C:763:THR:N	2.43	0.52
2:C:796:LEU:H	2:C:796:LEU:HD12	1.74	0.52
2:C:878:THR:OG1	2:C:879:GLY:N	2.40	0.52
2:C:894:GLN:NE2	3:D:77:ARG:NH1	2.58	0.52
2:C:1053:TYR:HD1	2:C:1053:TYR:N	2.07	0.52
3:D:153:ASN:HB2	3:D:172:PHE:HZ	1.72	0.52
3:D:247:PRO:C	3:D:249:LEU:H	2.17	0.52
3:D:365:GLN:HA	3:D:438:GLU:O	2.10	0.52
3:D:514:THR:OG1	3:D:594:GLN:O	2.27	0.52
3:D:684:ASP:O	3:D:687:ALA:N	2.42	0.52
3:D:1257:VAL:HG12	3:D:1258:ARG:N	2.24	0.52
3:D:1282:TYR:HD2	3:D:1286:LYS:NZ	2.05	0.52
3:D:1348:LYS:HG3	8:D:2004:4C4:C21	2.39	0.52
4:E:6:VAL:HG23	4:E:10:VAL:HG23	1.91	0.52
5:F:240:ARG:CB	5:F:244:THR:HB	2.39	0.52
5:F:466:ILE:HD12	5:F:487:MET:CE	2.40	0.52
1:G:11:PRO:HB3	1:G:31:LEU:CD2	2.39	0.52
1:G:73:GLY:C	1:G:134:THR:HG22	2.35	0.52
1:G:89:ALA:HB1	1:G:210:THR:HG23	1.92	0.52
1:H:84:ASN:O	1:H:128:HIS:HE1	1.93	0.52
2:I:115:LYS:HA	2:I:115:LYS:HE3	1.91	0.52
2:I:614:TYR:CE1	2:I:652:TYR:HE1	2.28	0.52
2:I:1042:LEU:HD12	2:I:1046:VAL:CG2	2.39	0.52
2:I:1253:LEU:C	2:I:1253:LEU:HD23	2.34	0.52
3:J:107:LEU:HD12	3:J:240:THR:C	2.34	0.52
3:J:259:ARG:HD3	5:L:502:LYS:HD2	1.92	0.52
3:J:515:ARG:HG3	3:J:516:ASP:N	2.25	0.52
3:J:748:ALA:CA	3:J:754:ILE:HA	2.38	0.52
3:J:798:ARG:HG2	3:J:798:ARG:HH11	1.72	0.52
3:J:908:ILE:HD13	3:J:909:ILE:O	2.10	0.52
3:J:1262:ARG:NH1	3:J:1262:ARG:HB2	2.23	0.52
5:L:311:THR:HG21	5:L:348:GLU:OE2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:562:ARG:C	5:L:563:PHE:HD1	2.17	0.52
1:B:79:LEU:HA	1:B:82:LEU:HB2	1.91	0.52
1:B:307:LEU:CD2	1:B:314:LEU:HB2	2.37	0.52
2:C:204:LEU:HD12	2:C:369:MET:HE3	1.92	0.52
2:C:303:ASP:CB	2:C:306:THR:HG22	2.39	0.52
2:C:487:LEU:HD23	2:C:487:LEU:C	2.35	0.52
3:D:227:PHE:CD1	3:D:227:PHE:C	2.87	0.52
3:D:407:VAL:O	3:D:411:ILE:HG12	2.10	0.52
3:D:432:LEU:C	3:D:434:ILE:N	2.68	0.52
3:D:530:PRO:HA	3:D:533:ALA:HB2	1.91	0.52
3:D:649:LYS:HD2	3:D:652:GLU:OE1	2.10	0.52
3:D:1160:SER:HA	3:D:1204:VAL:O	2.10	0.52
3:D:1334:GLU:O	3:D:1337:VAL:HG22	2.10	0.52
5:F:361:ILE:CG1	5:F:362:ASN:N	2.72	0.52
1:G:45:ARG:HH12	1:H:37:HIS:HB3	1.75	0.52
1:H:153:VAL:N	1:H:175:ALA:O	2.26	0.52
2:I:30:ILE:N	2:I:30:ILE:CD1	2.73	0.52
2:I:685:MET:HB3	2:I:1235:LEU:HD11	1.91	0.52
2:I:736:VAL:CG2	2:I:748:ILE:HA	2.39	0.52
2:I:994:ARG:HA	2:I:997:TRP:CE2	2.45	0.52
2:I:1214:ASP:HB2	2:I:1221:PHE:HZ	1.73	0.52
5:L:359:LYS:HG3	5:L:360:ASP:N	2.25	0.52
5:L:439:ILE:O	5:L:442:SER:HB3	2.10	0.52
1:A:26:VAL:HG23	1:A:28:LEU:HD11	1.91	0.52
1:A:45:ARG:HE	2:C:1083:GLU:HB3	1.73	0.52
1:A:85:LEU:O	1:A:88:LEU:N	2.38	0.52
2:C:195:PHE:CD1	2:C:203:LYS:HG2	2.45	0.52
2:C:390:PHE:HA	2:C:419:ILE:HG21	1.91	0.52
2:C:724:VAL:CG1	2:C:727:VAL:HG23	2.40	0.52
2:C:742:TYR:HD2	2:C:743:PRO:CD	2.23	0.52
2:C:1031:ALA:O	2:C:1034:ARG:N	2.43	0.52
2:C:1214:ASP:OD1	2:C:1214:ASP:C	2.53	0.52
3:D:130:MET:CG	3:D:131:PRO:HD2	2.38	0.52
3:D:421:VAL:HA	3:D:471:PRO:HD3	1.92	0.52
5:F:446:GLN:HG3	5:F:446:GLN:O	2.09	0.52
5:F:462:LYS:HE3	5:F:487:MET:SD	2.50	0.52
2:I:247:ARG:CZ	2:I:247:ARG:HB2	2.38	0.52
2:I:516:ASP:CA	2:I:761:GLN:HE22	2.15	0.52
2:I:600:THR:CG2	2:I:602:GLU:H	2.22	0.52
2:I:1333:LEU:O	3:J:243:PRO:HG3	2.09	0.52
3:J:119:SER:OG	3:J:1333:THR:HG21	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:172:PHE:CD2	3:J:172:PHE:N	2.76	0.52
3:J:431:ARG:HG3	3:J:432:LEU:HD23	1.91	0.52
3:J:704:GLU:O	3:J:704:GLU:HG3	2.09	0.52
3:J:826:ILE:N	3:J:831:VAL:HA	2.24	0.52
3:J:869:CYS:HA	3:J:872:LEU:HB2	1.92	0.52
3:J:1146:GLU:HA	3:J:1146:GLU:OE2	2.09	0.52
3:J:1269:ALA:HB2	3:J:1274:PHE:CD1	2.45	0.52
4:K:4:VAL:HG13	4:K:5:THR:HG23	1.91	0.52
4:K:66:VAL:HG22	4:K:69:ARG:NH2	2.25	0.52
5:L:130:VAL:HA	5:L:133:SER:CB	2.40	0.52
5:L:388:ILE:O	5:L:392:LYS:HB2	2.10	0.52
5:L:448:ARG:CZ	5:L:452:ILE:HD12	2.39	0.52
1:A:166:ARG:HD2	1:A:166:ARG:C	2.35	0.52
1:B:212:ASP:HB2	1:B:213:PRO:HD2	1.91	0.52
1:B:303:ILE:O	1:B:305:ASP:N	2.43	0.52
2:C:671:LEU:O	2:C:674:ASP:N	2.37	0.52
2:C:1006:GLU:OE2	2:C:1007:LYS:HG3	2.10	0.52
2:C:1319:MET:HG3	2:C:1320:PRO:HD2	1.90	0.52
3:D:254:PRO:O	3:D:255:LEU:HD13	2.10	0.52
3:D:352:ARG:HB3	3:D:467:ALA:CB	2.40	0.52
3:D:537:TYR:O	3:D:539:SER:N	2.43	0.52
3:D:820:ILE:HG22	3:D:1227:HIS:CE1	2.45	0.52
3:D:1162:ILE:HD12	3:D:1163:VAL:N	2.22	0.52
3:D:1323:ALA:HB2	3:D:1331:VAL:CG1	2.37	0.52
1:G:218:ARG:HG3	1:H:232:VAL:HA	1.91	0.52
1:H:37:HIS:CE1	2:I:1216:ARG:HD2	2.45	0.52
1:H:153:VAL:HG11	1:H:158:ARG:HD3	1.91	0.52
1:H:183:ILE:HD12	1:H:183:ILE:N	2.21	0.52
2:I:84:GLU:HA	2:I:87:ILE:HD12	1.91	0.52
2:I:490:GLN:HG2	2:I:490:GLN:O	2.08	0.52
2:I:817:LEU:HD21	2:I:1080:ASN:HB2	1.92	0.52
2:I:1242:LYS:O	2:I:1244:HIS:CE1	2.63	0.52
3:J:313:GLY:O	3:J:314:ARG:HG3	2.10	0.52
3:J:365:GLN:HA	3:J:438:GLU:H	1.74	0.52
3:J:372:MET:C	3:J:376:LEU:HD12	2.34	0.52
3:J:409:TRP:O	3:J:412:LEU:HB3	2.10	0.52
3:J:580:TRP:CE3	3:J:583:VAL:HG21	2.45	0.52
3:J:674:THR:HG23	3:J:677:GLU:CG	2.40	0.52
3:J:722:ILE:O	3:J:725:MET:HB2	2.10	0.52
3:J:1313:SER:C	3:J:1315:ALA:H	2.18	0.52
5:L:288:MET:HG3	5:L:302:PHE:CE2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:396:ASN:O	5:L:396:ASN:ND2	2.43	0.52
1:A:81:ILE:O	1:A:84:ASN:N	2.39	0.52
1:A:90:VAL:HG23	1:A:123:ILE:HD13	1.90	0.52
1:A:231:PHE:CD2	1:B:43:LEU:HD21	2.44	0.52
1:B:46:ILE:CG2	1:B:47:LEU:N	2.68	0.52
1:B:100:LEU:HD11	1:B:118:ASP:OD1	2.09	0.52
2:C:226:GLU:HB2	2:C:245:ARG:HH22	1.75	0.52
2:C:297:VAL:HB	2:C:317:LEU:HD21	1.92	0.52
2:C:471:VAL:O	2:C:474:ALA:HB3	2.09	0.52
2:C:674:ASP:OD1	2:C:1108:ASN:HB2	2.10	0.52
2:C:1284:ALA:CB	3:D:1361:THR:CB	2.77	0.52
2:C:1292:THR:HG22	2:C:1293:VAL:N	2.24	0.52
2:C:1305:TYR:OH	3:D:379:PRO:HG3	2.10	0.52
3:D:9:LYS:HG3	3:D:10:ALA:C	2.35	0.52
3:D:18:ASP:CG	3:D:1373:ARG:HH21	2.18	0.52
3:D:26:SER:O	3:D:30:ILE:N	2.43	0.52
3:D:487:THR:O	3:D:490:ILE:CG2	2.58	0.52
3:D:661:VAL:CG2	3:D:662:ALA:N	2.73	0.52
5:F:269:LEU:O	5:F:273:MET:HG3	2.09	0.52
5:F:292:VAL:HG11	5:F:299:LYS:HG2	1.92	0.52
1:G:81:ILE:CA	1:G:84:ASN:HD22	2.18	0.52
2:I:614:TYR:HD1	2:I:652:TYR:CE1	2.28	0.52
2:I:1073:LYS:HB2	3:J:462:ASP:HB2	1.92	0.52
3:J:16:GLU:HG3	3:J:17:PHE:CD2	2.37	0.52
3:J:190:LYS:HA	3:J:235:GLU:OE2	2.10	0.52
3:J:269:TYR:O	3:J:271:ARG:N	2.43	0.52
3:J:639:VAL:HG12	3:J:725:MET:CE	2.39	0.52
5:L:501:ALA:O	5:L:502:LYS:HB2	2.10	0.52
1:A:68:TYR:HB3	2:C:756:TYR:HD2	1.75	0.51
1:A:152:TYR:CD2	1:A:154:PRO:HD3	2.45	0.51
1:B:85:LEU:C	1:B:87:GLY:N	2.68	0.51
2:C:74:ARG:HB3	2:C:74:ARG:HH11	1.74	0.51
2:C:115:LYS:HD3	2:C:116:ASP:N	2.25	0.51
2:C:157:PHE:O	2:C:442:VAL:HB	2.10	0.51
2:C:494:ASN:HD21	2:C:496:LYS:NZ	2.07	0.51
2:C:593:LYS:HE3	2:C:595:THR:CG2	2.40	0.51
2:C:836:LEU:HD12	2:C:836:LEU:N	2.25	0.51
3:D:176:PHE:C	3:D:176:PHE:CD2	2.88	0.51
3:D:751:ASP:CB	3:D:753:SER:H	2.23	0.51
3:D:807:LEU:HD23	3:D:915:ILE:HG13	1.93	0.51
5:F:99:ARG:NH1	5:F:103:ARG:HB2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:575:GLU:O	5:F:579:GLN:HG3	2.10	0.51
1:G:66:HIS:CD2	2:I:929:ILE:HG22	2.44	0.51
2:I:1075:VAL:HG23	3:J:461:PHE:O	2.10	0.51
2:I:1223:ARG:HH11	2:I:1223:ARG:CB	2.24	0.51
2:I:1281:TYR:CD2	3:J:431:ARG:HB2	2.44	0.51
2:I:1287:LEU:HD23	2:I:1288:GLN:HA	1.92	0.51
3:J:349:TYR:O	3:J:350:SER:HB3	2.08	0.51
3:J:418:GLU:OE1	4:K:2:ALA:N	2.43	0.51
3:J:425:ARG:NH1	3:J:464:ASP:HB3	2.25	0.51
3:J:842:ARG:HB3	3:J:882:VAL:CG1	2.40	0.51
3:J:1262:ARG:CB	3:J:1262:ARG:NH1	2.74	0.51
1:A:39:LEU:O	1:A:40:GLY:C	2.53	0.51
1:B:311:GLY:O	1:B:312:LEU:HD12	2.10	0.51
2:C:1220:GLN:CG	2:C:1221:PHE:N	2.73	0.51
3:D:114:ILE:HB	3:D:304:ASP:OD1	2.09	0.51
3:D:333:GLY:O	3:D:335:GLN:N	2.41	0.51
3:D:1280:VAL:HG11	3:D:1304:ARG:NH2	2.25	0.51
5:F:408:GLY:HA2	5:F:439:ILE:HG22	1.92	0.51
5:F:476:ARG:C	5:F:477:GLU:HG2	2.35	0.51
5:F:606:VAL:C	5:F:608:ARG:H	2.18	0.51
1:G:33:ARG:HG3	1:G:197:ASP:OD2	2.10	0.51
1:G:49:SER:O	1:G:51:MET:N	2.39	0.51
1:G:187:VAL:HA	1:G:201:LEU:HD13	1.92	0.51
2:I:130:MET:SD	2:I:134:GLY:HA2	2.49	0.51
2:I:218:GLU:O	2:I:222:ASP:HB2	2.10	0.51
2:I:411:ARG:HG3	2:I:411:ARG:NH1	2.25	0.51
2:I:693:LEU:HD23	2:I:693:LEU:C	2.35	0.51
2:I:795:ALA:HB1	2:I:1231:TYR:OH	2.11	0.51
2:I:944:ARG:HG3	2:I:948:ILE:CD1	2.34	0.51
2:I:1120:ALA:HB2	2:I:1199:LEU:CG	2.40	0.51
2:I:1151:LEU:C	2:I:1151:LEU:HD13	2.36	0.51
2:I:1284:ALA:CB	3:J:1356:LEU:HD21	2.32	0.51
3:J:278:ARG:O	3:J:281:ARG:HB3	2.10	0.51
3:J:583:VAL:CG1	3:J:587:LEU:HD22	2.38	0.51
3:J:905:ARG:HH12	4:K:10:VAL:CG1	2.22	0.51
3:J:1149:ARG:NH2	3:J:1153:PRO:HG2	2.25	0.51
4:K:3:ARG:HE	4:K:3:ARG:CA	2.22	0.51
5:L:247:GLU:O	5:L:251:LYS:HG3	2.10	0.51
5:L:419:PHE:HZ	5:L:427:PHE:HB2	1.75	0.51
1:B:104:LYS:HG2	1:B:110:VAL:HG13	1.93	0.51
1:B:118:ASP:OD1	1:B:118:ASP:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:265:ARG:CZ	1:B:265:ARG:HB2	2.39	0.51
2:C:183:TRP:CD1	2:C:183:TRP:N	2.77	0.51
2:C:516:ASP:HA	2:C:761:GLN:OE1	2.10	0.51
2:C:758:ARG:HG2	2:C:759:SER:O	2.11	0.51
2:C:886:LYS:O	2:C:916:SER:N	2.38	0.51
2:C:1132:LEU:HD11	2:C:1174:GLU:OE2	2.11	0.51
3:D:362:ARG:O	3:D:364:HIS:N	2.43	0.51
3:D:618:VAL:HG12	3:D:619:ILE:N	2.25	0.51
3:D:643:ASP:O	3:D:720:ASN:ND2	2.43	0.51
3:D:846:GLU:HG3	3:D:846:GLU:O	2.10	0.51
3:D:1142:ALA:O	3:D:1146:GLU:N	2.38	0.51
3:D:1155:ILE:HD12	3:D:1155:ILE:N	2.24	0.51
5:F:485:GLU:O	5:F:487:MET:N	2.32	0.51
1:H:53:GLY:O	1:H:148:ARG:HA	2.09	0.51
2:I:161:LYS:H	2:I:161:LYS:HZ2	1.56	0.51
2:I:460:ALA:O	2:I:461:GLU:C	2.53	0.51
2:I:498:ILE:O	2:I:502:VAL:HG12	2.10	0.51
2:I:1124:ILE:O	2:I:1128:ILE:HG13	2.09	0.51
3:J:227:PHE:HA	3:J:230:SER:HB3	1.92	0.51
3:J:355:ILE:HD13	3:J:466:MET:CG	2.39	0.51
3:J:599:LYS:CE	3:J:599:LYS:HA	2.21	0.51
1:A:91:ARG:NH2	1:A:122:GLU:OE1	2.43	0.51
1:A:228:LEU:CD1	1:B:224:LEU:HG	2.40	0.51
2:C:92:TYR:HE2	2:C:129:LEU:HB2	1.75	0.51
2:C:103:VAL:C	2:C:104:ILE:HD12	2.35	0.51
2:C:332:ARG:C	2:C:333:ILE:HD12	2.35	0.51
2:C:904:ALA:O	5:F:595:LEU:HD13	2.10	0.51
2:C:1170:MET:HA	2:C:1170:MET:HE3	1.91	0.51
3:D:299:LEU:O	3:D:302:ALA:N	2.42	0.51
3:D:337:ARG:HH22	3:D:1330:ARG:HH12	1.57	0.51
3:D:451:PRO:HG2	3:D:625:MET:SD	2.51	0.51
3:D:809:VAL:HG11	3:D:909:ILE:CG2	2.40	0.51
3:D:1266:ILE:HD11	3:D:1276:GLU:N	2.25	0.51
5:F:297:MET:HE1	5:F:330:LEU:HD11	1.92	0.51
5:F:470:MET:HE1	5:F:483:LEU:HA	1.93	0.51
1:H:100:LEU:HD12	1:H:100:LEU:N	2.26	0.51
2:I:428:VAL:HG12	2:I:429:MET:N	2.25	0.51
2:I:512:SER:O	2:I:513:GLN:HG2	2.11	0.51
2:I:697:LYS:HA	2:I:795:ALA:CB	2.38	0.51
2:I:902:LEU:HD11	5:L:604:SER:HB3	1.90	0.51
2:I:1211:ARG:HD3	2:I:1213:TYR:OH	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:139:LEU:HB3	3:J:140:TYR:CD1	2.46	0.51
3:J:147:ILE:HG13	3:J:147:ILE:O	2.11	0.51
3:J:148:GLU:N	3:J:156:ARG:HG3	2.19	0.51
3:J:1163:VAL:HG22	3:J:1164:SER:N	2.25	0.51
3:J:1166:GLY:O	3:J:1174:ARG:HB2	2.11	0.51
5:L:462:LYS:HG2	5:L:466:ILE:HG13	1.92	0.51
5:L:562:ARG:O	5:L:563:PHE:HD1	1.93	0.51
1:A:77:ASP:OD1	1:A:77:ASP:N	2.37	0.51
2:C:30:ILE:N	2:C:30:ILE:CD1	2.73	0.51
2:C:812:PHE:CE2	3:D:451:PRO:CB	2.94	0.51
2:C:860:ALA:O	2:C:863:SER:OG	2.24	0.51
2:C:972:PHE:CZ	2:C:1018:TYR:HE1	2.28	0.51
2:C:1126:ASP:O	2:C:1129:ASN:HB3	2.10	0.51
3:D:171:GLU:OE1	3:D:172:PHE:HE2	1.93	0.51
3:D:412:LEU:HD23	3:D:412:LEU:C	2.35	0.51
5:F:561:MET:O	5:F:571:TYR:N	2.34	0.51
1:H:92:VAL:HG13	1:H:120:ASP:O	2.11	0.51
1:H:151:GLY:O	1:H:177:TYR:HB2	2.10	0.51
1:H:208:ASN:OD1	1:H:210:THR:HG23	2.11	0.51
2:I:289:VAL:HG22	2:I:322:LEU:HD12	1.91	0.51
2:I:453:ILE:HD11	2:I:530:ILE:CD1	2.31	0.51
2:I:526:HIS:O	2:I:529:ARG:HB2	2.10	0.51
2:I:796:LEU:HB2	2:I:1233:LEU:HD11	1.93	0.51
2:I:1191:LYS:HZ1	2:I:1192:GLU:HB2	1.75	0.51
2:I:1295:SER:HB3	3:J:347:VAL:HG23	1.89	0.51
3:J:35:PHE:HD1	3:J:101:ARG:HB3	1.74	0.51
3:J:43:THR:HG22	3:J:57:PHE:CD2	2.45	0.51
3:J:260:PHE:O	5:L:504:PRO:HB2	2.10	0.51
3:J:261:ALA:HB2	5:L:505:ILE:HG23	1.91	0.51
3:J:407:VAL:O	3:J:411:ILE:HG12	2.11	0.51
3:J:514:THR:HG1	3:J:595:ALA:C	2.17	0.51
3:J:537:TYR:CE2	3:J:544:LEU:HD22	2.45	0.51
3:J:686:TRP:O	3:J:689:ALA:HB3	2.10	0.51
3:J:891:ASP:CG	3:J:1284:ARG:HG2	2.35	0.51
1:B:140:ILE:HD12	1:B:141:SER:H	1.72	0.51
1:B:145:LYS:HG2	1:B:146:VAL:N	2.25	0.51
2:C:27:LEU:HD12	2:C:711:ASP:CB	2.41	0.51
2:C:851:THR:OG1	2:C:852:ALA:N	2.43	0.51
2:C:994:ARG:HA	2:C:997:TRP:NE1	2.26	0.51
3:D:653:ILE:HA	3:D:656:GLU:CG	2.41	0.51
3:D:908:ILE:HG12	3:D:909:ILE:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1268:ASN:O	3:D:1300:ALA:HB1	2.10	0.51
5:F:376:LYS:O	5:F:379:MET:N	2.43	0.51
5:F:576:VAL:C	5:F:577:GLY:O	2.51	0.51
5:F:585:GLU:OE2	5:F:588:ARG:HD2	2.10	0.51
1:H:68:TYR:CD2	1:H:68:TYR:N	2.77	0.51
1:H:127:GLN:O	1:H:127:GLN:HG2	2.10	0.51
1:H:155:ALA:N	1:H:174:ASP:OD1	2.23	0.51
2:I:634:VAL:O	2:I:645:PHE:N	2.44	0.51
2:I:658:GLN:O	2:I:660:VAL:N	2.43	0.51
2:I:1106:ARG:HD3	2:I:1106:ARG:H	1.76	0.51
3:J:673:VAL:HB	3:J:677:GLU:OE1	2.11	0.51
3:J:1356:LEU:HD23	3:J:1357:ILE:HG13	1.93	0.51
4:K:77:ALA:C	4:K:79:GLU:H	2.19	0.51
5:L:141:ILE:HG13	5:L:256:PHE:CE1	2.45	0.51
5:L:253:SER:O	5:L:257:LYS:HG3	2.10	0.51
5:L:273:MET:O	5:L:276:MET:N	2.44	0.51
1:A:12:ARG:N	1:A:30:PRO:CG	2.74	0.51
1:A:95:LYS:NZ	1:A:118:ASP:OD1	2.43	0.51
1:A:166:ARG:O	1:A:167:PRO:C	2.53	0.51
1:B:123:ILE:HG23	1:B:125:LYS:H	1.75	0.51
2:C:92:TYR:CD2	2:C:129:LEU:HB2	2.45	0.51
2:C:221:LEU:HD21	2:C:314:ASN:HB2	1.92	0.51
2:C:350:THR:O	2:C:353:VAL:HG23	2.11	0.51
2:C:379:GLU:OE2	2:C:379:GLU:N	2.37	0.51
2:C:453:ILE:HG22	2:C:453:ILE:O	2.11	0.51
2:C:599:VAL:HG12	2:C:600:THR:O	2.11	0.51
2:C:1301:ARG:O	2:C:1304:MET:N	2.43	0.51
3:D:203:GLU:O	3:D:207:GLU:N	2.43	0.51
3:D:358:GLY:H	3:D:359:PRO:CD	2.21	0.51
3:D:390:LEU:HD21	3:D:407:VAL:CG1	2.40	0.51
3:D:499:ILE:HG23	3:D:500:ILE:HG12	1.93	0.51
3:D:1238:GLN:O	3:D:1242:ARG:HB2	2.11	0.51
3:D:1275:LEU:HD12	3:D:1276:GLU:N	2.25	0.51
1:G:9:LEU:HD23	1:G:10:LYS:N	2.26	0.51
1:G:118:ASP:HB3	1:G:121:VAL:HB	1.93	0.51
2:I:68:LEU:HD12	2:I:69:GLN:H	1.75	0.51
2:I:471:VAL:CG1	2:I:472:GLU:N	2.74	0.51
2:I:529:ARG:C	2:I:530:ILE:HG12	2.36	0.51
2:I:599:VAL:HG12	2:I:600:THR:O	2.11	0.51
2:I:655:VAL:N	2:I:659:GLN:OE1	2.37	0.51
2:I:1116:HIS:HE1	3:J:641:ILE:CB	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1323:PHE:O	2:I:1327:LEU:HD12	2.10	0.51
3:J:23:ALA:O	3:J:1336:ALA:HB1	2.11	0.51
3:J:43:THR:OG1	5:L:449:THR:O	2.26	0.51
3:J:419:HIS:NE2	3:J:477:GLN:OE1	2.44	0.51
3:J:424:ASN:HB2	3:J:433:GLY:O	2.11	0.51
3:J:707:ILE:HG22	3:J:708:ASN:N	2.18	0.51
3:J:847:ASP:HA	3:J:858:VAL:O	2.10	0.51
3:J:1191:PRO:C	3:J:1193:TRP:N	2.68	0.51
5:L:398:GLY:O	5:L:399:LEU:HD22	2.11	0.51
1:B:35:PHE:N	1:B:35:PHE:CD1	2.79	0.51
1:B:95:LYS:HB2	1:B:120:ASP:OD1	2.09	0.51
2:C:210:LEU:HB3	2:C:220:ILE:CD1	2.40	0.51
2:C:1247:SER:OG	2:C:1248:THR:N	2.43	0.51
3:D:510:LEU:HA	3:D:513:MET:HE2	1.93	0.51
3:D:518:VAL:HG11	3:D:707:ILE:CD1	2.38	0.51
3:D:653:ILE:O	3:D:656:GLU:HB2	2.10	0.51
3:D:840:LEU:HD12	3:D:864:LEU:O	2.11	0.51
1:G:154:PRO:HG2	1:G:157:THR:OG1	2.11	0.51
2:I:14:ASP:N	2:I:1157:GLN:OE1	2.32	0.51
2:I:98:VAL:HG21	2:I:124:MET:HE2	1.85	0.51
2:I:496:LYS:HA	2:I:499:SER:HB3	1.91	0.51
2:I:855:PRO:C	2:I:856:ASN:CG	2.78	0.51
2:I:1254:VAL:O	3:J:99:ARG:NH2	2.40	0.51
3:J:424:ASN:HD21	3:J:467:ALA:HB3	1.74	0.51
3:J:492:SER:N	3:J:499:ILE:HB	2.26	0.51
3:J:697:MET:HE1	3:J:737:ILE:CG2	2.41	0.51
3:J:746:LEU:HD12	3:J:746:LEU:N	2.25	0.51
3:J:810:THR:HG23	3:J:894:VAL:H	1.76	0.51
3:J:1249:ASN:OD1	3:J:1251:LYS:HG3	2.11	0.51
5:L:240:ARG:HD3	5:L:244:THR:CG2	2.41	0.51
5:L:498:LEU:H	5:L:498:LEU:CD2	2.24	0.51
2:C:22:LEU:HD13	2:C:22:LEU:C	2.36	0.51
2:C:157:PHE:C	2:C:442:VAL:HG12	2.36	0.51
2:C:211:ARG:HH12	2:C:217:THR:CB	2.21	0.51
2:C:487:LEU:HD11	2:C:492:MET:HE2	1.93	0.51
2:C:887:VAL:HA	2:C:914:LYS:O	2.11	0.51
3:D:77:ARG:C	3:D:79:LYS:N	2.67	0.51
3:D:97:VAL:C	3:D:99:ARG:N	2.69	0.51
3:D:201:LEU:HD11	3:D:220:ARG:NH1	2.26	0.51
3:D:277:ASN:O	3:D:280:LYS:N	2.43	0.51
3:D:589:TYR:C	3:D:591:ILE:H	2.18	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:609:TYR:O	3:D:613:GLY:HA2	2.10	0.51
3:D:719:PHE:O	3:D:724:MET:HE2	2.11	0.51
3:D:790:THR:OG1	3:D:928:THR:HG23	2.10	0.51
3:D:1179:PRO:HD2	3:D:1184:ASP:HB3	1.92	0.51
4:E:46:THR:O	4:E:46:THR:OG1	2.28	0.51
5:F:279:ARG:C	5:F:282:THR:HB	2.36	0.51
5:F:402:LEU:HA	5:F:405:ILE:HG23	1.93	0.51
1:G:152:TYR:CE1	2:I:824:GLN:HA	2.46	0.51
2:I:13:LYS:HD2	2:I:14:ASP:H	1.75	0.51
2:I:30:ILE:CD1	2:I:30:ILE:H	2.24	0.51
2:I:540:ARG:HH21	2:I:568:ASN:ND2	2.08	0.51
2:I:615:VAL:HG22	2:I:650:VAL:HG12	1.92	0.51
2:I:744:GLY:HA3	2:I:1013:GLN:OE1	2.11	0.51
2:I:805:MET:HE1	2:I:1221:PHE:CE1	2.46	0.51
3:J:373:ALA:HA	3:J:376:LEU:HB2	1.92	0.51
3:J:502:PRO:HB2	3:J:507:VAL:HG12	1.93	0.51
3:J:1241:TYR:C	3:J:1244:GLN:H	2.19	0.51
3:J:1262:ARG:HB2	3:J:1262:ARG:HH11	1.76	0.51
3:J:1343:GLU:O	3:J:1344:LEU:HB2	2.11	0.51
4:K:3:ARG:NH2	4:K:4:VAL:HG12	2.25	0.51
5:L:517:SER:C	5:L:518:HIS:HD1	2.17	0.51
1:A:38:THR:HG22	1:A:39:LEU:CD2	2.41	0.51
1:A:90:VAL:HG23	1:A:123:ILE:CD1	2.41	0.51
1:A:218:ARG:HD3	1:B:232:VAL:O	2.11	0.51
1:B:197:ASP:O	1:B:198:LEU:HD13	2.11	0.51
1:B:208:ASN:ND2	1:B:210:THR:HG23	2.25	0.51
2:C:478:ARG:NH1	2:C:482:GLY:CA	2.74	0.51
2:C:486:THR:HG23	2:C:487:LEU:H	1.75	0.51
2:C:498:ILE:O	2:C:502:VAL:HG12	2.10	0.51
2:C:560:PRO:CG	3:D:773:PHE:CE2	2.92	0.51
2:C:894:GLN:NE2	3:D:77:ARG:HH11	2.08	0.51
2:C:1029:LEU:CD2	2:C:1030:GLU:N	2.71	0.51
2:C:1096:ILE:HD13	2:C:1232:MET:HE1	1.91	0.51
2:C:1142:ARG:HH22	2:C:1165:SER:HA	1.72	0.51
2:C:1330:ILE:HG21	2:C:1337:ILE:HG21	1.93	0.51
3:D:140:TYR:O	3:D:141:PHE:HB2	2.11	0.51
3:D:205:LEU:N	3:D:217:LEU:HD21	2.26	0.51
3:D:908:ILE:HG12	3:D:909:ILE:H	1.75	0.51
3:D:1356:LEU:O	3:D:1366:HIS:CE1	2.64	0.51
4:E:59:ILE:CG2	4:E:64:LEU:HD21	2.41	0.51
5:F:124:GLU:CA	5:F:127:ILE:HG12	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:465:ARG:HE	5:F:468:ARG:HH21	1.58	0.51
5:F:562:ARG:C	5:F:563:PHE:CD1	2.89	0.51
1:G:82:LEU:O	1:G:85:LEU:HB2	2.11	0.51
1:G:98:VAL:HG22	1:G:99:ILE:N	2.26	0.51
1:H:158:ARG:HB3	1:H:172:LEU:HD23	1.91	0.51
2:I:93:SER:OG	2:I:94:ALA:N	2.44	0.51
2:I:531:SER:C	2:I:533:LEU:H	2.19	0.51
2:I:560:PRO:CG	2:I:660:VAL:HG23	2.40	0.51
2:I:932:GLN:O	2:I:933:VAL:HG23	2.11	0.51
2:I:1116:HIS:CE1	3:J:641:ILE:CB	2.93	0.51
3:J:107:LEU:HD12	3:J:240:THR:O	2.11	0.51
3:J:134:ASP:HA	3:J:137:ARG:HB3	1.93	0.51
4:K:44:ASP:CB	4:K:49:ILE:HG13	2.39	0.51
4:K:58:LEU:O	4:K:63:ILE:HG12	2.11	0.51
2:C:225:PHE:HZ	2:C:347:ILE:HB	1.72	0.50
2:C:263:VAL:CG1	2:C:267:ARG:HB3	2.41	0.50
2:C:310:ILE:CD1	2:C:325:LEU:HB3	2.41	0.50
2:C:518:ASN:OD1	2:C:518:ASN:N	2.25	0.50
2:C:1096:ILE:CD1	2:C:1232:MET:HE1	2.40	0.50
2:C:1146:GLN:HE21	2:C:1146:GLN:C	2.13	0.50
3:D:45:ASN:O	3:D:46:TYR:CB	2.58	0.50
3:D:111:THR:O	3:D:239:LEU:HB2	2.10	0.50
3:D:549:LYS:HG2	3:D:571:ASP:CG	2.36	0.50
3:D:872:LEU:CD2	3:D:877:VAL:HG21	2.39	0.50
5:F:520:GLY:HA2	5:F:523:ILE:HG13	1.92	0.50
1:G:124:VAL:HG11	1:G:210:THR:CG2	2.41	0.50
1:G:127:GLN:H	1:G:127:GLN:CD	2.18	0.50
2:I:34:SER:OG	2:I:457:GLY:N	2.38	0.50
2:I:201:ARG:HG3	2:I:201:ARG:NH1	2.26	0.50
2:I:669:PRO:CB	2:I:702:THR:HG22	2.41	0.50
2:I:799:ASN:HD22	2:I:799:ASN:C	2.16	0.50
2:I:1131:MET:HA	2:I:1134:GLN:HB3	1.93	0.50
3:J:177:ASP:OD2	3:J:179:LYS:NZ	2.44	0.50
3:J:510:LEU:HD12	3:J:513:MET:HE2	1.93	0.50
3:J:847:ASP:HB2	3:J:856:ILE:CD1	2.41	0.50
3:J:1169:THR:HA	3:J:1192:LYS:HD3	1.92	0.50
5:L:124:GLU:CG	5:L:128:ASN:HD21	2.22	0.50
5:L:492:ASP:HA	5:L:495:ARG:HG3	1.93	0.50
5:L:503:GLU:N	5:L:504:PRO:HA	2.26	0.50
5:L:527:THR:HG23	5:L:528:LEU:N	2.26	0.50
1:A:98:VAL:HG23	1:A:99:ILE:N	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:100:LEU:HD23	1:A:115:ILE:CG2	2.36	0.50
2:C:4:SER:HB3	2:C:7:GLU:OE1	2.11	0.50
2:C:198:ILE:HG22	2:C:199:ASP:OD1	2.11	0.50
2:C:592:ARG:O	2:C:652:TYR:HA	2.10	0.50
2:C:820:GLU:HB2	2:C:1080:ASN:O	2.10	0.50
2:C:892:GLU:O	2:C:892:GLU:CG	2.54	0.50
2:C:1223:ARG:HB3	2:C:1223:ARG:NH1	2.26	0.50
3:D:1321:SER:C	3:D:1325:PHE:CE1	2.89	0.50
1:G:14:VAL:HG13	1:G:15:ASP:N	2.25	0.50
1:G:155:ALA:H	1:G:174:ASP:CG	2.19	0.50
1:H:112:ALA:HB3	1:H:126:PRO:O	2.11	0.50
1:H:136:GLU:CD	1:H:137:ASN:H	2.19	0.50
2:I:303:ASP:N	2:I:308:GLU:O	2.39	0.50
2:I:411:ARG:NH2	2:I:427:ASP:OD2	2.41	0.50
2:I:685:MET:HA	2:I:688:GLN:NE2	2.15	0.50
2:I:698:PRO:HA	2:I:1231:TYR:CD1	2.46	0.50
2:I:896:THR:OG1	2:I:899:GLU:HG3	2.12	0.50
2:I:1134:GLN:C	2:I:1135:GLN:HG2	2.35	0.50
2:I:1339:LEU:HD23	3:J:17:PHE:CE1	2.46	0.50
3:J:50:LYS:HB3	3:J:51:PRO:HD2	1.92	0.50
3:J:526:VAL:CG1	3:J:549:LYS:HB2	2.41	0.50
3:J:644:MET:HB2	3:J:764:ARG:HG3	1.92	0.50
5:L:213:ASP:HB2	5:L:216:LEU:CB	2.41	0.50
5:L:464:ASN:O	5:L:468:ARG:HG3	2.12	0.50
1:B:101:THR:HA	1:B:142:MET:C	2.37	0.50
2:C:5:TYR:O	2:C:8:LYS:N	2.44	0.50
2:C:63:SER:O	2:C:65:ASN:N	2.44	0.50
2:C:74:ARG:HH11	2:C:74:ARG:CB	2.24	0.50
2:C:102:LEU:HD23	2:C:117:ILE:CG1	2.40	0.50
2:C:187:GLU:O	2:C:194:LEU:HD12	2.11	0.50
2:C:358:ASP:OD2	2:C:361:SER:HB2	2.11	0.50
2:C:507:GLY:O	2:C:508:SER:OG	2.29	0.50
3:D:197:GLU:C	3:D:201:LEU:HG	2.35	0.50
3:D:478:LEU:CB	4:E:20:VAL:HG13	2.41	0.50
3:D:883:ARG:HE	3:D:898:CYS:HA	1.77	0.50
3:D:1322:ALA:HA	3:D:1325:PHE:HE1	1.73	0.50
4:E:68:GLU:C	4:E:70:GLN:N	2.69	0.50
5:F:608:ARG:NE	5:F:609:SER:HA	2.27	0.50
2:I:18:ARG:HH22	2:I:621:SER:N	2.08	0.50
2:I:32:LEU:HD23	2:I:130:MET:SD	2.51	0.50
2:I:74:ARG:HH12	2:I:97:ARG:HB2	1.73	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:76:GLY:O	2:I:95:PRO:HD2	2.10	0.50
2:I:1043:ALA:C	2:I:1046:VAL:HG13	2.36	0.50
2:I:1047:LEU:HD23	2:I:1047:LEU:N	2.26	0.50
2:I:1100:PRO:C	2:I:1101:LEU:HD23	2.37	0.50
2:I:1115:THR:O	2:I:1228:GLY:HA3	2.11	0.50
2:I:1312:ASN:HD21	2:I:1314:GLN:HE21	1.58	0.50
3:J:120:LEU:HD13	3:J:121:PRO:N	2.26	0.50
3:J:599:LYS:HA	3:J:599:LYS:HE2	1.91	0.50
3:J:1233:ILE:O	3:J:1237:VAL:HG12	2.11	0.50
5:L:262:VAL:CG1	5:L:264:LYS:HD3	2.41	0.50
1:B:43:LEU:O	1:B:47:LEU:HD12	2.11	0.50
1:B:46:ILE:HG22	1:B:47:LEU:H	1.74	0.50
1:B:96:ASP:OD2	1:B:97:GLU:HG3	2.11	0.50
1:B:124:VAL:HG11	1:B:209:GLY:HA3	1.93	0.50
2:C:901:LEU:HB2	5:F:563:PHE:CD2	2.44	0.50
2:C:1144:PHE:HA	2:C:1147:ARG:HG3	1.94	0.50
2:C:1257:GLN:HB3	2:C:1258:PRO:CD	2.39	0.50
3:D:324:LEU:H	3:D:324:LEU:HD12	1.75	0.50
3:D:762:ASN:OD1	3:D:764:ARG:N	2.44	0.50
3:D:923:ILE:HG22	3:D:924:GLY:N	2.23	0.50
5:F:279:ARG:HA	5:F:282:THR:CB	2.40	0.50
5:F:487:MET:CB	5:F:489:MET:H	2.23	0.50
1:H:28:LEU:HD23	1:H:31:LEU:HD21	1.93	0.50
2:I:20:GLN:HB3	2:I:1156:ARG:HH22	1.75	0.50
2:I:284:LEU:HD12	2:I:285:ILE:H	1.77	0.50
2:I:386:GLU:CA	2:I:390:PHE:HD2	2.21	0.50
2:I:465:ARG:O	2:I:468:LEU:N	2.40	0.50
2:I:1141:LEU:O	2:I:1144:PHE:N	2.44	0.50
3:J:83:VAL:O	3:J:91:GLU:HA	2.11	0.50
3:J:127:LEU:HD12	3:J:127:LEU:C	2.35	0.50
3:J:544:LEU:O	3:J:574:VAL:HB	2.11	0.50
3:J:611:ILE:CB	3:J:612:LEU:HD12	2.41	0.50
3:J:625:MET:O	3:J:627:THR:N	2.44	0.50
4:K:42:GLU:C	4:K:44:ASP:N	2.70	0.50
5:L:227:GLN:HG3	5:L:252:LEU:CA	2.41	0.50
5:L:251:LYS:HA	5:L:254:GLU:HB2	1.94	0.50
5:L:485:GLU:C	5:L:487:MET:N	2.68	0.50
5:L:505:ILE:HD12	5:L:506:SER:N	2.27	0.50
2:C:150:HIS:CD2	2:C:452:ARG:HG2	2.47	0.50
2:C:303:ASP:CB	2:C:306:THR:CG2	2.86	0.50
2:C:705:GLU:HB2	2:C:794:LEU:H	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:745:GLU:OE2	2:C:1017:GLN:HB3	2.11	0.50
2:C:903:ARG:HD2	2:C:908:GLU:H	1.77	0.50
2:C:1259:LEU:HD21	5:F:522:PHE:HA	1.93	0.50
3:D:256:ASP:C	3:D:258:GLY:H	2.18	0.50
3:D:504:GLN:HG3	3:D:505:ASP:N	2.26	0.50
3:D:549:LYS:HG2	3:D:571:ASP:OD1	2.11	0.50
3:D:615:LYS:CE	3:D:616:PRO:HD3	2.37	0.50
3:D:627:THR:CG2	3:D:628:GLY:N	2.75	0.50
3:D:809:VAL:HG11	3:D:909:ILE:HG21	1.93	0.50
3:D:869:CYS:O	3:D:873:GLU:N	2.43	0.50
3:D:1321:SER:C	3:D:1325:PHE:HE1	2.19	0.50
5:F:105:MET:HG3	5:F:384:LEU:HD12	1.92	0.50
5:F:291:CYS:HG	5:F:315:TRP:HH2	1.57	0.50
5:F:519:LEU:HD13	5:F:519:LEU:C	2.36	0.50
1:G:29:GLU:OE1	1:G:200:LYS:HE2	2.11	0.50
1:G:38:THR:HG23	1:H:45:ARG:HB2	1.93	0.50
2:I:42:ASP:OD2	2:I:46:GLN:HB3	2.10	0.50
2:I:339:ASN:OD1	2:I:342:ASP:N	2.43	0.50
2:I:346:TYR:CZ	2:I:436:ARG:HG3	2.46	0.50
2:I:458:GLU:O	2:I:462:ASN:ND2	2.44	0.50
2:I:616:ILE:N	2:I:616:ILE:HD12	2.26	0.50
2:I:698:PRO:HG3	2:I:1231:TYR:CE2	2.46	0.50
3:J:233:LYS:N	3:J:236:TRP:CZ3	2.79	0.50
3:J:492:SER:HG	3:J:494:ALA:HB3	1.75	0.50
3:J:770:LEU:H	3:J:770:LEU:HD22	1.77	0.50
3:J:804:ALA:O	3:J:806:ASP:N	2.45	0.50
3:J:902:ASP:O	3:J:909:ILE:HD13	2.11	0.50
5:L:136:GLU:OE2	5:L:364:ARG:NH2	2.45	0.50
5:L:343:LYS:HA	5:L:346:GLN:OE1	2.11	0.50
2:C:268:ARG:HH21	2:C:270:THR:HG21	1.77	0.50
2:C:301:TYR:CE2	2:C:333:ILE:HA	2.47	0.50
2:C:339:ASN:N	2:C:343:HIS:O	2.45	0.50
2:C:1041:ASP:C	2:C:1042:LEU:HD23	2.37	0.50
3:D:227:PHE:C	3:D:227:PHE:HD1	2.20	0.50
3:D:615:LYS:CB	3:D:616:PRO:HD3	2.41	0.50
3:D:843:VAL:CG2	3:D:861:ASN:HB2	2.41	0.50
3:D:1226:VAL:C	3:D:1228:ALA:H	2.20	0.50
5:F:390:ILE:HG12	5:F:391:ALA:N	2.26	0.50
1:G:49:SER:HB3	2:I:1083:GLU:CD	2.37	0.50
1:G:182:ARG:C	1:G:183:ILE:HD12	2.37	0.50
2:I:414:ILE:HG13	2:I:415:GLU:HG2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:656:SER:O	2:I:659:GLN:HG2	2.12	0.50
2:I:939:VAL:HG12	2:I:940:GLU:N	2.27	0.50
2:I:1128:ILE:CD1	2:I:1145:ILE:HD11	2.41	0.50
2:I:1247:SER:OG	2:I:1248:THR:N	2.44	0.50
3:J:75:TYR:OH	3:J:86:GLU:OE1	2.20	0.50
3:J:85:CYS:SG	3:J:87:LYS:N	2.85	0.50
3:J:156:ARG:NH2	3:J:188:LEU:O	2.45	0.50
3:J:230:SER:HB2	3:J:1337:VAL:O	2.11	0.50
3:J:252:LEU:CD2	3:J:262:THR:CB	2.88	0.50
3:J:260:PHE:C	5:L:504:PRO:HG2	2.36	0.50
3:J:449:LEU:HD12	3:J:450:HIS:H	1.76	0.50
5:L:96:ASP:OD1	5:L:98:VAL:HG13	2.10	0.50
5:L:230:VAL:HG22	5:L:248:GLU:OE1	2.12	0.50
5:L:500:ILE:HG22	5:L:500:ILE:O	2.12	0.50
1:A:112:ALA:N	1:A:128:HIS:O	2.41	0.50
1:B:77:ASP:N	1:B:80:GLU:HB3	2.26	0.50
1:B:124:VAL:HG12	1:B:125:LYS:HG3	1.93	0.50
1:B:300:LEU:HD13	1:B:300:LEU:O	2.12	0.50
2:C:61:SER:HB3	2:C:479:LEU:HB3	1.93	0.50
2:C:176:ILE:O	2:C:176:ILE:HG22	2.11	0.50
2:C:215:TYR:HE2	2:C:422:LYS:CD	2.25	0.50
2:C:932:GLN:O	2:C:933:VAL:HG23	2.11	0.50
2:C:1156:ARG:HH11	2:C:1156:ARG:CB	2.24	0.50
2:C:1320:PRO:HB3	3:D:345:LYS:NZ	2.27	0.50
2:C:1325:VAL:O	2:C:1327:LEU:N	2.45	0.50
3:D:364:HIS:HB2	3:D:485:MET:CE	2.41	0.50
3:D:552:ILE:C	3:D:552:ILE:HD12	2.37	0.50
3:D:824:PRO:HB3	3:D:835:LEU:N	2.27	0.50
3:D:1172:LYS:HA	3:D:1190:ILE:O	2.12	0.50
4:E:32:VAL:O	4:E:32:VAL:HG12	2.11	0.50
5:F:120:ALA:O	5:F:123:ILE:HB	2.12	0.50
5:F:281:ARG:HA	5:F:284:GLU:HB2	1.93	0.50
5:F:564:GLY:O	5:F:567:MET:N	2.40	0.50
1:G:39:LEU:O	1:G:43:LEU:HB2	2.12	0.50
1:G:81:ILE:HA	1:G:84:ASN:ND2	2.20	0.50
1:G:98:VAL:HG22	1:G:99:ILE:H	1.76	0.50
2:I:388:LEU:CB	2:I:389:PHE:CD2	2.94	0.50
2:I:540:ARG:HE	2:I:568:ASN:CG	2.19	0.50
2:I:548:ARG:NH2	2:I:567:PRO:O	2.45	0.50
2:I:648:ASP:O	2:I:649:GLN:HG2	2.12	0.50
2:I:933:VAL:CG2	2:I:1050:VAL:CG1	2.88	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:994:ARG:HG2	2:I:997:TRP:CZ2	2.47	0.50
2:I:1109:ILE:O	2:I:1112:ILE:HB	2.11	0.50
3:J:615:LYS:HG2	4:K:5:THR:OG1	2.11	0.50
3:J:1167:LYS:HB2	3:J:1174:ARG:HD3	1.94	0.50
3:J:1171:GLY:CA	3:J:1193:TRP:HZ3	2.24	0.50
4:K:62:GLN:O	4:K:66:VAL:HG23	2.12	0.50
5:L:345:GLN:HA	5:L:348:GLU:OE1	2.12	0.50
5:L:509:THR:CG2	5:L:510:PRO:HD2	2.42	0.50
5:L:601:PRO:C	5:L:603:ARG:H	2.18	0.50
1:A:172:LEU:HD12	1:A:172:LEU:H	1.77	0.50
2:C:607:SER:CA	2:C:610:GLU:HG3	2.42	0.50
2:C:621:SER:CB	2:C:634:VAL:HG21	2.39	0.50
2:C:819:SER:C	2:C:821:ARG:N	2.68	0.50
2:C:975:ILE:O	2:C:978:VAL:N	2.44	0.50
3:D:18:ASP:CB	3:D:1373:ARG:HH21	2.24	0.50
3:D:411:ILE:O	3:D:414:GLU:N	2.37	0.50
3:D:449:LEU:HD12	3:D:450:HIS:N	2.27	0.50
3:D:518:VAL:CG1	3:D:707:ILE:HD13	2.40	0.50
3:D:739:GLN:O	3:D:763:PHE:HD2	1.94	0.50
3:D:818:GLU:O	3:D:887:SER:HB2	2.12	0.50
3:D:1371:ARG:HD2	3:J:856:ILE:CD1	2.41	0.50
5:F:127:ILE:HG22	5:F:131:GLN:HG3	1.94	0.50
2:I:35:PHE:O	2:I:38:PHE:HB3	2.12	0.50
2:I:190:PRO:C	2:I:192:ASP:H	2.20	0.50
2:I:296:VAL:HG13	2:I:315:MET:O	2.11	0.50
2:I:486:THR:HG23	2:I:487:LEU:N	2.27	0.50
2:I:510:GLN:OE1	2:I:534:GLY:HA2	2.10	0.50
2:I:582:ASN:HB2	2:I:586:PHE:C	2.37	0.50
2:I:806:PRO:HB3	3:J:505:ASP:OD1	2.11	0.50
2:I:1124:ILE:HD13	2:I:1202:GLY:CA	2.41	0.50
2:I:1240:ASP:OD1	2:I:1240:ASP:N	2.31	0.50
2:I:1325:VAL:HG12	2:I:1326:LEU:N	2.27	0.50
3:J:785:ASP:O	3:J:788:LEU:HD23	2.11	0.50
3:J:1145:PHE:O	3:J:1309:ILE:HG12	2.12	0.50
3:J:1359:ALA:O	3:J:1363:TYR:N	2.45	0.50
1:A:41:ASN:O	1:A:43:LEU:N	2.45	0.50
1:B:108:GLY:O	1:B:133:LEU:HD22	2.11	0.50
1:B:282:VAL:O	1:B:315:GLY:N	2.45	0.50
1:B:287:VAL:HB	1:B:288:GLU:OE2	2.12	0.50
2:C:148:GLN:HG2	2:C:149:LEU:H	1.76	0.50
2:C:287:VAL:HB	2:C:288:PRO:HD2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:486:THR:CG2	2:C:487:LEU:N	2.72	0.50
2:C:1314:GLN:HG2	4:E:28:ARG:CZ	2.42	0.50
3:D:253:VAL:HG21	5:F:523:ILE:CD1	2.41	0.50
3:D:1146:GLU:O	3:D:1147:ALA:HB3	2.11	0.50
3:D:1282:TYR:HB3	3:D:1286:LYS:HZ1	1.74	0.50
5:F:279:ARG:O	5:F:283:GLN:HG2	2.12	0.50
5:F:487:MET:C	5:F:489:MET:H	2.20	0.50
1:G:97:GLU:HG2	1:G:97:GLU:O	2.11	0.50
2:I:53:PHE:CD2	2:I:70:TYR:CE1	3.00	0.50
2:I:342:ASP:O	2:I:437:ASN:HB3	2.12	0.50
2:I:399:ALA:O	2:I:403:MET:N	2.42	0.50
2:I:452:ARG:CG	2:I:453:ILE:N	2.75	0.50
2:I:572:ILE:O	2:I:573:ASN:CB	2.60	0.50
2:I:685:MET:HE1	2:I:1071:GLY:HA2	1.93	0.50
2:I:1325:VAL:O	2:I:1328:LYS:N	2.44	0.50
3:J:56:LEU:CD2	3:J:269:TYR:HB3	2.42	0.50
3:J:197:GLU:O	3:J:201:LEU:HG	2.12	0.50
3:J:221:ILE:HA	3:J:224:LEU:CB	2.38	0.50
3:J:425:ARG:NH1	3:J:459:ALA:HA	2.26	0.50
3:J:665:GLN:O	3:J:669:GLN:N	2.34	0.50
3:J:1165:PHE:HE1	3:J:1200:GLU:HB2	1.76	0.50
3:J:1184:ASP:N	3:J:1185:PRO:CD	2.74	0.50
3:J:1226:VAL:C	3:J:1228:ALA:N	2.68	0.50
3:J:1249:ASN:ND2	3:J:1251:LYS:HZ3	2.10	0.50
5:L:283:GLN:O	5:L:287:ILE:HG13	2.11	0.50
5:L:387:VAL:HG13	5:L:435:ILE:CG2	2.40	0.50
5:L:448:ARG:CD	5:L:452:ILE:HD12	2.40	0.50
5:L:564:GLY:O	5:L:567:MET:N	2.41	0.50
1:A:130:ILE:HD12	1:A:130:ILE:N	2.27	0.49
1:A:166:ARG:O	1:A:168:ILE:N	2.45	0.49
1:A:201:LEU:HD12	1:A:201:LEU:C	2.29	0.49
1:A:208:ASN:CG	1:A:210:THR:HG23	2.36	0.49
1:B:268:ASN:CG	1:B:271:LYS:HE2	2.37	0.49
2:C:5:TYR:HD2	2:C:781:ASP:OD1	1.95	0.49
2:C:169:LYS:HE2	2:C:190:PRO:CA	2.42	0.49
2:C:1008:GLN:O	2:C:1012:GLU:HB2	2.12	0.49
2:C:1073:LYS:HB2	3:D:462:ASP:HB2	1.93	0.49
2:C:1170:MET:HA	2:C:1170:MET:CE	2.41	0.49
3:D:64:PRO:HG2	3:D:93:THR:H	1.77	0.49
3:D:629:PHE:O	3:D:632:ALA:HB3	2.12	0.49
3:D:1252:HIS:HA	3:D:1255:VAL:HG13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:343:LYS:HA	5:F:346:GLN:HB3	1.94	0.49
1:H:79:LEU:O	1:H:83:LEU:HD13	2.11	0.49
2:I:421:SER:O	2:I:424:ASP:HB2	2.12	0.49
2:I:614:TYR:CD2	2:I:614:TYR:N	2.80	0.49
2:I:614:TYR:O	2:I:638:SER:OG	2.14	0.49
2:I:614:TYR:C	2:I:638:SER:HG	2.12	0.49
2:I:634:VAL:O	2:I:645:PHE:HB2	2.11	0.49
2:I:1113:LEU:HD11	3:J:641:ILE:HG13	1.93	0.49
2:I:1281:TYR:HE2	3:J:431:ARG:C	2.20	0.49
2:I:1334:GLY:O	3:J:25:ALA:CB	2.60	0.49
3:J:164:GLN:O	3:J:167:ASP:HB3	2.11	0.49
3:J:269:TYR:O	3:J:272:VAL:N	2.43	0.49
3:J:377:PHE:O	3:J:378:LYS:C	2.55	0.49
3:J:481:ARG:CA	3:J:485:MET:HB2	2.34	0.49
3:J:692:ARG:O	3:J:696:ALA:N	2.44	0.49
3:J:820:ILE:HG22	3:J:1227:HIS:ND1	2.27	0.49
1:A:60:GLU:CD	1:A:143:ARG:HH21	2.21	0.49
1:B:173:VAL:HG12	1:B:174:ASP:O	2.12	0.49
2:C:402:ARG:HH12	2:C:424:ASP:CG	2.20	0.49
2:C:420:LEU:N	2:C:420:LEU:CD2	2.74	0.49
2:C:529:ARG:HG2	2:C:530:ILE:N	2.22	0.49
2:C:678:ARG:HH21	2:C:1106:ARG:HG2	1.77	0.49
2:C:1282:GLY:HA3	4:E:17:PHE:CZ	2.48	0.49
3:D:161:THR:HG23	3:D:164:GLN:H	1.78	0.49
3:D:205:LEU:HD21	3:D:218:THR:HB	1.94	0.49
3:D:507:VAL:HG11	3:D:598:LYS:CB	2.39	0.49
3:D:534:GLU:HA	3:D:578:ILE:HD13	1.94	0.49
3:D:1313:SER:C	3:D:1315:ALA:N	2.71	0.49
5:F:402:LEU:HA	5:F:405:ILE:CG2	2.42	0.49
1:G:41:ASN:C	1:G:43:LEU:N	2.70	0.49
1:G:184:ALA:HB2	2:I:1091:GLY:HA3	1.93	0.49
2:I:18:ARG:NH2	2:I:620:ASN:HA	2.26	0.49
2:I:615:VAL:HG23	2:I:636:CYS:HB3	1.94	0.49
2:I:1086:PRO:HA	2:I:1213:TYR:O	2.12	0.49
3:J:42:GLU:OE1	3:J:42:GLU:N	2.45	0.49
3:J:71:LEU:HD13	3:J:71:LEU:C	2.38	0.49
3:J:287:ALA:CB	3:J:288:PRO:HD2	2.38	0.49
3:J:339:ARG:CB	3:J:340:GLN:CA	2.67	0.49
3:J:355:ILE:HG21	3:J:466:MET:HB2	1.93	0.49
3:J:390:LEU:N	3:J:390:LEU:HD12	2.27	0.49
3:J:430:HIS:ND1	3:J:925:GLU:HG3	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:520:ALA:HB3	3:J:546:ALA:CA	2.42	0.49
3:J:528:THR:O	3:J:551:ARG:HB3	2.12	0.49
3:J:759:ILE:HD13	3:J:771:GLN:HG2	1.93	0.49
3:J:800:LEU:O	3:J:803:VAL:HG12	2.11	0.49
3:J:814:CYS:HB3	3:J:890:THR:OG1	2.12	0.49
3:J:842:ARG:CD	3:J:882:VAL:HG11	2.34	0.49
3:J:901:ARG:CA	3:J:908:ILE:HA	2.40	0.49
3:J:1219:ASP:O	3:J:1222:ARG:N	2.45	0.49
3:J:1319:PHE:HD1	3:J:1320:ILE:N	2.10	0.49
3:J:1333:THR:O	3:J:1337:VAL:HG13	2.12	0.49
4:K:6:VAL:HG23	4:K:10:VAL:CG2	2.42	0.49
1:A:107:ILE:HA	1:A:133:LEU:HB3	1.94	0.49
1:B:9:LEU:CD2	1:B:10:LYS:H	2.25	0.49
1:B:82:LEU:HA	1:B:85:LEU:HD11	1.94	0.49
2:C:606:LEU:HD12	2:C:606:LEU:N	2.27	0.49
2:C:646:SER:HB3	2:C:649:GLN:CG	2.19	0.49
2:C:928:VAL:HG12	2:C:929:ILE:N	2.26	0.49
2:C:1176:LEU:HD13	2:C:1180:MET:HG3	1.95	0.49
3:D:56:LEU:CD2	3:D:269:TYR:HB3	2.43	0.49
3:D:722:ILE:O	3:D:725:MET:HB2	2.11	0.49
4:E:15:ASN:C	4:E:17:PHE:N	2.62	0.49
5:F:448:ARG:HG2	5:F:448:ARG:HH11	1.77	0.49
5:F:562:ARG:C	5:F:563:PHE:HD1	2.20	0.49
1:H:55:ALA:HB1	1:H:176:CYS:SG	2.52	0.49
1:H:81:ILE:O	1:H:84:ASN:N	2.40	0.49
1:H:224:LEU:C	1:H:224:LEU:HD12	2.33	0.49
2:I:296:VAL:CG1	2:I:336:LEU:HD12	2.42	0.49
2:I:496:LYS:HD2	2:I:497:PRO:HG3	1.93	0.49
2:I:615:VAL:CG2	2:I:650:VAL:HG12	2.41	0.49
2:I:706:ARG:HH12	2:I:782:VAL:HG21	1.77	0.49
2:I:767:GLN:HA	2:I:785:ASP:O	2.12	0.49
2:I:1117:LEU:HD21	2:I:1182:ILE:HD12	1.93	0.49
3:J:147:ILE:O	3:J:177:ASP:HB3	2.13	0.49
3:J:198:CYS:O	3:J:201:LEU:N	2.45	0.49
3:J:1172:LYS:NZ	3:J:1191:PRO:HG3	2.28	0.49
5:L:343:LYS:CA	5:L:346:GLN:HB3	2.42	0.49
5:L:362:ASN:O	5:L:365:MET:HB3	2.12	0.49
5:L:565:ILE:O	5:L:566:ASP:HB2	2.13	0.49
5:L:573:LEU:H	5:L:573:LEU:CD2	2.24	0.49
1:A:12:ARG:H	1:A:30:PRO:CG	2.25	0.49
1:B:265:ARG:CG	1:B:266:SER:N	2.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:289:LEU:HD13	1:B:300:LEU:HD21	1.94	0.49
2:C:1291:LEU:HD12	2:C:1291:LEU:O	2.13	0.49
2:C:1293:VAL:HG13	2:C:1300:GLY:C	2.38	0.49
2:C:1309:VAL:HG12	3:D:379:PRO:HB3	1.94	0.49
2:C:1334:GLY:O	3:D:25:ALA:CB	2.60	0.49
3:D:279:LEU:HD12	3:D:295:GLU:HG2	1.95	0.49
3:D:490:ILE:O	3:D:490:ILE:HG12	2.11	0.49
3:D:776:THR:O	3:D:777:HIS:C	2.55	0.49
3:D:848:VAL:O	3:D:857:LEU:N	2.36	0.49
3:D:903:LEU:C	3:D:905:ARG:N	2.68	0.49
5:F:372:ALA:O	5:F:375:ALA:HB3	2.12	0.49
5:F:402:LEU:CA	5:F:405:ILE:HG23	2.43	0.49
1:G:48:LEU:O	1:G:180:VAL:HG21	2.12	0.49
1:H:9:LEU:CB	1:H:32:GLU:CG	2.90	0.49
1:H:47:LEU:HD22	1:H:180:VAL:CG1	2.42	0.49
2:I:160:ASP:H	2:I:161:LYS:NZ	2.11	0.49
2:I:728:ASP:HB3	2:I:731:ARG:H	1.77	0.49
2:I:849:GLU:C	2:I:851:THR:H	2.20	0.49
2:I:1041:ASP:C	2:I:1042:LEU:HD23	2.38	0.49
2:I:1105:SER:HB2	3:J:731:ARG:HG2	1.94	0.49
2:I:1223:ARG:NH1	2:I:1223:ARG:CB	2.72	0.49
3:J:159:ILE:C	3:J:160:LEU:HD23	2.37	0.49
3:J:509:GLY:HA3	3:J:628:GLY:O	2.12	0.49
3:J:794:GLY:O	3:J:798:ARG:HB2	2.12	0.49
3:J:848:VAL:O	3:J:857:LEU:N	2.43	0.49
3:J:1146:GLU:OE2	3:J:1309:ILE:HG13	2.12	0.49
3:J:1288:ALA:C	3:J:1290:ARG:H	2.20	0.49
5:L:137:TYR:CZ	5:L:139:GLU:HB2	2.48	0.49
5:L:343:LYS:O	5:L:346:GLN:HB3	2.11	0.49
5:L:521:ASP:C	5:L:522:PHE:HD1	2.19	0.49
1:A:102:LEU:O	1:A:141:SER:HA	2.12	0.49
2:C:1013:GLN:HA	2:C:1016:GLU:CD	2.37	0.49
2:C:1087:TYR:CE2	2:C:1213:TYR:HB2	2.47	0.49
3:D:79:LYS:O	3:D:81:ARG:N	2.46	0.49
3:D:1138:LEU:O	3:D:1141:VAL:HB	2.11	0.49
3:D:1141:VAL:O	3:D:1144:LEU:N	2.43	0.49
3:D:1249:ASN:OD1	3:D:1250:ASP:N	2.45	0.49
4:E:3:ARG:CZ	4:E:3:ARG:HA	2.42	0.49
5:F:134:VAL:C	5:F:136:GLU:N	2.68	0.49
5:F:428:SER:O	5:F:430:TYR:N	2.46	0.49
2:I:247:ARG:NH2	2:I:274:ILE:HD12	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:614:TYR:CD1	2:I:652:TYR:CE1	3.00	0.49
2:I:687:ARG:C	2:I:689:ALA:N	2.71	0.49
2:I:839:VAL:O	2:I:886:LYS:HE2	2.12	0.49
2:I:1170:MET:HA	2:I:1170:MET:CE	2.38	0.49
3:J:132:LEU:O	3:J:133:ARG:C	2.55	0.49
3:J:260:PHE:HB3	5:L:504:PRO:HG2	1.93	0.49
3:J:438:GLU:OE2	3:J:481:ARG:NH1	2.43	0.49
3:J:519:ASN:CG	3:J:709:ARG:HD3	2.37	0.49
3:J:592:VAL:O	3:J:592:VAL:HG23	2.11	0.49
3:J:819:GLY:CA	3:J:882:VAL:O	2.60	0.49
4:K:3:ARG:HH21	4:K:4:VAL:HG12	1.76	0.49
5:L:117:ILE:HG23	5:L:421:TYR:CG	2.48	0.49
5:L:286:LEU:O	5:L:290:LEU:HG	2.13	0.49
5:L:573:LEU:HD22	5:L:573:LEU:N	2.27	0.49
1:A:31:LEU:CD1	1:A:201:LEU:HB2	2.43	0.49
1:A:41:ASN:HD21	2:C:1216:ARG:C	2.18	0.49
1:A:90:VAL:HG22	1:A:91:ARG:H	1.77	0.49
1:A:155:ALA:HB2	1:A:174:ASP:OD1	2.13	0.49
1:A:231:PHE:CD2	1:B:43:LEU:CD2	2.96	0.49
2:C:16:GLY:HA2	2:C:1188:ASP:CG	2.37	0.49
2:C:484:LEU:O	2:C:486:THR:N	2.39	0.49
2:C:1143:GLU:O	2:C:1147:ARG:HG2	2.13	0.49
3:D:49:PHE:HE1	5:F:500:ILE:HD11	1.78	0.49
3:D:262:THR:OG1	3:D:266:ASN:ND2	2.46	0.49
3:D:678:ARG:O	3:D:682:VAL:HG23	2.12	0.49
3:D:755:ILE:CD1	3:D:774:ILE:HG21	2.43	0.49
3:D:1158:GLU:HB3	3:D:1186:TYR:CE1	2.48	0.49
5:F:234:THR:O	5:F:245:ALA:HB1	2.13	0.49
1:G:171:LEU:HD13	1:G:171:LEU:N	2.28	0.49
1:H:108:GLY:O	1:H:133:LEU:HB2	2.13	0.49
2:I:560:PRO:O	3:J:776:THR:HG21	2.12	0.49
2:I:700:VAL:HG21	2:I:1114:GLU:CG	2.42	0.49
2:I:1075:VAL:HG22	3:J:463:GLY:HA2	1.92	0.49
2:I:1161:LEU:HD12	2:I:1163:THR:OG1	2.12	0.49
2:I:1176:LEU:O	2:I:1179:GLY:N	2.33	0.49
2:I:1210:ILE:HG22	2:I:1211:ARG:O	2.12	0.49
2:I:1279:GLU:O	3:J:914:ALA:HB3	2.11	0.49
3:J:335:GLN:O	3:J:1328:THR:OG1	2.31	0.49
3:J:718:SER:OG	3:J:719:PHE:N	2.46	0.49
3:J:1263:LYS:CE	3:J:1279:GLN:HE22	2.24	0.49
4:K:59:ILE:HG23	4:K:64:LEU:HD21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:79:LEU:HD13	1:A:79:LEU:C	2.37	0.49
1:B:62:ASP:CG	1:B:140:ILE:HD13	2.37	0.49
1:B:99:ILE:HD12	1:B:145:LYS:HB2	1.94	0.49
1:B:104:LYS:HE2	1:B:110:VAL:HG22	1.94	0.49
1:B:268:ASN:HA	1:B:271:LYS:CB	2.43	0.49
2:C:35:PHE:O	2:C:37:LYS:N	2.45	0.49
2:C:521:LEU:HD12	2:C:687:ARG:HB3	1.94	0.49
2:C:903:ARG:HD2	2:C:908:GLU:O	2.12	0.49
2:C:1066:MET:HG2	2:C:1233:LEU:O	2.13	0.49
3:D:221:ILE:HG23	3:D:222:LYS:N	2.27	0.49
3:D:337:ARG:NH2	3:D:1330:ARG:HH12	2.11	0.49
3:D:785:ASP:O	3:D:788:LEU:N	2.45	0.49
3:D:802:ASP:CG	3:D:1325:PHE:CD2	2.90	0.49
4:E:25:ARG:NH1	4:E:64:LEU:HB2	2.27	0.49
5:F:130:VAL:HG22	5:F:365:MET:CA	2.36	0.49
5:F:324:LYS:HB3	5:F:325:PRO:HD2	1.94	0.49
5:F:485:GLU:C	5:F:487:MET:N	2.67	0.49
1:G:23:HIS:HB2	1:G:206:GLU:HA	1.95	0.49
1:G:110:VAL:HG13	1:G:114:ASP:OD2	2.12	0.49
1:H:76:GLU:HB2	1:H:81:ILE:HG12	1.95	0.49
1:H:195:ARG:HB3	1:H:198:LEU:HD21	1.94	0.49
2:I:130:MET:CG	2:I:134:GLY:HA2	2.43	0.49
2:I:558:VAL:CG1	2:I:559:CYS:N	2.75	0.49
2:I:702:THR:O	2:I:1185:PRO:HA	2.12	0.49
2:I:806:PRO:HD3	2:I:1100:PRO:CD	2.43	0.49
2:I:865:LEU:HD22	2:I:869:GLY:C	2.37	0.49
2:I:865:LEU:CD2	2:I:870:ILE:C	2.85	0.49
2:I:882:ILE:CD1	2:I:919:ARG:HH12	2.25	0.49
2:I:893:THR:O	2:I:894:GLN:HB3	2.12	0.49
2:I:901:LEU:O	2:I:901:LEU:HD12	2.13	0.49
2:I:921:PRO:HB2	2:I:924:VAL:CG2	2.39	0.49
2:I:1283:ALA:O	2:I:1285:TYR:N	2.46	0.49
3:J:185:ILE:O	3:J:189:LEU:HG	2.13	0.49
3:J:265:LEU:CD1	3:J:327:LEU:HD21	2.37	0.49
3:J:611:ILE:HB	3:J:612:LEU:CD1	2.41	0.49
3:J:1145:PHE:HB3	3:J:1309:ILE:CD1	2.42	0.49
4:K:10:VAL:O	4:K:14:GLY:HA2	2.12	0.49
1:A:134:THR:HG23	2:C:726:TYR:HE1	1.76	0.49
1:B:59:VAL:HG11	1:B:144:ILE:HD12	1.95	0.49
1:B:289:LEU:O	1:B:295:LEU:HD13	2.13	0.49
2:C:102:LEU:HD12	2:C:103:VAL:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:149:LEU:HD12	2:C:452:ARG:O	2.13	0.49
2:C:728:ASP:C	2:C:730:SER:N	2.69	0.49
2:C:881:ASP:OD1	2:C:881:ASP:N	2.45	0.49
2:C:1113:LEU:CD1	3:D:641:ILE:CG1	2.91	0.49
2:C:1146:GLN:O	2:C:1150:ASP:OD2	2.30	0.49
3:D:544:LEU:HD13	3:D:575:GLY:HA2	1.94	0.49
3:D:849:LEU:H	3:D:849:LEU:CD2	2.15	0.49
3:D:1164:SER:O	3:D:1175:LEU:HD12	2.13	0.49
3:D:1176:VAL:HG22	3:D:1187:GLU:CB	2.41	0.49
5:F:290:LEU:C	5:F:294:GLN:HB3	2.38	0.49
1:G:112:ALA:O	1:G:115:ILE:HG13	2.13	0.49
2:I:74:ARG:NH1	2:I:97:ARG:HG3	2.28	0.49
2:I:176:ILE:HB	2:I:184:LEU:CB	2.28	0.49
2:I:346:TYR:CE2	2:I:436:ARG:HG3	2.48	0.49
2:I:481:LEU:HD13	2:I:481:LEU:N	2.28	0.49
2:I:680:LEU:HD23	2:I:681:MET:N	2.27	0.49
2:I:1142:ARG:HH12	2:I:1169:VAL:HG21	1.71	0.49
3:J:146:VAL:HG11	3:J:149:GLY:HA3	1.93	0.49
3:J:223:LEU:O	3:J:226:ALA:HB3	2.13	0.49
3:J:502:PRO:CA	3:J:506:VAL:HG11	2.42	0.49
3:J:754:ILE:HG13	3:J:755:ILE:N	2.28	0.49
5:L:411:GLY:C	5:L:435:ILE:HG12	2.38	0.49
5:L:494:ILE:HG22	5:L:498:LEU:CD2	2.43	0.49
1:B:6:THR:OG1	1:B:7:GLU:N	2.46	0.49
2:C:14:ASP:N	2:C:1157:GLN:OE1	2.45	0.49
2:C:302:ILE:C	2:C:310:ILE:HG13	2.38	0.49
2:C:592:ARG:C	2:C:652:TYR:HD2	2.21	0.49
2:C:732:ILE:HD13	2:C:783:LEU:HD12	1.94	0.49
2:C:871:VAL:CG2	2:C:872:TYR:N	2.75	0.49
2:C:1111:GLN:HB2	2:C:1230:MET:HE1	1.93	0.49
3:D:201:LEU:HD11	3:D:220:ARG:HH11	1.76	0.49
3:D:869:CYS:O	3:D:872:LEU:N	2.46	0.49
1:H:39:LEU:O	1:H:40:GLY:C	2.56	0.49
2:I:325:LEU:C	2:I:328:SER:H	2.21	0.49
2:I:699:LEU:HD11	2:I:1179:GLY:HA3	1.94	0.49
2:I:700:VAL:HG13	2:I:1117:LEU:HD22	1.95	0.49
2:I:972:PHE:HD1	2:I:994:ARG:HH21	1.60	0.49
3:J:354:VAL:HA	3:J:465:GLN:HG2	1.95	0.49
3:J:803:VAL:HG11	3:J:1309:ILE:HG22	1.93	0.49
3:J:1170:LYS:O	3:J:1170:LYS:HE2	2.13	0.49
3:J:1289:ASN:ND2	3:J:1290:ARG:HH12	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K:7:GLN:O	4:K:7:GLN:NE2	2.43	0.49
5:L:355:ILE:CA	5:L:358:VAL:HG22	2.42	0.49
5:L:494:ILE:O	5:L:497:VAL:HB	2.12	0.49
5:L:552:THR:C	5:L:554:ARG:N	2.69	0.49
5:L:557:LYS:O	5:L:561:MET:HE3	2.12	0.49
1:B:192:VAL:O	1:B:193:GLU:C	2.51	0.49
1:B:262:LEU:HD13	1:B:263:THR:O	2.13	0.49
2:C:563:THR:OG1	2:C:564:PRO:HD2	2.13	0.49
2:C:1251:TYR:CE1	2:C:1301:ARG:CZ	2.95	0.49
2:C:1275:VAL:O	2:C:1278:LEU:N	2.44	0.49
3:D:58:CYS:SG	3:D:59:ALA:N	2.86	0.49
3:D:1193:TRP:C	3:D:1194:ARG:HD2	2.37	0.49
5:F:138:PRO:CD	5:F:353:LEU:HD11	2.43	0.49
5:F:311:THR:HG21	5:F:348:GLU:OE2	2.12	0.49
5:F:316:PHE:CE1	5:F:337:VAL:HG21	2.48	0.49
1:G:124:VAL:CG1	1:G:125:LYS:HG2	2.42	0.49
1:G:166:ARG:O	1:G:167:PRO:C	2.56	0.49
2:I:599:VAL:CG2	2:I:629:PHE:CE1	2.95	0.49
2:I:763:THR:OG1	2:I:764:CYS:N	2.41	0.49
2:I:1088:ASP:OD1	2:I:1090:ASN:N	2.46	0.49
3:J:22:ILE:HG12	3:J:23:ALA:H	1.78	0.49
3:J:220:ARG:HG2	3:J:224:LEU:HD12	1.94	0.49
3:J:362:ARG:H	3:J:365:GLN:NE2	2.10	0.49
3:J:403:ARG:NH1	3:J:403:ARG:CG	2.74	0.49
3:J:525:MET:C	3:J:548:VAL:HG13	2.38	0.49
3:J:813:ASP:HB2	3:J:897:HIS:ND1	2.28	0.49
5:L:414:LYS:NZ	5:L:434:TRP:HZ3	2.11	0.49
1:B:296:GLY:O	1:B:300:LEU:HB2	2.13	0.48
2:C:221:LEU:HD23	2:C:351:LEU:CD1	2.43	0.48
2:C:344:GLY:CA	2:C:346:TYR:CE2	2.89	0.48
2:C:882:ILE:HD12	2:C:882:ILE:N	2.11	0.48
3:D:72:CYS:SG	3:D:73:GLY:N	2.85	0.48
3:D:290:ILE:HG23	5:F:104:GLU:OE2	2.13	0.48
3:D:778:GLY:O	3:D:781:LYS:N	2.46	0.48
3:D:1161:GLY:O	3:D:1177:ILE:HG22	2.13	0.48
4:E:8:ASP:O	4:E:11:GLU:HB2	2.13	0.48
5:F:137:TYR:O	5:F:141:ILE:HD13	2.13	0.48
5:F:142:THR:O	5:F:146:GLU:HG3	2.13	0.48
5:F:219:GLU:O	5:F:222:ALA:HB3	2.13	0.48
5:F:524:GLU:HG3	5:F:525:ASP:O	2.13	0.48
5:F:600:HIS:N	5:F:601:PRO:HD3	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:224:LEU:HD22	1:H:228:LEU:CD1	2.43	0.48
2:I:57:PHE:CD1	2:I:70:TYR:CB	2.96	0.48
2:I:487:LEU:HD23	2:I:487:LEU:C	2.37	0.48
2:I:550:VAL:HA	2:I:554:HIS:CD2	2.48	0.48
2:I:756:TYR:H	2:I:756:TYR:HD1	1.57	0.48
2:I:770:CYS:SG	2:I:784:ALA:HA	2.53	0.48
2:I:800:MET:HG3	2:I:1096:ILE:CD1	2.42	0.48
2:I:816:ILE:HG22	2:I:817:LEU:N	2.28	0.48
2:I:953:LEU:CA	2:I:1036:ILE:HD13	2.43	0.48
2:I:1222:GLU:OE1	3:J:635:SER:HA	2.13	0.48
3:J:490:ILE:H	3:J:904:ALA:HB1	1.78	0.48
3:J:797:THR:O	3:J:800:LEU:N	2.46	0.48
3:J:1146:GLU:O	3:J:1147:ALA:HB3	2.13	0.48
4:K:78:ALA:O	4:K:80:LEU:HD13	2.13	0.48
5:L:379:MET:HG3	5:L:380:VAL:N	2.28	0.48
1:A:36:GLY:HA3	1:A:187:VAL:CG1	2.42	0.48
1:B:75:GLN:HE22	1:B:132:HIS:HB2	1.79	0.48
1:B:197:ASP:OD1	1:B:197:ASP:N	2.43	0.48
2:C:367:TYR:HD1	2:C:381:ALA:CA	2.22	0.48
2:C:648:ASP:O	2:C:649:GLN:HG2	2.14	0.48
2:C:800:MET:CE	2:C:822:VAL:HG21	2.43	0.48
2:C:1136:GLN:O	2:C:1140:LYS:CG	2.54	0.48
3:D:72:CYS:HB3	3:D:88:CYS:SG	2.53	0.48
3:D:128:LEU:C	3:D:130:MET:N	2.70	0.48
3:D:421:VAL:HG23	3:D:422:LEU:N	2.27	0.48
3:D:518:VAL:HG13	3:D:519:ASN:N	2.28	0.48
3:D:1340:LYS:CG	3:D:1341:ARG:H	2.26	0.48
5:F:108:VAL:HA	5:F:385:ARG:NH2	2.27	0.48
5:F:395:THR:O	5:F:396:ASN:C	2.57	0.48
1:G:228:LEU:C	1:G:230:ALA:N	2.71	0.48
1:H:115:ILE:CG2	1:H:116:THR:H	2.23	0.48
2:I:74:ARG:NH1	2:I:97:ARG:CB	2.70	0.48
2:I:92:TYR:CD2	2:I:129:LEU:HB2	2.47	0.48
2:I:310:ILE:CG2	2:I:325:LEU:HD23	2.42	0.48
2:I:794:LEU:HG	2:I:796:LEU:CD1	2.42	0.48
2:I:852:ALA:HB2	2:I:869:GLY:HA2	1.94	0.48
2:I:870:ILE:HG22	2:I:944:ARG:HD3	1.94	0.48
2:I:934:PHE:N	2:I:934:PHE:CD2	2.80	0.48
2:I:1070:HIS:HD2	2:I:1111:GLN:HB3	1.78	0.48
2:I:1126:ASP:HA	2:I:1129:ASN:HB3	1.94	0.48
2:I:1130:ALA:O	2:I:1133:LYS:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:97:VAL:CG1	3:J:101:ARG:CZ	2.89	0.48
3:J:422:LEU:HB2	3:J:469:HIS:HB2	1.96	0.48
3:J:506:VAL:HG13	3:J:507:VAL:H	1.78	0.48
3:J:624:ILE:HA	3:J:627:THR:CG2	2.43	0.48
3:J:773:PHE:O	3:J:776:THR:HB	2.13	0.48
3:J:843:VAL:HG13	3:J:883:ARG:HD3	1.93	0.48
3:J:1249:ASN:HD21	3:J:1251:LYS:NZ	2.12	0.48
4:K:36:ASP:OD1	4:K:36:ASP:N	2.43	0.48
5:L:270:VAL:HG12	5:L:274:ARG:NH2	2.27	0.48
5:L:288:MET:HA	5:L:302:PHE:CZ	2.48	0.48
5:L:388:ILE:O	5:L:392:LYS:N	2.38	0.48
5:L:555:GLU:O	5:L:558:VAL:HB	2.13	0.48
5:L:584:ARG:O	5:L:587:ILE:N	2.44	0.48
1:A:233:ASP:C	1:A:234:LEU:HG	2.37	0.48
1:B:135:ASP:O	1:B:136:GLU:HB3	2.13	0.48
2:C:194:LEU:HD12	2:C:195:PHE:H	1.78	0.48
2:C:271:ALA:O	2:C:275:ARG:N	2.32	0.48
2:C:490:GLN:O	2:C:492:MET:N	2.46	0.48
2:C:1013:GLN:O	2:C:1016:GLU:HB2	2.13	0.48
2:C:1073:LYS:CB	3:D:462:ASP:HB2	2.43	0.48
2:C:1281:TYR:HD2	2:C:1281:TYR:N	2.12	0.48
3:D:49:PHE:CE1	5:F:500:ILE:HD11	2.48	0.48
3:D:882:VAL:CG1	3:D:883:ARG:N	2.75	0.48
5:F:555:GLU:O	5:F:558:VAL:HB	2.13	0.48
1:G:50:SER:OG	1:H:35:PHE:CZ	2.66	0.48
1:G:61:ILE:HG22	1:G:62:ASP:N	2.27	0.48
1:G:156:SER:HB2	2:I:1059:ARG:HH22	1.78	0.48
1:H:98:VAL:HG13	1:H:100:LEU:CD1	2.42	0.48
2:I:194:LEU:C	2:I:195:PHE:CD2	2.92	0.48
2:I:241:LEU:HB3	2:I:283:LYS:O	2.13	0.48
2:I:670:PHE:H	2:I:1184:THR:HG21	1.77	0.48
2:I:818:VAL:HG22	2:I:1095:ASP:O	2.13	0.48
2:I:1163:THR:O	2:I:1165:SER:N	2.46	0.48
2:I:1293:VAL:HG13	2:I:1300:GLY:C	2.38	0.48
3:J:148:GLU:C	3:J:150:GLY:N	2.71	0.48
3:J:242:LEU:HD23	3:J:243:PRO:N	2.28	0.48
3:J:418:GLU:HB3	4:K:48:VAL:CG2	2.39	0.48
3:J:818:GLU:HG2	3:J:887:SER:HB2	1.94	0.48
3:J:1155:ILE:HD12	3:J:1155:ILE:H	1.78	0.48
3:J:1226:VAL:HA	3:J:1229:VAL:HG12	1.93	0.48
3:J:1292:LEU:O	3:J:1293:GLU:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:227:GLN:HB2	5:L:255:VAL:HG21	1.96	0.48
5:L:441:ARG:HD2	5:L:441:ARG:O	2.13	0.48
1:A:102:LEU:HB3	1:A:142:MET:CG	2.44	0.48
1:B:63:GLY:CA	1:B:71:LYS:HE3	2.41	0.48
2:C:359:ARG:NH1	2:C:378:ARG:HH22	2.12	0.48
2:C:478:ARG:C	2:C:480:SER:N	2.70	0.48
2:C:810:TYR:HD2	3:D:359:PRO:HD2	1.72	0.48
2:C:1212:LEU:C	2:C:1221:PHE:HD2	2.21	0.48
2:C:1315:MET:HE1	2:C:1317:PRO:HB3	1.96	0.48
3:D:45:ASN:N	3:D:50:LYS:O	2.46	0.48
3:D:257:GLY:O	3:D:259:ARG:N	2.46	0.48
3:D:378:LYS:CB	3:D:379:PRO:HD3	2.42	0.48
3:D:580:TRP:O	3:D:583:VAL:HG23	2.12	0.48
3:D:655:SER:HA	3:D:658:GLU:HB3	1.94	0.48
3:D:800:LEU:N	3:D:800:LEU:HD12	2.28	0.48
3:D:847:ASP:HA	3:D:858:VAL:O	2.13	0.48
3:D:883:ARG:HB3	3:D:898:CYS:HA	1.96	0.48
3:D:1262:ARG:NH2	3:D:1312:ALA:HB1	2.24	0.48
4:E:45:LYS:O	4:E:49:ILE:HG13	2.12	0.48
1:G:153:VAL:N	1:G:175:ALA:O	2.36	0.48
2:I:82:VAL:CG2	2:I:92:TYR:CE1	2.96	0.48
2:I:123:TYR:OH	2:I:126:GLU:HG3	2.13	0.48
2:I:337:PHE:C	2:I:337:PHE:HD1	2.21	0.48
2:I:338:THR:CG2	2:I:345:PRO:CB	2.79	0.48
2:I:624:ASP:C	2:I:625:GLU:HG2	2.38	0.48
2:I:633:LEU:HD23	2:I:633:LEU:H	1.76	0.48
2:I:669:PRO:HA	2:I:702:THR:HG22	1.96	0.48
2:I:996:ARG:HD3	2:I:999:GLU:OE2	2.14	0.48
2:I:1010:GLN:O	2:I:1013:GLN:HB2	2.12	0.48
2:I:1122:LYS:CB	2:I:1229:TYR:CE1	2.96	0.48
3:J:363:LEU:C	3:J:365:GLN:H	2.21	0.48
3:J:491:LEU:CB	3:J:904:ALA:HA	2.37	0.48
3:J:739:GLN:OE1	3:J:744:ARG:HD2	2.13	0.48
3:J:903:LEU:HB3	3:J:905:ARG:CG	2.44	0.48
3:J:1172:LYS:CB	3:J:1189:MET:HB3	2.44	0.48
3:J:1219:ASP:O	3:J:1223:LEU:N	2.39	0.48
5:L:389:SER:O	5:L:392:LYS:HB3	2.13	0.48
1:A:16:ILE:HG23	1:A:26:VAL:HG12	1.95	0.48
1:A:29:GLU:N	1:A:30:PRO:HD3	2.28	0.48
1:A:152:TYR:HD1	2:C:824:GLN:HG2	1.74	0.48
1:B:82:LEU:HD23	1:B:85:LEU:CD1	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:39:ILE:CD1	2:C:75:LEU:HG	2.43	0.48
2:C:101:ARG:CZ	2:C:118:LYS:HD2	2.43	0.48
2:C:118:LYS:O	2:C:119:GLU:C	2.54	0.48
2:C:211:ARG:HD2	2:C:356:THR:OG1	2.13	0.48
2:C:516:ASP:CA	2:C:761:GLN:HE22	2.20	0.48
2:C:535:PRO:C	2:C:537:GLY:H	2.20	0.48
2:C:549:ASP:OD2	3:D:777:HIS:ND1	2.46	0.48
2:C:805:MET:HE3	3:D:636:GLY:HA2	1.95	0.48
2:C:1138:VAL:O	2:C:1142:ARG:N	2.21	0.48
2:C:1305:TYR:CE1	3:D:379:PRO:HG2	2.41	0.48
2:C:1339:LEU:HD12	2:C:1339:LEU:N	2.28	0.48
3:D:336:GLY:HA2	3:D:338:PHE:CA	2.42	0.48
3:D:597:GLY:HA3	3:D:599:LYS:HG3	1.95	0.48
3:D:833:GLU:OE2	3:D:834:PRO:HD2	2.14	0.48
4:E:9:ALA:HB2	4:E:55:GLU:HG2	1.96	0.48
5:F:105:MET:HE2	5:F:105:MET:HB3	1.43	0.48
1:G:100:LEU:HD23	1:G:115:ILE:CG2	2.34	0.48
2:I:179:TYR:OH	2:I:458:GLU:OE2	2.17	0.48
2:I:222:ASP:HA	2:I:227:LYS:HZ3	1.79	0.48
2:I:390:PHE:O	2:I:419:ILE:HD12	2.13	0.48
2:I:660:VAL:HG11	3:J:769:VAL:HG13	1.95	0.48
2:I:667:LEU:CD2	2:I:704:MET:HB2	2.40	0.48
2:I:840:SER:HA	2:I:886:LYS:HD2	1.95	0.48
2:I:1108:ASN:O	2:I:1110:GLY:N	2.47	0.48
2:I:1120:ALA:HB2	2:I:1199:LEU:HG	1.95	0.48
3:J:288:PRO:O	3:J:291:ILE:N	2.43	0.48
3:J:492:SER:HB2	3:J:499:ILE:CD1	2.42	0.48
3:J:518:VAL:HG13	3:J:519:ASN:HB3	1.96	0.48
3:J:568:SER:OG	3:J:570:LYS:HG2	2.14	0.48
3:J:1172:LYS:HZ1	3:J:1191:PRO:HG3	1.77	0.48
5:L:121:LYS:HA	5:L:421:TYR:CE2	2.48	0.48
5:L:433:TRP:NE1	5:L:437:GLN:HB2	2.28	0.48
1:A:11:PRO:HA	1:A:30:PRO:CG	2.44	0.48
1:B:211:ILE:HG23	1:B:211:ILE:O	2.13	0.48
1:B:302:GLU:O	1:B:305:ASP:HB2	2.13	0.48
2:C:18:ARG:O	2:C:1156:ARG:HD2	2.13	0.48
2:C:93:SER:HA	2:C:128:PRO:HA	1.95	0.48
2:C:169:LYS:C	2:C:170:VAL:HG13	2.38	0.48
2:C:192:ASP:HB3	2:C:346:TYR:HD1	1.79	0.48
2:C:593:LYS:HE3	2:C:595:THR:HG22	1.96	0.48
2:C:594:VAL:HG12	2:C:596:ASP:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:728:ASP:C	2:C:730:SER:H	2.21	0.48
2:C:1253:LEU:HD23	2:C:1253:LEU:O	2.14	0.48
3:D:292:VAL:O	3:D:296:LYS:HG3	2.11	0.48
3:D:344:GLY:HA2	8:D:2004:4C4:H22	1.96	0.48
3:D:363:LEU:CA	3:D:450:HIS:CD2	2.93	0.48
3:D:914:ALA:O	3:D:916:GLY:N	2.46	0.48
3:D:1307:LEU:HD12	3:D:1308:GLY:H	1.78	0.48
3:D:1337:VAL:HG23	3:D:1338:ALA:N	2.27	0.48
3:D:1344:LEU:O	3:D:1345:ARG:HB2	2.14	0.48
5:F:279:ARG:CA	5:F:282:THR:HB	2.43	0.48
1:H:182:ARG:HH12	3:J:581:MET:HE1	1.77	0.48
2:I:10:ARG:HD3	2:I:1181:PRO:CG	2.40	0.48
2:I:78:PRO:HB3	2:I:93:SER:O	2.13	0.48
2:I:587:LEU:HA	2:I:587:LEU:HD23	1.47	0.48
2:I:782:VAL:HG11	2:I:792:GLY:HA2	1.96	0.48
2:I:822:VAL:HG12	2:I:823:VAL:N	2.29	0.48
2:I:1134:GLN:HG2	2:I:1136:GLN:HG2	1.96	0.48
3:J:99:ARG:HG3	3:J:249:LEU:HD21	1.95	0.48
3:J:334:LYS:O	3:J:1328:THR:OG1	2.30	0.48
3:J:367:GLY:O	3:J:448:GLN:N	2.31	0.48
3:J:514:THR:HB	3:J:596:LEU:HD23	1.95	0.48
3:J:653:ILE:HD13	3:J:692:ARG:HB3	1.96	0.48
3:J:1162:ILE:CG1	3:J:1163:VAL:N	2.77	0.48
3:J:1238:GLN:CB	3:J:1242:ARG:HH21	2.27	0.48
3:J:1251:LYS:HG3	3:J:1251:LYS:HZ3	1.53	0.48
3:J:1346:GLY:HA3	3:J:1349:GLU:CB	2.44	0.48
3:J:1352:ILE:CD1	3:J:1352:ILE:H	2.26	0.48
5:L:101:TYR:CZ	5:L:405:ILE:HD11	2.48	0.48
1:A:36:GLY:HA2	1:A:201:LEU:HD22	1.95	0.48
1:A:41:ASN:C	1:A:43:LEU:N	2.70	0.48
1:B:89:ALA:CB	1:B:124:VAL:HB	2.37	0.48
2:C:74:ARG:NH1	2:C:121:GLU:OE2	2.47	0.48
2:C:521:LEU:HD13	2:C:521:LEU:C	2.38	0.48
2:C:1021:LEU:N	2:C:1021:LEU:HD23	2.24	0.48
2:C:1256:GLN:HE22	5:F:528:LEU:HD23	1.78	0.48
2:C:1328:LYS:O	2:C:1332:SER:HB3	2.14	0.48
3:D:194:LEU:O	3:D:197:GLU:N	2.46	0.48
3:D:227:PHE:CE2	3:D:234:PRO:HG3	2.49	0.48
3:D:291:ILE:O	3:D:294:ASN:N	2.46	0.48
4:E:74:GLU:O	4:E:77:ALA:HB3	2.14	0.48
5:F:309:ASN:HA	5:F:356:GLU:OE2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:211:ILE:HD13	1:G:212:ASP:N	2.28	0.48
1:H:101:THR:H	1:H:116:THR:CG2	2.26	0.48
2:I:27:LEU:HA	2:I:528:ARG:NH1	2.28	0.48
2:I:250:THR:HA	2:I:268:ARG:HA	1.96	0.48
2:I:288:PRO:C	2:I:290:GLU:H	2.22	0.48
2:I:1087:TYR:N	2:I:1087:TYR:CD1	2.82	0.48
3:J:113:HIS:ND1	3:J:115:TRP:HB2	2.26	0.48
3:J:361:LEU:O	3:J:626:TYR:OH	2.28	0.48
3:J:398:LYS:HG2	3:J:402:GLU:OE2	2.14	0.48
3:J:870:ASP:O	3:J:873:GLU:HB3	2.14	0.48
3:J:1241:TYR:CD2	3:J:1246:VAL:CG1	2.97	0.48
3:J:1269:ALA:CB	3:J:1274:PHE:CE1	2.97	0.48
5:L:227:GLN:CG	5:L:255:VAL:HG21	2.43	0.48
1:A:33:ARG:O	1:A:35:PHE:N	2.46	0.48
1:B:37:HIS:CE1	2:C:1216:ARG:HD2	2.49	0.48
2:C:102:LEU:HD11	2:C:104:ILE:HD11	1.94	0.48
2:C:143:ARG:HH21	2:C:513:GLN:N	2.12	0.48
2:C:209:ILE:O	2:C:213:LEU:HD23	2.14	0.48
2:C:260:LYS:HE3	2:C:262:TYR:CE1	2.48	0.48
2:C:582:ASN:HB3	2:C:586:PHE:N	2.29	0.48
2:C:593:LYS:CG	2:C:595:THR:HG23	2.43	0.48
2:C:644:LEU:C	2:C:645:PHE:HD1	2.22	0.48
2:C:755:LYS:HD3	2:C:766:ASN:OD1	2.14	0.48
2:C:873:ILE:HG13	2:C:944:ARG:HH22	1.79	0.48
2:C:1082:ILE:HD12	2:C:1082:ILE:N	2.28	0.48
3:D:317:THR:HA	3:D:324:LEU:HD21	1.96	0.48
3:D:318:GLY:O	3:D:319:SER:HB3	2.13	0.48
3:D:478:LEU:O	3:D:481:ARG:N	2.45	0.48
3:D:602:SER:O	3:D:605:LEU:HB2	2.13	0.48
3:D:865:HIS:CE1	3:D:868:TRP:CD1	3.01	0.48
3:D:1347:LEU:HD12	3:D:1347:LEU:N	2.29	0.48
5:F:141:ILE:HD12	5:F:141:ILE:N	2.28	0.48
5:F:278:ASP:O	5:F:282:THR:N	2.45	0.48
5:F:440:THR:HG23	5:F:441:ARG:H	1.76	0.48
5:F:509:THR:HG23	5:F:510:PRO:O	2.13	0.48
2:I:46:GLN:O	2:I:51:ALA:HB2	2.14	0.48
2:I:277:LEU:CD2	2:I:282:VAL:HB	2.43	0.48
2:I:302:ILE:HG22	2:I:309:LEU:HA	1.95	0.48
2:I:484:LEU:HB2	2:I:485:ASP:H	1.49	0.48
2:I:553:THR:O	2:I:557:ARG:HD2	2.13	0.48
2:I:953:LEU:C	2:I:953:LEU:HD12	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1174:GLU:O	2:I:1177:ARG:HG2	2.14	0.48
2:I:1313:HIS:ND1	2:I:1313:HIS:N	2.62	0.48
3:J:416:ILE:CG1	3:J:441:LEU:HD21	2.44	0.48
3:J:463:GLY:O	3:J:465:GLN:HG3	2.14	0.48
3:J:812:ASP:HB2	3:J:911:LYS:CE	2.42	0.48
3:J:1155:ILE:C	3:J:1210:ILE:HG12	2.39	0.48
1:A:31:LEU:HD12	1:A:199:ASP:O	2.13	0.48
1:A:45:ARG:HH22	2:C:1216:ARG:HG2	1.78	0.48
1:B:41:ASN:O	1:B:44:ARG:HB2	2.13	0.48
2:C:29:SER:HB2	2:C:30:ILE:HD12	1.95	0.48
2:C:39:ILE:O	2:C:40:GLU:CB	2.62	0.48
2:C:460:ALA:O	2:C:461:GLU:C	2.56	0.48
2:C:465:ARG:O	2:C:468:LEU:HB2	2.13	0.48
2:C:719:LYS:HE3	2:C:751:TYR:CE1	2.48	0.48
3:D:403:ARG:HH11	3:D:403:ARG:HG3	1.77	0.48
3:D:422:LEU:HD13	3:D:471:PRO:HG3	1.96	0.48
3:D:429:LEU:HA	3:D:429:LEU:HD13	1.46	0.48
3:D:517:CYS:SG	3:D:518:VAL:N	2.86	0.48
3:D:1144:LEU:HD12	3:D:1237:VAL:HA	1.96	0.48
3:D:1251:LYS:HZ3	3:D:1251:LYS:HG3	1.36	0.48
3:D:1328:THR:O	3:D:1329:THR:C	2.57	0.48
5:F:121:LYS:HE2	5:F:421:TYR:OH	2.14	0.48
5:F:387:VAL:HG21	5:F:409:ASN:OD1	2.13	0.48
5:F:433:TRP:HZ3	5:F:434:TRP:CE2	2.32	0.48
5:F:530:LEU:O	5:F:534:SER:N	2.47	0.48
5:F:572:THR:C	5:F:574:GLU:N	2.72	0.48
5:F:584:ARG:O	5:F:587:ILE:N	2.46	0.48
1:G:18:GLN:HA	1:G:24:ALA:HB1	1.95	0.48
1:H:76:GLU:HG3	1:H:80:GLU:CD	2.39	0.48
2:I:144:VAL:CG1	2:I:145:ILE:N	2.77	0.48
2:I:325:LEU:O	2:I:328:SER:N	2.47	0.48
2:I:387:ASN:O	2:I:394:ARG:HG3	2.14	0.48
2:I:405:PHE:CE2	2:I:409:LEU:CD1	2.97	0.48
2:I:908:GLU:CD	5:L:608:ARG:HD2	2.39	0.48
2:I:1125:GLY:O	2:I:1128:ILE:N	2.47	0.48
2:I:1156:ARG:HH11	2:I:1156:ARG:HG3	1.79	0.48
2:I:1260:GLY:CA	2:I:1265:PHE:HA	2.36	0.48
3:J:375:GLU:OE2	3:J:378:LYS:HD2	2.14	0.48
3:J:382:TYR:CB	3:J:394:ILE:HD13	2.43	0.48
3:J:1290:ARG:CZ	3:J:1290:ARG:HB2	2.41	0.48
4:K:23:ALA:HB2	4:K:54:ILE:HG13	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:231:THR:HB	5:L:252:LEU:HD22	1.96	0.48
1:A:40:GLY:C	1:A:185:TYR:CE1	2.92	0.48
1:B:103:ASN:HA	1:B:141:SER:CB	2.34	0.48
1:B:301:THR:C	1:B:303:ILE:N	2.69	0.48
2:C:159:SER:O	2:C:160:ASP:CB	2.61	0.48
2:C:230:PHE:CE1	2:C:239:MET:HB2	2.48	0.48
2:C:390:PHE:CA	2:C:419:ILE:HG21	2.43	0.48
2:C:761:GLN:C	2:C:763:THR:H	2.22	0.48
2:C:895:LEU:C	2:C:895:LEU:HD12	2.39	0.48
2:C:1027:LYS:HG3	2:C:1028:LYS:N	2.29	0.48
2:C:1030:GLU:OE1	2:C:1033:ARG:NH2	2.47	0.48
2:C:1337:ILE:HA	3:D:21:LYS:O	2.14	0.48
3:D:16:GLU:HA	3:D:16:GLU:OE2	2.14	0.48
3:D:227:PHE:HE1	3:D:232:ASN:O	1.97	0.48
3:D:318:GLY:O	3:D:320:ASN:N	2.36	0.48
3:D:686:TRP:HA	3:D:686:TRP:CE3	2.48	0.48
3:D:707:ILE:HD12	3:D:707:ILE:N	2.28	0.48
3:D:1330:ARG:O	3:D:1333:THR:N	2.47	0.48
5:F:274:ARG:HA	5:F:277:MET:CB	2.44	0.48
2:I:28:LEU:HD22	2:I:527:LYS:HD3	1.96	0.48
2:I:61:SER:HB3	2:I:66:SER:HB2	1.96	0.48
2:I:119:GLU:HG3	2:I:488:MET:HB3	1.96	0.48
2:I:174:ALA:CB	2:I:432:LEU:HD13	2.29	0.48
2:I:208:ILE:HD11	2:I:356:THR:CG2	2.43	0.48
2:I:210:LEU:HB3	2:I:220:ILE:HD11	1.95	0.48
2:I:211:ARG:NH2	2:I:351:LEU:CD2	2.77	0.48
2:I:701:GLY:C	2:I:1183:ALA:HA	2.39	0.48
2:I:1149:TYR:HE2	2:I:1180:MET:SD	2.36	0.48
2:I:1155:VAL:CG2	2:I:1157:GLN:H	2.21	0.48
2:I:1210:ILE:CG2	2:I:1211:ARG:N	2.76	0.48
3:J:71:LEU:HD22	3:J:71:LEU:C	2.38	0.48
3:J:227:PHE:CZ	3:J:232:ASN:HB2	2.49	0.48
3:J:261:ALA:CB	5:L:505:ILE:HG23	2.43	0.48
3:J:269:TYR:C	3:J:271:ARG:N	2.71	0.48
3:J:392:THR:HG21	5:L:606:VAL:CG2	2.43	0.48
3:J:518:VAL:HG13	3:J:519:ASN:N	2.27	0.48
3:J:536:LEU:HD13	3:J:541:LEU:CB	2.38	0.48
3:J:749:LYS:HB2	3:J:750:PRO:HD3	1.95	0.48
3:J:842:ARG:CZ	3:J:884:SER:HB2	2.44	0.48
3:J:876:SER:O	3:J:877:VAL:C	2.57	0.48
5:L:121:LYS:O	5:L:124:GLU:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:409:LEU:HD22	2:C:427:ASP:HB3	1.96	0.47
2:C:452:ARG:HG3	2:C:453:ILE:N	2.29	0.47
2:C:933:VAL:C	2:C:934:PHE:HD2	2.22	0.47
2:C:1021:LEU:O	2:C:1022:LYS:C	2.56	0.47
3:D:75:TYR:CD1	3:D:75:TYR:N	2.82	0.47
3:D:337:ARG:HA	3:D:338:PHE:HA	1.52	0.47
3:D:526:VAL:CG1	3:D:549:LYS:HB2	2.44	0.47
3:D:810:THR:CG2	3:D:893:GLY:CA	2.83	0.47
3:D:1243:LEU:O	3:D:1243:LEU:HG	2.12	0.47
1:G:13:LEU:H	1:G:13:LEU:CD2	2.25	0.47
1:G:155:ALA:N	1:G:174:ASP:OD1	2.42	0.47
1:G:218:ARG:HD3	1:H:233:ASP:CA	2.44	0.47
2:I:337:PHE:C	2:I:337:PHE:CD1	2.92	0.47
2:I:447:HIS:C	2:I:449:GLY:H	2.21	0.47
2:I:736:VAL:H	2:I:748:ILE:HG22	1.78	0.47
2:I:866:ASP:OD2	2:I:868:SER:N	2.46	0.47
2:I:1113:LEU:CD1	3:J:641:ILE:HG13	2.44	0.47
2:I:1302:THR:HG22	5:L:531:PRO:CA	2.45	0.47
3:J:23:ALA:HA	3:J:1336:ALA:O	2.13	0.47
3:J:327:LEU:O	3:J:329:ASP:N	2.47	0.47
3:J:392:THR:CB	5:L:606:VAL:HG11	2.42	0.47
3:J:428:THR:O	3:J:428:THR:HG22	2.14	0.47
3:J:452:LEU:O	3:J:500:ILE:HG23	2.14	0.47
3:J:499:ILE:HG22	3:J:500:ILE:HG12	1.96	0.47
3:J:537:TYR:C	3:J:539:SER:N	2.72	0.47
3:J:629:PHE:O	3:J:632:ALA:N	2.46	0.47
3:J:646:ILE:HD11	3:J:764:ARG:HB3	1.96	0.47
3:J:844:THR:HG21	3:J:858:VAL:HG21	1.95	0.47
3:J:1257:VAL:O	3:J:1261:LEU:CD1	2.62	0.47
5:L:276:MET:O	5:L:280:VAL:HG23	2.14	0.47
5:L:343:LYS:O	5:L:347:ILE:HG13	2.14	0.47
2:C:719:LYS:N	2:C:751:TYR:OH	2.41	0.47
2:C:803:ALA:HB2	2:C:1227:VAL:HB	1.95	0.47
2:C:1024:GLU:O	2:C:1024:GLU:HG2	2.14	0.47
2:C:1142:ARG:CZ	2:C:1165:SER:HA	2.44	0.47
2:C:1148:ALA:C	2:C:1150:ASP:H	2.22	0.47
2:C:1191:LYS:CE	2:C:1192:GLU:HB2	2.44	0.47
3:D:79:LYS:HE3	3:D:80:HIS:N	2.29	0.47
3:D:1140:ARG:O	3:D:1143:ASP:HB2	2.14	0.47
3:D:1145:PHE:HB3	3:D:1309:ILE:CD1	2.43	0.47
5:F:121:LYS:O	5:F:124:GLU:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:238:LYS:CE	5:F:242:HIS:CE1	2.97	0.47
5:F:248:GLU:HA	5:F:251:LYS:HG3	1.97	0.47
5:F:456:MET:HE3	5:F:456:MET:CA	2.44	0.47
5:F:512:GLY:O	5:F:513:ASP:CB	2.62	0.47
1:G:80:GLU:CG	1:G:84:ASN:HD21	2.25	0.47
2:I:848:GLU:CG	2:I:888:THR:HG22	2.43	0.47
2:I:1077:SER:O	2:I:1078:LYS:HB2	2.14	0.47
2:I:1156:ARG:HH11	2:I:1156:ARG:CG	2.27	0.47
3:J:42:GLU:O	3:J:55:GLY:HA3	2.15	0.47
3:J:481:ARG:HG3	3:J:485:MET:SD	2.54	0.47
3:J:870:ASP:O	3:J:874:GLU:N	2.44	0.47
3:J:900:GLY:O	3:J:908:ILE:HG12	2.14	0.47
1:B:10:LYS:HG3	1:B:11:PRO:HD2	1.96	0.47
1:B:89:ALA:HB1	1:B:124:VAL:CB	2.37	0.47
1:B:154:PRO:HB2	1:B:157:THR:OG1	2.13	0.47
1:B:248:GLU:CG	1:B:249:PHE:N	2.77	0.47
2:C:242:VAL:CB	2:C:245:ARG:HD2	2.43	0.47
2:C:509:SER:O	2:C:512:SER:N	2.24	0.47
2:C:680:LEU:C	2:C:680:LEU:HD23	2.39	0.47
2:C:686:GLN:O	2:C:689:ALA:HB2	2.13	0.47
2:C:712:SER:O	2:C:714:VAL:HG22	2.14	0.47
2:C:975:ILE:HG22	2:C:976:ARG:N	2.29	0.47
2:C:1006:GLU:OE2	2:C:1007:LYS:N	2.47	0.47
2:C:1033:ARG:O	2:C:1036:ILE:HB	2.14	0.47
2:C:1144:PHE:HE1	2:C:1201:LEU:CD1	2.08	0.47
2:C:1337:ILE:HA	3:D:22:ILE:HA	1.95	0.47
3:D:35:PHE:CE1	3:D:101:ARG:HB3	2.48	0.47
3:D:184:ALA:O	3:D:187:ALA:HB3	2.13	0.47
3:D:245:LEU:HD21	3:D:249:LEU:CD1	2.37	0.47
3:D:508:LEU:HD12	3:D:508:LEU:HA	1.45	0.47
3:D:655:SER:HA	3:D:658:GLU:HB2	1.94	0.47
3:D:679:TYR:HD2	3:D:680:ASN:N	2.13	0.47
3:D:872:LEU:HD22	3:D:877:VAL:CB	2.43	0.47
3:D:1137:GLY:O	3:D:1140:ARG:HB3	2.13	0.47
5:F:137:TYR:HB3	5:F:140:ALA:HB3	1.95	0.47
5:F:343:LYS:HA	5:F:346:GLN:OE1	2.14	0.47
1:G:11:PRO:HB3	1:G:30:PRO:O	2.14	0.47
1:G:89:ALA:C	1:G:210:THR:HG21	2.40	0.47
2:I:74:ARG:C	2:I:75:LEU:HD22	2.40	0.47
2:I:211:ARG:HD3	2:I:357:ASN:C	2.38	0.47
2:I:402:ARG:HD2	2:I:406:ASN:ND2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:463:GLN:NE2	2:I:501:ALA:C	2.72	0.47
2:I:557:ARG:NE	2:I:608:ALA:HA	2.29	0.47
2:I:619:ALA:CB	2:I:657:THR:HA	2.44	0.47
2:I:706:ARG:HG2	2:I:706:ARG:HH11	1.79	0.47
2:I:1010:GLN:O	2:I:1013:GLN:N	2.47	0.47
2:I:1023:HIS:O	2:I:1026:GLU:HB2	2.13	0.47
3:J:153:ASN:HB2	3:J:172:PHE:CE1	2.49	0.47
3:J:227:PHE:HE1	3:J:234:PRO:CD	2.27	0.47
3:J:324:LEU:C	3:J:324:LEU:HD12	2.39	0.47
3:J:461:PHE:C	3:J:463:GLY:H	2.22	0.47
3:J:523:GLU:OE1	3:J:547:ARG:HD2	2.14	0.47
3:J:624:ILE:CA	3:J:627:THR:HG22	2.44	0.47
3:J:848:VAL:HB	3:J:858:VAL:HG13	1.95	0.47
3:J:1160:SER:HB2	3:J:1206:ARG:HG2	1.96	0.47
1:A:102:LEU:HD23	1:A:115:ILE:CA	2.40	0.47
1:B:26:VAL:N	1:B:203:ILE:O	2.42	0.47
1:B:62:ASP:HB3	1:B:142:MET:CE	2.45	0.47
1:B:81:ILE:O	1:B:84:ASN:N	2.48	0.47
1:B:248:GLU:HG3	1:B:249:PHE:H	1.77	0.47
2:C:53:PHE:CD2	2:C:70:TYR:CE1	3.02	0.47
2:C:209:ILE:C	2:C:212:ALA:HB3	2.39	0.47
2:C:272:ARG:HE	2:C:276:GLN:NE2	2.13	0.47
2:C:365:GLU:O	2:C:369:MET:N	2.44	0.47
2:C:398:SER:O	2:C:401:GLY:N	2.48	0.47
2:C:672:GLU:H	2:C:672:GLU:CD	2.22	0.47
2:C:761:GLN:O	2:C:763:THR:HG22	2.14	0.47
2:C:865:LEU:HD23	2:C:865:LEU:HA	1.48	0.47
3:D:513:MET:HE1	3:D:579:LEU:HD22	1.95	0.47
3:D:597:GLY:N	3:D:599:LYS:HE2	2.29	0.47
3:D:686:TRP:HB3	3:D:758:PRO:CG	2.44	0.47
3:D:1157:ALA:HB1	3:D:1206:ARG:HA	1.94	0.47
3:D:1196:LEU:HD22	3:D:1196:LEU:H	1.78	0.47
3:D:1250:ASP:O	3:D:1251:LYS:C	2.57	0.47
3:D:1372:ARG:HE	3:J:854:ALA:HB3	1.80	0.47
1:G:57:THR:HB	1:G:145:LYS:HD3	1.96	0.47
1:H:31:LEU:HD22	1:H:31:LEU:N	2.30	0.47
2:I:130:MET:HE3	2:I:136:PHE:CE1	2.49	0.47
2:I:269:ILE:N	2:I:269:ILE:CD1	2.77	0.47
2:I:292:ILE:HB	2:I:322:LEU:HD11	1.95	0.47
2:I:448:LEU:HD11	2:I:554:HIS:ND1	2.29	0.47
2:I:473:ARG:O	2:I:477:GLU:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:676:ALA:HA	2:I:679:ALA:HB3	1.97	0.47
2:I:998:LEU:H	2:I:998:LEU:HD12	1.79	0.47
3:J:362:ARG:CZ	3:J:362:ARG:HB3	2.38	0.47
3:J:418:GLU:OE1	4:K:2:ALA:HA	2.14	0.47
3:J:491:LEU:O	3:J:492:SER:C	2.58	0.47
3:J:583:VAL:HG12	3:J:587:LEU:HB2	1.95	0.47
3:J:734:ALA:HA	3:J:737:ILE:HG13	1.96	0.47
3:J:842:ARG:CB	3:J:882:VAL:HG11	2.45	0.47
3:J:865:HIS:HE1	3:J:868:TRP:H	1.58	0.47
3:J:866:GLU:CD	3:J:901:ARG:HH22	2.22	0.47
3:J:867:GLN:O	3:J:869:CYS:N	2.47	0.47
3:J:929:GLN:O	3:J:1244:GLN:NE2	2.48	0.47
4:K:24:ALA:O	4:K:26:ARG:N	2.48	0.47
5:L:123:ILE:C	5:L:127:ILE:HG12	2.38	0.47
1:A:223:ILE:CD1	1:B:8:PHE:CE2	2.96	0.47
1:B:76:GLU:CB	1:B:80:GLU:HG2	2.44	0.47
1:B:104:LYS:O	1:B:140:ILE:HG23	2.15	0.47
2:C:56:VAL:HG11	2:C:468:LEU:HB3	1.97	0.47
2:C:670:PHE:HE2	2:C:1113:LEU:C	2.23	0.47
2:C:672:GLU:HG3	2:C:1187:PHE:CD2	2.49	0.47
2:C:682:GLY:HA2	2:C:1071:GLY:CA	2.44	0.47
2:C:750:ILE:O	2:C:750:ILE:HG12	2.09	0.47
2:C:1105:SER:O	2:C:1107:MET:N	2.48	0.47
2:C:1109:ILE:CD1	3:D:644:MET:SD	3.02	0.47
2:C:1149:TYR:HD1	2:C:1159:VAL:CG1	2.24	0.47
2:C:1297:ASP:OD1	2:C:1300:GLY:CA	2.62	0.47
2:C:1305:TYR:CZ	3:D:379:PRO:HG3	2.47	0.47
3:D:37:GLU:HA	3:D:104:HIS:O	2.14	0.47
3:D:71:LEU:O	3:D:71:LEU:HD22	2.14	0.47
3:D:132:LEU:HD22	3:D:132:LEU:HA	1.49	0.47
3:D:436:ALA:HB2	3:D:484:MET:HB2	1.96	0.47
3:D:530:PRO:O	3:D:533:ALA:HB3	2.13	0.47
3:D:750:PRO:C	3:D:752:GLY:N	2.72	0.47
3:D:782:GLY:O	3:D:786:THR:HG23	2.14	0.47
3:D:1298:VAL:CB	3:D:1299:GLY:HA3	2.45	0.47
5:F:423:ARG:HG2	5:F:425:TYR:CE1	2.48	0.47
5:F:574:GLU:C	5:F:578:LYS:HE3	2.40	0.47
1:G:133:LEU:HA	1:G:133:LEU:HD13	1.33	0.47
1:G:151:GLY:H	1:G:177:TYR:HB2	1.76	0.47
1:H:33:ARG:NH1	2:I:1081:PRO:HG3	2.29	0.47
1:H:80:GLU:HG3	3:J:551:ARG:NH2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:92:VAL:HG12	1:H:93:GLN:N	2.29	0.47
1:H:182:ARG:O	1:H:205:MET:HG3	2.14	0.47
2:I:478:ARG:C	2:I:480:SER:N	2.72	0.47
2:I:1111:GLN:HB2	2:I:1230:MET:CE	2.45	0.47
2:I:1339:LEU:HD23	3:J:17:PHE:CD1	2.50	0.47
3:J:64:PRO:HB3	3:J:69:GLU:O	2.15	0.47
3:J:101:ARG:HG2	3:J:101:ARG:NH1	2.29	0.47
3:J:650:LYS:NZ	3:J:765:GLU:OE2	2.47	0.47
4:K:35:LYS:HZ1	4:K:71:GLU:CD	2.15	0.47
5:L:333:VAL:CG2	5:L:336:GLU:HB2	2.44	0.47
5:L:463:LEU:HD12	5:L:487:MET:HE1	1.96	0.47
1:A:36:GLY:C	1:A:187:VAL:HG11	2.40	0.47
1:B:35:PHE:N	1:B:35:PHE:HD1	2.11	0.47
1:B:79:LEU:H	1:B:79:LEU:CD2	2.21	0.47
1:B:110:VAL:O	1:B:130:ILE:HD12	2.14	0.47
2:C:61:SER:OG	2:C:66:SER:O	2.23	0.47
2:C:90:VAL:CG1	2:C:91:THR:H	2.16	0.47
2:C:170:VAL:O	2:C:171:LEU:HD23	2.15	0.47
2:C:271:ALA:O	2:C:275:ARG:HG3	2.14	0.47
2:C:502:VAL:O	2:C:505:PHE:N	2.48	0.47
2:C:761:GLN:C	2:C:763:THR:N	2.72	0.47
2:C:906:PHE:HZ	5:F:601:PRO:HG2	1.80	0.47
2:C:950:GLU:O	2:C:953:LEU:HB3	2.15	0.47
2:C:1148:ALA:C	2:C:1150:ASP:N	2.73	0.47
3:D:197:GLU:O	3:D:200:GLN:HB2	2.15	0.47
3:D:268:LEU:CD2	3:D:305:ALA:C	2.87	0.47
3:D:541:LEU:HA	3:D:541:LEU:HD23	1.30	0.47
5:F:489:MET:HA	5:F:490:PRO:HD2	1.65	0.47
1:G:38:THR:CA	1:H:45:ARG:HH11	2.27	0.47
1:H:226:GLU:OE1	1:H:226:GLU:CA	2.61	0.47
2:I:103:VAL:HG12	2:I:116:ASP:HA	1.97	0.47
2:I:143:ARG:HA	2:I:513:GLN:O	2.14	0.47
2:I:563:THR:CG2	2:I:564:PRO:N	2.78	0.47
3:J:75:TYR:CD2	3:J:83:VAL:HG21	2.50	0.47
3:J:339:ARG:HB3	3:J:340:GLN:HB2	1.92	0.47
3:J:426:ALA:CB	3:J:427:PRO:CD	2.90	0.47
3:J:592:VAL:HA	3:J:596:LEU:HD21	1.95	0.47
3:J:768:ASN:HD21	3:J:770:LEU:CD2	2.27	0.47
3:J:826:ILE:H	3:J:831:VAL:HA	1.78	0.47
3:J:1337:VAL:HG23	3:J:1338:ALA:N	2.30	0.47
3:J:1347:LEU:HD12	3:J:1347:LEU:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:137:TYR:CD1	5:L:138:PRO:HD2	2.48	0.47
5:L:144:LEU:O	5:L:148:TYR:N	2.41	0.47
5:L:215:GLU:CA	5:L:218:ARG:HD3	2.40	0.47
5:L:227:GLN:C	5:L:230:VAL:HG12	2.40	0.47
1:A:47:LEU:O	1:A:180:VAL:HG11	2.15	0.47
1:A:187:VAL:HG12	1:A:201:LEU:CD1	2.33	0.47
1:B:306:VAL:HA	1:B:309:SER:HB3	1.96	0.47
2:C:502:VAL:HG13	2:C:503:LYS:H	1.79	0.47
2:C:571:LEU:HA	2:C:571:LEU:HD23	1.50	0.47
2:C:933:VAL:HG22	2:C:1050:VAL:HG12	1.96	0.47
2:C:1029:LEU:O	2:C:1030:GLU:C	2.58	0.47
2:C:1103:VAL:O	2:C:1104:PRO:C	2.57	0.47
2:C:1166:ASP:O	2:C:1168:GLU:N	2.47	0.47
2:C:1192:GLU:OE2	3:D:764:ARG:HD3	2.15	0.47
2:C:1251:TYR:HB2	5:F:528:LEU:HD21	1.97	0.47
2:C:1323:PHE:CD1	2:C:1327:LEU:HD11	2.49	0.47
3:D:134:ASP:OD2	3:D:159:ILE:HD13	2.14	0.47
3:D:139:LEU:C	3:D:141:PHE:H	2.20	0.47
3:D:198:CYS:HB3	3:D:202:ARG:NH2	2.30	0.47
3:D:204:GLU:HA	3:D:207:GLU:HB2	1.96	0.47
3:D:263:SER:N	5:F:507:MET:HE2	2.29	0.47
3:D:268:LEU:HB3	3:D:306:LEU:CD2	2.41	0.47
3:D:350:SER:HA	3:D:468:VAL:O	2.15	0.47
3:D:453:VAL:O	3:D:454:CYS:C	2.58	0.47
3:D:484:MET:HB3	3:D:484:MET:HE2	1.16	0.47
3:D:490:ILE:O	3:D:498:PRO:HA	2.14	0.47
3:D:506:VAL:HG13	3:D:507:VAL:N	2.29	0.47
3:D:584:PRO:HD2	3:D:587:LEU:HD13	1.95	0.47
3:D:653:ILE:O	3:D:654:ILE:C	2.58	0.47
3:D:782:GLY:O	3:D:785:ASP:N	2.48	0.47
3:D:794:GLY:O	3:D:797:THR:N	2.47	0.47
3:D:912:GLY:HA2	3:D:1363:TYR:CD1	2.50	0.47
3:D:930:LEU:HD12	3:D:1138:LEU:HD13	1.96	0.47
3:D:1241:TYR:CD2	3:D:1246:VAL:HG11	2.50	0.47
3:D:1307:LEU:CD1	3:D:1311:LYS:HB3	2.45	0.47
3:D:1352:ILE:HD11	8:D:2004:4C4:C8	2.40	0.47
3:D:1363:TYR:C	3:D:1363:TYR:CD2	2.92	0.47
4:E:42:GLU:C	4:E:44:ASP:H	2.23	0.47
5:F:331:HIS:C	5:F:333:VAL:H	2.23	0.47
5:F:487:MET:C	5:F:489:MET:N	2.70	0.47
1:G:29:GLU:CD	1:G:200:LYS:HE2	2.38	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:79:LEU:HD22	1:G:79:LEU:HA	1.73	0.47
1:G:179:PRO:HA	1:G:208:ASN:ND2	2.30	0.47
1:H:62:ASP:OD1	1:H:63:GLY:N	2.46	0.47
1:H:64:VAL:HG12	1:H:66:HIS:HB2	1.96	0.47
2:I:5:TYR:HA	2:I:8:LYS:HD3	1.96	0.47
2:I:12:ARG:HH11	2:I:701:GLY:HA3	1.80	0.47
2:I:39:ILE:HD12	2:I:75:LEU:CG	2.44	0.47
2:I:325:LEU:HA	2:I:328:SER:HB3	1.96	0.47
2:I:558:VAL:C	2:I:576:SER:OG	2.58	0.47
2:I:614:TYR:N	2:I:614:TYR:HD2	2.13	0.47
2:I:680:LEU:HD23	2:I:680:LEU:C	2.40	0.47
2:I:849:GLU:HB2	2:I:851:THR:CG2	2.42	0.47
2:I:994:ARG:HD2	2:I:997:TRP:CZ3	2.49	0.47
2:I:1065:LYS:HE2	3:J:462:ASP:O	2.14	0.47
2:I:1213:TYR:CE1	2:I:1220:GLN:HB2	2.49	0.47
2:I:1214:ASP:N	2:I:1221:PHE:CE2	2.83	0.47
2:I:1267:GLY:HA3	3:J:347:VAL:O	2.14	0.47
2:I:1281:TYR:HE1	3:J:484:MET:HE3	1.74	0.47
3:J:134:ASP:O	3:J:137:ARG:HB3	2.13	0.47
3:J:161:THR:N	3:J:164:GLN:OE1	2.30	0.47
3:J:224:LEU:O	3:J:226:ALA:N	2.48	0.47
3:J:454:CYS:O	3:J:458:ASN:N	2.48	0.47
3:J:495:ASN:O	3:J:495:ASN:ND2	2.48	0.47
3:J:527:LEU:O	3:J:550:VAL:HG12	2.15	0.47
3:J:537:TYR:O	3:J:539:SER:N	2.48	0.47
3:J:660:GLU:HA	3:J:663:GLU:HG3	1.97	0.47
3:J:665:GLN:O	3:J:669:GLN:HG3	2.15	0.47
3:J:709:ARG:HB3	3:J:714:GLU:OE1	2.15	0.47
3:J:843:VAL:O	3:J:883:ARG:HG3	2.14	0.47
3:J:903:LEU:HD23	3:J:905:ARG:CD	2.44	0.47
3:J:905:ARG:NH1	4:K:10:VAL:HG11	2.30	0.47
3:J:1149:ARG:HG2	3:J:1150:PRO:O	2.14	0.47
3:J:1265:THR:HG23	3:J:1305:ASP:OD2	2.14	0.47
5:L:141:ILE:HG13	5:L:256:PHE:HE1	1.80	0.47
5:L:238:LYS:HD3	5:L:242:HIS:HE1	1.80	0.47
5:L:384:LEU:N	5:L:384:LEU:HD23	2.30	0.47
5:L:408:GLY:HA2	5:L:439:ILE:HG22	1.97	0.47
5:L:519:LEU:O	5:L:521:ASP:N	2.47	0.47
1:A:36:GLY:CA	1:A:187:VAL:HG11	2.44	0.47
1:A:41:ASN:C	1:A:43:LEU:H	2.23	0.47
1:A:187:VAL:HG23	1:A:187:VAL:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:29:GLU:HB2	1:B:30:PRO:HA	1.96	0.47
1:B:268:ASN:HA	1:B:271:LYS:HB3	1.96	0.47
1:B:299:SER:O	1:B:303:ILE:HG12	2.14	0.47
2:C:168:GLY:O	2:C:170:VAL:N	2.43	0.47
2:C:461:GLU:O	2:C:464:PHE:N	2.48	0.47
2:C:463:GLN:HE22	2:C:501:ALA:CB	2.27	0.47
2:C:478:ARG:NH1	2:C:482:GLY:N	2.63	0.47
2:C:691:PRO:HB3	2:C:788:SER:OG	2.15	0.47
2:C:785:ASP:OD2	2:C:791:LEU:N	2.39	0.47
2:C:1336:ASN:ND2	3:D:29:MET:CE	2.69	0.47
3:D:165:TYR:O	3:D:169:LEU:N	2.48	0.47
3:D:216:LYS:HA	3:D:219:LYS:HZ1	1.78	0.47
3:D:283:LEU:O	3:D:286:ALA:N	2.38	0.47
3:D:442:ILE:HA	3:D:442:ILE:HD13	1.54	0.47
3:D:860:ARG:HH11	3:D:860:ARG:HG3	1.80	0.47
3:D:1280:VAL:HG21	3:D:1304:ARG:NH2	2.30	0.47
5:F:511:ILE:HG23	5:F:512:GLY:H	1.80	0.47
5:F:572:THR:C	5:F:574:GLU:H	2.23	0.47
5:F:577:GLY:C	5:F:579:GLN:N	2.71	0.47
1:G:83:LEU:N	1:G:83:LEU:CD1	2.78	0.47
2:I:161:LYS:H	2:I:161:LYS:HZ3	1.61	0.47
2:I:198:ILE:HG22	2:I:199:ASP:OD1	2.15	0.47
2:I:555:TYR:CD1	2:I:637:ARG:NH2	2.83	0.47
2:I:607:SER:N	2:I:610:GLU:OE1	2.38	0.47
2:I:729:ALA:O	2:I:755:LYS:CE	2.63	0.47
2:I:768:MET:O	2:I:784:ALA:HB1	2.14	0.47
2:I:804:PHE:O	3:J:638:SER:HB2	2.14	0.47
3:J:270:ARG:CZ	5:L:449:THR:CG2	2.91	0.47
3:J:306:LEU:HD23	3:J:306:LEU:HA	1.69	0.47
3:J:377:PHE:HD1	3:J:380:PHE:HD1	1.58	0.47
3:J:425:ARG:HD2	3:J:458:ASN:O	2.15	0.47
3:J:537:TYR:C	3:J:539:SER:H	2.23	0.47
3:J:857:LEU:CD1	3:J:858:VAL:HG13	2.44	0.47
3:J:1167:LYS:HZ3	3:J:1170:LYS:HB2	1.79	0.47
5:L:238:LYS:HD3	5:L:238:LYS:HA	1.74	0.47
1:A:89:ALA:HB3	1:A:125:LYS:HD3	1.96	0.47
1:A:154:PRO:HG2	1:A:157:THR:OG1	2.15	0.47
1:A:182:ARG:NH1	1:A:206:GLU:OE1	2.48	0.47
1:B:55:ALA:HB2	1:B:176:CYS:O	2.15	0.47
2:C:107:ARG:HA	2:C:108:GLU:HA	1.30	0.47
2:C:468:LEU:O	2:C:469:VAL:C	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:724:VAL:HG23	2:C:775:GLU:O	2.15	0.47
2:C:730:SER:O	2:C:753:LEU:HB2	2.15	0.47
2:C:756:TYR:CE1	2:C:766:ASN:ND2	2.80	0.47
2:C:950:GLU:HA	2:C:953:LEU:HB3	1.97	0.47
2:C:1104:PRO:CG	3:D:725:MET:SD	3.02	0.47
2:C:1341:ASP:CG	2:C:1342:GLU:H	2.21	0.47
3:D:26:SER:HG	3:D:29:MET:H	1.58	0.47
3:D:97:VAL:CG1	3:D:101:ARG:CZ	2.84	0.47
3:D:361:LEU:CD2	3:D:366:CYS:HA	2.43	0.47
3:D:657:ALA:O	3:D:661:VAL:HG13	2.14	0.47
3:D:1223:LEU:HD22	3:D:1223:LEU:N	2.30	0.47
5:F:108:VAL:HG23	5:F:109:GLU:H	1.79	0.47
5:F:402:LEU:H	5:F:402:LEU:CD2	2.27	0.47
1:G:38:THR:HA	1:H:45:ARG:HH11	1.80	0.47
1:G:60:GLU:CD	1:G:143:ARG:HH21	2.23	0.47
1:G:79:LEU:HD13	1:G:83:LEU:CD1	2.45	0.47
1:H:43:LEU:HA	1:H:43:LEU:HD12	1.28	0.47
2:I:452:ARG:HH11	2:I:452:ARG:CG	2.12	0.47
2:I:559:CYS:SG	2:I:662:SER:N	2.88	0.47
2:I:797:GLY:HA3	2:I:1232:MET:O	2.15	0.47
3:J:210:SER:HB2	3:J:213:LYS:HG3	1.96	0.47
3:J:339:ARG:HD2	3:J:340:GLN:HG3	1.96	0.47
3:J:578:ILE:O	3:J:581:MET:HB2	2.15	0.47
3:J:698:MET:O	3:J:702:GLN:CB	2.61	0.47
3:J:844:THR:HG23	3:J:864:LEU:CD2	2.41	0.47
3:J:862:THR:O	3:J:864:LEU:HD23	2.15	0.47
3:J:1236:GLU:O	3:J:1239:ASP:HB2	2.15	0.47
3:J:1249:ASN:HD21	3:J:1251:LYS:HZ3	1.62	0.47
5:L:111:LEU:HD23	5:L:111:LEU:HA	1.62	0.47
5:L:254:GLU:OE1	5:L:254:GLU:HA	2.15	0.47
5:L:289:LYS:HB3	5:L:289:LYS:HE2	1.72	0.47
5:L:448:ARG:CD	5:L:450:ILE:HG13	2.34	0.47
1:A:48:LEU:HD23	1:A:48:LEU:HA	1.53	0.47
1:A:195:ARG:HD2	1:A:196:THR:H	1.80	0.47
1:B:246:LYS:HE3	1:B:246:LYS:HB3	1.62	0.47
1:B:256:PRO:C	1:B:258:ASP:H	2.23	0.47
2:C:28:LEU:O	2:C:29:SER:C	2.57	0.47
2:C:100:LEU:HD23	2:C:100:LEU:HA	1.73	0.47
2:C:759:SER:CB	2:C:763:THR:HG23	2.44	0.47
3:D:35:PHE:CE1	3:D:101:ARG:CD	2.92	0.47
3:D:56:LEU:HD23	3:D:269:TYR:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:160:LEU:HD22	3:D:164:GLN:HB3	1.97	0.47
3:D:385:LEU:HD21	3:D:411:ILE:HG13	1.96	0.47
3:D:527:LEU:HD22	3:D:533:ALA:HA	1.96	0.47
3:D:674:THR:OG1	3:D:677:GLU:HB2	2.15	0.47
3:D:795:TYR:HA	3:D:798:ARG:CZ	2.45	0.47
3:D:817:HIS:O	3:D:845:ALA:HB1	2.15	0.47
3:D:847:ASP:HA	3:D:860:ARG:H	1.78	0.47
3:D:1225:GLY:O	3:D:1229:VAL:HG12	2.15	0.47
4:E:9:ALA:HB2	4:E:55:GLU:HG3	1.96	0.47
5:F:230:VAL:HG13	5:F:231:THR:N	2.30	0.47
5:F:240:ARG:O	5:F:242:HIS:N	2.48	0.47
5:F:548:LEU:HA	5:F:551:LEU:HD12	1.97	0.47
1:H:41:ASN:CG	2:I:1217:THR:HA	2.40	0.47
1:H:101:THR:HG23	1:H:116:THR:CB	2.44	0.47
2:I:525:THR:HG21	2:I:687:ARG:HD3	1.98	0.47
2:I:670:PHE:CE2	2:I:1113:LEU:HB3	2.49	0.47
2:I:951:MET:HB2	2:I:951:MET:HE3	1.62	0.47
2:I:1128:ILE:HD13	2:I:1145:ILE:HD11	1.96	0.47
2:I:1210:ILE:HG22	2:I:1211:ARG:H	1.77	0.47
2:I:1234:LYS:HE2	2:I:1238:LEU:CD2	2.42	0.47
2:I:1280:ALA:HB3	3:J:431:ARG:HB2	1.97	0.47
3:J:120:LEU:C	3:J:120:LEU:HD22	2.39	0.47
3:J:155:GLU:HB2	3:J:158:GLN:HB2	1.96	0.47
3:J:474:LEU:HD13	3:J:474:LEU:HA	1.61	0.47
3:J:648:GLU:HG3	3:J:649:LYS:N	2.29	0.47
3:J:824:PRO:HD3	3:J:835:LEU:HD22	1.96	0.47
3:J:1167:LYS:HD3	3:J:1174:ARG:HD2	1.96	0.47
5:L:264:LYS:HD2	5:L:264:LYS:H	1.79	0.47
1:A:108:GLY:HA2	1:A:109:PRO:HD3	1.59	0.46
1:B:52:PRO:CD	1:B:150:ARG:HG2	2.44	0.46
2:C:268:ARG:HH21	2:C:270:THR:CG2	2.28	0.46
2:C:285:ILE:CD1	2:C:287:VAL:HG12	2.43	0.46
2:C:464:PHE:O	2:C:465:ARG:C	2.57	0.46
2:C:658:GLN:C	2:C:660:VAL:H	2.23	0.46
2:C:830:THR:HG22	2:C:1234:LYS:NZ	2.31	0.46
2:C:843:THR:C	2:C:846:GLY:H	2.23	0.46
2:C:853:ASP:C	2:C:854:ILE:HG13	2.40	0.46
2:C:1087:TYR:C	2:C:1087:TYR:CD2	2.93	0.46
2:C:1088:ASP:OD2	2:C:1092:THR:OG1	2.34	0.46
2:C:1108:ASN:C	2:C:1110:GLY:N	2.73	0.46
2:C:1327:LEU:HD12	2:C:1327:LEU:N	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1335:ILE:HD12	3:D:1336:ALA:CB	2.45	0.46
3:D:34:SER:HB2	3:D:103:GLY:O	2.15	0.46
3:D:487:THR:OG1	3:D:488:ASN:OD1	2.30	0.46
3:D:491:LEU:O	3:D:904:ALA:CB	2.64	0.46
3:D:750:PRO:C	3:D:752:GLY:H	2.23	0.46
3:D:842:ARG:NH2	3:D:884:SER:CB	2.77	0.46
5:F:108:VAL:HA	5:F:385:ARG:NH1	2.30	0.46
5:F:286:LEU:O	5:F:290:LEU:HG	2.14	0.46
1:G:90:VAL:HG22	1:G:91:ARG:H	1.80	0.46
1:H:16:ILE:HG23	1:H:16:ILE:O	2.15	0.46
1:H:47:LEU:HD12	1:H:183:ILE:HG21	1.96	0.46
1:H:69:SER:H	1:H:78:ILE:HD12	1.78	0.46
1:H:102:LEU:HD22	1:H:103:ASN:N	2.30	0.46
2:I:540:ARG:HE	2:I:568:ASN:HB3	1.80	0.46
2:I:600:THR:HG22	2:I:601:ASP:N	2.30	0.46
2:I:623:LEU:C	2:I:623:LEU:HD12	2.39	0.46
2:I:638:SER:O	2:I:640:GLY:N	2.43	0.46
2:I:681:MET:HE2	2:I:681:MET:HB3	1.50	0.46
2:I:692:THR:HG23	2:I:694:ARG:O	2.14	0.46
2:I:769:PRO:HA	2:I:784:ALA:HB2	1.97	0.46
2:I:1243:MET:SD	3:J:445:LYS:HG2	2.55	0.46
3:J:460:ASP:C	3:J:461:PHE:HD2	2.22	0.46
3:J:697:MET:HE1	3:J:737:ILE:HG21	1.97	0.46
3:J:802:ASP:CG	3:J:1325:PHE:HD1	2.23	0.46
3:J:1169:THR:HG22	3:J:1169:THR:O	2.15	0.46
3:J:1238:GLN:HB2	3:J:1242:ARG:HH21	1.80	0.46
5:L:143:TYR:CE1	5:L:147:GLN:HG3	2.50	0.46
5:L:297:MET:HG3	5:L:326:TRP:CZ3	2.50	0.46
5:L:312:SER:OG	5:L:313:ASP:N	2.49	0.46
1:A:13:LEU:HG	1:A:13:LEU:O	2.15	0.46
1:A:36:GLY:CA	1:A:201:LEU:HD22	2.46	0.46
1:A:102:LEU:HD11	1:A:110:VAL:HG11	1.97	0.46
1:B:116:THR:HG23	1:B:116:THR:O	2.15	0.46
1:B:264:VAL:HA	1:B:267:ALA:CB	2.45	0.46
2:C:176:ILE:HB	2:C:184:LEU:HB3	1.95	0.46
2:C:180:ARG:CZ	2:C:465:ARG:NH1	2.77	0.46
2:C:563:THR:HG21	2:C:569:ILE:CG2	2.45	0.46
2:C:857:VAL:HG23	2:C:861:ALA:HB3	1.97	0.46
2:C:989:LEU:O	2:C:989:LEU:HD12	2.15	0.46
2:C:1118:GLY:O	2:C:1121:ALA:HB3	2.14	0.46
2:C:1160:ASP:CB	2:C:1161:LEU:HD12	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:18:ASP:CB	3:D:1373:ARG:NH2	2.72	0.46
3:D:265:LEU:HD11	3:D:330:MET:SD	2.55	0.46
3:D:279:LEU:HD23	3:D:280:LYS:N	2.29	0.46
3:D:322:ARG:CG	3:D:323:PRO:HD2	2.42	0.46
3:D:589:TYR:C	3:D:591:ILE:N	2.73	0.46
3:D:802:ASP:O	3:D:1325:PHE:CE2	2.68	0.46
3:D:1146:GLU:HB3	3:D:1148:ARG:HG3	1.98	0.46
3:D:1204:VAL:O	3:D:1204:VAL:HG23	2.14	0.46
5:F:117:ILE:O	5:F:120:ALA:N	2.48	0.46
5:F:398:GLY:O	5:F:447:ALA:HB1	2.15	0.46
5:F:486:ARG:C	5:F:487:MET:HG2	2.40	0.46
1:G:166:ARG:NH1	1:G:167:PRO:HA	2.30	0.46
1:H:25:LYS:HE3	1:H:202:VAL:CG1	2.45	0.46
2:I:28:LEU:CD2	2:I:527:LYS:HD2	2.46	0.46
2:I:230:PHE:CD1	2:I:239:MET:HB2	2.51	0.46
2:I:289:VAL:HG22	2:I:322:LEU:CD1	2.45	0.46
2:I:289:VAL:CG1	2:I:319:LEU:HD11	2.38	0.46
2:I:490:GLN:HG3	5:L:472:GLN:HB3	1.97	0.46
2:I:517:GLN:NE2	2:I:759:SER:HA	2.30	0.46
2:I:933:VAL:HG22	2:I:1050:VAL:CG1	2.45	0.46
2:I:1289:GLU:OE2	3:J:472:LEU:HB2	2.15	0.46
3:J:24:LEU:HD23	3:J:1337:VAL:HA	1.96	0.46
3:J:37:GLU:HG3	3:J:105:ILE:HA	1.97	0.46
3:J:53:ARG:HA	3:J:54:ASP:HA	1.63	0.46
3:J:128:LEU:C	3:J:130:MET:N	2.71	0.46
3:J:146:VAL:CG1	3:J:149:GLY:CA	2.93	0.46
3:J:150:GLY:O	3:J:152:THR:N	2.48	0.46
3:J:262:THR:C	5:L:507:MET:HG3	2.40	0.46
3:J:288:PRO:C	3:J:290:ILE:N	2.73	0.46
3:J:357:VAL:HG22	3:J:461:PHE:HE1	1.79	0.46
3:J:362:ARG:N	3:J:365:GLN:HE21	2.12	0.46
3:J:536:LEU:O	3:J:539:SER:OG	2.33	0.46
3:J:686:TRP:O	3:J:689:ALA:N	2.49	0.46
3:J:742:GLY:O	3:J:762:ASN:HB3	2.15	0.46
3:J:770:LEU:O	3:J:774:ILE:HG13	2.16	0.46
3:J:809:VAL:HG12	3:J:911:LYS:HA	1.96	0.46
4:K:51:LEU:O	4:K:54:ILE:N	2.48	0.46
4:K:53:GLU:OE1	4:K:59:ILE:HG13	2.14	0.46
5:L:348:GLU:OE2	5:L:355:ILE:HG12	2.15	0.46
2:C:147:SER:O	2:C:530:ILE:HA	2.15	0.46
2:C:558:VAL:O	2:C:576:SER:OG	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:633:LEU:N	2:C:633:LEU:HD23	2.30	0.46
2:C:673:HIS:HB3	2:C:1109:ILE:CG2	2.44	0.46
2:C:757:THR:OG1	2:C:758:ARG:N	2.47	0.46
2:C:865:LEU:CD2	2:C:870:ILE:C	2.88	0.46
2:C:994:ARG:HA	2:C:997:TRP:CE2	2.50	0.46
2:C:1211:ARG:O	2:C:1211:ARG:HG3	2.16	0.46
2:C:1217:THR:OG1	2:C:1219:GLU:CG	2.51	0.46
2:C:1237:HIS:ND1	2:C:1237:HIS:N	2.64	0.46
3:D:115:TRP:HB3	3:D:1333:THR:HG23	1.98	0.46
3:D:278:ARG:O	3:D:281:ARG:HB3	2.14	0.46
3:D:339:ARG:CB	3:D:340:GLN:CB	2.93	0.46
3:D:353:SER:O	3:D:465:GLN:HB3	2.15	0.46
3:D:544:LEU:HD13	3:D:575:GLY:HA3	1.95	0.46
3:D:880:VAL:HG12	3:D:882:VAL:CG2	2.45	0.46
3:D:1171:GLY:O	3:D:1193:TRP:CZ3	2.68	0.46
1:G:224:LEU:C	1:G:224:LEU:CD2	2.88	0.46
1:H:60:GLU:HG3	1:H:143:ARG:O	2.15	0.46
1:H:67:GLU:HA	1:H:78:ILE:HG21	1.98	0.46
2:I:160:ASP:HB3	2:I:164:THR:CG2	2.44	0.46
2:I:298:ALA:HB3	2:I:334:GLU:HB3	1.98	0.46
2:I:318:SER:H	2:I:321:LEU:CD1	2.22	0.46
2:I:520:PRO:O	2:I:523:GLU:HB2	2.14	0.46
2:I:844:LYS:H	2:I:844:LYS:HG2	1.39	0.46
2:I:865:LEU:HD13	2:I:869:GLY:HA2	1.97	0.46
2:I:1239:VAL:HG21	3:J:445:LYS:HB2	1.97	0.46
3:J:139:LEU:HA	3:J:139:LEU:HD23	1.70	0.46
3:J:449:LEU:HD12	3:J:449:LEU:HA	1.20	0.46
3:J:820:ILE:O	3:J:881:LYS:HA	2.15	0.46
4:K:7:GLN:NE2	4:K:11:GLU:HG2	2.31	0.46
5:L:453:PRO:HB2	5:L:456:MET:HB2	1.96	0.46
5:L:460:ILE:O	5:L:463:LEU:HB2	2.15	0.46
1:A:152:TYR:CD1	2:C:824:GLN:CG	2.96	0.46
1:B:6:THR:HG1	1:B:7:GLU:CD	2.23	0.46
2:C:106:GLU:O	2:C:109:ALA:HB2	2.14	0.46
2:C:641:GLU:OE2	3:D:749:LYS:NZ	2.39	0.46
2:C:901:LEU:HD12	2:C:901:LEU:O	2.15	0.46
2:C:903:ARG:CZ	2:C:910:ALA:HB2	2.45	0.46
2:C:971:LEU:HD11	2:C:1014:LEU:O	2.15	0.46
2:C:1151:LEU:HD23	2:C:1151:LEU:C	2.40	0.46
3:D:8:LEU:HD23	3:D:8:LEU:C	2.41	0.46
3:D:34:SER:HB2	3:D:104:HIS:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:63:GLY:CA	3:D:98:ARG:HG3	2.45	0.46
3:D:221:ILE:O	3:D:224:LEU:N	2.48	0.46
3:D:506:VAL:HG23	3:D:628:GLY:CA	2.36	0.46
3:D:544:LEU:O	3:D:575:GLY:N	2.42	0.46
3:D:573:THR:OG1	3:D:574:VAL:N	2.47	0.46
3:D:597:GLY:H	3:D:599:LYS:HE2	1.80	0.46
3:D:1350:ASN:OD1	3:D:1355:ARG:HD2	2.14	0.46
5:F:470:MET:HE3	5:F:482:GLU:OE1	2.15	0.46
1:G:103:ASN:OD1	1:G:141:SER:HB2	2.16	0.46
1:H:59:VAL:HG22	1:H:144:ILE:HB	1.96	0.46
1:H:107:ILE:H	1:H:107:ILE:HG13	1.42	0.46
2:I:386:GLU:O	2:I:390:PHE:HB2	2.16	0.46
2:I:810:TYR:CD2	3:J:359:PRO:HG2	2.50	0.46
2:I:849:GLU:HB3	2:I:851:THR:HG22	1.95	0.46
2:I:865:LEU:HD22	2:I:870:ILE:C	2.41	0.46
2:I:941:LYS:NZ	2:I:949:GLU:OE2	2.38	0.46
2:I:1082:ILE:HD12	2:I:1082:ILE:N	2.24	0.46
3:J:288:PRO:HG2	3:J:291:ILE:CG1	2.45	0.46
3:J:814:CYS:SG	3:J:889:ASP:HB3	2.55	0.46
3:J:843:VAL:HG11	3:J:897:HIS:O	2.16	0.46
3:J:1155:ILE:HD12	3:J:1155:ILE:N	2.31	0.46
3:J:1241:TYR:HD1	3:J:1241:TYR:N	2.11	0.46
5:L:344:LEU:HG	5:L:355:ILE:HG13	1.97	0.46
1:B:186:ASN:O	1:B:201:LEU:HD12	2.16	0.46
2:C:53:PHE:CE1	2:C:464:PHE:HE2	2.33	0.46
2:C:243:PRO:CB	2:C:278:GLU:CG	2.86	0.46
2:C:342:ASP:HB3	2:C:343:HIS:CD2	2.51	0.46
2:C:1069:ARG:NH2	2:C:1231:TYR:HB3	2.31	0.46
2:C:1120:ALA:CB	2:C:1198:LEU:HD12	2.45	0.46
2:C:1274:GLU:OE1	2:C:1274:GLU:N	2.47	0.46
3:D:294:ASN:ND2	5:F:406:GLN:NE2	2.64	0.46
3:D:449:LEU:HD12	3:D:449:LEU:HA	1.29	0.46
3:D:695:LYS:HA	3:D:695:LYS:HD3	1.52	0.46
5:F:105:MET:O	5:F:105:MET:HG2	2.15	0.46
5:F:507:MET:HE3	5:F:507:MET:HB2	1.42	0.46
1:H:125:LYS:HD3	1:H:128:HIS:HB2	1.96	0.46
2:I:117:ILE:HD12	2:I:488:MET:HG2	1.97	0.46
2:I:303:ASP:CG	2:I:306:THR:HG23	2.39	0.46
2:I:670:PHE:HA	2:I:672:GLU:OE2	2.15	0.46
2:I:673:HIS:CE1	3:J:766:GLY:HA2	2.50	0.46
2:I:1144:PHE:HE1	2:I:1201:LEU:CD1	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1238:LEU:HD12	2:I:1238:LEU:N	2.18	0.46
3:J:134:ASP:HA	3:J:137:ARG:CB	2.45	0.46
3:J:265:LEU:HD11	3:J:330:MET:CE	2.20	0.46
3:J:390:LEU:HD12	3:J:390:LEU:H	1.80	0.46
3:J:572:THR:CG2	3:J:573:THR:N	2.78	0.46
3:J:666:GLU:HA	3:J:669:GLN:HB2	1.98	0.46
3:J:739:GLN:HB3	3:J:763:PHE:CE2	2.50	0.46
3:J:1240:VAL:O	3:J:1243:LEU:HB3	2.15	0.46
5:L:343:LYS:HE3	5:L:343:LYS:HB2	1.43	0.46
1:A:102:LEU:HD22	1:A:103:ASN:H	1.80	0.46
1:B:224:LEU:O	1:B:227:GLN:N	2.47	0.46
2:C:195:PHE:CD1	2:C:203:LYS:CD	2.99	0.46
2:C:243:PRO:CB	2:C:278:GLU:HG3	2.35	0.46
2:C:289:VAL:O	2:C:289:VAL:HG22	2.15	0.46
2:C:530:ILE:O	2:C:572:ILE:O	2.34	0.46
2:C:686:GLN:C	2:C:688:GLN:H	2.23	0.46
2:C:1109:ILE:HD11	3:D:644:MET:SD	2.55	0.46
2:C:1258:PRO:HB2	3:D:346:ARG:HB3	1.98	0.46
2:C:1272:GLU:HB2	3:D:342:LEU:CD1	2.27	0.46
2:C:1323:PHE:HD2	3:D:1352:ILE:HG22	1.79	0.46
3:D:146:VAL:O	3:D:147:ILE:HG23	2.16	0.46
3:D:232:ASN:HA	3:D:236:TRP:HZ3	1.80	0.46
3:D:478:LEU:HD21	4:E:47:THR:HG23	1.96	0.46
3:D:515:ARG:HG3	3:D:516:ASP:H	1.78	0.46
3:D:570:LYS:HE2	3:D:589:TYR:HB3	1.97	0.46
3:D:678:ARG:O	3:D:681:LYS:HB3	2.15	0.46
3:D:814:CYS:N	3:D:895:CYS:CB	2.77	0.46
3:D:1162:ILE:HG23	3:D:1178:THR:O	2.15	0.46
3:D:1330:ARG:O	3:D:1331:VAL:C	2.59	0.46
5:F:238:LYS:HD3	5:F:238:LYS:HA	1.75	0.46
5:F:343:LYS:HB2	5:F:343:LYS:HE3	1.37	0.46
5:F:575:GLU:N	5:F:578:LYS:HE3	2.31	0.46
5:F:587:ILE:HD12	5:F:590:ILE:CB	2.40	0.46
1:G:108:GLY:HA2	1:G:109:PRO:HD3	1.68	0.46
1:H:89:ALA:HB3	1:H:124:VAL:HG12	1.97	0.46
1:H:95:LYS:NZ	1:H:98:VAL:HG23	2.31	0.46
2:I:545:PHE:CE2	2:I:549:ASP:HB2	2.50	0.46
2:I:839:VAL:O	2:I:839:VAL:HG23	2.16	0.46
2:I:994:ARG:HA	2:I:997:TRP:CD2	2.51	0.46
3:J:41:PRO:HD2	3:J:42:GLU:OE1	2.16	0.46
3:J:99:ARG:HG3	3:J:249:LEU:CD2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:252:LEU:HD23	3:J:262:THR:OG1	2.15	0.46
3:J:382:TYR:CG	3:J:394:ILE:HD13	2.50	0.46
3:J:410:ASP:O	3:J:411:ILE:C	2.59	0.46
3:J:499:ILE:HD12	3:J:499:ILE:HA	1.58	0.46
3:J:613:GLY:O	3:J:616:PRO:HD2	2.15	0.46
3:J:762:ASN:OD1	3:J:765:GLU:HG3	2.15	0.46
3:J:1330:ARG:NH1	3:J:1330:ARG:HG2	2.31	0.46
3:J:1344:LEU:HD11	3:J:1355:ARG:NH1	2.30	0.46
5:L:224:LEU:HA	5:L:255:VAL:CG1	2.40	0.46
5:L:366:SER:O	5:L:369:GLU:HB2	2.16	0.46
5:L:540:LEU:HA	5:L:540:LEU:HD12	1.11	0.46
1:A:86:LYS:HG2	1:A:86:LYS:O	2.15	0.46
1:B:101:THR:O	1:B:116:THR:CG2	2.64	0.46
1:B:127:GLN:O	1:B:127:GLN:HG3	2.14	0.46
1:B:202:VAL:O	1:B:203:ILE:HD12	2.15	0.46
1:B:292:THR:O	1:B:294:ASN:N	2.48	0.46
2:C:388:LEU:HA	2:C:388:LEU:HD23	1.64	0.46
2:C:796:LEU:HD12	2:C:796:LEU:N	2.30	0.46
2:C:903:ARG:O	2:C:905:ILE:N	2.48	0.46
2:C:960:LEU:HD11	2:C:1028:LYS:NZ	2.31	0.46
2:C:1133:LYS:C	2:C:1135:GLN:H	2.23	0.46
2:C:1193:ALA:C	2:C:1195:ILE:N	2.73	0.46
2:C:1259:LEU:HG	2:C:1260:GLY:N	2.30	0.46
2:C:1287:LEU:HD22	3:D:1357:ILE:HD11	1.98	0.46
3:D:80:HIS:HB3	3:D:83:VAL:CG1	2.31	0.46
3:D:211:GLU:OE2	3:D:214:ARG:NH1	2.49	0.46
3:D:279:LEU:CB	3:D:295:GLU:HG2	2.43	0.46
3:D:603:LYS:O	3:D:607:THR:OG1	2.30	0.46
3:D:620:PHE:O	3:D:624:ILE:HG13	2.16	0.46
3:D:1157:ALA:HB3	3:D:1206:ARG:HA	1.96	0.46
4:E:25:ARG:HH11	4:E:64:LEU:HD12	1.81	0.46
5:F:144:LEU:HD12	5:F:144:LEU:O	2.16	0.46
5:F:233:ASP:C	5:F:235:ILE:H	2.23	0.46
1:G:64:VAL:HG11	1:G:78:ILE:HG13	1.97	0.46
1:G:77:ASP:O	1:G:78:ILE:C	2.58	0.46
2:I:49:LEU:O	2:I:50:GLU:C	2.57	0.46
2:I:131:THR:HG22	2:I:132:ASP:H	1.81	0.46
2:I:136:PHE:CE2	2:I:506:PHE:HE2	2.34	0.46
2:I:403:MET:HE3	2:I:403:MET:HB3	1.63	0.46
2:I:534:GLY:HA3	2:I:535:PRO:HD2	1.66	0.46
2:I:804:PHE:CE1	2:I:1098:LEU:HD23	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:972:PHE:HE2	2:I:998:LEU:HD11	1.76	0.46
2:I:1209:GLN:HG2	2:I:1225:VAL:C	2.41	0.46
3:J:132:LEU:HD22	3:J:132:LEU:HA	1.62	0.46
3:J:291:ILE:HG23	5:L:406:GLN:NE2	2.31	0.46
3:J:313:GLY:C	3:J:314:ARG:CG	2.88	0.46
3:J:368:LEU:HA	3:J:369:PRO:HD3	1.72	0.46
3:J:810:THR:CG2	3:J:894:VAL:H	2.28	0.46
3:J:921:GLN:O	3:J:924:GLY:N	2.46	0.46
3:J:1233:ILE:HG21	3:J:1257:VAL:CG2	2.45	0.46
3:J:1285:VAL:HG12	3:J:1286:LYS:HD3	1.97	0.46
3:J:1293:GLU:O	3:J:1294:ALA:C	2.59	0.46
3:J:1298:VAL:HG22	3:J:1298:VAL:O	2.15	0.46
5:L:276:MET:SD	5:L:347:ILE:HG23	2.56	0.46
5:L:511:ILE:HG23	5:L:512:GLY:H	1.80	0.46
1:A:33:ARG:C	1:A:35:PHE:N	2.72	0.46
1:A:57:THR:HG22	1:A:58:GLU:HG3	1.98	0.46
2:C:306:THR:OG1	2:C:308:GLU:HB2	2.16	0.46
2:C:314:ASN:O	2:C:314:ASN:ND2	2.48	0.46
2:C:521:LEU:HA	2:C:521:LEU:HD22	1.51	0.46
2:C:543:ALA:HB1	2:C:547:VAL:HG22	1.97	0.46
2:C:822:VAL:HG12	2:C:823:VAL:N	2.31	0.46
2:C:942:ASP:O	2:C:946:LEU:HD12	2.16	0.46
3:D:71:LEU:CB	3:D:90:VAL:HG21	2.46	0.46
3:D:567:THR:CG2	3:D:568:SER:N	2.79	0.46
3:D:850:LYS:HG3	3:D:855:ASP:CB	2.46	0.46
3:D:866:GLU:O	3:D:869:CYS:HB2	2.15	0.46
3:D:1171:GLY:O	3:D:1193:TRP:HZ3	1.99	0.46
3:D:1183:SER:HA	3:J:206:ASN:HD21	1.81	0.46
3:D:1184:ASP:N	3:D:1185:PRO:CD	2.76	0.46
3:D:1352:ILE:CD1	8:D:2004:4C4:C7	2.93	0.46
1:G:28:LEU:HD12	1:G:28:LEU:N	2.31	0.46
1:G:152:TYR:HA	1:G:175:ALA:O	2.16	0.46
1:G:219:ARG:O	1:G:222:THR:HB	2.15	0.46
1:H:47:LEU:HD12	1:H:183:ILE:CG2	2.45	0.46
1:H:60:GLU:C	1:H:61:ILE:HD13	2.41	0.46
2:I:45:GLY:O	2:I:51:ALA:HB2	2.16	0.46
2:I:174:ALA:O	2:I:186:PHE:N	2.44	0.46
2:I:179:TYR:O	2:I:179:TYR:CD1	2.69	0.46
2:I:272:ARG:O	2:I:276:GLN:HG3	2.15	0.46
2:I:297:VAL:HG12	2:I:315:MET:O	2.16	0.46
2:I:399:ALA:O	2:I:403:MET:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:739:ASP:OD1	2:I:739:ASP:N	2.47	0.46
2:I:798:GLN:HG3	2:I:828:PHE:CD1	2.51	0.46
2:I:885:GLY:HA2	2:I:917:SER:CB	2.42	0.46
2:I:1061:GLN:HB2	2:I:1062:PRO:HD2	1.98	0.46
2:I:1104:PRO:HB2	3:J:732:GLY:HA2	1.97	0.46
2:I:1120:ALA:HA	2:I:1204:LEU:HD12	1.97	0.46
3:J:147:ILE:HG22	3:J:188:LEU:HG	1.98	0.46
3:J:154:LEU:HD12	3:J:154:LEU:N	2.31	0.46
3:J:812:ASP:HB2	3:J:911:LYS:HE3	1.97	0.46
3:J:903:LEU:CD2	3:J:905:ARG:HG3	2.46	0.46
3:J:917:VAL:O	3:J:920:ALA:N	2.49	0.46
3:J:1167:LYS:HD3	3:J:1174:ARG:HH11	1.80	0.46
3:J:1332:LEU:HD22	3:J:1332:LEU:N	2.29	0.46
4:K:56:GLU:HB2	4:K:58:LEU:HG	1.98	0.46
4:K:58:LEU:CD1	4:K:59:ILE:HG12	2.46	0.46
5:L:223:GLU:O	5:L:226:ALA:HB3	2.16	0.46
5:L:466:ILE:HD12	5:L:487:MET:HE1	1.98	0.46
1:A:46:ILE:HD13	1:A:46:ILE:N	2.31	0.46
1:A:78:ILE:O	1:A:81:ILE:N	2.49	0.46
1:A:156:SER:C	1:A:158:ARG:N	2.71	0.46
1:B:38:THR:HG23	1:B:39:LEU:N	2.31	0.46
1:B:82:LEU:HA	1:B:82:LEU:HD23	1.60	0.46
1:B:101:THR:HA	1:B:143:ARG:HA	1.97	0.46
1:B:208:ASN:CG	1:B:210:THR:HG23	2.41	0.46
1:B:286:GLU:CD	1:B:304:LYS:HD3	2.41	0.46
2:C:169:LYS:CE	2:C:190:PRO:HA	2.44	0.46
2:C:180:ARG:HG2	2:C:181:GLY:N	2.30	0.46
2:C:325:LEU:O	2:C:330:HIS:HB2	2.15	0.46
2:C:358:ASP:OD1	2:C:360:LEU:N	2.48	0.46
2:C:363:LEU:O	2:C:381:ALA:HB1	2.15	0.46
2:C:519:ASN:HD22	2:C:689:ALA:C	2.11	0.46
2:C:562:GLU:OE2	2:C:662:SER:HB2	2.15	0.46
2:C:582:ASN:CB	2:C:586:PHE:N	2.79	0.46
2:C:698:PRO:HA	2:C:1231:TYR:CD1	2.51	0.46
2:C:809:GLY:HA2	3:D:629:PHE:CE1	2.51	0.46
2:C:1043:ALA:O	2:C:1046:VAL:CG1	2.64	0.46
2:C:1078:LYS:CG	2:C:1079:ILE:N	2.78	0.46
3:D:24:LEU:HD22	3:D:24:LEU:N	2.31	0.46
3:D:120:LEU:HD13	3:D:120:LEU:C	2.41	0.46
3:D:224:LEU:HD12	3:D:224:LEU:H	1.81	0.46
3:D:369:PRO:O	3:D:370:LYS:C	2.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:697:MET:O	3:D:701:LEU:N	2.28	0.46
3:D:824:PRO:HB3	3:D:835:LEU:CB	2.44	0.46
3:D:856:ILE:O	3:D:856:ILE:HG22	2.16	0.46
5:F:433:TRP:HZ3	5:F:434:TRP:CZ2	2.33	0.46
1:G:102:LEU:HB3	1:G:142:MET:HG2	1.97	0.46
2:I:14:ASP:OD1	2:I:15:PHE:N	2.49	0.46
2:I:210:LEU:CB	2:I:220:ILE:HD11	2.46	0.46
2:I:1080:ASN:OD1	2:I:1081:PRO:HD3	2.16	0.46
2:I:1142:ARG:HH12	2:I:1165:SER:CA	2.14	0.46
2:I:1214:ASP:OD1	2:I:1214:ASP:C	2.59	0.46
2:I:1328:LYS:O	3:J:245:LEU:HD12	2.16	0.46
3:J:394:ILE:HD12	3:J:394:ILE:C	2.41	0.46
3:J:478:LEU:CD1	4:K:24:ALA:HA	2.46	0.46
3:J:527:LEU:N	3:J:527:LEU:HD12	2.30	0.46
3:J:707:ILE:CG2	3:J:708:ASN:H	2.16	0.46
3:J:1318:SER:CA	3:J:1342:ASP:OD2	2.60	0.46
4:K:58:LEU:HD12	4:K:59:ILE:HG12	1.97	0.46
1:A:56:VAL:HG23	1:A:57:THR:N	2.31	0.46
1:A:153:VAL:HB	1:A:175:ALA:HB3	1.98	0.46
1:B:88:LEU:HD13	1:B:88:LEU:HA	1.82	0.46
1:B:107:ILE:HG12	1:B:135:ASP:CA	2.32	0.46
1:B:311:GLY:C	1:B:312:LEU:HD12	2.41	0.46
2:C:15:PHE:CD2	2:C:1190:ALA:HB2	2.50	0.46
2:C:478:ARG:HH12	2:C:482:GLY:N	2.13	0.46
2:C:516:ASP:C	2:C:518:ASN:OD1	2.58	0.46
2:C:705:GLU:H	2:C:705:GLU:CD	2.24	0.46
2:C:1033:ARG:NH1	2:C:1033:ARG:CG	2.79	0.46
2:C:1287:LEU:HD23	2:C:1287:LEU:C	2.40	0.46
3:D:31:ARG:CZ	3:D:241:VAL:HG21	2.45	0.46
3:D:123:ARG:HB3	3:D:237:MET:HE1	1.97	0.46
3:D:270:ARG:HH21	5:F:449:THR:HG23	1.77	0.46
3:D:279:LEU:HB2	3:D:295:GLU:CG	2.43	0.46
3:D:289:ASP:O	3:D:293:ARG:HG3	2.16	0.46
3:D:423:LEU:CD1	3:D:468:VAL:CG1	2.93	0.46
3:D:514:THR:OG1	3:D:596:LEU:CD2	2.63	0.46
3:D:648:GLU:HG3	3:D:649:LYS:HG2	1.98	0.46
3:D:825:VAL:HG21	3:D:832:LYS:HB3	1.98	0.46
3:D:833:GLU:HA	3:D:834:PRO:HD3	1.84	0.46
3:D:1238:GLN:HB3	3:D:1242:ARG:NH2	2.24	0.46
3:D:1375:ALA:CB	3:J:853:THR:HG21	2.45	0.46
4:E:41:GLU:C	4:E:43:ASN:H	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:244:THR:O	5:F:247:GLU:HB2	2.16	0.46
5:F:387:VAL:HG11	5:F:409:ASN:OD1	2.16	0.46
1:G:19:VAL:HG22	1:G:20:SER:N	2.30	0.46
1:G:231:PHE:HB2	1:H:218:ARG:HD3	1.97	0.46
1:H:15:ASP:HB3	1:H:27:THR:OG1	2.16	0.46
1:H:133:LEU:HD21	1:H:140:ILE:HG22	1.98	0.46
1:H:153:VAL:CG2	1:H:177:TYR:HE2	2.29	0.46
2:I:159:SER:HA	2:I:172:TYR:CD1	2.49	0.46
2:I:519:ASN:C	2:I:519:ASN:OD1	2.58	0.46
2:I:599:VAL:HG21	2:I:623:LEU:HD22	1.98	0.46
2:I:805:MET:HE1	2:I:1221:PHE:CG	2.51	0.46
2:I:1170:MET:HE3	2:I:1170:MET:CA	2.47	0.46
3:J:298:MET:HB2	3:J:298:MET:HE2	1.63	0.46
3:J:709:ARG:C	3:J:711:GLY:N	2.73	0.46
3:J:737:ILE:O	3:J:740:LEU:N	2.22	0.46
3:J:802:ASP:CG	3:J:1325:PHE:CD1	2.94	0.46
3:J:812:ASP:CB	3:J:911:LYS:HE3	2.46	0.46
3:J:1137:GLY:O	3:J:1140:ARG:HB3	2.16	0.46
5:L:366:SER:HB3	5:L:367:ILE:HD13	1.98	0.46
5:L:572:THR:OG1	5:L:574:GLU:HG2	2.16	0.46
1:B:223:ILE:O	1:B:227:GLN:HG2	2.16	0.45
2:C:82:VAL:HG22	2:C:92:TYR:CE1	2.51	0.45
2:C:150:HIS:CE1	2:C:454:ARG:CD	2.98	0.45
2:C:169:LYS:HG2	2:C:170:VAL:O	2.15	0.45
2:C:385:PHE:CE2	2:C:390:PHE:HE2	2.34	0.45
2:C:706:ARG:HG3	2:C:793:GLU:CG	2.39	0.45
2:C:822:VAL:HG23	2:C:1095:ASP:HB3	1.98	0.45
2:C:867:GLU:H	2:C:867:GLU:HG3	1.53	0.45
2:C:974:ARG:HD2	2:C:1014:LEU:HD21	1.98	0.45
2:C:1142:ARG:NH2	2:C:1165:SER:HA	2.29	0.45
2:C:1236:ASN:O	2:C:1236:ASN:CG	2.59	0.45
2:C:1331:ARG:HA	2:C:1335:ILE:O	2.16	0.45
2:C:1336:ASN:OD1	2:C:1336:ASN:C	2.59	0.45
3:D:81:ARG:H	3:D:81:ARG:HG2	1.48	0.45
3:D:193:ASP:O	3:D:196:GLN:HB2	2.16	0.45
3:D:510:LEU:HA	3:D:510:LEU:HD12	1.49	0.45
3:D:515:ARG:CZ	3:D:719:PHE:CE2	2.96	0.45
5:F:306:PHE:CZ	5:F:310:GLU:HA	2.51	0.45
5:F:474:MET:C	5:F:476:ARG:N	2.74	0.45
1:G:14:VAL:CG1	1:G:27:THR:HB	2.38	0.45
1:H:19:VAL:O	1:H:20:SER:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:89:ALA:HB1	1:H:210:THR:CG2	2.46	0.45
2:I:262:TYR:HE1	2:I:280:ASP:OD2	1.98	0.45
2:I:403:MET:HE1	2:I:404:LYS:HD2	1.98	0.45
2:I:557:ARG:HH21	2:I:607:SER:C	2.23	0.45
2:I:805:MET:HA	2:I:1100:PRO:HG3	1.98	0.45
2:I:1209:GLN:HB3	2:I:1224:PRO:HB2	1.98	0.45
3:J:117:LEU:HD23	3:J:118:LYS:HD3	1.98	0.45
3:J:419:HIS:CE1	3:J:477:GLN:OE1	2.69	0.45
3:J:536:LEU:HD12	3:J:542:ALA:H	1.80	0.45
3:J:674:THR:CB	3:J:677:GLU:HB2	2.46	0.45
3:J:903:LEU:HD21	3:J:909:ILE:HD12	1.98	0.45
3:J:1229:VAL:HG13	3:J:1230:THR:H	1.81	0.45
3:J:1374:ALA:O	3:J:1375:ALA:HB2	2.17	0.45
5:L:353:LEU:HB2	5:L:358:VAL:CG1	2.46	0.45
1:B:63:GLY:N	1:B:71:LYS:HZ1	2.14	0.45
1:B:100:LEU:HD11	1:B:118:ASP:OD2	2.17	0.45
1:B:151:GLY:CA	1:B:177:TYR:HB2	2.46	0.45
1:B:208:ASN:HD21	1:B:210:THR:CG2	2.30	0.45
2:C:74:ARG:NH1	2:C:121:GLU:CD	2.75	0.45
2:C:247:ARG:HB2	2:C:274:ILE:CD1	2.46	0.45
2:C:277:LEU:CA	2:C:280:ASP:HB2	2.45	0.45
2:C:279:LYS:HE3	2:C:279:LYS:HB3	1.76	0.45
2:C:404:LYS:HD2	2:C:404:LYS:HA	1.49	0.45
2:C:421:SER:O	2:C:424:ASP:HB2	2.16	0.45
2:C:714:VAL:HG23	2:C:715:THR:N	2.32	0.45
2:C:815:SER:CB	2:C:1077:SER:OG	2.59	0.45
2:C:1018:TYR:CD2	2:C:1018:TYR:C	2.94	0.45
2:C:1122:LYS:CG	2:C:1229:TYR:CE1	2.95	0.45
2:C:1156:ARG:CB	2:C:1156:ARG:NH1	2.79	0.45
2:C:1210:ILE:O	2:C:1224:PRO:CA	2.64	0.45
2:C:1291:LEU:HB2	3:D:345:LYS:HD2	1.97	0.45
3:D:23:ALA:HA	3:D:1336:ALA:O	2.16	0.45
3:D:202:ARG:O	3:D:205:LEU:HB3	2.16	0.45
3:D:375:GLU:OE2	3:D:378:LYS:HD2	2.16	0.45
3:D:399:LYS:NZ	5:F:609:SER:HB2	2.31	0.45
3:D:522:GLY:O	3:D:523:GLU:C	2.59	0.45
3:D:659:ALA:O	3:D:660:GLU:C	2.59	0.45
3:D:1340:LYS:HG2	3:D:1341:ARG:H	1.81	0.45
4:E:59:ILE:HG23	4:E:64:LEU:CD2	2.46	0.45
5:F:454:VAL:O	5:F:455:HIS:C	2.59	0.45
1:G:233:ASP:C	1:H:13:LEU:HD11	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:137:ASN:O	1:H:138:ALA:HB3	2.16	0.45
2:I:43:PRO:O	2:I:44:GLU:HB3	2.15	0.45
2:I:150:HIS:NE2	2:I:452:ARG:HD3	2.30	0.45
2:I:189:ASP:CB	2:I:190:PRO:HD2	2.47	0.45
2:I:295:LYS:O	2:I:317:LEU:HG	2.16	0.45
2:I:371:ARG:O	2:I:374:GLU:HG3	2.15	0.45
2:I:375:PRO:HA	2:I:376:PRO:HD3	1.88	0.45
2:I:389:PHE:CD1	2:I:395:TYR:HE1	2.34	0.45
2:I:540:ARG:NH2	2:I:568:ASN:ND2	2.65	0.45
2:I:834:GLN:HE21	2:I:1056:VAL:HG21	1.82	0.45
2:I:896:THR:OG1	2:I:899:GLU:OE2	2.24	0.45
2:I:1101:LEU:HD13	3:J:730:ALA:HB1	1.98	0.45
2:I:1290:MET:HE1	2:I:1294:LYS:NZ	2.31	0.45
3:J:106:GLU:OE2	3:J:241:VAL:HG13	2.17	0.45
3:J:146:VAL:HG11	3:J:155:GLU:O	2.16	0.45
3:J:181:GLY:O	3:J:183:GLU:N	2.48	0.45
3:J:184:ALA:O	3:J:187:ALA:HB3	2.16	0.45
3:J:396:ALA:O	3:J:400:MET:HG3	2.16	0.45
3:J:432:LEU:C	3:J:434:ILE:H	2.23	0.45
3:J:903:LEU:HD11	3:J:909:ILE:HD11	1.98	0.45
5:L:573:LEU:CD2	5:L:573:LEU:N	2.80	0.45
5:L:601:PRO:C	5:L:603:ARG:N	2.74	0.45
1:A:33:ARG:C	1:A:35:PHE:H	2.24	0.45
1:A:162:GLU:HG2	1:A:165:GLU:H	1.82	0.45
1:B:10:LYS:CG	1:B:11:PRO:HD2	2.46	0.45
1:B:44:ARG:O	1:B:46:ILE:N	2.49	0.45
1:B:59:VAL:HG21	1:B:144:ILE:HD11	1.96	0.45
2:C:324:LYS:C	2:C:327:GLN:HG3	2.41	0.45
2:C:593:LYS:HG3	2:C:595:THR:HG23	1.98	0.45
2:C:614:TYR:CE1	2:C:652:TYR:HE1	2.35	0.45
2:C:1222:GLU:O	2:C:1223:ARG:HB2	2.17	0.45
3:D:59:ALA:O	3:D:60:ARG:C	2.58	0.45
3:D:299:LEU:O	3:D:301:GLU:N	2.49	0.45
3:D:674:THR:CG2	3:D:677:GLU:HB2	2.46	0.45
3:D:822:MET:SD	3:D:838:ARG:HB3	2.57	0.45
3:D:825:VAL:HG12	3:D:838:ARG:HH11	1.81	0.45
3:D:1175:LEU:N	3:D:1188:GLU:O	2.42	0.45
5:F:289:LYS:HE2	5:F:289:LYS:HB3	1.80	0.45
5:F:595:LEU:O	5:F:598:LEU:HD23	2.15	0.45
1:G:225:ALA:HB2	1:H:228:LEU:HD13	1.97	0.45
1:H:58:GLU:OE2	1:H:145:LYS:HD3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:61:ILE:HG12	1:H:171:LEU:HD12	1.97	0.45
1:H:89:ALA:HB1	1:H:210:THR:HG22	1.98	0.45
2:I:18:ARG:HA	2:I:19:PRO:HD3	1.65	0.45
2:I:32:LEU:HD23	2:I:32:LEU:HA	1.56	0.45
2:I:189:ASP:HB2	2:I:190:PRO:CD	2.46	0.45
2:I:194:LEU:HD12	2:I:195:PHE:H	1.81	0.45
2:I:327:GLN:CD	2:I:328:SER:N	2.75	0.45
2:I:582:ASN:HB2	2:I:586:PHE:O	2.16	0.45
2:I:782:VAL:HG11	2:I:792:GLY:CA	2.47	0.45
2:I:807:TRP:O	2:I:808:ASN:HB2	2.15	0.45
2:I:1122:LYS:HG2	2:I:1229:TYR:CE1	2.51	0.45
2:I:1152:GLY:O	2:I:1153:ALA:HB2	2.16	0.45
2:I:1293:VAL:HG22	2:I:1300:GLY:HA3	1.98	0.45
3:J:327:LEU:HA	3:J:330:MET:HE2	1.97	0.45
3:J:327:LEU:C	3:J:329:ASP:N	2.75	0.45
3:J:508:LEU:O	3:J:508:LEU:HG	2.14	0.45
3:J:568:SER:OG	3:J:570:LYS:NZ	2.47	0.45
3:J:660:GLU:O	3:J:664:ILE:HG12	2.16	0.45
3:J:825:VAL:HG22	3:J:832:LYS:H	1.81	0.45
3:J:842:ARG:NH2	3:J:884:SER:HB2	2.31	0.45
3:J:872:LEU:HD23	3:J:872:LEU:HA	1.80	0.45
3:J:1174:ARG:HG2	3:J:1189:MET:HG2	1.98	0.45
4:K:32:VAL:C	4:K:34:GLY:H	2.24	0.45
5:L:224:LEU:O	5:L:228:TYR:N	2.49	0.45
5:L:353:LEU:HB2	5:L:358:VAL:HG12	1.98	0.45
5:L:414:LYS:HE3	5:L:434:TRP:CE3	2.51	0.45
5:L:491:GLU:O	5:L:494:ILE:N	2.50	0.45
1:A:207:THR:CG2	1:A:208:ASN:N	2.79	0.45
1:B:59:VAL:HG22	1:B:144:ILE:HD11	1.98	0.45
1:B:62:ASP:OD1	1:B:142:MET:HE1	2.16	0.45
1:B:125:LYS:O	1:B:128:HIS:CB	2.65	0.45
2:C:195:PHE:CG	2:C:203:LYS:HD3	2.52	0.45
2:C:322:LEU:HA	2:C:322:LEU:HD23	1.51	0.45
2:C:480:SER:CB	2:C:481:LEU:HD13	2.47	0.45
2:C:519:ASN:O	2:C:522:SER:HB3	2.16	0.45
2:C:557:ARG:HE	2:C:608:ALA:HA	1.81	0.45
2:C:598:VAL:HG13	2:C:627:GLY:O	2.16	0.45
2:C:706:ARG:HG2	2:C:706:ARG:NH1	2.32	0.45
2:C:979:LEU:CD1	2:C:1011:LEU:HD11	2.44	0.45
2:C:1036:ILE:HG22	2:C:1037:THR:N	2.31	0.45
2:C:1107:MET:HE1	3:D:739:GLN:NE2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1235:LEU:HA	2:C:1235:LEU:HD23	0.98	0.45
2:C:1293:VAL:HG13	2:C:1301:ARG:N	2.31	0.45
3:D:85:CYS:SG	3:D:87:LYS:N	2.90	0.45
3:D:97:VAL:O	3:D:100:GLU:N	2.23	0.45
3:D:185:ILE:HA	3:D:188:LEU:HB2	1.97	0.45
3:D:278:ARG:NH1	3:D:298:MET:HE1	2.31	0.45
3:D:385:LEU:HD23	3:D:385:LEU:HA	1.68	0.45
3:D:510:LEU:O	3:D:511:TYR:C	2.58	0.45
3:D:519:ASN:CG	3:D:709:ARG:HD3	2.42	0.45
4:E:38:LEU:HD22	4:E:59:ILE:HD11	1.97	0.45
4:E:88:GLU:OE2	4:E:88:GLU:CA	2.63	0.45
5:F:227:GLN:HG3	5:F:252:LEU:HB2	1.98	0.45
5:F:355:ILE:O	5:F:358:VAL:HG22	2.16	0.45
5:F:445:ASP:HB2	5:F:451:ARG:NH2	2.32	0.45
5:F:562:ARG:CZ	5:F:573:LEU:CB	2.85	0.45
5:F:595:LEU:N	5:F:595:LEU:CD2	2.76	0.45
5:F:601:PRO:C	5:F:603:ARG:H	2.23	0.45
1:G:13:LEU:HG	1:G:13:LEU:O	2.17	0.45
1:G:155:ALA:CA	1:G:158:ARG:HG3	2.47	0.45
2:I:3:TYR:CE2	2:I:1158:LYS:HE2	2.52	0.45
2:I:124:MET:HG3	2:I:124:MET:O	2.16	0.45
2:I:545:PHE:CD1	2:I:548:ARG:HB2	2.51	0.45
2:I:559:CYS:HA	2:I:560:PRO:HD3	1.71	0.45
2:I:567:PRO:HD2	2:I:568:ASN:H	1.81	0.45
2:I:673:HIS:CE1	3:J:765:GLU:C	2.94	0.45
2:I:739:ASP:OD2	2:I:740:GLU:HG3	2.16	0.45
2:I:790:ASP:N	2:I:793:GLU:O	2.49	0.45
2:I:1220:GLN:HG2	2:I:1221:PHE:N	2.31	0.45
3:J:54:ASP:HB3	3:J:60:ARG:HH11	1.82	0.45
3:J:102:MET:HB3	3:J:244:VAL:O	2.15	0.45
3:J:132:LEU:HD11	3:J:136:GLU:CG	2.37	0.45
3:J:341:ASN:OD1	3:J:342:LEU:N	2.48	0.45
3:J:645:VAL:O	3:J:741:ALA:CB	2.64	0.45
3:J:709:ARG:HG3	3:J:710:ASP:OD2	2.17	0.45
3:J:1327:GLU:O	3:J:1328:THR:C	2.60	0.45
5:L:549:ALA:C	5:L:551:LEU:H	2.25	0.45
5:L:552:THR:O	5:L:555:GLU:N	2.49	0.45
1:A:56:VAL:CG2	1:A:57:THR:N	2.78	0.45
1:A:152:TYR:HD1	2:C:824:GLN:CD	2.24	0.45
1:A:224:LEU:CD1	1:A:224:LEU:C	2.90	0.45
1:B:89:ALA:CB	1:B:124:VAL:N	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:292:THR:HB	1:B:295:LEU:HB3	1.96	0.45
2:C:155:VAL:HG23	2:C:176:ILE:CG1	2.46	0.45
2:C:250:THR:HG23	2:C:268:ARG:CA	2.46	0.45
2:C:250:THR:HG23	2:C:268:ARG:HA	1.98	0.45
2:C:614:TYR:CD1	2:C:652:TYR:CE1	3.05	0.45
2:C:820:GLU:O	2:C:823:VAL:HG13	2.17	0.45
2:C:967:LEU:HA	2:C:967:LEU:HD12	1.13	0.45
2:C:975:ILE:O	2:C:978:VAL:HB	2.16	0.45
2:C:1101:LEU:HD23	2:C:1101:LEU:HA	1.58	0.45
2:C:1121:ALA:HB2	2:C:1182:ILE:CD1	2.46	0.45
2:C:1222:GLU:O	2:C:1223:ARG:CB	2.64	0.45
3:D:139:LEU:HA	3:D:139:LEU:HD23	1.46	0.45
3:D:253:VAL:O	3:D:260:PHE:HD2	2.00	0.45
3:D:573:THR:HG23	3:D:576:ARG:HG3	1.99	0.45
3:D:640:GLY:O	3:D:641:ILE:C	2.58	0.45
3:D:672:LEU:HD12	3:D:672:LEU:N	2.32	0.45
3:D:678:ARG:O	3:D:679:TYR:C	2.60	0.45
3:D:679:TYR:CD2	3:D:680:ASN:N	2.84	0.45
3:D:890:THR:HG21	3:D:894:VAL:CA	2.47	0.45
3:D:1187:GLU:HG3	3:D:1187:GLU:O	2.15	0.45
3:D:1226:VAL:HA	3:D:1229:VAL:HG12	1.99	0.45
3:D:1353:VAL:O	3:D:1353:VAL:HG22	2.16	0.45
5:F:295:CYS:HA	5:F:329:LYS:CB	2.47	0.45
5:F:392:LYS:O	5:F:395:THR:CG2	2.65	0.45
5:F:394:TYR:HB2	5:F:404:LEU:CD2	2.47	0.45
5:F:428:SER:C	5:F:430:TYR:H	2.25	0.45
5:F:470:MET:HE2	5:F:483:LEU:HD12	1.99	0.45
5:F:587:ILE:CD1	5:F:590:ILE:HB	2.41	0.45
1:G:61:ILE:HG23	1:G:142:MET:HB3	1.98	0.45
1:H:42:ALA:C	1:H:45:ARG:HG3	2.41	0.45
1:H:81:ILE:HA	1:H:84:ASN:OD1	2.16	0.45
2:I:198:ILE:O	2:I:201:ARG:HB2	2.17	0.45
2:I:262:TYR:O	2:I:263:VAL:HG23	2.16	0.45
2:I:519:ASN:ND2	2:I:796:LEU:HD23	2.16	0.45
2:I:981:ALA:O	2:I:1002:LEU:HD11	2.16	0.45
2:I:1024:GLU:O	2:I:1027:LYS:HG3	2.17	0.45
2:I:1053:TYR:N	2:I:1053:TYR:CD1	2.84	0.45
2:I:1077:SER:HB3	3:J:356:THR:OG1	2.16	0.45
2:I:1326:LEU:HD11	3:J:331:ILE:HG23	1.98	0.45
2:I:1329:GLU:HA	3:J:245:LEU:HD12	1.95	0.45
3:J:355:ILE:HG12	3:J:464:ASP:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:474:LEU:O	3:J:475:GLU:C	2.58	0.45
5:L:139:GLU:C	5:L:141:ILE:N	2.70	0.45
5:L:477:GLU:HA	5:L:478:PRO:HD3	1.70	0.45
5:L:595:LEU:HD23	5:L:595:LEU:H	1.82	0.45
1:A:124:VAL:HG21	1:A:209:GLY:C	2.41	0.45
1:A:153:VAL:O	1:A:175:ALA:N	2.47	0.45
1:B:55:ALA:HB2	1:B:176:CYS:C	2.40	0.45
1:B:175:ALA:HB1	1:B:177:TYR:CZ	2.52	0.45
1:B:212:ASP:HB2	1:B:213:PRO:CD	2.47	0.45
2:C:27:LEU:HA	2:C:528:ARG:HH12	1.81	0.45
2:C:243:PRO:O	2:C:246:LEU:HD12	2.17	0.45
2:C:243:PRO:HG2	2:C:278:GLU:HA	1.99	0.45
2:C:857:VAL:CG2	2:C:862:LEU:HD21	2.46	0.45
2:C:896:THR:CB	2:C:897:PRO:HD2	2.46	0.45
2:C:959:ASP:O	2:C:962:GLU:HB2	2.16	0.45
2:C:1281:TYR:HD2	3:D:431:ARG:HD2	1.77	0.45
3:D:120:LEU:HA	3:D:120:LEU:HD22	1.46	0.45
3:D:256:ASP:C	3:D:258:GLY:N	2.69	0.45
3:D:314:ARG:NH1	3:D:314:ARG:HB3	2.31	0.45
3:D:615:LYS:H	3:D:615:LYS:HG3	1.45	0.45
3:D:1165:PHE:CD2	3:D:1175:LEU:CD1	2.96	0.45
3:D:1310:THR:HG23	3:D:1311:LYS:N	2.32	0.45
3:D:1340:LYS:HG2	3:D:1341:ARG:O	2.17	0.45
4:E:50:ALA:O	4:E:53:GLU:HB2	2.17	0.45
5:F:121:LYS:HE2	5:F:421:TYR:CZ	2.51	0.45
5:F:124:GLU:O	5:F:128:ASN:ND2	2.47	0.45
5:F:141:ILE:O	5:F:144:LEU:N	2.50	0.45
1:G:41:ASN:HB2	2:I:1218:GLY:HA3	1.99	0.45
1:G:167:PRO:O	1:G:170:ARG:HB2	2.17	0.45
1:G:224:LEU:HD23	1:G:224:LEU:O	2.17	0.45
2:I:82:VAL:HG22	2:I:92:TYR:CD1	2.52	0.45
2:I:159:SER:O	2:I:160:ASP:CB	2.63	0.45
2:I:600:THR:HG22	2:I:601:ASP:H	1.81	0.45
2:I:676:ALA:HA	2:I:679:ALA:CB	2.47	0.45
2:I:1294:LYS:HD3	3:J:472:LEU:CD1	2.47	0.45
2:I:1323:PHE:CE1	2:I:1327:LEU:HD11	2.51	0.45
3:J:408:VAL:HG23	3:J:409:TRP:N	2.32	0.45
3:J:515:ARG:HG3	3:J:516:ASP:H	1.82	0.45
3:J:551:ARG:HA	3:J:568:SER:O	2.17	0.45
3:J:674:THR:CG2	3:J:677:GLU:HB2	2.47	0.45
3:J:808:VAL:O	3:J:810:THR:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1313:SER:C	3:J:1315:ALA:N	2.73	0.45
3:J:1322:ALA:HA	3:J:1325:PHE:HD2	1.77	0.45
4:K:10:VAL:HA	4:K:13:ILE:O	2.16	0.45
5:L:459:THR:O	5:L:463:LEU:HD22	2.16	0.45
1:B:19:VAL:O	1:B:20:SER:HB3	2.17	0.45
1:B:63:GLY:HA3	1:B:71:LYS:NZ	2.31	0.45
1:B:130:ILE:O	1:B:131:CYS:HB3	2.17	0.45
1:B:208:ASN:OD1	1:B:210:THR:N	2.50	0.45
2:C:32:LEU:HA	2:C:32:LEU:HD23	1.07	0.45
2:C:129:LEU:HD12	2:C:129:LEU:N	2.31	0.45
2:C:262:TYR:OH	2:C:282:VAL:HG21	2.16	0.45
2:C:359:ARG:HH12	2:C:378:ARG:HH22	1.65	0.45
2:C:480:SER:OG	2:C:481:LEU:HD13	2.17	0.45
2:C:607:SER:O	2:C:608:ALA:C	2.59	0.45
2:C:743:PRO:HG2	2:C:744:GLY:H	1.81	0.45
2:C:801:ARG:HD2	2:C:1229:TYR:OH	2.17	0.45
2:C:1193:ALA:O	2:C:1196:LYS:N	2.50	0.45
2:C:1280:ALA:HB3	3:D:431:ARG:CB	2.36	0.45
3:D:581:MET:HE2	3:D:581:MET:HB3	1.85	0.45
3:D:703:THR:C	3:D:705:THR:N	2.74	0.45
3:D:726:ALA:HA	3:D:731:ARG:O	2.17	0.45
3:D:919:ALA:O	3:D:920:ALA:C	2.59	0.45
3:D:1216:ALA:HB3	3:D:1219:ASP:OD2	2.16	0.45
3:D:1262:ARG:NH2	3:D:1312:ALA:C	2.74	0.45
3:D:1280:VAL:CG1	3:D:1284:ARG:HE	2.30	0.45
3:D:1307:LEU:HD12	3:D:1308:GLY:N	2.31	0.45
4:E:15:ASN:HB3	4:E:18:ASP:H	1.82	0.45
5:F:295:CYS:CB	5:F:329:LYS:HB2	2.46	0.45
5:F:547:VAL:HG12	5:F:548:LEU:HD23	1.99	0.45
1:G:67:GLU:HG3	1:G:68:TYR:CE2	2.52	0.45
1:G:218:ARG:HD3	1:H:233:ASP:C	2.42	0.45
2:I:397:LEU:O	2:I:398:SER:OG	2.28	0.45
2:I:673:HIS:ND1	3:J:765:GLU:O	2.50	0.45
2:I:989:LEU:CD1	2:I:1000:LEU:HD12	2.44	0.45
2:I:1075:VAL:HG21	3:J:463:GLY:HA2	1.96	0.45
2:I:1211:ARG:HE	2:I:1220:GLN:HE22	1.63	0.45
3:J:385:LEU:HA	3:J:385:LEU:HD23	1.53	0.45
3:J:610:ARG:HG3	3:J:866:GLU:OE2	2.16	0.45
3:J:1293:GLU:HB3	3:J:1294:ALA:H	1.39	0.45
3:J:1308:GLY:O	3:J:1311:LYS:N	2.50	0.45
5:L:243:ALA:O	5:L:246:GLN:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:374:ARG:HH11	5:L:374:ARG:HG3	1.82	0.45
5:L:592:ALA:O	5:L:596:ARG:HG2	2.17	0.45
1:B:50:SER:O	1:B:51:MET:HB2	2.16	0.45
1:B:70:THR:OG1	1:B:71:LYS:N	2.49	0.45
2:C:471:VAL:O	2:C:475:VAL:HG23	2.16	0.45
2:C:484:LEU:O	2:C:486:THR:HG22	2.17	0.45
2:C:593:LYS:CA	2:C:652:TYR:CE2	2.97	0.45
2:C:616:ILE:HD12	2:C:616:ILE:N	2.32	0.45
2:C:858:GLY:O	2:C:861:ALA:HB3	2.17	0.45
2:C:1070:HIS:CD2	2:C:1111:GLN:HA	2.52	0.45
3:D:48:THR:C	3:D:50:LYS:H	2.19	0.45
3:D:87:LYS:N	3:D:87:LYS:HD2	2.32	0.45
3:D:155:GLU:HB2	3:D:158:GLN:HB2	1.99	0.45
3:D:259:ARG:NH1	5:F:502:LYS:HD3	2.32	0.45
3:D:473:THR:OG1	3:D:475:GLU:N	2.50	0.45
3:D:537:TYR:CE2	3:D:544:LEU:HD23	2.51	0.45
3:D:579:LEU:HD12	3:D:579:LEU:HA	1.49	0.45
3:D:1249:ASN:OD1	3:D:1249:ASN:C	2.59	0.45
5:F:365:MET:O	5:F:369:GLU:N	2.35	0.45
5:F:401:PHE:O	5:F:403:ASP:N	2.50	0.45
5:F:532:LEU:O	5:F:536:THR:CG2	2.61	0.45
5:F:608:ARG:HG2	5:F:609:SER:N	2.32	0.45
1:G:57:THR:HG21	1:G:147:GLN:OE1	2.16	0.45
1:H:121:VAL:O	1:H:121:VAL:HG12	2.16	0.45
2:I:49:LEU:HD12	2:I:73:TYR:CE2	2.52	0.45
2:I:59:ILE:CD1	2:I:472:GLU:HG3	2.42	0.45
2:I:99:LYS:O	2:I:100:LEU:HD23	2.16	0.45
2:I:130:MET:HA	2:I:136:PHE:HD1	1.79	0.45
2:I:468:LEU:O	2:I:471:VAL:N	2.46	0.45
2:I:486:THR:HG23	2:I:487:LEU:H	1.82	0.45
2:I:550:VAL:HG11	3:J:776:THR:HG22	1.98	0.45
2:I:672:GLU:CG	2:I:1187:PHE:HD2	2.30	0.45
2:I:796:LEU:HB2	2:I:1233:LEU:CD1	2.47	0.45
2:I:811:ASN:O	2:I:1099:ASN:HB2	2.16	0.45
2:I:827:ARG:HE	2:I:827:ARG:HB2	1.41	0.45
2:I:841:ARG:NH1	2:I:841:ARG:HG3	2.32	0.45
2:I:1120:ALA:CB	2:I:1199:LEU:HD23	2.46	0.45
2:I:1213:TYR:CD1	2:I:1220:GLN:HA	2.50	0.45
3:J:156:ARG:NH1	3:J:157:GLN:HE21	2.10	0.45
3:J:215:LYS:CE	3:J:216:LYS:HG3	2.46	0.45
3:J:252:LEU:HD23	3:J:252:LEU:HA	1.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:262:THR:O	5:L:506:SER:HA	2.16	0.45
3:J:859:PRO:CG	3:J:862:THR:HG21	2.42	0.45
3:J:885:VAL:O	3:J:1258:ARG:HD2	2.17	0.45
3:J:885:VAL:HG12	3:J:894:VAL:HG11	1.98	0.45
3:J:1283:SER:O	3:J:1286:LYS:N	2.47	0.45
3:J:1289:ASN:CG	3:J:1290:ARG:HH12	2.25	0.45
5:L:587:ILE:O	5:L:590:ILE:HB	2.17	0.45
1:A:114:ASP:OD1	1:A:114:ASP:N	2.47	0.45
1:A:118:ASP:OD2	1:A:120:ASP:N	2.48	0.45
1:A:166:ARG:HD2	1:A:167:PRO:HA	1.98	0.45
1:B:92:VAL:HG12	1:B:95:LYS:HB3	1.98	0.45
2:C:32:LEU:O	2:C:33:ASP:C	2.60	0.45
2:C:92:TYR:HB2	2:C:137:VAL:HB	1.99	0.45
2:C:510:GLN:OE1	2:C:534:GLY:HA2	2.16	0.45
2:C:524:ILE:HD11	2:C:712:SER:CB	2.46	0.45
2:C:1141:LEU:O	2:C:1142:ARG:C	2.59	0.45
2:C:1211:ARG:O	2:C:1212:LEU:HD12	2.17	0.45
2:C:1285:TYR:CE1	3:D:1361:THR:HG21	2.44	0.45
3:D:386:GLU:OE1	3:D:394:ILE:HG22	2.17	0.45
3:D:747:MET:HA	3:D:747:MET:HE3	1.99	0.45
3:D:819:GLY:HA3	3:D:882:VAL:O	2.17	0.45
3:D:1280:VAL:HG13	3:D:1284:ARG:HE	1.82	0.45
3:D:1352:ILE:CD1	8:D:2004:4C4:C8	2.94	0.45
4:E:36:ASP:CB	4:E:37:PRO:HD2	2.40	0.45
5:F:283:GLN:CD	5:F:343:LYS:HD2	2.40	0.45
5:F:460:ILE:CG2	5:F:464:ASN:HD22	2.30	0.45
1:G:46:ILE:HD11	1:H:38:THR:HG21	1.98	0.45
1:H:185:TYR:HA	1:H:203:ILE:HD12	1.98	0.45
2:I:33:ASP:O	2:I:34:SER:C	2.60	0.45
2:I:202:ARG:HH11	2:I:202:ARG:HB2	1.81	0.45
2:I:841:ARG:HG3	2:I:841:ARG:HH11	1.82	0.45
2:I:852:ALA:HB2	2:I:869:GLY:CA	2.47	0.45
2:I:905:ILE:HG22	2:I:906:PHE:CD1	2.51	0.45
2:I:1054:LEU:HD12	2:I:1054:LEU:HA	1.76	0.45
3:J:81:ARG:HG3	3:J:82:GLY:H	1.80	0.45
3:J:261:ALA:HB2	5:L:505:ILE:CG2	2.47	0.45
3:J:277:ASN:O	3:J:280:LYS:N	2.50	0.45
3:J:325:LYS:CE	3:J:330:MET:CG	2.87	0.45
3:J:363:LEU:HD12	3:J:450:HIS:CE1	2.52	0.45
3:J:441:LEU:HA	3:J:441:LEU:HD13	1.57	0.45
3:J:780:ARG:O	3:J:781:LYS:C	2.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:833:GLU:HB2	3:J:1242:ARG:HD2	1.98	0.45
3:J:903:LEU:CD1	3:J:909:ILE:CD1	2.95	0.45
3:J:918:ILE:HA	3:J:921:GLN:HG3	1.99	0.45
3:J:1308:GLY:O	3:J:1309:ILE:C	2.59	0.45
5:L:105:MET:HE2	5:L:105:MET:HB3	1.79	0.45
5:L:367:ILE:HD13	5:L:367:ILE:H	1.81	0.45
5:L:538:GLU:HA	5:L:541:ARG:HG3	1.98	0.45
5:L:595:LEU:HD23	5:L:595:LEU:N	2.32	0.45
1:A:127:GLN:H	1:A:127:GLN:CD	2.23	0.45
1:B:172:LEU:HD12	1:B:172:LEU:N	2.32	0.45
2:C:617:ALA:H	2:C:653:MET:HA	1.82	0.45
2:C:680:LEU:HD23	2:C:681:MET:N	2.32	0.45
2:C:901:LEU:HD13	5:F:563:PHE:CE2	2.52	0.45
2:C:1083:GLU:H	2:C:1083:GLU:HG3	1.38	0.45
2:C:1164:PHE:C	2:C:1166:ASP:N	2.70	0.45
3:D:112:ALA:N	3:D:300:GLN:OE1	2.27	0.45
3:D:227:PHE:CE1	3:D:232:ASN:HB2	2.52	0.45
3:D:595:ALA:O	3:D:596:LEU:HB2	2.16	0.45
3:D:627:THR:CG2	3:D:628:GLY:H	2.29	0.45
3:D:1157:ALA:HB3	3:D:1207:GLY:H	1.78	0.45
3:D:1352:ILE:CD1	8:D:2004:4C4:H6	2.43	0.45
4:E:44:ASP:O	4:E:49:ILE:HG13	2.17	0.45
5:F:384:LEU:HD23	5:F:384:LEU:HA	1.38	0.45
2:I:60:GLN:O	2:I:476:LYS:HE2	2.17	0.45
2:I:346:TYR:OH	2:I:436:ARG:NH1	2.50	0.45
2:I:673:HIS:O	2:I:1109:ILE:HG22	2.17	0.45
2:I:693:LEU:HD23	2:I:693:LEU:O	2.16	0.45
3:J:74:LYS:HB3	3:J:75:TYR:CD1	2.52	0.45
3:J:140:TYR:O	3:J:141:PHE:HB2	2.17	0.45
3:J:141:PHE:HA	3:J:180:MET:HE2	1.99	0.45
3:J:256:ASP:C	3:J:258:GLY:N	2.74	0.45
3:J:749:LYS:CB	3:J:750:PRO:CD	2.95	0.45
3:J:1158:GLU:HB3	3:J:1186:TYR:CE1	2.52	0.45
3:J:1215:GLU:N	3:J:1215:GLU:OE2	2.50	0.45
5:L:99:ARG:NH1	5:L:103:ARG:HD2	2.31	0.45
5:L:339:ARG:HE	5:L:339:ARG:HB3	1.53	0.45
5:L:345:GLN:O	5:L:348:GLU:HB2	2.16	0.45
5:L:439:ILE:CG1	5:L:440:THR:N	2.77	0.45
5:L:503:GLU:N	5:L:504:PRO:CA	2.80	0.45
5:L:522:PHE:HD1	5:L:522:PHE:N	2.14	0.45
1:A:19:VAL:O	1:A:19:VAL:CG2	2.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:102:LEU:C	1:A:103:ASN:HD22	2.24	0.44
1:B:136:GLU:HG2	1:B:137:ASN:N	2.32	0.44
2:C:165:HIS:HB3	2:C:167:SER:OG	2.16	0.44
2:C:194:LEU:HB3	2:C:206:ALA:HB2	1.99	0.44
2:C:524:ILE:HD12	2:C:712:SER:HB2	1.96	0.44
2:C:575:LEU:HA	2:C:575:LEU:HD12	1.42	0.44
2:C:670:PHE:HE2	2:C:1113:LEU:O	2.00	0.44
2:C:800:MET:CE	2:C:822:VAL:CG2	2.95	0.44
2:C:971:LEU:HD23	2:C:972:PHE:CD2	2.52	0.44
2:C:1312:ASN:HA	4:E:31:GLN:OE1	2.17	0.44
2:C:1319:MET:HA	2:C:1320:PRO:HD3	1.82	0.44
3:D:42:GLU:CG	5:F:451:ARG:HG3	2.40	0.44
3:D:66:LYS:O	3:D:67:ASP:C	2.60	0.44
3:D:317:THR:HG21	3:D:320:ASN:OD1	2.17	0.44
3:D:327:LEU:N	3:D:327:LEU:HD23	2.29	0.44
3:D:441:LEU:N	3:D:441:LEU:HD22	2.31	0.44
3:D:583:VAL:HG12	3:D:584:PRO:HD2	1.99	0.44
3:D:585:LYS:O	3:D:587:LEU:N	2.47	0.44
3:D:1282:TYR:O	3:D:1286:LYS:HD2	2.17	0.44
5:F:107:THR:O	5:F:108:VAL:C	2.59	0.44
5:F:130:VAL:HG13	5:F:365:MET:CG	2.40	0.44
5:F:378:GLU:O	5:F:379:MET:C	2.60	0.44
5:F:514:ASP:OD2	5:F:514:ASP:N	2.51	0.44
5:F:589:GLN:OE1	5:F:589:GLN:HA	2.17	0.44
1:G:156:SER:C	1:G:158:ARG:H	2.24	0.44
1:G:172:LEU:HD12	1:G:172:LEU:N	2.32	0.44
1:H:57:THR:HG23	1:H:158:ARG:HH21	1.81	0.44
1:H:85:LEU:C	1:H:87:GLY:H	2.25	0.44
2:I:117:ILE:CD1	2:I:488:MET:HG2	2.48	0.44
2:I:149:LEU:CD2	2:I:451:ARG:NH1	2.80	0.44
2:I:201:ARG:CB	2:I:369:MET:HE2	2.47	0.44
2:I:252:SER:O	2:I:253:PHE:HB3	2.18	0.44
2:I:292:ILE:HG21	2:I:322:LEU:HD21	1.98	0.44
2:I:522:SER:HB2	2:I:687:ARG:CB	2.43	0.44
2:I:628:HIS:ND1	2:I:628:HIS:N	2.63	0.44
2:I:819:SER:C	2:I:821:ARG:N	2.74	0.44
2:I:841:ARG:CZ	3:J:256:ASP:HB3	2.46	0.44
2:I:1029:LEU:HD23	2:I:1030:GLU:N	2.32	0.44
2:I:1213:TYR:HE1	2:I:1220:GLN:HB2	1.82	0.44
3:J:322:ARG:HG3	3:J:323:PRO:CD	2.42	0.44
3:J:430:HIS:HA	3:J:921:GLN:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:490:ILE:C	3:J:499:ILE:HG22	2.41	0.44
3:J:505:ASP:CB	3:J:629:PHE:HE1	2.25	0.44
3:J:544:LEU:HD13	3:J:544:LEU:HA	1.59	0.44
3:J:834:PRO:O	3:J:838:ARG:CG	2.65	0.44
3:J:1167:LYS:HE2	3:J:1170:LYS:HB2	1.98	0.44
5:L:372:ALA:O	5:L:375:ALA:HB3	2.18	0.44
5:L:514:ASP:HB3	5:L:517:SER:H	1.83	0.44
1:A:64:VAL:HG11	1:A:78:ILE:HD11	2.00	0.44
1:A:90:VAL:HG22	1:A:91:ARG:N	2.32	0.44
1:B:97:GLU:HB3	1:B:145:LYS:HZ1	1.81	0.44
2:C:59:ILE:CD1	2:C:472:GLU:HA	2.46	0.44
2:C:378:ARG:CZ	2:C:382:GLU:OE2	2.66	0.44
2:C:615:VAL:HG13	2:C:650:VAL:HA	1.99	0.44
2:C:657:THR:OG1	2:C:1187:PHE:HB2	2.18	0.44
2:C:834:GLN:HE21	2:C:1056:VAL:CG2	2.21	0.44
2:C:1259:LEU:HD12	2:C:1260:GLY:H	1.82	0.44
3:D:160:LEU:HB3	3:D:164:GLN:HB2	1.98	0.44
3:D:199:GLU:HG2	3:D:202:ARG:HE	1.81	0.44
3:D:915:ILE:HA	3:D:918:ILE:CG2	2.44	0.44
3:D:1157:ALA:HB3	3:D:1206:ARG:CA	2.47	0.44
3:D:1226:VAL:C	3:D:1228:ALA:N	2.72	0.44
3:D:1312:ALA:O	3:D:1313:SER:C	2.60	0.44
4:E:57:GLY:C	4:E:58:LEU:HD12	2.42	0.44
5:F:215:GLU:CA	5:F:218:ARG:HD3	2.36	0.44
5:F:311:THR:HG21	5:F:348:GLU:CD	2.42	0.44
5:F:536:THR:O	5:F:537:THR:C	2.60	0.44
5:F:561:MET:HG2	5:F:571:TYR:CG	2.52	0.44
5:F:608:ARG:NE	5:F:609:SER:CA	2.80	0.44
1:H:51:MET:HB3	1:H:178:SER:HA	1.99	0.44
2:I:92:TYR:HD2	2:I:129:LEU:HB2	1.83	0.44
2:I:157:PHE:CD1	2:I:174:ALA:HB2	2.52	0.44
2:I:262:TYR:OH	2:I:282:VAL:HG21	2.17	0.44
2:I:1105:SER:O	2:I:1107:MET:HG3	2.17	0.44
2:I:1341:ASP:HB3	2:I:1342:GLU:H	1.46	0.44
3:J:145:VAL:C	3:J:178:ALA:HB1	2.42	0.44
3:J:222:LYS:HD3	3:J:222:LYS:HA	1.73	0.44
3:J:318:GLY:O	3:J:320:ASN:N	2.49	0.44
3:J:327:LEU:HD22	3:J:330:MET:HE2	1.99	0.44
3:J:357:VAL:HG12	3:J:359:PRO:HD3	1.99	0.44
3:J:499:ILE:CG2	3:J:500:ILE:HG12	2.47	0.44
3:J:507:VAL:HG11	3:J:598:LYS:CG	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:515:ARG:O	3:J:573:THR:HG21	2.17	0.44
3:J:672:LEU:H	3:J:672:LEU:HD12	1.81	0.44
3:J:725:MET:O	3:J:728:SER:OG	2.34	0.44
3:J:825:VAL:HG21	3:J:832:LYS:HB3	1.99	0.44
3:J:918:ILE:O	3:J:922:SER:OG	2.22	0.44
3:J:1353:VAL:O	3:J:1353:VAL:HG22	2.16	0.44
4:K:6:VAL:HG23	4:K:6:VAL:O	2.16	0.44
5:L:117:ILE:CG1	5:L:421:TYR:HB2	2.45	0.44
5:L:123:ILE:HG12	5:L:375:ALA:HB3	1.99	0.44
5:L:141:ILE:CG2	5:L:224:LEU:HD21	2.48	0.44
5:L:277:MET:O	5:L:280:VAL:HB	2.17	0.44
5:L:462:LYS:HE3	5:L:487:MET:SD	2.57	0.44
1:A:223:ILE:O	1:A:226:GLU:N	2.50	0.44
1:B:179:PRO:HB3	1:B:208:ASN:ND2	2.33	0.44
1:B:290:LEU:O	1:B:291:LYS:HD3	2.17	0.44
2:C:60:GLN:HB3	2:C:67:GLU:HG3	1.99	0.44
2:C:161:LYS:H	2:C:161:LYS:HG2	1.43	0.44
2:C:324:LYS:HA	2:C:327:GLN:HG3	2.00	0.44
2:C:539:THR:O	2:C:540:ARG:C	2.57	0.44
2:C:741:MET:HG2	2:C:974:ARG:NH2	2.32	0.44
2:C:831:ILE:HG23	2:C:832:HIS:N	2.31	0.44
2:C:995:ASP:O	2:C:998:LEU:CD1	2.65	0.44
2:C:1255:THR:CG2	2:C:1257:GLN:HG3	2.44	0.44
3:D:98:ARG:C	3:D:248:ASP:HB2	2.39	0.44
3:D:355:ILE:HG12	3:D:464:ASP:O	2.17	0.44
3:D:627:THR:O	3:D:630:ALA:N	2.51	0.44
3:D:644:MET:HE3	3:D:764:ARG:HG3	1.99	0.44
3:D:858:VAL:HA	3:D:859:PRO:HD3	1.70	0.44
3:D:1280:VAL:O	3:D:1284:ARG:HD2	2.16	0.44
3:D:1372:ARG:NE	3:J:854:ALA:HB3	2.33	0.44
5:F:463:LEU:N	5:F:463:LEU:CD1	2.80	0.44
2:I:5:TYR:C	2:I:7:GLU:N	2.73	0.44
2:I:242:VAL:H	2:I:245:ARG:HD2	1.82	0.44
2:I:421:SER:N	2:I:424:ASP:HB2	2.32	0.44
2:I:728:ASP:C	2:I:730:SER:N	2.75	0.44
2:I:813:GLU:OE1	2:I:813:GLU:HA	2.17	0.44
2:I:918:LEU:HD12	2:I:918:LEU:C	2.42	0.44
2:I:1053:TYR:HD1	2:I:1053:TYR:N	2.14	0.44
2:I:1115:THR:O	2:I:1116:HIS:C	2.60	0.44
2:I:1198:LEU:HA	2:I:1198:LEU:HD22	1.46	0.44
2:I:1297:ASP:O	2:I:1298:VAL:C	2.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:19:ALA:HB2	3:J:1373:ARG:HH22	1.83	0.44
3:J:146:VAL:CG1	3:J:149:GLY:HA3	2.47	0.44
3:J:181:GLY:O	3:J:182:ALA:C	2.59	0.44
3:J:1167:LYS:CG	3:J:1174:ARG:HH11	2.31	0.44
3:J:1250:ASP:O	3:J:1251:LYS:C	2.59	0.44
3:J:1359:ALA:O	3:J:1360:GLY:C	2.59	0.44
5:L:230:VAL:HG13	5:L:231:THR:N	2.33	0.44
5:L:522:PHE:N	5:L:522:PHE:CD1	2.86	0.44
5:L:559:LEU:HD23	5:L:559:LEU:HA	1.80	0.44
1:A:79:LEU:HD22	1:A:79:LEU:HA	1.72	0.44
1:A:145:LYS:NZ	1:A:147:GLN:CD	2.75	0.44
1:B:125:LYS:O	1:B:128:HIS:HB2	2.17	0.44
1:B:252:ILE:C	1:B:254:LEU:H	2.24	0.44
1:B:257:VAL:HB	1:B:260:LEU:HD12	1.98	0.44
1:B:303:ILE:C	1:B:305:ASP:N	2.74	0.44
2:C:93:SER:OG	2:C:126:GLU:HB3	2.17	0.44
2:C:273:HIS:HA	2:C:276:GLN:OE1	2.17	0.44
2:C:447:HIS:CG	2:C:553:THR:HG21	2.52	0.44
2:C:470:ARG:CB	2:C:473:ARG:NH1	2.80	0.44
2:C:484:LEU:C	2:C:486:THR:N	2.76	0.44
2:C:656:SER:OG	2:C:657:THR:N	2.51	0.44
2:C:800:MET:HE1	2:C:822:VAL:CG2	2.47	0.44
2:C:832:HIS:O	2:C:1056:VAL:N	2.46	0.44
2:C:1007:LYS:O	2:C:1010:GLN:N	2.50	0.44
2:C:1030:GLU:C	2:C:1030:GLU:CD	2.85	0.44
2:C:1075:VAL:O	2:C:1076:ILE:C	2.60	0.44
3:D:77:ARG:HD2	3:D:78:LEU:H	1.81	0.44
3:D:152:THR:OG1	3:D:154:LEU:HD12	2.18	0.44
3:D:244:VAL:HA	3:D:269:TYR:OH	2.17	0.44
3:D:333:GLY:HA3	8:D:2004:4C4:H7	1.99	0.44
3:D:674:THR:N	3:D:677:GLU:OE1	2.48	0.44
3:D:686:TRP:HB3	3:D:758:PRO:HG3	1.98	0.44
3:D:1151:LYS:HE3	3:D:1151:LYS:HB3	1.75	0.44
5:F:126:GLY:O	5:F:130:VAL:HG23	2.17	0.44
5:F:550:GLY:O	5:F:551:LEU:HD23	2.17	0.44
2:I:18:ARG:NH1	2:I:621:SER:H	2.16	0.44
2:I:233:ARG:HH12	2:I:332:ARG:HH22	1.66	0.44
2:I:848:GLU:CD	2:I:886:LYS:HZ3	2.22	0.44
2:I:944:ARG:HG3	2:I:944:ARG:O	2.17	0.44
2:I:1211:ARG:O	2:I:1212:LEU:HD12	2.16	0.44
2:I:1239:VAL:CG2	3:J:445:LYS:HB3	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:26:SER:OG	3:J:29:MET:N	2.23	0.44
3:J:515:ARG:HG2	3:J:719:PHE:HE2	1.83	0.44
3:J:543:SER:O	3:J:574:VAL:HG21	2.18	0.44
3:J:914:ALA:O	3:J:918:ILE:HG22	2.18	0.44
4:K:68:GLU:O	4:K:71:GLU:N	2.50	0.44
5:L:250:LEU:O	5:L:254:GLU:N	2.45	0.44
5:L:268:TYR:O	5:L:271:ASN:HB3	2.17	0.44
5:L:365:MET:HG2	5:L:366:SER:N	2.31	0.44
5:L:393:LYS:C	5:L:395:THR:H	2.25	0.44
5:L:401:PHE:C	5:L:403:ASP:N	2.75	0.44
1:B:183:ILE:CG2	1:B:205:MET:HG3	2.17	0.44
1:B:285:THR:C	1:B:287:VAL:N	2.75	0.44
2:C:93:SER:OG	2:C:126:GLU:OE1	2.36	0.44
2:C:207:THR:O	2:C:210:LEU:N	2.30	0.44
2:C:280:ASP:HB3	2:C:282:VAL:HG23	2.00	0.44
2:C:421:SER:N	2:C:424:ASP:HB2	2.28	0.44
2:C:854:ILE:HG22	2:C:855:PRO:CD	2.44	0.44
2:C:890:LYS:HE2	2:C:891:GLY:H	1.82	0.44
2:C:1033:ARG:HG2	2:C:1033:ARG:NH1	2.23	0.44
2:C:1077:SER:O	2:C:1078:LYS:HB2	2.18	0.44
2:C:1281:TYR:CD2	2:C:1281:TYR:N	2.85	0.44
3:D:416:ILE:O	3:D:417:ARG:C	2.60	0.44
3:D:1344:LEU:HD13	3:D:1350:ASN:OD1	2.18	0.44
3:D:1348:LYS:O	3:D:1351:VAL:N	2.50	0.44
4:E:58:LEU:N	4:E:58:LEU:CD1	2.79	0.44
5:F:234:THR:HB	5:F:245:ALA:CA	2.47	0.44
5:F:505:ILE:CD1	5:F:506:SER:N	2.81	0.44
5:F:562:ARG:NE	5:F:573:LEU:HB3	2.31	0.44
5:F:571:TYR:HB3	5:F:576:VAL:HG22	2.00	0.44
2:I:44:GLU:HA	2:I:54:ARG:HH12	1.82	0.44
2:I:185:ASP:O	2:I:196:VAL:HG23	2.17	0.44
2:I:198:ILE:CD1	2:I:369:MET:HE1	2.39	0.44
2:I:322:LEU:HD23	2:I:322:LEU:HA	1.47	0.44
2:I:354:ASP:HA	2:I:355:PRO:HD2	1.60	0.44
2:I:569:ILE:C	2:I:571:LEU:N	2.76	0.44
2:I:754:THR:O	2:I:767:GLN:HB2	2.18	0.44
2:I:809:GLY:HA2	3:J:629:PHE:CD1	2.52	0.44
2:I:1084:ASP:OD1	2:I:1084:ASP:N	2.46	0.44
2:I:1085:MET:HA	2:I:1086:PRO:HD3	1.83	0.44
3:J:70:CYS:HB3	3:J:75:TYR:HB2	1.99	0.44
3:J:819:GLY:HA2	3:J:882:VAL:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:882:VAL:CG1	3:J:883:ARG:N	2.80	0.44
3:J:1312:ALA:O	3:J:1313:SER:C	2.60	0.44
4:K:10:VAL:HG13	4:K:16:ARG:HA	1.99	0.44
5:L:226:ALA:O	5:L:229:VAL:HG22	2.18	0.44
5:L:348:GLU:CD	5:L:355:ILE:HG12	2.42	0.44
1:A:37:HIS:NE2	1:A:187:VAL:CG2	2.80	0.44
1:B:76:GLU:HB3	1:B:80:GLU:CG	2.48	0.44
1:B:126:PRO:C	1:B:128:HIS:N	2.76	0.44
2:C:16:GLY:HA2	2:C:1188:ASP:O	2.18	0.44
2:C:18:ARG:N	2:C:1188:ASP:OD2	2.50	0.44
2:C:24:VAL:HG21	2:C:704:MET:HE1	2.00	0.44
2:C:52:ALA:HB2	2:C:461:GLU:HG3	1.99	0.44
2:C:245:ARG:HH11	2:C:245:ARG:CG	2.30	0.44
2:C:844:LYS:H	2:C:844:LYS:HG2	1.10	0.44
2:C:901:LEU:CD1	5:F:563:PHE:HE2	2.31	0.44
2:C:1024:GLU:HA	2:C:1027:LYS:HG2	2.00	0.44
2:C:1066:MET:N	2:C:1074:GLY:O	2.40	0.44
2:C:1109:ILE:HD12	2:C:1109:ILE:HA	1.83	0.44
3:D:38:VAL:HG13	3:D:55:GLY:HA2	1.99	0.44
3:D:181:GLY:O	3:D:182:ALA:C	2.60	0.44
3:D:424:ASN:CB	3:D:434:ILE:HG12	2.34	0.44
3:D:514:THR:OG1	3:D:595:ALA:HA	2.18	0.44
3:D:573:THR:HG23	3:D:576:ARG:CG	2.47	0.44
3:D:580:TRP:HA	3:D:583:VAL:CG2	2.47	0.44
3:D:892:PHE:CE1	3:D:1281:GLU:HG2	2.53	0.44
3:D:1198:VAL:HG22	3:D:1199:PHE:N	2.33	0.44
5:F:228:TYR:O	5:F:231:THR:N	2.49	0.44
5:F:343:LYS:O	5:F:346:GLN:HB3	2.17	0.44
5:F:484:ALA:HB2	5:F:494:ILE:CD1	2.37	0.44
5:F:543:ALA:HA	5:F:546:ASP:HB2	2.00	0.44
5:F:561:MET:CG	5:F:571:TYR:CD2	3.01	0.44
5:F:562:ARG:NE	5:F:573:LEU:HG	2.31	0.44
1:G:75:GLN:N	1:G:76:GLU:OE2	2.50	0.44
1:G:213:PRO:O	1:G:216:ALA:HB3	2.18	0.44
1:H:13:LEU:HD12	1:H:13:LEU:O	2.17	0.44
1:H:25:LYS:HE3	1:H:202:VAL:HG11	1.99	0.44
2:I:248:GLY:O	2:I:249:GLU:HG3	2.17	0.44
2:I:298:ALA:HB3	2:I:334:GLU:CB	2.48	0.44
2:I:388:LEU:HD23	2:I:388:LEU:HA	1.54	0.44
2:I:731:ARG:NH1	2:I:962:GLU:OE1	2.51	0.44
2:I:895:LEU:HD13	2:I:900:LYS:CA	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1172:LEU:C	2:I:1172:LEU:HD13	2.43	0.44
2:I:1328:LYS:HD3	2:I:1328:LYS:HA	1.87	0.44
3:J:185:ILE:HD13	3:J:188:LEU:HD12	2.00	0.44
3:J:195:GLU:HA	3:J:198:CYS:SG	2.58	0.44
3:J:397:ALA:O	3:J:401:VAL:HG13	2.18	0.44
3:J:491:LEU:HD22	3:J:497:GLU:C	2.42	0.44
3:J:492:SER:OG	3:J:495:ASN:N	2.49	0.44
3:J:499:ILE:O	3:J:500:ILE:HD13	2.17	0.44
3:J:583:VAL:CG1	3:J:587:LEU:HB2	2.47	0.44
3:J:674:THR:OG1	3:J:675:ALA:N	2.50	0.44
3:J:842:ARG:NH1	3:J:884:SER:HB2	2.32	0.44
3:J:905:ARG:HD3	4:K:16:ARG:HD2	2.00	0.44
5:L:152:GLU:O	5:L:152:GLU:HG2	2.17	0.44
5:L:380:VAL:HG13	5:L:381:GLU:N	2.32	0.44
1:B:178:SER:C	1:B:180:VAL:N	2.76	0.44
2:C:42:ASP:C	2:C:44:GLU:H	2.22	0.44
2:C:184:LEU:HD12	2:C:185:ASP:N	2.33	0.44
2:C:367:TYR:CE1	2:C:380:ALA:HB1	2.52	0.44
2:C:521:LEU:O	2:C:525:THR:N	2.50	0.44
2:C:670:PHE:HD1	2:C:1184:THR:HG21	1.81	0.44
2:C:727:VAL:HG13	2:C:732:ILE:HG12	1.98	0.44
2:C:788:SER:HB3	2:C:796:LEU:HA	1.99	0.44
2:C:924:VAL:HG12	2:C:1058:ARG:NH2	2.32	0.44
2:C:948:ILE:O	2:C:949:GLU:C	2.61	0.44
2:C:1025:PHE:CD1	2:C:1026:GLU:N	2.86	0.44
2:C:1240:ASP:HB2	3:D:445:LYS:NZ	2.32	0.44
2:C:1321:GLU:HG2	3:D:99:ARG:HH12	1.81	0.44
3:D:59:ALA:HA	3:D:63:GLY:O	2.18	0.44
3:D:574:VAL:O	3:D:577:ALA:HB3	2.17	0.44
3:D:806:ASP:HA	3:D:1347:LEU:HD13	1.95	0.44
4:E:37:PRO:C	4:E:38:LEU:HD12	2.43	0.44
5:F:380:VAL:CG1	5:F:381:GLU:N	2.81	0.44
5:F:520:GLY:C	5:F:522:PHE:H	2.24	0.44
5:F:561:MET:HG3	5:F:571:TYR:HD2	1.82	0.44
5:F:608:ARG:CG	5:F:609:SER:N	2.80	0.44
2:I:131:THR:HG22	2:I:132:ASP:N	2.33	0.44
2:I:301:TYR:HE2	2:I:333:ILE:HG23	1.77	0.44
2:I:317:LEU:HA	2:I:321:LEU:HD13	1.98	0.44
2:I:332:ARG:O	2:I:333:ILE:HG13	2.18	0.44
2:I:609:ILE:H	2:I:609:ILE:HG12	1.50	0.44
2:I:1079:ILE:HG23	2:I:1079:ILE:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1329:GLU:O	2:I:1332:SER:N	2.44	0.44
3:J:145:VAL:O	3:J:178:ALA:HA	2.18	0.44
3:J:523:GLU:CD	3:J:547:ARG:HD2	2.43	0.44
3:J:859:PRO:O	3:J:862:THR:HG23	2.18	0.44
3:J:1173:ARG:N	3:J:1190:ILE:O	2.50	0.44
3:J:1266:ILE:HD12	3:J:1274:PHE:C	2.42	0.44
3:J:1317:GLU:H	3:J:1317:GLU:HG2	1.45	0.44
5:L:143:TYR:HE1	5:L:265:GLN:OE1	2.01	0.44
5:L:448:ARG:HD3	5:L:450:ILE:O	2.18	0.44
5:L:471:LEU:HA	5:L:471:LEU:HD23	1.44	0.44
5:L:587:ILE:HD12	5:L:587:ILE:HA	1.76	0.44
1:A:40:GLY:HA3	1:A:185:TYR:CE2	2.53	0.44
1:A:61:ILE:HG23	1:A:61:ILE:HD13	1.60	0.44
1:B:282:VAL:HG22	1:B:316:MET:HG3	2.00	0.44
2:C:198:ILE:O	2:C:201:ARG:HB2	2.18	0.44
2:C:354:ASP:CG	2:C:356:THR:H	2.25	0.44
2:C:406:ASN:HB3	2:C:413:GLU:O	2.17	0.44
2:C:478:ARG:HH11	2:C:481:LEU:HD23	1.82	0.44
2:C:517:GLN:O	2:C:517:GLN:HG2	2.18	0.44
2:C:553:THR:H	2:C:553:THR:HG1	1.41	0.44
2:C:1065:LYS:HG2	2:C:1235:LEU:HB2	2.00	0.44
2:C:1120:ALA:O	2:C:1124:ILE:HG12	2.18	0.44
3:D:22:ILE:HG21	3:D:1319:PHE:CE2	2.53	0.44
3:D:79:LYS:HE3	3:D:79:LYS:C	2.43	0.44
3:D:235:GLU:H	3:D:235:GLU:CD	2.20	0.44
3:D:247:PRO:C	3:D:249:LEU:N	2.75	0.44
3:D:252:LEU:HD21	3:D:262:THR:HB	1.93	0.44
3:D:672:LEU:CD1	3:D:672:LEU:H	2.31	0.44
3:D:1138:LEU:HA	3:D:1138:LEU:HD12	1.56	0.44
3:D:1264:ALA:O	3:D:1278:GLU:N	2.50	0.44
1:G:121:VAL:O	1:G:121:VAL:HG12	2.18	0.44
1:H:38:THR:HG23	1:H:39:LEU:CG	2.47	0.44
1:H:178:SER:HA	1:H:179:PRO:HD3	1.70	0.44
2:I:559:CYS:CB	2:I:662:SER:HB3	2.48	0.44
2:I:614:TYR:HD1	2:I:652:TYR:CD1	2.35	0.44
2:I:696:ASP:OD2	2:I:798:GLN:HA	2.18	0.44
2:I:800:MET:O	2:I:1229:TYR:HD2	2.01	0.44
2:I:838:CYS:HB3	2:I:1050:VAL:HG23	2.00	0.44
2:I:964:LEU:HD22	2:I:1025:PHE:CG	2.53	0.44
2:I:1033:ARG:O	2:I:1036:ILE:HB	2.18	0.44
3:J:69:GLU:HG3	3:J:76:LYS:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:171:GLU:HB3	3:J:172:PHE:CE2	2.52	0.44
3:J:521:LYS:HB3	3:J:541:LEU:O	2.18	0.44
3:J:674:THR:HG23	3:J:677:GLU:CB	2.48	0.44
3:J:762:ASN:OD1	3:J:764:ARG:N	2.49	0.44
3:J:905:ARG:NH1	4:K:10:VAL:CG1	2.81	0.44
3:J:1167:LYS:HB2	3:J:1174:ARG:NH1	2.27	0.44
5:L:108:VAL:HG12	5:L:110:LEU:HG	2.00	0.44
5:L:558:VAL:HG11	5:L:590:ILE:HG22	2.00	0.44
1:A:45:ARG:NH1	1:B:37:HIS:HB2	2.25	0.44
1:B:9:LEU:HB2	1:B:32:GLU:OE1	2.17	0.44
1:B:266:SER:HA	1:B:269:CYS:HB2	2.00	0.44
1:B:289:LEU:CA	1:B:295:LEU:HD13	2.47	0.44
2:C:10:ARG:HD3	2:C:1181:PRO:HG2	1.99	0.44
2:C:105:TYR:CD2	2:C:105:TYR:N	2.85	0.44
2:C:129:LEU:O	2:C:136:PHE:HD1	2.01	0.44
2:C:280:ASP:CB	2:C:282:VAL:HG23	2.48	0.44
2:C:377:THR:O	2:C:380:ALA:HB3	2.18	0.44
2:C:582:ASN:HB3	2:C:585:GLY:CA	2.48	0.44
2:C:704:MET:O	2:C:708:VAL:N	2.44	0.44
2:C:936:ARG:NH1	5:F:495:ARG:NE	2.66	0.44
2:C:1096:ILE:HG22	2:C:1097:VAL:N	2.33	0.44
2:C:1125:GLY:HA3	2:C:1179:GLY:CA	2.43	0.44
3:D:128:LEU:C	3:D:130:MET:H	2.26	0.44
3:D:133:ARG:HH22	5:F:95:THR:CG2	2.28	0.44
3:D:804:ALA:O	3:D:805:GLN:HB3	2.18	0.44
3:D:1328:THR:O	3:D:1331:VAL:N	2.51	0.44
5:F:295:CYS:O	5:F:329:LYS:HG3	2.18	0.44
5:F:370:ALA:O	5:F:371:LYS:C	2.60	0.44
5:F:438:ALA:O	5:F:442:SER:CB	2.65	0.44
5:F:581:ASP:CG	5:F:582:VAL:N	2.74	0.44
1:G:113:ALA:C	1:G:115:ILE:H	2.25	0.44
2:I:18:ARG:CZ	2:I:620:ASN:HA	2.48	0.44
2:I:18:ARG:HH12	2:I:621:SER:H	1.64	0.44
2:I:128:PRO:HG2	2:I:506:PHE:CE1	2.52	0.44
2:I:428:VAL:O	2:I:431:LYS:HB3	2.17	0.44
2:I:478:ARG:HH12	2:I:482:GLY:HA2	1.83	0.44
2:I:596:ASP:CG	2:I:597:GLY:N	2.76	0.44
2:I:811:ASN:ND2	2:I:1098:LEU:C	2.76	0.44
2:I:1116:HIS:HE1	3:J:641:ILE:N	2.13	0.44
2:I:1119:MET:HE3	2:I:1204:LEU:CD1	2.47	0.44
3:J:188:LEU:O	3:J:191:SER:OG	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:606:ASN:CG	3:J:610:ARG:HE	2.24	0.44
3:J:610:ARG:HG2	3:J:866:GLU:CG	2.43	0.44
3:J:819:GLY:HA3	3:J:882:VAL:O	2.18	0.44
3:J:1216:ALA:HB3	3:J:1219:ASP:OD2	2.18	0.44
3:J:1266:ILE:HD12	3:J:1274:PHE:HA	2.00	0.44
5:L:147:GLN:HE22	5:L:150:ARG:NH1	2.16	0.44
5:L:390:ILE:H	5:L:390:ILE:HG13	1.20	0.44
5:L:577:GLY:O	5:L:581:ASP:N	2.51	0.44
5:L:598:LEU:HD12	5:L:598:LEU:O	2.17	0.44
1:A:54:CYS:SG	1:A:148:ARG:HG3	2.58	0.43
1:A:67:GLU:HA	1:A:78:ILE:HG21	1.98	0.43
1:A:233:ASP:C	1:A:234:LEU:CG	2.91	0.43
1:B:59:VAL:CG1	1:B:144:ILE:HD12	2.48	0.43
2:C:119:GLU:HB2	2:C:489:PRO:CD	2.17	0.43
2:C:169:LYS:HE2	2:C:190:PRO:C	2.43	0.43
2:C:468:LEU:HA	2:C:468:LEU:HD23	1.24	0.43
2:C:556:GLY:HA2	2:C:659:GLN:O	2.17	0.43
2:C:713:GLY:C	2:C:715:THR:N	2.75	0.43
2:C:714:VAL:HG23	2:C:715:THR:H	1.82	0.43
2:C:746:ALA:CB	2:C:974:ARG:NH2	2.81	0.43
2:C:821:ARG:HD2	2:C:825:GLU:CD	2.43	0.43
2:C:901:LEU:HG	2:C:905:ILE:HD11	1.99	0.43
2:C:1217:THR:OG1	2:C:1219:GLU:N	2.38	0.43
2:C:1253:LEU:C	2:C:1253:LEU:CD2	2.85	0.43
2:C:1301:ARG:O	2:C:1304:MET:HB3	2.18	0.43
3:D:115:TRP:CZ2	3:D:1329:THR:HG23	2.53	0.43
3:D:260:PHE:C	5:F:504:PRO:HG2	2.43	0.43
3:D:291:ILE:CD1	5:F:409:ASN:HB3	2.47	0.43
3:D:378:LYS:HB3	3:D:379:PRO:CD	2.45	0.43
3:D:796:LEU:CD1	3:D:800:LEU:HD11	2.44	0.43
3:D:1155:ILE:HD11	3:D:1211:SER:HB3	2.00	0.43
3:D:1357:ILE:H	3:D:1357:ILE:HG12	1.49	0.43
1:G:51:MET:HE3	1:G:51:MET:HB3	1.87	0.43
2:I:298:ALA:N	2:I:334:GLU:O	2.42	0.43
2:I:377:THR:HG22	2:I:379:GLU:OE2	2.17	0.43
2:I:405:PHE:CE2	2:I:409:LEU:HD13	2.52	0.43
2:I:697:LYS:HB3	2:I:697:LYS:HE2	1.53	0.43
2:I:857:VAL:HG23	2:I:861:ALA:HB3	2.00	0.43
2:I:950:GLU:O	2:I:953:LEU:HB3	2.18	0.43
2:I:1117:LEU:O	2:I:1120:ALA:N	2.51	0.43
2:I:1209:GLN:HA	2:I:1225:VAL:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:42:GLU:HG2	5:L:451:ARG:CG	2.47	0.43
3:J:450:HIS:HE1	3:J:452:LEU:CD1	2.29	0.43
3:J:580:TRP:HB2	3:J:589:TYR:HE1	1.79	0.43
3:J:614:LEU:O	3:J:617:THR:CB	2.66	0.43
3:J:615:LYS:HD3	4:K:7:GLN:HB3	2.00	0.43
3:J:697:MET:HG3	3:J:698:MET:N	2.33	0.43
3:J:1268:ASN:HA	3:J:1274:PHE:CZ	2.53	0.43
5:L:258:GLN:HB2	5:L:259:PHE:HD1	1.83	0.43
5:L:297:MET:HE2	5:L:326:TRP:CZ3	2.53	0.43
5:L:355:ILE:C	5:L:358:VAL:HG22	2.43	0.43
5:L:412:LEU:O	5:L:415:ALA:N	2.51	0.43
5:L:439:ILE:O	5:L:443:ILE:HG13	2.18	0.43
1:A:224:LEU:HD12	1:A:224:LEU:C	2.43	0.43
1:A:227:GLN:HB3	1:B:39:LEU:HD11	1.99	0.43
1:B:81:ILE:C	1:B:83:LEU:N	2.75	0.43
1:B:92:VAL:HG12	1:B:95:LYS:CB	2.48	0.43
1:B:217:ILE:O	1:B:218:ARG:C	2.61	0.43
1:B:254:LEU:HD23	1:B:254:LEU:HA	1.74	0.43
2:C:48:GLY:N	2:C:461:GLU:OE1	2.51	0.43
2:C:182:SER:O	2:C:395:TYR:HE1	2.00	0.43
2:C:204:LEU:HD11	2:C:369:MET:CB	2.48	0.43
2:C:288:PRO:HG2	2:C:291:TYR:HB2	2.00	0.43
2:C:557:ARG:NH2	2:C:608:ALA:O	2.50	0.43
2:C:558:VAL:HG12	2:C:559:CYS:N	2.33	0.43
2:C:629:PHE:CD2	2:C:634:VAL:HG11	2.54	0.43
2:C:812:PHE:HZ	3:D:503:SER:CB	2.31	0.43
2:C:814:ASP:OD2	2:C:1106:ARG:NH1	2.51	0.43
2:C:815:SER:CB	3:D:461:PHE:HD1	2.28	0.43
2:C:1276:TRP:CE2	3:D:801:VAL:HG21	2.53	0.43
3:D:140:TYR:O	3:D:297:ARG:HD3	2.18	0.43
3:D:299:LEU:C	3:D:301:GLU:N	2.75	0.43
3:D:317:THR:CG2	3:D:320:ASN:CB	2.96	0.43
3:D:369:PRO:HA	3:D:442:ILE:HG22	2.00	0.43
3:D:567:THR:HG22	3:D:568:SER:N	2.33	0.43
3:D:889:ASP:O	3:D:890:THR:C	2.61	0.43
3:D:1250:ASP:N	3:D:1250:ASP:OD2	2.51	0.43
3:D:1314:LEU:HD13	3:D:1326:GLN:CB	2.48	0.43
4:E:68:GLU:O	4:E:70:GLN:N	2.51	0.43
5:F:143:TYR:CE1	5:F:147:GLN:HG3	2.54	0.43
5:F:484:ALA:CB	5:F:494:ILE:HD12	2.38	0.43
5:F:606:VAL:C	5:F:608:ARG:N	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:182:ARG:HG2	1:G:183:ILE:N	2.31	0.43
1:H:103:ASN:O	1:H:103:ASN:ND2	2.51	0.43
1:H:215:GLU:HA	1:H:218:ARG:HG3	2.00	0.43
2:I:157:PHE:HD1	2:I:174:ALA:HB2	1.83	0.43
2:I:310:ILE:CD1	2:I:325:LEU:HB3	2.48	0.43
2:I:374:GLU:HA	2:I:375:PRO:HD3	1.72	0.43
2:I:529:ARG:C	2:I:530:ILE:CG1	2.90	0.43
2:I:559:CYS:SG	2:I:662:SER:CB	3.06	0.43
2:I:755:LYS:NZ	2:I:767:GLN:O	2.39	0.43
2:I:814:ASP:O	2:I:816:ILE:HG13	2.18	0.43
2:I:972:PHE:CZ	2:I:998:LEU:HD11	2.53	0.43
2:I:1106:ARG:CD	2:I:1106:ARG:N	2.80	0.43
2:I:1207:SER:C	2:I:1209:GLN:N	2.76	0.43
2:I:1214:ASP:OD2	2:I:1216:ARG:NE	2.50	0.43
3:J:288:PRO:HG2	3:J:291:ILE:HG13	1.99	0.43
3:J:306:LEU:HD22	3:J:306:LEU:O	2.19	0.43
3:J:522:GLY:O	3:J:523:GLU:C	2.60	0.43
3:J:733:SER:HG	3:J:736:GLN:CD	2.26	0.43
3:J:770:LEU:H	3:J:770:LEU:CD1	2.20	0.43
3:J:868:TRP:HA	3:J:868:TRP:CE3	2.53	0.43
3:J:1152:GLU:HA	3:J:1153:PRO:HD3	1.83	0.43
3:J:1252:HIS:O	3:J:1255:VAL:N	2.50	0.43
1:A:56:VAL:CG2	1:A:173:VAL:CG2	2.96	0.43
1:A:79:LEU:HD13	1:A:79:LEU:O	2.17	0.43
2:C:39:ILE:O	2:C:39:ILE:HG23	2.18	0.43
2:C:210:LEU:CB	2:C:220:ILE:CD1	2.96	0.43
2:C:452:ARG:NH1	2:C:584:TYR:O	2.51	0.43
2:C:845:LEU:HD23	2:C:845:LEU:N	2.33	0.43
2:C:848:GLU:HG2	2:C:888:THR:HA	2.00	0.43
2:C:1289:GLU:HG3	2:C:1290:MET:N	2.28	0.43
3:D:165:TYR:CE2	3:D:178:ALA:HB3	2.53	0.43
3:D:394:ILE:O	3:D:397:ALA:N	2.51	0.43
3:D:780:ARG:O	3:D:781:LYS:C	2.61	0.43
3:D:1186:TYR:C	3:D:1186:TYR:CD2	2.96	0.43
4:E:6:VAL:HG23	4:E:6:VAL:O	2.18	0.43
4:E:43:ASN:O	4:E:44:ASP:C	2.59	0.43
4:E:86:ILE:HD13	4:E:86:ILE:N	2.33	0.43
5:F:128:ASN:O	5:F:129:GLN:C	2.59	0.43
5:F:428:SER:C	5:F:430:TYR:N	2.75	0.43
5:F:433:TRP:CZ3	5:F:434:TRP:CE2	3.06	0.43
5:F:530:LEU:HB3	5:F:533:ASP:HB2	1.95	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:83:LEU:N	1:G:83:LEU:HD12	2.32	0.43
1:G:100:LEU:N	1:G:100:LEU:HD12	2.33	0.43
1:G:111:THR:C	1:G:130:ILE:HD13	2.44	0.43
1:H:153:VAL:HG21	1:H:158:ARG:NH1	2.33	0.43
1:H:192:VAL:HG13	1:H:193:GLU:N	2.33	0.43
1:H:197:ASP:O	1:H:198:LEU:HD22	2.18	0.43
1:H:211:ILE:HD12	1:H:212:ASP:N	2.34	0.43
2:I:5:TYR:CD1	2:I:8:LYS:HD3	2.37	0.43
2:I:81:ASP:OD2	2:I:84:GLU:HG3	2.18	0.43
2:I:130:MET:HB2	2:I:136:PHE:CE1	2.39	0.43
2:I:377:THR:O	2:I:380:ALA:HB3	2.18	0.43
2:I:404:LYS:HD2	2:I:404:LYS:HA	1.72	0.43
2:I:511:LEU:HD23	2:I:511:LEU:N	2.31	0.43
2:I:692:THR:OG1	2:I:693:LEU:N	2.49	0.43
2:I:996:ARG:HD3	2:I:999:GLU:CD	2.43	0.43
2:I:1066:MET:HE3	2:I:1066:MET:HB2	1.69	0.43
3:J:128:LEU:C	3:J:130:MET:H	2.26	0.43
3:J:214:ARG:HH11	3:J:214:ARG:HD2	1.62	0.43
3:J:224:LEU:C	3:J:226:ALA:N	2.76	0.43
3:J:449:LEU:CD2	3:J:466:MET:SD	3.06	0.43
3:J:501:VAL:HG22	3:J:502:PRO:O	2.18	0.43
3:J:502:PRO:HB3	3:J:506:VAL:CG1	2.49	0.43
3:J:511:TYR:HE2	3:J:727:ASP:HB3	1.83	0.43
3:J:1269:ALA:HB3	3:J:1274:PHE:CE1	2.53	0.43
5:L:252:LEU:O	5:L:255:VAL:HB	2.19	0.43
5:L:507:MET:HE3	5:L:507:MET:HB2	1.60	0.43
5:L:585:GLU:HA	5:L:588:ARG:CG	2.48	0.43
1:A:54:CYS:HB3	1:A:148:ARG:HG3	1.99	0.43
1:A:60:GLU:HB3	1:A:143:ARG:HE	1.83	0.43
1:A:96:ASP:HA	1:A:148:ARG:NH1	2.33	0.43
1:B:197:ASP:N	1:B:198:LEU:HD22	2.34	0.43
2:C:131:THR:HG22	2:C:132:ASP:H	1.84	0.43
2:C:204:LEU:HA	2:C:205:PRO:HD3	1.81	0.43
2:C:590:PRO:HG3	2:C:605:TYR:OH	2.17	0.43
2:C:870:ILE:HG22	2:C:944:ARG:NH1	2.31	0.43
2:C:1113:LEU:N	2:C:1113:LEU:HD12	2.33	0.43
2:C:1130:ALA:O	2:C:1133:LYS:N	2.51	0.43
2:C:1214:ASP:OD1	2:C:1216:ARG:HG3	2.19	0.43
3:D:198:CYS:HA	3:D:201:LEU:HB2	2.00	0.43
3:D:307:LEU:HD23	3:D:307:LEU:HA	1.30	0.43
3:D:460:ASP:C	3:D:461:PHE:CD2	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:473:THR:CG2	3:D:476:ALA:HB2	2.48	0.43
3:D:653:ILE:HA	3:D:656:GLU:HG3	1.99	0.43
3:D:670:SER:HB2	3:D:672:LEU:HD12	1.94	0.43
3:D:1139:PRO:O	3:D:1142:ALA:N	2.51	0.43
3:D:1257:VAL:O	3:D:1260:MET:N	2.47	0.43
5:F:102:MET:O	5:F:105:MET:N	2.51	0.43
5:F:108:VAL:HA	5:F:385:ARG:CZ	2.48	0.43
5:F:347:ILE:HG22	5:F:351:THR:HG21	1.99	0.43
5:F:586:ARG:HA	5:F:586:ARG:HD2	1.80	0.43
1:G:228:LEU:HD22	1:H:224:LEU:HD23	2.00	0.43
1:H:47:LEU:HD23	1:H:47:LEU:HA	1.55	0.43
2:I:221:LEU:HD21	2:I:351:LEU:CD1	2.48	0.43
2:I:564:PRO:HG3	2:I:572:ILE:HG13	2.00	0.43
3:J:229:GLN:O	3:J:230:SER:C	2.61	0.43
3:J:374:LEU:HD23	3:J:374:LEU:C	2.43	0.43
3:J:411:ILE:O	3:J:414:GLU:HB2	2.18	0.43
3:J:511:TYR:CE2	3:J:727:ASP:HB3	2.54	0.43
3:J:598:LYS:C	3:J:601:ILE:HG22	2.42	0.43
3:J:793:SER:O	3:J:796:LEU:N	2.51	0.43
3:J:907:HIS:ND1	3:J:907:HIS:N	2.67	0.43
3:J:931:THR:O	3:J:1137:GLY:HA3	2.19	0.43
3:J:1141:VAL:HG22	3:J:1240:VAL:HG21	2.00	0.43
3:J:1228:ALA:O	3:J:1229:VAL:C	2.61	0.43
3:J:1257:VAL:O	3:J:1260:MET:HG3	2.19	0.43
5:L:223:GLU:HG2	5:L:255:VAL:HG13	2.00	0.43
5:L:297:MET:HE2	5:L:326:TRP:CE3	2.52	0.43
5:L:389:SER:OG	5:L:390:ILE:N	2.49	0.43
5:L:412:LEU:N	5:L:435:ILE:CG1	2.78	0.43
5:L:494:ILE:HG22	5:L:498:LEU:HD23	2.01	0.43
1:A:44:ARG:NH1	2:C:1087:TYR:CD1	2.86	0.43
1:A:57:THR:HG23	1:A:158:ARG:HH22	1.82	0.43
1:A:61:ILE:CG2	1:A:62:ASP:N	2.81	0.43
1:A:96:ASP:OD2	1:A:148:ARG:NH1	2.51	0.43
1:A:225:ALA:HB2	1:B:228:LEU:HD12	2.00	0.43
1:B:202:VAL:C	1:B:203:ILE:HD12	2.44	0.43
1:B:300:LEU:HD13	1:B:300:LEU:C	2.43	0.43
2:C:10:ARG:NH2	2:C:790:ASP:OD2	2.51	0.43
2:C:303:ASP:OD1	2:C:305:SER:HB3	2.17	0.43
2:C:469:VAL:O	2:C:472:GLU:HB3	2.17	0.43
2:C:490:GLN:O	2:C:491:ASP:C	2.61	0.43
2:C:884:VAL:O	2:C:917:SER:CB	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1092:THR:HA	2:C:1093:PRO:HD3	1.90	0.43
3:D:126:LEU:HD12	3:D:127:LEU:H	1.83	0.43
3:D:194:LEU:C	3:D:196:GLN:N	2.73	0.43
3:D:199:GLU:O	3:D:202:ARG:HB2	2.19	0.43
3:D:412:LEU:HD23	3:D:413:ASP:N	2.33	0.43
3:D:420:PRO:HB3	3:D:437:PHE:O	2.19	0.43
3:D:491:LEU:HB2	3:D:904:ALA:CA	2.47	0.43
3:D:536:LEU:HA	3:D:536:LEU:HD13	1.54	0.43
3:D:544:LEU:CD1	3:D:575:GLY:HA3	2.49	0.43
3:D:750:PRO:O	3:D:751:ASP:C	2.61	0.43
3:D:822:MET:O	3:D:879:ALA:HA	2.18	0.43
4:E:29:GLN:O	4:E:35:LYS:N	2.47	0.43
4:E:36:ASP:HB2	4:E:37:PRO:HD3	1.95	0.43
5:F:253:SER:O	5:F:257:LYS:HG3	2.19	0.43
5:F:291:CYS:SG	5:F:315:TRP:HH2	2.42	0.43
2:I:145:ILE:HD12	2:I:145:ILE:HA	1.63	0.43
2:I:149:LEU:HD12	2:I:149:LEU:HA	1.78	0.43
2:I:199:ASP:OD1	2:I:199:ASP:N	2.47	0.43
2:I:291:TYR:C	2:I:293:ALA:H	2.27	0.43
2:I:385:PHE:O	2:I:386:GLU:C	2.61	0.43
2:I:479:LEU:HD23	2:I:479:LEU:HA	1.39	0.43
2:I:673:HIS:HB3	2:I:1109:ILE:HG21	1.99	0.43
2:I:1158:LYS:HG3	2:I:1159:VAL:N	2.32	0.43
2:I:1239:VAL:HG21	3:J:445:LYS:O	2.19	0.43
2:I:1277:ALA:CA	3:J:431:ARG:HA	2.46	0.43
3:J:271:ARG:HE	3:J:271:ARG:HB2	1.04	0.43
3:J:367:GLY:HA3	3:J:448:GLN:HB2	2.01	0.43
3:J:595:ALA:O	3:J:596:LEU:HB2	2.18	0.43
3:J:638:SER:OG	3:J:639:VAL:N	2.52	0.43
3:J:678:ARG:O	3:J:679:TYR:C	2.61	0.43
3:J:888:CYS:SG	3:J:889:ASP:N	2.91	0.43
3:J:1160:SER:N	3:J:1206:ARG:HB3	2.33	0.43
3:J:1169:THR:HG22	3:J:1193:TRP:CH2	2.53	0.43
4:K:49:ILE:HA	4:K:52:ARG:CD	2.31	0.43
5:L:99:ARG:O	5:L:102:MET:HB2	2.19	0.43
5:L:130:VAL:HA	5:L:133:SER:HB3	2.01	0.43
5:L:544:THR:C	5:L:546:ASP:N	2.73	0.43
1:A:44:ARG:CZ	2:C:1087:TYR:CD1	3.02	0.43
1:B:158:ARG:HA	1:B:158:ARG:HD2	1.76	0.43
1:B:290:LEU:HA	1:B:290:LEU:HD12	1.56	0.43
2:C:38:PHE:CE1	2:C:49:LEU:CD2	3.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:97:ARG:NH2	5:F:475:GLY:CA	2.81	0.43
2:C:509:SER:O	2:C:510:GLN:C	2.61	0.43
2:C:529:ARG:C	2:C:530:ILE:CG1	2.90	0.43
2:C:853:ASP:C	2:C:854:ILE:CG1	2.91	0.43
2:C:1111:GLN:HB2	2:C:1230:MET:HE2	2.01	0.43
2:C:1128:ILE:CD1	2:C:1145:ILE:HD11	2.47	0.43
2:C:1158:LYS:C	2:C:1159:VAL:HG22	2.44	0.43
3:D:79:LYS:CG	3:D:80:HIS:N	2.80	0.43
3:D:245:LEU:CG	3:D:249:LEU:HD12	2.48	0.43
3:D:314:ARG:HB3	3:D:314:ARG:HH11	1.82	0.43
3:D:441:LEU:HD13	3:D:441:LEU:HA	1.27	0.43
3:D:451:PRO:O	3:D:454:CYS:HB2	2.19	0.43
3:D:460:ASP:O	3:D:461:PHE:CD2	2.67	0.43
3:D:587:LEU:HA	3:D:588:PRO:HD2	1.76	0.43
3:D:659:ALA:C	3:D:661:VAL:N	2.75	0.43
3:D:795:TYR:O	3:D:795:TYR:HD2	2.01	0.43
3:D:872:LEU:HA	3:D:872:LEU:HD23	1.73	0.43
3:D:1136:GLY:C	3:D:1140:ARG:HB3	2.44	0.43
3:D:1225:GLY:O	3:D:1228:ALA:HB3	2.19	0.43
3:D:1283:SER:O	3:D:1284:ARG:C	2.62	0.43
3:D:1283:SER:O	3:D:1287:ILE:HG12	2.18	0.43
3:D:1319:PHE:CD1	3:D:1320:ILE:N	2.86	0.43
3:D:1372:ARG:HG3	3:J:853:THR:HB	2.01	0.43
5:F:311:THR:C	5:F:345:GLN:HE21	2.27	0.43
5:F:419:PHE:HD1	5:F:430:TYR:CD2	2.37	0.43
1:H:175:ALA:HB1	1:H:177:TYR:CE2	2.54	0.43
1:H:211:ILE:HG13	1:H:216:ALA:HB2	2.01	0.43
2:I:14:ASP:OD1	2:I:1185:PRO:HG3	2.18	0.43
2:I:163:LYS:HE3	2:I:163:LYS:HB3	1.77	0.43
2:I:209:ILE:HA	2:I:212:ALA:HB3	2.01	0.43
2:I:262:TYR:CE1	2:I:282:VAL:HG21	2.54	0.43
2:I:852:ALA:O	2:I:854:ILE:HG13	2.18	0.43
2:I:920:VAL:CG1	2:I:921:PRO:HD2	2.47	0.43
3:J:189:LEU:O	3:J:190:LYS:C	2.62	0.43
3:J:699:ASP:HA	3:J:702:GLN:HE22	1.82	0.43
3:J:739:GLN:O	3:J:763:PHE:HD2	2.01	0.43
5:L:99:ARG:HH12	5:L:103:ARG:HD2	1.83	0.43
5:L:264:LYS:N	5:L:264:LYS:CD	2.81	0.43
5:L:367:ILE:N	5:L:367:ILE:CD1	2.74	0.43
5:L:448:ARG:NH2	5:L:501:ALA:HA	2.33	0.43
5:L:572:THR:HG23	5:L:575:GLU:CB	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:61:ILE:CG2	1:A:64:VAL:CG2	2.75	0.43
1:A:195:ARG:CG	1:A:196:THR:H	2.31	0.43
1:B:106:GLY:O	1:B:133:LEU:HB3	2.19	0.43
2:C:22:LEU:HD22	2:C:22:LEU:C	2.42	0.43
2:C:28:LEU:CD2	2:C:527:LYS:HD2	2.49	0.43
2:C:148:GLN:HG2	2:C:149:LEU:N	2.34	0.43
2:C:148:GLN:HA	2:C:531:SER:O	2.18	0.43
2:C:210:LEU:CB	2:C:220:ILE:HD11	2.49	0.43
2:C:338:THR:HG21	2:C:345:PRO:CB	2.46	0.43
2:C:524:ILE:HD12	2:C:712:SER:HB3	2.00	0.43
2:C:1143:GLU:OE2	2:C:1144:PHE:N	2.52	0.43
2:C:1164:PHE:HD1	2:C:1164:PHE:HA	1.65	0.43
3:D:81:ARG:HA	3:D:92:VAL:HG22	2.00	0.43
3:D:123:ARG:HA	3:D:123:ARG:HD3	1.68	0.43
3:D:132:LEU:HD13	3:D:132:LEU:C	2.43	0.43
3:D:218:THR:O	3:D:221:ILE:HG22	2.19	0.43
3:D:294:ASN:HB2	5:F:101:TYR:HD1	1.84	0.43
3:D:622:ASP:HB3	3:D:626:TYR:HE2	1.78	0.43
3:D:1307:LEU:HD11	3:D:1311:LYS:HB3	2.00	0.43
4:E:13:ILE:O	4:E:14:GLY:C	2.62	0.43
5:F:281:ARG:HB3	5:F:281:ARG:NH1	2.34	0.43
5:F:297:MET:HE2	5:F:326:TRP:HE3	1.84	0.43
1:G:45:ARG:NH1	1:H:38:THR:N	2.66	0.43
1:H:47:LEU:HD22	1:H:180:VAL:HG11	1.99	0.43
1:H:116:THR:O	1:H:116:THR:HG23	2.19	0.43
1:H:172:LEU:N	1:H:172:LEU:HD12	2.33	0.43
2:I:35:PHE:CD2	2:I:130:MET:HB3	2.53	0.43
2:I:303:ASP:HB3	2:I:306:THR:HG1	1.82	0.43
2:I:1048:LYS:O	2:I:1049:ILE:HG13	2.18	0.43
2:I:1205:PRO:HB2	2:I:1207:SER:OG	2.19	0.43
3:J:236:TRP:C	3:J:238:ILE:N	2.76	0.43
3:J:342:LEU:O	3:J:343:LEU:C	2.59	0.43
3:J:510:LEU:HD12	3:J:510:LEU:HA	1.41	0.43
3:J:514:THR:CA	3:J:576:ARG:HG2	2.46	0.43
3:J:525:MET:O	3:J:548:VAL:HG13	2.18	0.43
5:L:228:TYR:CE2	5:L:232:ARG:HB2	2.53	0.43
5:L:253:SER:HA	5:L:256:PHE:HB3	2.01	0.43
5:L:463:LEU:HD12	5:L:487:MET:CE	2.48	0.43
5:L:486:ARG:C	5:L:487:MET:HG2	2.44	0.43
1:A:155:ALA:N	1:A:174:ASP:OD1	2.40	0.43
1:A:185:TYR:HB3	1:A:203:ILE:HG12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:62:ASP:H	1:B:142:MET:CE	2.31	0.43
1:B:91:ARG:HD3	1:B:122:GLU:CD	2.44	0.43
2:C:138:ILE:CG2	2:C:139:ASN:N	2.81	0.43
2:C:558:VAL:C	2:C:576:SER:OG	2.61	0.43
2:C:901:LEU:CG	2:C:905:ILE:HD11	2.49	0.43
2:C:1072:ASN:OD1	2:C:1072:ASN:N	2.50	0.43
3:D:420:PRO:O	3:D:471:PRO:HD2	2.19	0.43
3:D:599:LYS:HG3	3:D:599:LYS:H	1.61	0.43
3:D:1183:SER:HA	3:J:206:ASN:ND2	2.34	0.43
3:D:1270:GLY:HA3	3:D:1297:LYS:C	2.44	0.43
3:D:1321:SER:O	3:D:1325:PHE:CE1	2.72	0.43
4:E:38:LEU:HD12	4:E:38:LEU:N	2.34	0.43
5:F:345:GLN:HA	5:F:348:GLU:OE1	2.18	0.43
1:G:228:LEU:O	1:G:228:LEU:HD12	2.18	0.43
2:I:65:ASN:O	2:I:105:TYR:HD2	2.01	0.43
2:I:499:SER:O	2:I:503:LYS:CB	2.66	0.43
2:I:555:TYR:CE1	2:I:637:ARG:CZ	3.02	0.43
2:I:575:LEU:HD12	2:I:575:LEU:HA	1.44	0.43
2:I:732:ILE:CD1	2:I:753:LEU:HD21	2.47	0.43
2:I:850:ILE:HG21	2:I:870:ILE:HD11	1.99	0.43
2:I:1098:LEU:HD12	2:I:1098:LEU:N	2.33	0.43
2:I:1119:MET:CE	2:I:1204:LEU:HD13	2.48	0.43
2:I:1239:VAL:HG13	2:I:1240:ASP:H	1.84	0.43
2:I:1312:ASN:CG	4:K:32:VAL:HG22	2.44	0.43
3:J:164:GLN:O	3:J:168:ALA:N	2.39	0.43
3:J:426:ALA:O	3:J:428:THR:N	2.52	0.43
3:J:514:THR:OG1	3:J:595:ALA:O	2.34	0.43
3:J:584:PRO:HG2	3:J:587:LEU:CD1	2.48	0.43
3:J:909:ILE:HD12	3:J:909:ILE:HA	1.62	0.43
5:L:275:VAL:HA	5:L:278:ASP:OD2	2.19	0.43
1:B:23:HIS:ND1	1:B:206:GLU:HG2	2.34	0.43
1:B:89:ALA:HB3	1:B:124:VAL:N	2.34	0.43
1:B:105:SER:C	1:B:133:LEU:HD23	2.44	0.43
1:B:232:VAL:O	1:B:233:ASP:HB2	2.19	0.43
2:C:478:ARG:NH2	2:C:482:GLY:HA2	2.34	0.43
2:C:953:LEU:C	2:C:953:LEU:HD12	2.43	0.43
2:C:1192:GLU:CD	3:D:764:ARG:HH11	2.18	0.43
2:C:1273:MET:HB3	2:C:1273:MET:HE3	1.76	0.43
2:C:1315:MET:HE2	2:C:1317:PRO:CD	2.38	0.43
3:D:22:ILE:CG2	3:D:1319:PHE:CE2	3.02	0.43
3:D:127:LEU:HD12	3:D:127:LEU:C	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:253:VAL:HA	3:D:254:PRO:HD3	1.90	0.43
3:D:284:ASP:OD1	3:D:284:ASP:N	2.49	0.43
3:D:426:ALA:HB3	3:D:427:PRO:CD	2.48	0.43
3:D:490:ILE:C	3:D:491:LEU:HD23	2.43	0.43
3:D:514:THR:HG21	3:D:596:LEU:CB	2.42	0.43
3:D:583:VAL:HA	3:D:584:PRO:HD3	1.90	0.43
3:D:661:VAL:HG23	3:D:662:ALA:N	2.33	0.43
3:D:912:GLY:O	3:D:1359:ALA:HB1	2.18	0.43
3:D:1157:ALA:HB3	3:D:1206:ARG:C	2.44	0.43
3:D:1163:VAL:HG23	3:D:1175:LEU:HD21	1.93	0.43
3:D:1342:ASP:C	3:D:1344:LEU:H	2.26	0.43
5:F:128:ASN:O	5:F:131:GLN:N	2.52	0.43
5:F:379:MET:HE2	5:F:379:MET:C	2.44	0.43
5:F:562:ARG:CZ	5:F:573:LEU:HG	2.49	0.43
1:H:10:LYS:HA	1:H:11:PRO:HD3	1.77	0.43
1:H:79:LEU:CA	1:H:82:LEU:HG	2.45	0.43
2:I:4:SER:N	2:I:7:GLU:HB2	2.31	0.43
2:I:173:ASN:CA	2:I:186:PHE:O	2.67	0.43
2:I:496:LYS:HD2	2:I:497:PRO:CD	2.48	0.43
2:I:801:ARG:HB2	2:I:1229:TYR:CE2	2.54	0.43
2:I:903:ARG:NE	2:I:910:ALA:HB2	2.34	0.43
2:I:1204:LEU:HB3	2:I:1205:PRO:HD2	2.01	0.43
2:I:1285:TYR:HB2	3:J:479:GLU:OE1	2.18	0.43
2:I:1330:ILE:CG2	2:I:1335:ILE:HB	2.49	0.43
3:J:138:VAL:HG11	3:J:145:VAL:HG12	1.99	0.43
3:J:141:PHE:CB	3:J:293:ARG:HD3	2.49	0.43
3:J:279:LEU:CB	3:J:295:GLU:HG2	2.49	0.43
3:J:365:GLN:C	3:J:437:PHE:HD1	2.26	0.43
3:J:416:ILE:HG12	3:J:441:LEU:CD2	2.48	0.43
3:J:816:THR:OG1	3:J:818:GLU:HB2	2.19	0.43
3:J:1343:GLU:CG	3:J:1373:ARG:NH2	2.78	0.43
5:L:130:VAL:O	5:L:134:VAL:N	2.49	0.43
5:L:377:LYS:O	5:L:381:GLU:CG	2.62	0.43
5:L:453:PRO:CB	5:L:455:HIS:CE1	2.98	0.43
1:A:50:SER:HA	1:A:150:ARG:HD2	2.01	0.43
1:B:10:LYS:HB2	1:B:10:LYS:HE3	1.81	0.43
1:B:129:VAL:C	1:B:130:ILE:HG13	2.43	0.43
1:B:205:MET:HE3	1:B:205:MET:HB3	1.76	0.43
2:C:59:ILE:HD11	2:C:472:GLU:HA	2.01	0.43
2:C:82:VAL:CG2	2:C:92:TYR:CE1	3.02	0.43
2:C:143:ARG:NH2	2:C:512:SER:OG	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:427:ASP:O	2:C:430:LYS:HB2	2.19	0.43
2:C:566:GLY:HA3	2:C:567:PRO:HD3	1.62	0.43
2:C:671:LEU:HD23	2:C:1186:VAL:CG1	2.49	0.43
2:C:677:ASN:O	2:C:681:MET:HG3	2.19	0.43
2:C:884:VAL:O	2:C:917:SER:HB2	2.18	0.43
2:C:976:ARG:NH2	2:C:990:ASP:OD2	2.52	0.43
2:C:1112:ILE:HD11	3:D:639:VAL:CG2	2.49	0.43
2:C:1120:ALA:CB	2:C:1199:LEU:HD23	2.39	0.43
2:C:1132:LEU:HD23	2:C:1132:LEU:C	2.44	0.43
3:D:22:ILE:CD1	3:D:1336:ALA:HB2	2.49	0.43
3:D:24:LEU:HD13	3:D:24:LEU:HA	1.36	0.43
3:D:237:MET:C	3:D:238:ILE:HD13	2.43	0.43
3:D:263:SER:HA	5:F:507:MET:HE2	2.01	0.43
3:D:289:ASP:HA	3:D:292:VAL:CG1	2.40	0.43
3:D:316:ILE:HG13	3:D:317:THR:O	2.18	0.43
3:D:842:ARG:HH22	3:D:884:SER:HB2	1.84	0.43
3:D:903:LEU:HD22	3:D:909:ILE:HD12	1.96	0.43
3:D:1158:GLU:HG3	3:D:1186:TYR:CZ	2.54	0.43
3:D:1297:LYS:N	3:D:1298:VAL:HA	2.33	0.43
1:G:44:ARG:HG3	1:G:183:ILE:HG21	1.98	0.43
1:G:77:ASP:OD1	2:I:729:ALA:HB1	2.19	0.43
1:H:37:HIS:CG	2:I:1216:ARG:HD2	2.52	0.43
1:H:224:LEU:HD12	1:H:224:LEU:O	2.18	0.43
2:I:62:TYR:OH	2:I:476:LYS:HB2	2.19	0.43
2:I:80:PHE:HB2	2:I:85:CYS:SG	2.59	0.43
2:I:137:VAL:O	2:I:138:ILE:HD12	2.18	0.43
2:I:202:ARG:HB2	2:I:202:ARG:NH1	2.34	0.43
2:I:285:ILE:HD12	2:I:286:GLU:O	2.19	0.43
2:I:435:ILE:C	2:I:437:ASN:N	2.77	0.43
2:I:629:PHE:HE2	2:I:650:VAL:HG21	1.78	0.43
2:I:1156:ARG:HG3	2:I:1156:ARG:NH1	2.34	0.43
2:I:1278:LEU:HD12	2:I:1287:LEU:HB2	2.00	0.43
3:J:194:LEU:O	3:J:195:GLU:C	2.62	0.43
3:J:256:ASP:C	3:J:258:GLY:H	2.26	0.43
3:J:326:SER:O	3:J:329:ASP:HB2	2.19	0.43
3:J:353:SER:OG	3:J:354:VAL:O	2.30	0.43
3:J:391:ALA:O	3:J:392:THR:C	2.61	0.43
3:J:591:ILE:HG23	3:J:592:VAL:CG1	2.46	0.43
3:J:686:TRP:CE3	3:J:686:TRP:HA	2.54	0.43
3:J:847:ASP:CA	3:J:860:ARG:H	2.32	0.43
4:K:58:LEU:O	4:K:63:ILE:HG21	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:135:ALA:HA	5:L:256:PHE:CD2	2.54	0.43
5:L:287:ILE:HG21	5:L:315:TRP:CH2	2.53	0.43
5:L:311:THR:O	5:L:341:LEU:HB3	2.19	0.43
1:A:83:LEU:HB3	2:C:694:ARG:HH21	1.84	0.42
1:B:16:ILE:CD1	1:B:214:GLU:HG3	2.48	0.42
1:B:104:LYS:HG2	1:B:110:VAL:CG1	2.49	0.42
1:B:145:LYS:CG	1:B:146:VAL:N	2.81	0.42
1:B:228:LEU:C	1:B:230:ALA:N	2.69	0.42
1:B:304:LYS:HE3	1:B:304:LYS:HB2	1.39	0.42
2:C:46:GLN:O	2:C:47:TYR:C	2.62	0.42
2:C:174:ALA:HB2	2:C:432:LEU:HD22	2.01	0.42
2:C:319:LEU:HD23	2:C:319:LEU:O	2.19	0.42
2:C:572:ILE:O	2:C:573:ASN:CB	2.62	0.42
2:C:696:ASP:O	2:C:697:LYS:HB3	2.19	0.42
2:C:805:MET:O	2:C:805:MET:HG3	2.18	0.42
2:C:811:ASN:HD22	2:C:1099:ASN:N	2.15	0.42
2:C:899:GLU:O	2:C:900:LYS:C	2.62	0.42
2:C:1029:LEU:O	2:C:1032:LYS:N	2.51	0.42
2:C:1164:PHE:HB2	2:C:1168:GLU:CG	2.48	0.42
3:D:62:PHE:CG	3:D:247:PRO:CD	3.02	0.42
3:D:71:LEU:HD22	3:D:71:LEU:C	2.43	0.42
3:D:97:VAL:HB	3:D:101:ARG:HG3	2.01	0.42
3:D:193:ASP:CB	3:D:196:GLN:HG2	2.46	0.42
3:D:262:THR:N	5:F:507:MET:HG3	2.34	0.42
3:D:285:LEU:HD12	3:D:285:LEU:N	2.34	0.42
3:D:580:TRP:HA	3:D:583:VAL:HG23	2.01	0.42
3:D:704:GLU:O	3:D:704:GLU:HG3	2.19	0.42
3:D:706:VAL:HG12	3:D:715:LYS:HE2	2.01	0.42
3:D:788:LEU:O	3:D:789:LYS:C	2.60	0.42
3:D:795:TYR:O	3:D:795:TYR:CD2	2.72	0.42
3:D:1156:LEU:HG	3:D:1224:ARG:NH2	2.32	0.42
5:F:134:VAL:C	5:F:136:GLU:H	2.25	0.42
5:F:440:THR:CG2	5:F:441:ARG:N	2.79	0.42
5:F:488:LEU:HD23	5:F:488:LEU:O	2.19	0.42
1:G:152:TYR:CZ	2:I:824:GLN:HA	2.54	0.42
1:H:153:VAL:HG21	1:H:177:TYR:HE2	1.84	0.42
2:I:82:VAL:O	2:I:86:GLN:N	2.51	0.42
2:I:127:ILE:O	2:I:127:ILE:HG13	2.19	0.42
2:I:154:GLY:HA3	2:I:404:LYS:HB2	2.01	0.42
2:I:558:VAL:HG12	2:I:559:CYS:N	2.33	0.42
2:I:606:LEU:HD23	2:I:611:GLU:CA	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:681:MET:O	2:I:685:MET:HG3	2.19	0.42
2:I:809:GLY:HA2	3:J:629:PHE:CE1	2.54	0.42
2:I:1117:LEU:O	2:I:1118:GLY:C	2.61	0.42
2:I:1289:GLU:OE2	3:J:473:THR:HG22	2.18	0.42
2:I:1290:MET:O	3:J:347:VAL:HG21	2.19	0.42
3:J:137:ARG:HD3	3:J:143:SER:OG	2.18	0.42
3:J:378:LYS:HA	3:J:381:ILE:HD12	2.00	0.42
3:J:523:GLU:OE2	3:J:547:ARG:HD2	2.19	0.42
3:J:594:GLN:HB2	3:J:595:ALA:H	1.63	0.42
3:J:809:VAL:CG1	3:J:911:LYS:HA	2.48	0.42
3:J:814:CYS:SG	3:J:888:CYS:SG	3.16	0.42
3:J:868:TRP:O	3:J:872:LEU:HB2	2.19	0.42
5:L:130:VAL:HA	5:L:133:SER:HB2	1.99	0.42
5:L:584:ARG:C	5:L:586:ARG:N	2.74	0.42
1:A:108:GLY:O	1:A:133:LEU:HB2	2.19	0.42
2:C:209:ILE:O	2:C:209:ILE:HG12	2.17	0.42
2:C:364:VAL:O	2:C:367:TYR:N	2.51	0.42
2:C:379:GLU:H	2:C:379:GLU:CD	2.21	0.42
2:C:638:SER:HB3	2:C:639:LYS:H	1.70	0.42
2:C:775:GLU:HA	2:C:776:PRO:HD3	1.73	0.42
2:C:842:ASP:HB2	2:C:1045:GLY:O	2.20	0.42
2:C:994:ARG:HG2	2:C:997:TRP:CZ2	2.54	0.42
2:C:1109:ILE:HD11	3:D:644:MET:CE	2.50	0.42
2:C:1180:MET:HA	2:C:1181:PRO:HD3	1.49	0.42
3:D:156:ARG:C	3:D:158:GLN:H	2.27	0.42
3:D:425:ARG:HH11	3:D:459:ALA:HB2	1.83	0.42
3:D:491:LEU:O	3:D:904:ALA:CA	2.67	0.42
3:D:510:LEU:HD12	3:D:513:MET:HE2	2.01	0.42
3:D:514:THR:HA	3:D:576:ARG:HG2	2.00	0.42
3:D:751:ASP:HB3	3:D:753:SER:HB3	2.00	0.42
3:D:812:ASP:CA	3:D:911:LYS:HE3	2.49	0.42
3:D:1173:ARG:NH2	3:D:1192:LYS:HB3	2.34	0.42
3:D:1280:VAL:HG21	3:D:1304:ARG:CZ	2.49	0.42
3:D:1285:VAL:O	3:D:1288:ALA:HB3	2.19	0.42
3:D:1328:THR:HG22	3:D:1329:THR:N	2.34	0.42
3:D:1340:LYS:HG2	3:D:1341:ARG:N	2.34	0.42
2:I:548:ARG:O	3:J:780:ARG:NH1	2.47	0.42
2:I:565:GLU:CD	2:I:681:MET:HE3	2.44	0.42
2:I:633:LEU:N	2:I:633:LEU:CD2	2.79	0.42
2:I:732:ILE:HG21	2:I:783:LEU:HD12	2.01	0.42
2:I:816:ILE:CG2	2:I:817:LEU:N	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:908:GLU:OE2	5:L:608:ARG:HD2	2.19	0.42
2:I:971:LEU:O	2:I:1014:LEU:HD23	2.19	0.42
2:I:1115:THR:HG22	2:I:1228:GLY:C	2.44	0.42
2:I:1144:PHE:O	2:I:1145:ILE:C	2.62	0.42
3:J:24:LEU:HD21	3:J:1337:VAL:HG12	2.01	0.42
3:J:48:THR:C	3:J:50:LYS:N	2.72	0.42
3:J:97:VAL:C	3:J:99:ARG:N	2.76	0.42
3:J:309:ASN:N	3:J:326:SER:OG	2.47	0.42
3:J:423:LEU:HD11	3:J:447:ILE:HD13	2.00	0.42
3:J:492:SER:HG	3:J:495:ASN:CG	2.19	0.42
3:J:666:GLU:O	3:J:670:SER:OG	2.27	0.42
3:J:810:THR:OG1	3:J:811:GLU:N	2.47	0.42
3:J:903:LEU:HD22	3:J:909:ILE:HD12	2.01	0.42
3:J:1143:ASP:OD1	3:J:1143:ASP:N	2.50	0.42
5:L:277:MET:HE3	5:L:281:ARG:HG3	2.01	0.42
5:L:324:LYS:HB2	5:L:327:SER:OG	2.19	0.42
1:A:155:ALA:CB	1:A:174:ASP:OD1	2.66	0.42
1:B:16:ILE:O	1:B:16:ILE:HG12	2.19	0.42
1:B:77:ASP:N	1:B:77:ASP:OD1	2.50	0.42
2:C:184:LEU:HD12	2:C:185:ASP:H	1.84	0.42
2:C:201:ARG:NH1	2:C:370:MET:HE1	2.35	0.42
2:C:230:PHE:CZ	2:C:292:ILE:HD11	2.54	0.42
2:C:325:LEU:HB2	2:C:330:HIS:CD2	2.54	0.42
2:C:484:LEU:HB2	2:C:485:ASP:H	1.44	0.42
2:C:979:LEU:HD21	2:C:1000:LEU:HD12	2.00	0.42
2:C:1159:VAL:HB	2:C:1160:ASP:H	1.55	0.42
2:C:1233:LEU:N	2:C:1233:LEU:CD1	2.82	0.42
2:C:1308:ILE:CG2	3:D:380:PHE:CD2	3.02	0.42
3:D:37:GLU:CB	3:D:104:HIS:CE1	2.98	0.42
3:D:84:ILE:HD12	3:D:85:CYS:O	2.19	0.42
3:D:117:LEU:HG	3:D:117:LEU:O	2.20	0.42
3:D:144:TYR:CE2	3:D:180:MET:SD	3.12	0.42
3:D:265:LEU:HA	3:D:265:LEU:HD23	1.65	0.42
3:D:291:ILE:O	3:D:294:ASN:HB3	2.20	0.42
3:D:585:LYS:C	3:D:587:LEU:H	2.26	0.42
3:D:795:TYR:CE2	3:D:799:ARG:CD	3.02	0.42
3:D:1145:PHE:HB2	3:D:1309:ILE:HD11	2.00	0.42
3:D:1219:ASP:HA	3:D:1222:ARG:HH21	1.84	0.42
3:D:1262:ARG:HH22	3:D:1312:ALA:CB	2.26	0.42
3:D:1368:ASP:HA	3:D:1371:ARG:NH2	2.32	0.42
5:F:339:ARG:HE	5:F:339:ARG:HB3	1.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:552:THR:HG23	5:F:555:GLU:CD	2.44	0.42
5:F:574:GLU:HA	5:F:574:GLU:OE2	2.19	0.42
1:G:123:ILE:HD13	1:G:123:ILE:N	2.35	0.42
1:G:166:ARG:O	1:G:166:ARG:HD2	2.18	0.42
1:G:191:ARG:HH12	1:G:197:ASP:C	2.28	0.42
1:H:144:ILE:HG13	1:H:145:LYS:N	2.34	0.42
2:I:35:PHE:O	2:I:38:PHE:CB	2.67	0.42
2:I:170:VAL:HG21	2:I:172:TYR:OH	2.19	0.42
2:I:320:ASP:CG	2:I:321:LEU:N	2.76	0.42
2:I:356:THR:HG21	2:I:362:ALA:HA	2.02	0.42
2:I:368:ARG:O	2:I:372:PRO:CB	2.67	0.42
2:I:845:LEU:N	2:I:845:LEU:HD23	2.34	0.42
2:I:927:THR:O	2:I:1055:ALA:N	2.33	0.42
2:I:1075:VAL:CG2	3:J:463:GLY:N	2.82	0.42
2:I:1105:SER:HA	3:J:736:GLN:CD	2.44	0.42
3:J:120:LEU:CB	3:J:121:PRO:CD	2.82	0.42
3:J:141:PHE:C	3:J:180:MET:HE2	2.44	0.42
3:J:152:THR:OG1	3:J:153:ASN:N	2.49	0.42
3:J:238:ILE:HD13	3:J:238:ILE:HA	1.71	0.42
3:J:490:ILE:O	3:J:490:ILE:HD13	2.19	0.42
3:J:544:LEU:HD12	3:J:575:GLY:HA2	2.01	0.42
3:J:1284:ARG:NH1	3:J:1288:ALA:HB2	2.22	0.42
3:J:1307:LEU:HA	3:J:1307:LEU:HD12	1.54	0.42
4:K:20:VAL:O	4:K:24:ALA:HB2	2.18	0.42
5:L:227:GLN:O	5:L:230:VAL:HG12	2.19	0.42
5:L:418:LYS:O	5:L:430:TYR:HE2	2.02	0.42
1:B:102:LEU:C	1:B:102:LEU:HD22	2.44	0.42
2:C:70:TYR:CZ	2:C:72:SER:CA	3.02	0.42
2:C:189:ASP:OD1	2:C:193:ASN:HB2	2.20	0.42
2:C:268:ARG:O	2:C:270:THR:HG23	2.19	0.42
2:C:484:LEU:HD12	2:C:486:THR:HB	2.01	0.42
2:C:950:GLU:C	2:C:953:LEU:HB3	2.44	0.42
2:C:1137:GLU:O	2:C:1137:GLU:HG2	2.19	0.42
2:C:1144:PHE:O	2:C:1145:ILE:C	2.61	0.42
3:D:232:ASN:HA	3:D:236:TRP:CZ3	2.54	0.42
3:D:423:LEU:HD12	3:D:468:VAL:CG1	2.29	0.42
3:D:491:LEU:HD23	3:D:491:LEU:HA	1.40	0.42
3:D:534:GLU:O	3:D:537:TYR:N	2.45	0.42
3:D:907:HIS:ND1	3:D:907:HIS:N	2.67	0.42
3:D:1232:TYR:CD1	3:D:1232:TYR:C	2.97	0.42
4:E:39:VAL:HG13	4:E:40:PRO:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:601:PRO:C	5:F:603:ARG:N	2.77	0.42
1:G:15:ASP:O	1:G:27:THR:N	2.38	0.42
1:H:47:LEU:HD13	1:H:205:MET:SD	2.59	0.42
2:I:61:SER:HG	2:I:66:SER:N	2.10	0.42
2:I:62:TYR:CZ	2:I:476:LYS:CB	2.99	0.42
2:I:325:LEU:HA	2:I:328:SER:CB	2.50	0.42
2:I:395:TYR:CE2	2:I:397:LEU:CD1	2.98	0.42
2:I:769:PRO:HA	2:I:784:ALA:HB1	2.01	0.42
2:I:800:MET:HG3	2:I:1096:ILE:HD11	2.00	0.42
2:I:877:VAL:HG21	2:I:883:LEU:HD21	2.01	0.42
2:I:1092:THR:HA	2:I:1093:PRO:HD3	1.83	0.42
2:I:1230:MET:HG2	2:I:1232:MET:HG3	2.02	0.42
2:I:1276:TRP:C	2:I:1278:LEU:N	2.76	0.42
2:I:1302:THR:HG22	5:L:531:PRO:HA	2.01	0.42
3:J:50:LYS:HB3	3:J:51:PRO:CD	2.49	0.42
3:J:119:SER:O	3:J:120:LEU:C	2.62	0.42
3:J:322:ARG:HB2	3:J:322:ARG:CZ	2.49	0.42
3:J:333:GLY:O	3:J:335:GLN:N	2.52	0.42
3:J:398:LYS:O	3:J:401:VAL:HG22	2.20	0.42
3:J:438:GLU:OE2	3:J:481:ARG:NH2	2.53	0.42
3:J:526:VAL:HG13	3:J:549:LYS:HB2	2.00	0.42
3:J:683:ILE:O	3:J:683:ILE:HG12	2.16	0.42
3:J:740:LEU:N	3:J:740:LEU:CD1	2.81	0.42
3:J:766:GLY:O	3:J:767:LEU:HD12	2.20	0.42
4:K:63:ILE:O	4:K:66:VAL:HB	2.20	0.42
5:L:118:ASP:O	5:L:122:ARG:HG3	2.20	0.42
5:L:509:THR:HB	5:L:519:LEU:HB2	2.01	0.42
5:L:604:SER:O	5:L:607:LEU:N	2.52	0.42
1:A:35:PHE:HD1	1:A:35:PHE:HA	1.51	0.42
1:A:41:ASN:ND2	2:C:1216:ARG:C	2.77	0.42
1:A:168:ILE:H	1:A:168:ILE:HG12	1.61	0.42
2:C:5:TYR:HD1	2:C:5:TYR:HA	1.60	0.42
2:C:221:LEU:HD11	2:C:314:ASN:HB2	2.02	0.42
2:C:244:GLU:HB2	2:C:278:GLU:OE2	2.19	0.42
2:C:599:VAL:C	2:C:600:THR:O	2.62	0.42
2:C:686:GLN:C	2:C:688:GLN:N	2.77	0.42
2:C:960:LEU:HD22	2:C:960:LEU:N	2.34	0.42
2:C:1138:VAL:HG23	2:C:1139:ALA:N	2.35	0.42
3:D:9:LYS:HE2	3:D:11:GLN:CA	2.49	0.42
3:D:64:PRO:HB3	3:D:69:GLU:O	2.19	0.42
3:D:83:VAL:CG2	3:D:84:ILE:N	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:102:MET:HE2	3:D:102:MET:HB3	1.61	0.42
3:D:267:ASP:C	3:D:267:ASP:OD1	2.63	0.42
3:D:483:LEU:N	3:D:483:LEU:HD23	2.34	0.42
3:D:1256:ILE:O	3:D:1257:VAL:C	2.63	0.42
3:D:1309:ILE:O	3:D:1312:ALA:HB3	2.19	0.42
4:E:81:GLN:HA	4:E:84:THR:OG1	2.18	0.42
5:F:268:TYR:O	5:F:272:SER:N	2.37	0.42
1:G:35:PHE:CZ	1:H:50:SER:CB	3.01	0.42
1:H:191:ARG:NH2	3:J:413:ASP:OD2	2.52	0.42
2:I:495:ALA:HB3	5:L:471:LEU:HD13	2.01	0.42
2:I:1023:HIS:O	2:I:1026:GLU:N	2.52	0.42
2:I:1082:ILE:O	2:I:1085:MET:HB2	2.19	0.42
2:I:1276:TRP:CE2	3:J:801:VAL:HG21	2.54	0.42
2:I:1305:TYR:HE1	3:J:379:PRO:HG3	1.81	0.42
3:J:53:ARG:CZ	3:J:60:ARG:HD2	2.50	0.42
3:J:293:ARG:O	3:J:296:LYS:N	2.52	0.42
3:J:363:LEU:HA	3:J:450:HIS:CD2	2.54	0.42
3:J:412:LEU:HD23	3:J:412:LEU:C	2.44	0.42
3:J:573:THR:O	3:J:577:ALA:HB2	2.19	0.42
3:J:579:LEU:O	3:J:580:TRP:C	2.63	0.42
3:J:919:ALA:HB2	3:J:1255:VAL:HG11	2.00	0.42
5:L:377:LYS:O	5:L:380:VAL:HG12	2.19	0.42
5:L:507:MET:C	5:L:509:THR:N	2.76	0.42
1:A:118:ASP:HB3	1:A:121:VAL:HB	2.01	0.42
1:B:88:LEU:CD1	1:B:89:ALA:N	2.68	0.42
2:C:207:THR:O	2:C:208:ILE:C	2.62	0.42
2:C:448:LEU:HD11	2:C:554:HIS:CE1	2.54	0.42
2:C:478:ARG:CZ	2:C:482:GLY:HA2	2.49	0.42
2:C:672:GLU:CG	2:C:1187:PHE:HD2	2.31	0.42
2:C:761:GLN:O	2:C:762:ASN:C	2.62	0.42
2:C:903:ARG:HH21	2:C:910:ALA:HA	1.83	0.42
2:C:952:GLN:O	2:C:956:ALA:N	2.36	0.42
2:C:1128:ILE:O	2:C:1129:ASN:C	2.62	0.42
2:C:1201:LEU:HD12	2:C:1201:LEU:C	2.43	0.42
2:C:1243:MET:HE2	2:C:1243:MET:HB3	1.90	0.42
2:C:1254:VAL:HG22	2:C:1255:THR:N	2.35	0.42
3:D:113:HIS:ND1	3:D:113:HIS:C	2.77	0.42
3:D:120:LEU:O	3:D:121:PRO:C	2.56	0.42
3:D:377:PHE:HD1	3:D:380:PHE:CD1	2.37	0.42
3:D:491:LEU:HD13	3:D:496:GLY:O	2.19	0.42
3:D:554:GLU:OE2	3:D:588:PRO:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:814:CYS:N	3:D:895:CYS:HB2	2.34	0.42
3:D:1340:LYS:CG	3:D:1341:ARG:N	2.82	0.42
3:D:1373:ARG:C	3:D:1375:ALA:H	2.27	0.42
5:F:130:VAL:O	5:F:134:VAL:HG23	2.20	0.42
5:F:383:ASN:OD1	5:F:427:PHE:HE2	2.02	0.42
5:F:448:ARG:HD2	5:F:452:ILE:CG2	2.49	0.42
5:F:456:MET:O	5:F:460:ILE:HD12	2.19	0.42
5:F:534:SER:O	5:F:537:THR:HB	2.18	0.42
1:G:26:VAL:HG22	1:G:27:THR:N	2.34	0.42
1:G:60:GLU:HG2	1:G:143:ARG:NH2	2.33	0.42
1:H:56:VAL:HG22	1:H:144:ILE:HD12	2.02	0.42
1:H:135:ASP:OD1	1:H:135:ASP:N	2.52	0.42
2:I:37:LYS:HD3	2:I:37:LYS:HA	1.64	0.42
2:I:74:ARG:NH1	2:I:74:ARG:HB3	2.35	0.42
2:I:189:ASP:HB2	2:I:190:PRO:HD2	2.02	0.42
2:I:238:GLN:HA	2:I:285:ILE:O	2.19	0.42
2:I:277:LEU:HD23	2:I:282:VAL:CB	2.45	0.42
2:I:327:GLN:NE2	2:I:328:SER:HB3	2.34	0.42
2:I:369:MET:SD	2:I:370:MET:N	2.93	0.42
2:I:455:SER:O	2:I:456:VAL:C	2.63	0.42
2:I:498:ILE:N	2:I:498:ILE:CD1	2.82	0.42
2:I:525:THR:HG21	2:I:687:ARG:HD2	2.01	0.42
2:I:607:SER:HG	2:I:609:ILE:HG13	1.84	0.42
2:I:671:LEU:HD12	2:I:674:ASP:HB2	2.01	0.42
2:I:693:LEU:HB2	2:I:829:THR:O	2.20	0.42
2:I:791:LEU:HD23	2:I:791:LEU:HA	1.49	0.42
2:I:1116:HIS:CD2	2:I:1226:THR:CG2	3.03	0.42
3:J:95:THR:C	3:J:97:VAL:H	2.28	0.42
3:J:285:LEU:HD12	3:J:285:LEU:N	2.35	0.42
3:J:484:MET:HB3	3:J:484:MET:HE2	1.20	0.42
3:J:672:LEU:HD12	3:J:672:LEU:N	2.35	0.42
3:J:860:ARG:HB3	3:J:861:ASN:H	1.59	0.42
5:L:410:ILE:HG22	5:L:411:GLY:N	2.34	0.42
5:L:539:SER:O	5:L:542:ALA:HB3	2.19	0.42
1:A:68:TYR:HB3	2:C:756:TYR:CD2	2.54	0.42
1:B:123:ILE:HD12	1:B:123:ILE:HA	1.72	0.42
2:C:174:ALA:N	2:C:186:PHE:O	2.41	0.42
2:C:198:ILE:HD13	2:C:388:LEU:HD13	2.02	0.42
2:C:230:PHE:CD1	2:C:239:MET:HB2	2.54	0.42
2:C:339:ASN:O	2:C:345:PRO:HD3	2.19	0.42
2:C:385:PHE:CE2	2:C:390:PHE:CE2	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:587:LEU:HA	2:C:587:LEU:HD23	1.50	0.42
2:C:753:LEU:HA	2:C:753:LEU:HD12	1.31	0.42
2:C:1073:LYS:HB2	3:D:462:ASP:CB	2.49	0.42
2:C:1180:MET:O	2:C:1182:ILE:HG13	2.18	0.42
2:C:1210:ILE:CG2	2:C:1211:ARG:N	2.82	0.42
3:D:15:GLU:O	3:D:17:PHE:N	2.43	0.42
3:D:236:TRP:C	3:D:238:ILE:H	2.27	0.42
3:D:368:LEU:HD23	3:D:369:PRO:N	2.35	0.42
3:D:499:ILE:O	3:D:500:ILE:HD13	2.19	0.42
3:D:537:TYR:CZ	3:D:544:LEU:HD23	2.54	0.42
3:D:572:THR:HG21	3:D:589:TYR:OH	2.19	0.42
3:D:875:ASN:C	3:D:877:VAL:H	2.27	0.42
3:D:1231:ARG:CZ	3:D:1231:ARG:CB	2.97	0.42
5:F:121:LYS:HG2	5:F:421:TYR:OH	2.19	0.42
5:F:133:SER:HA	5:F:136:GLU:OE2	2.19	0.42
5:F:540:LEU:HA	5:F:540:LEU:HD12	1.13	0.42
5:F:542:ALA:O	5:F:546:ASP:N	2.42	0.42
1:G:133:LEU:HD12	1:G:138:ALA:CB	2.49	0.42
1:H:153:VAL:HA	1:H:154:PRO:HD3	1.45	0.42
2:I:100:LEU:HD23	2:I:100:LEU:HA	1.82	0.42
2:I:521:LEU:O	2:I:525:THR:HB	2.18	0.42
2:I:866:ASP:HA	2:I:872:TYR:OH	2.20	0.42
2:I:1243:MET:HB3	2:I:1243:MET:HE2	1.68	0.42
3:J:45:ASN:CG	3:J:48:THR:HG1	2.27	0.42
3:J:290:ILE:H	3:J:290:ILE:CD1	2.33	0.42
3:J:369:PRO:HG3	3:J:446:ALA:O	2.19	0.42
3:J:394:ILE:O	3:J:395:LYS:C	2.62	0.42
3:J:460:ASP:C	3:J:461:PHE:CD2	2.98	0.42
3:J:490:ILE:HG12	3:J:500:ILE:HG12	2.00	0.42
3:J:536:LEU:CD1	3:J:541:LEU:CB	2.97	0.42
3:J:615:LYS:H	3:J:615:LYS:HG3	1.53	0.42
3:J:1146:GLU:HG2	3:J:1148:ARG:CZ	2.49	0.42
3:J:1261:LEU:HD12	3:J:1261:LEU:N	2.35	0.42
4:K:30:MET:CE	4:K:46:THR:HB	2.48	0.42
5:L:240:ARG:HB3	5:L:244:THR:CB	2.34	0.42
5:L:483:LEU:HD23	5:L:483:LEU:C	2.44	0.42
1:A:54:CYS:HB2	1:A:147:GLN:O	2.19	0.42
1:B:102:LEU:H	1:B:142:MET:N	2.18	0.42
2:C:14:ASP:HA	2:C:1183:ALA:HB3	2.01	0.42
2:C:191:LYS:HB3	2:C:191:LYS:HE2	1.87	0.42
2:C:746:ALA:CB	2:C:974:ARG:NE	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:820:GLU:N	2:C:1080:ASN:O	2.39	0.42
2:C:835:GLU:O	2:C:835:GLU:HG2	2.18	0.42
2:C:979:LEU:HD23	2:C:1000:LEU:CD1	2.49	0.42
2:C:1117:LEU:O	2:C:1118:GLY:C	2.62	0.42
2:C:1207:SER:C	2:C:1209:GLN:H	2.27	0.42
3:D:42:GLU:HG3	5:F:451:ARG:CD	2.48	0.42
3:D:128:LEU:HD21	3:D:189:LEU:HD21	1.95	0.42
3:D:133:ARG:HA	3:D:133:ARG:HD2	1.77	0.42
3:D:217:LEU:O	3:D:220:ARG:N	2.53	0.42
3:D:547:ARG:C	3:D:548:VAL:HG23	2.45	0.42
3:D:830:ASP:O	3:D:831:VAL:C	2.62	0.42
3:D:1146:GLU:OE2	3:D:1309:ILE:HG13	2.20	0.42
3:D:1332:LEU:O	3:D:1333:THR:C	2.62	0.42
3:D:1359:ALA:O	3:D:1360:GLY:C	2.63	0.42
5:F:254:GLU:OE1	5:F:254:GLU:HA	2.19	0.42
1:G:42:ALA:HA	1:G:45:ARG:HB3	2.01	0.42
1:G:166:ARG:O	1:G:168:ILE:HG23	2.19	0.42
1:G:201:LEU:HD12	1:G:201:LEU:C	2.45	0.42
2:I:16:GLY:HA2	2:I:1188:ASP:O	2.20	0.42
2:I:107:ARG:HA	2:I:108:GLU:HA	1.91	0.42
2:I:247:ARG:HG3	2:I:248:GLY:N	2.34	0.42
2:I:395:TYR:CE2	2:I:420:LEU:HD21	2.54	0.42
2:I:594:VAL:HB	2:I:651:ASP:C	2.45	0.42
2:I:607:SER:OG	2:I:609:ILE:CG1	2.67	0.42
2:I:706:ARG:O	2:I:709:ALA:N	2.52	0.42
2:I:867:GLU:OE2	2:I:943:LYS:HD3	2.20	0.42
2:I:1049:ILE:CG2	2:I:1050:VAL:N	2.81	0.42
3:J:85:CYS:SG	3:J:88:CYS:N	2.90	0.42
3:J:190:LYS:HE2	3:J:190:LYS:HB2	1.78	0.42
3:J:343:LEU:O	3:J:343:LEU:CG	2.67	0.42
3:J:357:VAL:CA	3:J:461:PHE:CE1	3.03	0.42
3:J:358:GLY:N	3:J:359:PRO:CD	2.83	0.42
3:J:381:ILE:O	3:J:385:LEU:HG	2.20	0.42
3:J:695:LYS:O	3:J:699:ASP:CG	2.63	0.42
3:J:903:LEU:HB3	3:J:905:ARG:HG3	2.02	0.42
5:L:390:ILE:CG2	5:L:436:ARG:HG3	2.48	0.42
5:L:399:LEU:HD13	5:L:399:LEU:HA	1.71	0.42
1:A:112:ALA:O	1:A:115:ILE:HG13	2.19	0.42
1:A:185:TYR:CD2	1:A:185:TYR:C	2.97	0.42
1:B:59:VAL:CG2	1:B:144:ILE:CD1	2.98	0.42
1:B:110:VAL:HG23	1:B:133:LEU:CD1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:135:ASP:OD2	1:B:136:GLU:HB2	2.19	0.42
2:C:74:ARG:NH1	2:C:74:ARG:CB	2.78	0.42
2:C:87:ILE:HG23	2:C:1053:TYR:OH	2.20	0.42
2:C:130:MET:HG2	2:C:131:THR:O	2.19	0.42
2:C:252:SER:O	2:C:253:PHE:HB3	2.20	0.42
2:C:742:TYR:CD2	2:C:743:PRO:HD2	2.53	0.42
2:C:801:ARG:O	2:C:1094:VAL:HG23	2.20	0.42
2:C:804:PHE:HB3	2:C:1100:PRO:HB3	2.02	0.42
2:C:996:ARG:HA	2:C:996:ARG:HD3	1.42	0.42
2:C:1281:TYR:CE2	3:D:431:ARG:O	2.73	0.42
2:C:1287:LEU:HD23	2:C:1288:GLN:HA	2.01	0.42
3:D:98:ARG:O	3:D:248:ASP:N	2.49	0.42
3:D:169:LEU:HD23	3:D:169:LEU:HA	1.70	0.42
3:D:277:ASN:O	3:D:278:ARG:C	2.62	0.42
3:D:363:LEU:HD11	3:D:500:ILE:HG21	2.01	0.42
3:D:432:LEU:HD13	3:D:456:ALA:HB1	2.02	0.42
3:D:478:LEU:O	3:D:479:GLU:C	2.63	0.42
3:D:605:LEU:HA	3:D:605:LEU:HD23	1.66	0.42
3:D:1252:HIS:HA	3:D:1255:VAL:CG1	2.50	0.42
3:D:1262:ARG:NH2	3:D:1312:ALA:O	2.52	0.42
3:D:1289:ASN:C	3:D:1293:GLU:CB	2.93	0.42
4:E:25:ARG:HD3	4:E:64:LEU:CD1	2.48	0.42
5:F:133:SER:OG	5:F:361:ILE:O	2.38	0.42
5:F:520:GLY:C	5:F:522:PHE:N	2.75	0.42
1:G:133:LEU:HD12	1:G:138:ALA:HB3	2.01	0.42
2:I:12:ARG:HG3	2:I:1181:PRO:C	2.45	0.42
2:I:287:VAL:HG23	2:I:288:PRO:N	2.34	0.42
2:I:756:TYR:N	2:I:756:TYR:HD1	2.13	0.42
2:I:778:GLU:HG3	2:I:779:ARG:N	2.35	0.42
2:I:871:VAL:CG2	2:I:872:TYR:N	2.83	0.42
2:I:901:LEU:HB2	5:L:563:PHE:HD2	1.85	0.42
2:I:969:ALA:O	2:I:973:SER:N	2.46	0.42
2:I:1216:ARG:HE	2:I:1216:ARG:HB2	1.70	0.42
2:I:1253:LEU:HD23	2:I:1253:LEU:O	2.20	0.42
2:I:1336:ASN:ND2	3:J:29:MET:CE	2.78	0.42
3:J:123:ARG:HA	3:J:123:ARG:HD3	1.90	0.42
3:J:183:GLU:H	3:J:183:GLU:HG2	1.37	0.42
3:J:279:LEU:HD12	3:J:295:GLU:HG3	2.02	0.42
3:J:343:LEU:O	3:J:343:LEU:CD2	2.67	0.42
3:J:473:THR:HG23	3:J:475:GLU:HB2	2.01	0.42
3:J:615:LYS:NZ	4:K:7:GLN:CG	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1144:LEU:O	3:J:1147:ALA:N	2.53	0.42
4:K:36:ASP:HB2	4:K:37:PRO:CD	2.48	0.42
5:L:121:LYS:HA	5:L:421:TYR:HE2	1.82	0.42
5:L:128:ASN:O	5:L:129:GLN:C	2.62	0.42
5:L:433:TRP:O	5:L:437:GLN:CB	2.68	0.42
5:L:517:SER:O	5:L:518:HIS:ND1	2.34	0.42
1:A:211:ILE:HD13	1:A:211:ILE:HA	1.80	0.42
1:B:201:LEU:HG	1:B:203:ILE:HD11	2.01	0.42
1:B:282:VAL:HA	1:B:314:LEU:HD12	2.01	0.42
2:C:72:SER:OG	2:C:73:TYR:N	2.52	0.42
2:C:145:ILE:HG13	2:C:512:SER:HA	2.00	0.42
2:C:194:LEU:HD12	2:C:194:LEU:HA	1.64	0.42
2:C:421:SER:O	2:C:422:LYS:C	2.63	0.42
2:C:785:ASP:HB3	2:C:789:THR:O	2.20	0.42
2:C:802:VAL:HG22	2:C:803:ALA:N	2.35	0.42
3:D:22:ILE:HG12	3:D:23:ALA:H	1.83	0.42
3:D:197:GLU:OE1	3:D:220:ARG:NH1	2.53	0.42
3:D:225:GLU:O	3:D:229:GLN:HB2	2.20	0.42
3:D:575:GLY:O	3:D:578:ILE:N	2.53	0.42
3:D:704:GLU:O	3:D:706:VAL:HG22	2.20	0.42
3:D:737:ILE:C	3:D:739:GLN:N	2.76	0.42
3:D:759:ILE:CD1	3:D:771:GLN:HA	2.50	0.42
5:F:347:ILE:CG2	5:F:351:THR:HG23	2.49	0.42
1:G:96:ASP:OD2	1:G:148:ARG:NE	2.52	0.42
1:G:231:PHE:HB3	1:H:218:ARG:HA	2.00	0.42
1:H:64:VAL:C	1:H:66:HIS:N	2.78	0.42
1:H:192:VAL:HG12	1:H:195:ARG:CG	2.49	0.42
2:I:27:LEU:HB2	2:I:524:ILE:HD11	2.01	0.42
2:I:165:HIS:O	2:I:166:SER:OG	2.18	0.42
2:I:216:THR:O	2:I:220:ILE:HG13	2.20	0.42
2:I:245:ARG:HG2	2:I:337:PHE:CZ	2.53	0.42
2:I:320:ASP:O	2:I:323:ALA:HB3	2.20	0.42
2:I:699:LEU:HA	2:I:699:LEU:HD23	1.13	0.42
2:I:790:ASP:O	2:I:793:GLU:N	2.42	0.42
2:I:802:VAL:CG2	2:I:1098:LEU:CD1	2.96	0.42
2:I:927:THR:HB	2:I:1055:ALA:HB3	2.01	0.42
2:I:1253:LEU:CD1	3:J:253:VAL:HG11	2.50	0.42
2:I:1305:TYR:CE2	5:L:532:LEU:HD23	2.55	0.42
3:J:123:ARG:HH12	3:J:1334:GLU:HG3	1.84	0.42
3:J:227:PHE:CE2	3:J:232:ASN:CB	2.95	0.42
3:J:457:TYR:O	3:J:458:ASN:CB	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:641:ILE:HD13	3:J:764:ARG:NE	2.35	0.42
3:J:649:LYS:O	3:J:650:LYS:C	2.62	0.42
3:J:735:ALA:O	3:J:738:ARG:HB3	2.20	0.42
3:J:800:LEU:C	3:J:802:ASP:N	2.77	0.42
3:J:847:ASP:N	3:J:860:ARG:HA	2.35	0.42
3:J:888:CYS:SG	3:J:890:THR:CB	3.08	0.42
5:L:296:LYS:HD2	5:L:296:LYS:HA	1.88	0.42
5:L:489:MET:HA	5:L:490:PRO:HD2	1.75	0.42
5:L:519:LEU:C	5:L:521:ASP:N	2.77	0.42
5:L:525:ASP:OD1	5:L:527:THR:N	2.50	0.42
5:L:587:ILE:CG2	5:L:588:ARG:N	2.83	0.42
1:A:61:ILE:HD12	1:A:61:ILE:HG21	1.70	0.41
1:A:75:GLN:O	2:C:729:ALA:HB2	2.20	0.41
1:A:92:VAL:HG12	1:A:121:VAL:CG2	2.42	0.41
1:A:129:VAL:O	1:A:129:VAL:HG13	2.20	0.41
1:B:44:ARG:O	1:B:45:ARG:C	2.62	0.41
1:B:143:ARG:H	1:B:143:ARG:HG3	1.63	0.41
2:C:94:ALA:HA	2:C:95:PRO:HD3	1.54	0.41
2:C:155:VAL:CG2	2:C:176:ILE:HG12	2.50	0.41
2:C:158:ASP:C	2:C:442:VAL:HG11	2.44	0.41
2:C:163:LYS:HE3	2:C:163:LYS:HB3	1.87	0.41
2:C:209:ILE:O	2:C:212:ALA:HB3	2.20	0.41
2:C:327:GLN:NE2	2:C:328:SER:HB3	2.35	0.41
2:C:328:SER:OG	2:C:330:HIS:CD2	2.73	0.41
2:C:487:LEU:HD23	2:C:487:LEU:O	2.19	0.41
2:C:572:ILE:HD13	2:C:572:ILE:HA	1.79	0.41
2:C:631:GLU:OE1	2:C:631:GLU:N	2.53	0.41
2:C:1021:LEU:HD23	2:C:1021:LEU:HA	1.67	0.41
2:C:1144:PHE:O	2:C:1147:ARG:N	2.43	0.41
2:C:1278:LEU:HB3	2:C:1283:ALA:HB3	2.02	0.41
3:D:88:CYS:O	3:D:90:VAL:HG23	2.20	0.41
3:D:311:ARG:C	3:D:312:ARG:HG2	2.45	0.41
3:D:513:MET:SD	3:D:631:TYR:CD2	3.13	0.41
3:D:550:VAL:CG2	3:D:572:THR:HG22	2.50	0.41
3:D:778:GLY:O	3:D:779:ALA:C	2.63	0.41
3:D:848:VAL:HG12	3:D:858:VAL:N	2.17	0.41
3:D:1233:ILE:HG21	3:D:1257:VAL:HG23	2.02	0.41
5:F:119:ILE:HG22	5:F:123:ILE:HG13	2.02	0.41
5:F:227:GLN:HG3	5:F:252:LEU:HD13	2.02	0.41
5:F:463:LEU:HG	5:F:483:LEU:HD21	2.00	0.41
5:F:518:HIS:HB2	5:F:521:ASP:CG	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:76:GLU:CD	1:G:132:HIS:H	2.22	0.41
1:H:43:LEU:O	1:H:46:ILE:N	2.47	0.41
1:H:76:GLU:HB2	1:H:81:ILE:CG1	2.50	0.41
2:I:68:LEU:HD12	2:I:69:GLN:N	2.35	0.41
2:I:74:ARG:HH22	2:I:97:ARG:HG3	1.85	0.41
2:I:402:ARG:HD2	2:I:406:ASN:CG	2.45	0.41
2:I:556:GLY:HA2	2:I:659:GLN:O	2.20	0.41
2:I:720:ARG:NH1	2:I:749:ASP:OD2	2.42	0.41
2:I:801:ARG:HA	2:I:1229:TYR:CE2	2.55	0.41
2:I:802:VAL:HG23	2:I:1098:LEU:CD1	2.50	0.41
2:I:871:VAL:HG22	2:I:872:TYR:N	2.35	0.41
2:I:1073:LYS:HB3	3:J:462:ASP:HB2	2.02	0.41
2:I:1155:VAL:HG23	2:I:1156:ARG:N	2.34	0.41
2:I:1319:MET:HE2	2:I:1319:MET:HB3	1.64	0.41
2:I:1330:ILE:HG23	2:I:1335:ILE:HB	2.02	0.41
3:J:67:ASP:O	3:J:68:TYR:C	2.63	0.41
3:J:67:ASP:OD1	3:J:94:GLN:HB3	2.20	0.41
3:J:449:LEU:HD12	3:J:450:HIS:N	2.34	0.41
3:J:450:HIS:HE1	3:J:452:LEU:CG	2.33	0.41
3:J:502:PRO:HA	3:J:506:VAL:HG11	2.01	0.41
3:J:526:VAL:C	3:J:527:LEU:HD12	2.45	0.41
3:J:557:LYS:HA	3:J:562:GLU:O	2.20	0.41
3:J:877:VAL:O	3:J:877:VAL:CG1	2.68	0.41
3:J:1138:LEU:CB	3:J:1139:PRO:HD3	2.35	0.41
3:J:1363:TYR:CD2	3:J:1363:TYR:C	2.98	0.41
4:K:77:ALA:C	4:K:79:GLU:N	2.78	0.41
5:L:346:GLN:HG2	5:L:350:GLU:OE2	2.20	0.41
5:L:563:PHE:O	5:L:565:ILE:HG22	2.20	0.41
1:A:11:PRO:HB3	1:A:31:LEU:HD23	2.01	0.41
1:A:148:ARG:CZ	1:A:148:ARG:HB3	2.50	0.41
1:A:201:LEU:HD12	1:A:201:LEU:HA	1.61	0.41
1:B:46:ILE:O	1:B:47:LEU:C	2.61	0.41
1:B:62:ASP:HB3	1:B:142:MET:HE2	2.02	0.41
1:B:152:TYR:CD1	1:B:176:CYS:HA	2.51	0.41
2:C:12:ARG:NH1	2:C:701:GLY:H	2.18	0.41
2:C:68:LEU:HD12	2:C:68:LEU:HA	1.64	0.41
2:C:142:GLU:H	2:C:760:ASN:HD21	1.68	0.41
2:C:323:ALA:O	2:C:327:GLN:HG3	2.20	0.41
2:C:363:LEU:HD21	2:C:382:GLU:HA	2.01	0.41
2:C:534:GLY:HA3	2:C:535:PRO:HD2	1.48	0.41
2:C:615:VAL:HG13	2:C:651:ASP:N	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:680:LEU:HD13	3:D:783:LEU:HD11	2.02	0.41
2:C:720:ARG:HH22	2:C:742:TYR:H	1.68	0.41
2:C:746:ALA:CB	2:C:974:ARG:HH21	2.34	0.41
2:C:768:MET:HA	2:C:769:PRO:HD3	1.91	0.41
2:C:901:LEU:CA	5:F:563:PHE:CD2	3.03	0.41
2:C:1279:GLU:OE2	8:D:2004:4C4:H31	2.20	0.41
2:C:1290:MET:HE2	2:C:1290:MET:HA	2.01	0.41
3:D:239:LEU:HD23	3:D:239:LEU:HA	1.72	0.41
3:D:252:LEU:HD23	3:D:252:LEU:HA	1.48	0.41
3:D:271:ARG:NE	5:F:400:GLN:HE22	2.16	0.41
3:D:355:ILE:HG22	3:D:447:ILE:HB	2.02	0.41
3:D:436:ALA:HB3	3:D:485:MET:CA	2.49	0.41
3:D:528:THR:HG23	3:D:529:GLY:H	1.85	0.41
3:D:667:GLN:O	3:D:672:LEU:HD13	2.21	0.41
3:D:720:ASN:HD21	3:D:722:ILE:HG22	1.85	0.41
3:D:1184:ASP:N	3:D:1184:ASP:OD2	2.48	0.41
3:D:1196:LEU:N	3:D:1196:LEU:HD13	2.36	0.41
1:G:67:GLU:H	1:G:67:GLU:HG2	1.46	0.41
1:G:178:SER:OG	1:G:180:VAL:CG2	2.69	0.41
1:H:39:LEU:N	1:H:39:LEU:HD23	2.32	0.41
1:H:228:LEU:HD23	1:H:228:LEU:HA	1.92	0.41
2:I:18:ARG:NH2	2:I:621:SER:N	2.68	0.41
2:I:30:ILE:HD12	2:I:30:ILE:H	1.83	0.41
2:I:563:THR:CG2	2:I:564:PRO:O	2.68	0.41
2:I:593:LYS:HG3	2:I:595:THR:HG23	2.02	0.41
2:I:692:THR:CG2	2:I:694:ARG:O	2.68	0.41
2:I:840:SER:HA	2:I:848:GLU:OE1	2.20	0.41
2:I:1217:THR:C	2:I:1219:GLU:H	2.28	0.41
2:I:1279:GLU:O	3:J:914:ALA:CB	2.69	0.41
3:J:93:THR:HG22	3:J:94:GLN:N	2.31	0.41
3:J:126:LEU:C	3:J:129:ASP:H	2.27	0.41
3:J:128:LEU:HD23	3:J:192:MET:HE1	2.01	0.41
3:J:432:LEU:C	3:J:434:ILE:N	2.77	0.41
3:J:622:ASP:O	3:J:625:MET:N	2.53	0.41
3:J:1167:LYS:CE	3:J:1174:ARG:HD2	2.50	0.41
3:J:1323:ALA:O	3:J:1328:THR:HG23	2.20	0.41
5:L:248:GLU:O	5:L:252:LEU:HB2	2.19	0.41
5:L:574:GLU:C	5:L:576:VAL:N	2.78	0.41
1:B:99:ILE:O	1:B:99:ILE:HG23	2.20	0.41
1:B:208:ASN:OD1	1:B:210:THR:HG23	2.20	0.41
1:B:211:ILE:HD12	1:B:211:ILE:HA	1.71	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:27:LEU:C	2:C:528:ARG:HH12	2.27	0.41
2:C:155:VAL:HG23	2:C:176:ILE:HG13	2.02	0.41
2:C:211:ARG:HH12	2:C:217:THR:CA	2.34	0.41
2:C:230:PHE:HB2	2:C:333:ILE:O	2.19	0.41
2:C:385:PHE:O	2:C:386:GLU:C	2.63	0.41
2:C:391:SER:C	2:C:393:ASP:N	2.77	0.41
2:C:463:GLN:O	2:C:466:VAL:HB	2.20	0.41
2:C:483:ASP:CB	2:C:486:THR:CG2	2.81	0.41
2:C:525:THR:CG2	2:C:687:ARG:HD2	2.40	0.41
2:C:594:VAL:HG13	2:C:598:VAL:C	2.46	0.41
2:C:830:THR:CG2	2:C:1234:LYS:NZ	2.83	0.41
2:C:896:THR:O	2:C:900:LYS:HB2	2.20	0.41
2:C:933:VAL:HG22	2:C:1050:VAL:CG1	2.50	0.41
2:C:971:LEU:HD13	2:C:1018:TYR:CB	2.48	0.41
2:C:1112:ILE:O	2:C:1113:LEU:C	2.62	0.41
3:D:79:LYS:C	3:D:79:LYS:CD	2.94	0.41
3:D:111:THR:CG2	3:D:303:VAL:HG21	2.47	0.41
3:D:399:LYS:HB3	3:D:403:ARG:NH2	2.33	0.41
3:D:418:GLU:HG3	4:E:45:LYS:H	1.84	0.41
3:D:646:ILE:H	3:D:646:ILE:HG12	1.57	0.41
3:D:759:ILE:HD11	3:D:771:GLN:O	2.19	0.41
3:D:800:LEU:O	3:D:803:VAL:HG12	2.20	0.41
5:F:235:ILE:HG23	5:F:242:HIS:CE1	2.54	0.41
1:G:30:PRO:C	1:G:31:LEU:HG	2.44	0.41
1:G:77:ASP:OD1	1:G:77:ASP:N	2.53	0.41
1:H:72:GLU:CA	1:H:72:GLU:OE2	2.67	0.41
1:H:104:LYS:HE2	1:H:105:SER:O	2.21	0.41
1:H:133:LEU:HD12	1:H:133:LEU:HA	1.58	0.41
2:I:27:LEU:HA	2:I:27:LEU:HD23	1.58	0.41
2:I:39:ILE:HD12	2:I:75:LEU:CD2	2.51	0.41
2:I:46:GLN:O	2:I:47:TYR:C	2.63	0.41
2:I:57:PHE:HA	2:I:58:PRO:C	2.44	0.41
2:I:824:GLN:C	2:I:826:ASP:H	2.27	0.41
2:I:974:ARG:HD2	2:I:1014:LEU:HD21	2.02	0.41
3:J:57:PHE:CD2	3:J:57:PHE:N	2.87	0.41
3:J:265:LEU:O	3:J:268:LEU:HB2	2.20	0.41
3:J:423:LEU:HG	3:J:466:MET:HE2	2.02	0.41
3:J:515:ARG:CG	3:J:516:ASP:N	2.84	0.41
3:J:606:ASN:OD1	3:J:610:ARG:NH2	2.53	0.41
3:J:804:ALA:HA	3:J:1259:GLN:HG3	2.02	0.41
3:J:1138:LEU:CB	3:J:1139:PRO:CD	2.98	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:390:ILE:O	5:L:393:LYS:HB2	2.20	0.41
5:L:604:SER:O	5:L:605:GLU:C	2.64	0.41
1:B:108:GLY:O	1:B:133:LEU:HD13	2.20	0.41
1:B:281:LEU:O	1:B:283:GLN:N	2.53	0.41
1:B:290:LEU:C	1:B:291:LYS:HD3	2.45	0.41
2:C:18:ARG:HA	2:C:19:PRO:HD3	1.78	0.41
2:C:69:GLN:HG3	2:C:101:ARG:HB3	2.01	0.41
2:C:201:ARG:O	2:C:202:ARG:C	2.63	0.41
2:C:331:LYS:H	2:C:331:LYS:HG2	1.64	0.41
2:C:593:LYS:HB2	2:C:652:TYR:HE2	1.86	0.41
2:C:593:LYS:O	2:C:600:THR:OG1	2.24	0.41
2:C:794:LEU:HD12	2:C:795:ALA:N	2.34	0.41
2:C:1193:ALA:O	2:C:1195:ILE:N	2.54	0.41
2:C:1281:TYR:HE2	3:D:431:ARG:HB2	1.83	0.41
3:D:160:LEU:HD13	3:D:165:TYR:CA	2.47	0.41
3:D:166:LEU:HA	3:D:166:LEU:HD12	1.58	0.41
3:D:261:ALA:HB2	5:F:505:ILE:HG23	2.01	0.41
3:D:261:ALA:HA	5:F:505:ILE:O	2.20	0.41
3:D:325:LYS:NZ	5:F:508:GLU:OE2	2.53	0.41
3:D:412:LEU:O	3:D:415:VAL:N	2.53	0.41
3:D:429:LEU:HG	3:D:925:GLU:HG2	2.03	0.41
3:D:475:GLU:O	3:D:478:LEU:N	2.39	0.41
3:D:1323:ALA:CA	3:D:1331:VAL:HG21	2.50	0.41
4:E:71:GLU:O	4:E:72:GLN:C	2.62	0.41
5:F:119:ILE:HD13	5:F:122:ARG:HE	1.85	0.41
5:F:129:GLN:HG3	5:F:364:ARG:HG2	2.02	0.41
5:F:393:LYS:NZ	5:F:436:ARG:NH2	2.69	0.41
5:F:462:LYS:CE	5:F:487:MET:SD	3.08	0.41
1:G:219:ARG:HA	1:G:222:THR:CB	2.49	0.41
1:H:89:ALA:HB3	1:H:124:VAL:HG11	2.01	0.41
2:I:189:ASP:OD2	2:I:190:PRO:HD2	2.19	0.41
2:I:370:MET:HE3	2:I:370:MET:HB3	1.87	0.41
2:I:556:GLY:HA2	2:I:660:VAL:HA	2.03	0.41
2:I:606:LEU:CD2	2:I:611:GLU:HA	2.50	0.41
2:I:798:GLN:CB	2:I:828:PHE:CE1	2.85	0.41
2:I:1099:ASN:OD1	2:I:1100:PRO:HD2	2.20	0.41
2:I:1259:LEU:HD12	2:I:1259:LEU:HA	1.56	0.41
3:J:128:LEU:HD23	3:J:192:MET:CE	2.50	0.41
3:J:140:TYR:CD1	3:J:140:TYR:N	2.87	0.41
3:J:293:ARG:O	3:J:294:ASN:C	2.62	0.41
3:J:430:HIS:O	3:J:431:ARG:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:537:TYR:CE2	3:J:631:TYR:CE1	2.97	0.41
3:J:625:MET:C	3:J:627:THR:N	2.76	0.41
3:J:833:GLU:HA	3:J:834:PRO:HD3	1.84	0.41
3:J:864:LEU:HD23	3:J:864:LEU:N	2.35	0.41
3:J:1149:ARG:NH2	3:J:1153:PRO:CG	2.83	0.41
3:J:1156:LEU:HA	3:J:1208:ASP:O	2.19	0.41
3:J:1171:GLY:HA2	3:J:1193:TRP:HZ3	1.84	0.41
3:J:1266:ILE:HD12	3:J:1274:PHE:CA	2.50	0.41
5:L:496:LYS:HE2	5:L:496:LYS:HB3	1.62	0.41
5:L:513:ASP:O	5:L:514:ASP:C	2.63	0.41
1:A:154:PRO:HD2	1:A:157:THR:OG1	2.20	0.41
1:B:112:ALA:C	1:B:114:ASP:N	2.76	0.41
1:B:142:MET:HE2	1:B:142:MET:HB2	1.75	0.41
2:C:47:TYR:OH	2:C:398:SER:HB2	2.20	0.41
2:C:357:ASN:HD22	2:C:358:ASP:N	2.18	0.41
2:C:455:SER:O	2:C:456:VAL:C	2.62	0.41
2:C:813:GLU:OE1	2:C:813:GLU:HA	2.18	0.41
2:C:819:SER:C	2:C:821:ARG:H	2.29	0.41
2:C:1087:TYR:C	2:C:1087:TYR:HD2	2.29	0.41
2:C:1136:GLN:O	2:C:1137:GLU:CB	2.69	0.41
2:C:1160:ASP:CG	2:C:1161:LEU:HD12	2.46	0.41
2:C:1291:LEU:H	2:C:1291:LEU:HG	1.69	0.41
3:D:646:ILE:HA	3:D:647:PRO:HD3	1.93	0.41
3:D:667:GLN:HA	3:D:672:LEU:CD1	2.37	0.41
3:D:674:THR:HG23	3:D:677:GLU:CB	2.48	0.41
3:D:759:ILE:HG23	3:D:771:GLN:HG2	2.03	0.41
3:D:918:ILE:HA	3:D:921:GLN:HG3	2.01	0.41
3:D:1144:LEU:HD23	3:D:1144:LEU:HA	1.56	0.41
3:D:1241:TYR:HD2	3:D:1246:VAL:CG1	2.34	0.41
3:D:1341:ARG:HD3	3:D:1343:GLU:OE2	2.21	0.41
5:F:112:THR:O	5:F:114:GLU:N	2.54	0.41
5:F:137:TYR:O	5:F:140:ALA:HB3	2.21	0.41
5:F:346:GLN:O	5:F:350:GLU:HG3	2.21	0.41
1:G:56:VAL:HG22	1:G:57:THR:N	2.36	0.41
1:G:61:ILE:HG22	1:G:62:ASP:H	1.86	0.41
1:G:86:LYS:HB2	1:G:86:LYS:HE3	1.79	0.41
1:G:118:ASP:HB3	1:G:121:VAL:CG2	2.50	0.41
1:G:129:VAL:C	1:G:130:ILE:HD12	2.45	0.41
1:G:166:ARG:N	1:G:167:PRO:HD2	2.35	0.41
1:G:184:ALA:HB2	2:I:1091:GLY:CA	2.50	0.41
1:H:35:PHE:HA	1:H:38:THR:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:4:SER:N	2:I:7:GLU:OE1	2.54	0.41
2:I:221:LEU:O	2:I:224:PHE:N	2.37	0.41
2:I:409:LEU:HD22	2:I:427:ASP:HB3	2.02	0.41
2:I:538:LEU:H	2:I:538:LEU:CD1	2.16	0.41
2:I:697:LYS:HA	2:I:698:PRO:HD3	1.85	0.41
2:I:800:MET:C	2:I:1229:TYR:HD2	2.29	0.41
2:I:820:GLU:HA	2:I:1079:ILE:HD11	2.01	0.41
2:I:870:ILE:HG13	2:I:884:VAL:HG22	2.01	0.41
2:I:883:LEU:HD23	2:I:883:LEU:HA	1.72	0.41
3:J:327:LEU:HA	3:J:327:LEU:HD23	1.63	0.41
3:J:429:LEU:HA	3:J:429:LEU:HD13	1.69	0.41
3:J:514:THR:OG1	3:J:595:ALA:C	2.63	0.41
3:J:745:GLY:C	3:J:746:LEU:HD12	2.46	0.41
3:J:1173:ARG:HB2	3:J:1192:LYS:HD2	2.01	0.41
3:J:1279:GLN:OE1	3:J:1279:GLN:HA	2.20	0.41
5:L:116:GLU:HB3	5:L:117:ILE:HD12	2.02	0.41
5:L:117:ILE:HA	5:L:120:ALA:CB	2.49	0.41
5:L:233:ASP:C	5:L:235:ILE:H	2.29	0.41
5:L:292:VAL:HG11	5:L:299:LYS:HE3	2.01	0.41
5:L:387:VAL:O	5:L:388:ILE:C	2.64	0.41
5:L:502:LYS:C	5:L:504:PRO:HA	2.45	0.41
1:A:60:GLU:OE1	1:A:170:ARG:NH2	2.54	0.41
1:A:91:ARG:NH1	1:A:212:ASP:OD1	2.52	0.41
1:A:159:ILE:O	1:A:159:ILE:HG12	2.20	0.41
1:B:142:MET:CG	1:B:143:ARG:N	2.83	0.41
1:B:224:LEU:HD13	1:B:224:LEU:HA	1.86	0.41
2:C:94:ALA:N	2:C:129:LEU:CD1	2.83	0.41
2:C:103:VAL:HG12	2:C:116:ASP:HB2	2.02	0.41
2:C:202:ARG:NH1	2:C:369:MET:HG3	2.35	0.41
2:C:745:GLU:O	2:C:746:ALA:C	2.63	0.41
2:C:960:LEU:HA	2:C:963:GLU:CG	2.43	0.41
2:C:1025:PHE:O	2:C:1026:GLU:C	2.63	0.41
2:C:1028:LYS:HE2	2:C:1028:LYS:HB3	1.90	0.41
2:C:1138:VAL:HG23	2:C:1139:ALA:H	1.85	0.41
2:C:1176:LEU:HD23	2:C:1176:LEU:N	2.19	0.41
2:C:1223:ARG:HA	2:C:1224:PRO:HD3	1.77	0.41
2:C:1281:TYR:HE2	3:D:431:ARG:CB	2.34	0.41
2:C:1293:VAL:CG1	2:C:1304:MET:CB	2.94	0.41
3:D:121:PRO:O	3:D:123:ARG:NE	2.53	0.41
3:D:215:LYS:HD2	3:D:219:LYS:HZ1	1.86	0.41
3:D:252:LEU:HD21	3:D:262:THR:CG2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:276:ASN:O	3:D:279:LEU:HB3	2.20	0.41
3:D:375:GLU:CD	3:D:378:LYS:HD2	2.45	0.41
3:D:457:TYR:O	3:D:458:ASN:CB	2.67	0.41
3:D:490:ILE:HA	3:D:500:ILE:HG12	2.03	0.41
3:D:654:ILE:O	3:D:658:GLU:N	2.47	0.41
3:D:680:ASN:O	3:D:684:ASP:OD1	2.38	0.41
3:D:782:GLY:O	3:D:783:LEU:C	2.63	0.41
3:D:794:GLY:C	3:D:796:LEU:N	2.79	0.41
3:D:811:GLU:HB2	3:D:890:THR:OG1	2.21	0.41
3:D:1140:ARG:NH2	3:D:1144:LEU:HD21	2.35	0.41
5:F:421:TYR:C	5:F:423:ARG:N	2.61	0.41
5:F:462:LYS:HZ3	5:F:489:MET:CE	2.33	0.41
5:F:530:LEU:HD22	5:F:530:LEU:HA	1.40	0.41
1:G:154:PRO:HA	1:G:174:ASP:OD1	2.21	0.41
1:H:73:GLY:HA2	1:H:134:THR:CG2	2.51	0.41
1:H:113:ALA:C	1:H:115:ILE:N	2.78	0.41
2:I:17:LYS:NZ	2:I:1154:ASP:OD1	2.43	0.41
2:I:157:PHE:CD1	2:I:174:ALA:CB	3.03	0.41
2:I:174:ALA:N	2:I:186:PHE:O	2.53	0.41
2:I:316:GLU:H	2:I:316:GLU:CD	2.19	0.41
2:I:517:GLN:HG2	2:I:759:SER:HB2	2.02	0.41
2:I:836:LEU:HB3	2:I:918:LEU:HD21	2.03	0.41
2:I:1106:ARG:H	2:I:1106:ARG:CD	2.32	0.41
2:I:1239:VAL:HG13	2:I:1240:ASP:N	2.35	0.41
2:I:1317:PRO:HG2	2:I:1318:GLY:H	1.86	0.41
3:J:42:GLU:CG	5:L:451:ARG:CG	2.98	0.41
3:J:334:LYS:HA	3:J:1328:THR:CG2	2.41	0.41
3:J:480:ALA:O	3:J:485:MET:N	2.53	0.41
3:J:512:TYR:CD2	3:J:635:SER:HB2	2.56	0.41
3:J:813:ASP:HA	3:J:895:CYS:HB2	2.03	0.41
3:J:1167:LYS:HB3	3:J:1174:ARG:CD	2.51	0.41
3:J:1262:ARG:O	3:J:1279:GLN:HA	2.20	0.41
5:L:129:GLN:O	5:L:132:CYS:HB2	2.21	0.41
5:L:139:GLU:CA	5:L:142:THR:HG22	2.50	0.41
5:L:312:SER:OG	5:L:314:THR:HG23	2.20	0.41
5:L:371:LYS:O	5:L:374:ARG:HB3	2.21	0.41
5:L:518:HIS:N	5:L:521:ASP:OD2	2.53	0.41
1:A:190:ALA:CB	1:A:200:LYS:N	2.78	0.41
1:B:248:GLU:CG	1:B:249:PHE:H	2.34	0.41
2:C:10:ARG:NH1	2:C:697:LYS:HD3	2.36	0.41
2:C:12:ARG:HG3	2:C:1181:PRO:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:47:TYR:CD2	2:C:461:GLU:OE2	2.74	0.41
2:C:303:ASP:N	2:C:310:ILE:HG13	2.36	0.41
2:C:478:ARG:HH22	2:C:482:GLY:HA2	1.85	0.41
2:C:490:GLN:C	2:C:492:MET:N	2.78	0.41
2:C:690:VAL:HG11	2:C:830:THR:OG1	2.21	0.41
2:C:690:VAL:HG13	2:C:691:PRO:N	2.36	0.41
2:C:722:GLY:HA2	2:C:737:ASN:CG	2.43	0.41
2:C:906:PHE:CZ	5:F:601:PRO:HG2	2.56	0.41
2:C:985:GLU:O	2:C:986:ALA:C	2.63	0.41
2:C:1259:LEU:HD12	2:C:1259:LEU:HA	1.66	0.41
2:C:1333:LEU:HD23	2:C:1333:LEU:HA	1.81	0.41
3:D:47:ARG:HH12	5:F:496:LYS:CE	2.29	0.41
3:D:265:LEU:HD13	3:D:327:LEU:CD2	2.49	0.41
1:G:130:ILE:N	1:G:130:ILE:CD1	2.83	0.41
1:G:156:SER:C	1:G:158:ARG:N	2.78	0.41
1:H:45:ARG:O	1:H:49:SER:HB2	2.20	0.41
1:H:192:VAL:O	1:H:193:GLU:C	2.63	0.41
2:I:204:LEU:HD23	2:I:204:LEU:HA	1.70	0.41
2:I:471:VAL:O	2:I:474:ALA:N	2.53	0.41
2:I:517:GLN:HE21	2:I:759:SER:HA	1.86	0.41
2:I:658:GLN:O	2:I:661:VAL:HG22	2.21	0.41
2:I:807:TRP:CZ2	2:I:1084:ASP:O	2.74	0.41
2:I:1192:GLU:CA	2:I:1195:ILE:HD12	2.39	0.41
3:J:126:LEU:HD12	3:J:127:LEU:H	1.84	0.41
3:J:188:LEU:HD23	3:J:188:LEU:HA	1.61	0.41
3:J:372:MET:O	3:J:376:LEU:CB	2.69	0.41
3:J:422:LEU:N	3:J:422:LEU:CD1	2.84	0.41
3:J:614:LEU:O	3:J:617:THR:OG1	2.30	0.41
3:J:615:LYS:CB	4:K:5:THR:HG21	2.51	0.41
3:J:896:ALA:O	3:J:899:TYR:HB3	2.21	0.41
3:J:918:ILE:O	3:J:918:ILE:HG12	2.21	0.41
3:J:1172:LYS:HA	3:J:1190:ILE:O	2.20	0.41
3:J:1280:VAL:HG11	3:J:1304:ARG:NE	2.36	0.41
5:L:115:GLY:HA2	5:L:118:ASP:HB3	2.02	0.41
5:L:124:GLU:HA	5:L:127:ILE:HG12	2.03	0.41
5:L:433:TRP:O	5:L:437:GLN:N	2.37	0.41
5:L:512:GLY:C	5:L:514:ASP:N	2.76	0.41
1:A:123:ILE:HD13	1:A:123:ILE:HA	1.60	0.41
1:B:10:LYS:HA	1:B:11:PRO:HD2	1.65	0.41
1:B:81:ILE:O	1:B:82:LEU:C	2.64	0.41
1:B:95:LYS:HE2	1:B:98:VAL:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:192:VAL:CB	1:B:195:ARG:HG3	2.44	0.41
1:B:281:LEU:HD12	1:B:281:LEU:HA	1.71	0.41
2:C:155:VAL:C	2:C:156:PHE:CG	2.99	0.41
2:C:247:ARG:HB2	2:C:274:ILE:HD11	2.03	0.41
2:C:660:VAL:HG22	2:C:661:VAL:HG13	2.02	0.41
2:C:746:ALA:CB	2:C:974:ARG:HE	2.34	0.41
2:C:778:GLU:N	2:C:781:ASP:OD1	2.35	0.41
2:C:817:LEU:HD23	2:C:1080:ASN:ND2	2.11	0.41
2:C:1080:ASN:HB2	2:C:1085:MET:HE3	2.02	0.41
2:C:1269:ARG:CB	3:D:343:LEU:CD1	2.99	0.41
2:C:1287:LEU:O	2:C:1290:MET:N	2.53	0.41
2:C:1305:TYR:HE2	5:F:532:LEU:HA	1.85	0.41
3:D:221:ILE:HA	3:D:224:LEU:HD13	2.03	0.41
3:D:336:GLY:HA2	3:D:337:ARG:HA	1.56	0.41
3:D:412:LEU:O	3:D:415:VAL:HG22	2.19	0.41
3:D:1237:VAL:HG13	3:D:1238:GLN:N	2.35	0.41
3:D:1328:THR:O	3:D:1330:ARG:N	2.53	0.41
3:D:1332:LEU:HD12	3:D:1332:LEU:HA	1.66	0.41
4:E:51:LEU:O	4:E:52:ARG:C	2.63	0.41
5:F:251:LYS:O	5:F:254:GLU:HB2	2.21	0.41
5:F:376:LYS:O	5:F:377:LYS:C	2.64	0.41
5:F:482:GLU:O	5:F:485:GLU:HB3	2.20	0.41
5:F:580:PHE:O	5:F:581:ASP:HB3	2.21	0.41
1:G:85:LEU:N	1:G:85:LEU:HD23	2.35	0.41
1:H:53:GLY:N	1:H:149:GLY:O	2.46	0.41
1:H:210:THR:OG1	1:H:211:ILE:N	2.54	0.41
2:I:10:ARG:HD2	2:I:10:ARG:C	2.46	0.41
2:I:10:ARG:HD2	2:I:10:ARG:O	2.21	0.41
2:I:18:ARG:HG2	2:I:1188:ASP:CG	2.45	0.41
2:I:106:GLU:CG	2:I:107:ARG:N	2.84	0.41
2:I:145:ILE:HG12	2:I:456:VAL:HG13	2.02	0.41
2:I:189:ASP:CG	2:I:190:PRO:HD2	2.45	0.41
2:I:314:ASN:O	2:I:314:ASN:ND2	2.53	0.41
2:I:698:PRO:HB3	2:I:1231:TYR:CD1	2.52	0.41
2:I:865:LEU:HD22	2:I:870:ILE:N	2.36	0.41
2:I:890:LYS:HD2	2:I:891:GLY:N	2.35	0.41
2:I:960:LEU:C	2:I:1025:PHE:HE2	2.28	0.41
2:I:1272:GLU:HB3	3:J:342:LEU:HG	2.00	0.41
3:J:146:VAL:HG12	3:J:147:ILE:N	2.36	0.41
3:J:247:PRO:C	3:J:249:LEU:H	2.29	0.41
3:J:252:LEU:HD23	3:J:262:THR:CB	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:423:LEU:HD11	3:J:447:ILE:CD1	2.51	0.41
3:J:453:VAL:O	3:J:454:CYS:C	2.63	0.41
3:J:547:ARG:C	3:J:548:VAL:HG23	2.45	0.41
3:J:624:ILE:HA	3:J:627:THR:HG22	2.02	0.41
3:J:1191:PRO:HB2	3:J:1194:ARG:HH11	1.85	0.41
3:J:1356:LEU:O	3:J:1366:HIS:CE1	2.74	0.41
5:L:394:TYR:CD2	5:L:439:ILE:HD11	2.54	0.41
5:L:537:THR:O	5:L:540:LEU:N	2.50	0.41
1:A:231:PHE:CE2	1:B:43:LEU:CD2	3.04	0.41
1:B:91:ARG:HE	1:B:91:ARG:HB2	1.59	0.41
1:B:247:PRO:HA	1:B:248:GLU:HA	1.83	0.41
2:C:27:LEU:CA	2:C:528:ARG:HH12	2.34	0.41
2:C:35:PHE:C	2:C:37:LYS:N	2.79	0.41
2:C:139:ASN:HD21	2:C:503:LYS:HZ1	1.69	0.41
2:C:201:ARG:CZ	2:C:370:MET:HE1	2.51	0.41
2:C:209:ILE:HA	2:C:212:ALA:CB	2.42	0.41
2:C:252:SER:C	2:C:253:PHE:HD2	2.29	0.41
2:C:302:ILE:HB	2:C:308:GLU:O	2.21	0.41
2:C:383:SER:HA	2:C:386:GLU:HG2	2.03	0.41
2:C:452:ARG:HB2	2:C:586:PHE:CE2	2.56	0.41
2:C:471:VAL:CG1	2:C:472:GLU:N	2.84	0.41
2:C:551:HIS:CG	2:C:552:PRO:HD2	2.56	0.41
2:C:555:TYR:OH	2:C:618:GLN:NE2	2.44	0.41
2:C:681:MET:HE2	2:C:681:MET:HB3	1.68	0.41
2:C:726:TYR:OH	2:C:728:ASP:OD2	2.28	0.41
2:C:726:TYR:CZ	2:C:728:ASP:HB2	2.55	0.41
2:C:829:THR:HG22	2:C:830:THR:N	2.36	0.41
2:C:978:VAL:CG1	2:C:1011:LEU:HD21	2.51	0.41
2:C:989:LEU:HD12	2:C:989:LEU:C	2.44	0.41
2:C:1005:GLU:HG2	2:C:1006:GLU:OE2	2.21	0.41
2:C:1038:GLN:O	2:C:1038:GLN:CG	2.68	0.41
2:C:1068:GLY:HA3	2:C:1072:ASN:ND2	2.26	0.41
2:C:1148:ALA:O	2:C:1150:ASP:N	2.53	0.41
2:C:1260:GLY:HA2	2:C:1265:PHE:HA	2.02	0.41
2:C:1279:GLU:O	3:D:914:ALA:HB3	2.21	0.41
2:C:1335:ILE:HG21	3:D:22:ILE:HD11	2.03	0.41
3:D:259:ARG:CD	5:F:504:PRO:HB2	2.51	0.41
3:D:309:ASN:H	3:D:326:SER:CB	2.34	0.41
3:D:352:ARG:HB3	3:D:467:ALA:HA	2.00	0.41
3:D:415:VAL:CG2	3:D:416:ILE:N	2.83	0.41
3:D:460:ASP:C	3:D:461:PHE:HD2	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:466:MET:HE2	3:D:466:MET:HB3	1.83	0.41
3:D:478:LEU:HA	3:D:478:LEU:HD23	1.54	0.41
3:D:500:ILE:HD13	3:D:500:ILE:HA	1.76	0.41
3:D:530:PRO:O	3:D:531:LYS:C	2.64	0.41
3:D:644:MET:HE3	3:D:644:MET:HB2	1.92	0.41
3:D:749:LYS:CB	3:D:750:PRO:CD	2.95	0.41
3:D:883:ARG:NE	3:D:898:CYS:SG	2.93	0.41
3:D:1135:THR:CG2	3:D:1140:ARG:HD3	2.49	0.41
3:D:1239:ASP:O	3:D:1243:LEU:HB2	2.21	0.41
3:D:1251:LYS:O	3:D:1255:VAL:CG1	2.69	0.41
3:D:1366:HIS:O	3:D:1369:ARG:N	2.48	0.41
4:E:39:VAL:CG1	4:E:52:ARG:HH21	2.32	0.41
5:F:148:TYR:CD1	5:F:221:PHE:CZ	3.09	0.41
5:F:270:VAL:HA	5:F:273:MET:HE2	2.03	0.41
5:F:393:LYS:HZ2	5:F:436:ARG:NH2	2.19	0.41
5:F:498:LEU:H	5:F:498:LEU:CD2	2.31	0.41
5:F:513:ASP:HA	5:F:516:ASP:CA	2.50	0.41
1:G:73:GLY:HA2	1:G:134:THR:CG2	2.51	0.41
1:G:124:VAL:HG12	1:G:125:LYS:HG2	2.03	0.41
1:G:178:SER:HA	1:G:179:PRO:HD3	1.70	0.41
1:G:207:THR:HG22	1:G:208:ASN:N	2.32	0.41
1:H:65:LEU:C	1:H:66:HIS:CG	2.99	0.41
1:H:79:LEU:H	1:H:79:LEU:CD2	2.22	0.41
1:H:101:THR:CA	1:H:143:ARG:HG2	2.45	0.41
1:H:192:VAL:HB	1:H:195:ARG:HB2	2.02	0.41
1:H:228:LEU:C	1:H:230:ALA:H	2.29	0.41
2:I:63:SER:C	2:I:65:ASN:N	2.79	0.41
2:I:82:VAL:O	2:I:85:CYS:HB2	2.20	0.41
2:I:122:VAL:HG23	5:L:472:GLN:CG	2.51	0.41
2:I:137:VAL:CG1	2:I:140:GLY:H	2.33	0.41
2:I:156:PHE:HE1	2:I:445:ILE:N	2.19	0.41
2:I:184:LEU:HD12	2:I:184:LEU:HA	1.16	0.41
2:I:191:LYS:C	2:I:193:ASN:N	2.79	0.41
2:I:295:LYS:HD3	2:I:295:LYS:HA	1.91	0.41
2:I:397:LEU:CD1	2:I:397:LEU:N	2.84	0.41
2:I:431:LYS:O	2:I:432:LEU:C	2.64	0.41
2:I:671:LEU:HD12	2:I:671:LEU:HA	1.75	0.41
2:I:692:THR:H	2:I:692:THR:HG22	1.62	0.41
2:I:704:MET:O	2:I:707:ALA:N	2.53	0.41
2:I:775:GLU:HA	2:I:776:PRO:HD3	1.86	0.41
2:I:796:LEU:N	2:I:796:LEU:CD1	2.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:896:THR:H	2:I:899:GLU:CD	2.29	0.41
2:I:902:LEU:CD1	5:L:604:SER:HB3	2.51	0.41
2:I:919:ARG:HB3	2:I:919:ARG:NH1	2.35	0.41
2:I:953:LEU:HD13	2:I:1033:ARG:HG3	2.03	0.41
2:I:1088:ASP:OD1	2:I:1088:ASP:C	2.63	0.41
2:I:1257:GLN:HA	2:I:1258:PRO:HD3	1.79	0.41
3:J:232:ASN:CA	3:J:236:TRP:CZ3	3.00	0.41
3:J:322:ARG:CB	3:J:322:ARG:NH1	2.84	0.41
3:J:357:VAL:HB	3:J:358:GLY:H	1.47	0.41
3:J:358:GLY:H	3:J:359:PRO:CD	2.27	0.41
3:J:438:GLU:HA	3:J:439:PRO:HD3	1.84	0.41
3:J:492:SER:OG	3:J:495:ASN:OD1	2.24	0.41
3:J:514:THR:O	3:J:595:ALA:HA	2.20	0.41
3:J:589:TYR:C	3:J:591:ILE:N	2.76	0.41
3:J:890:THR:HG1	3:J:895:CYS:HB3	1.86	0.41
3:J:903:LEU:CB	3:J:905:ARG:O	2.69	0.41
3:J:930:LEU:HD23	3:J:1244:GLN:HG3	2.02	0.41
3:J:1171:GLY:O	3:J:1191:PRO:HA	2.20	0.41
3:J:1241:TYR:CE2	3:J:1248:ILE:CD1	3.03	0.41
3:J:1263:LYS:HE2	3:J:1279:GLN:NE2	2.31	0.41
3:J:1347:LEU:O	3:J:1350:ASN:N	2.46	0.41
5:L:123:ILE:HG12	5:L:375:ALA:CB	2.51	0.41
5:L:123:ILE:HG22	5:L:127:ILE:HD11	2.02	0.41
5:L:287:ILE:HD13	5:L:341:LEU:HD21	2.02	0.41
5:L:357:GLN:O	5:L:361:ILE:HG12	2.20	0.41
1:A:31:LEU:HD13	1:A:201:LEU:HB2	2.03	0.41
1:B:156:SER:CA	1:B:157:THR:C	2.92	0.41
1:B:201:LEU:HD12	1:B:201:LEU:HA	1.75	0.41
1:B:224:LEU:O	1:B:227:GLN:CB	2.65	0.41
1:B:264:VAL:HA	1:B:267:ALA:HB2	2.02	0.41
2:C:122:VAL:HG22	2:C:123:TYR:O	2.21	0.41
2:C:195:PHE:CD1	2:C:203:LYS:HD3	2.56	0.41
2:C:489:PRO:O	2:C:490:GLN:HB2	2.21	0.41
2:C:820:GLU:O	2:C:824:GLN:HG3	2.22	0.41
2:C:820:GLU:CB	2:C:1080:ASN:O	2.68	0.41
2:C:828:PHE:HZ	2:C:1232:MET:O	2.03	0.41
2:C:972:PHE:CE2	2:C:1018:TYR:HE1	2.39	0.41
2:C:1196:LYS:HB3	2:C:1206:THR:HG23	2.02	0.41
2:C:1237:HIS:HB3	2:C:1242:LYS:CE	2.50	0.41
3:D:103:GLY:CA	3:D:244:VAL:HG13	2.51	0.41
3:D:303:VAL:O	3:D:306:LEU:CB	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:501:VAL:CG2	3:D:602:SER:HB2	2.51	0.41
3:D:536:LEU:HD12	3:D:541:LEU:HB2	2.03	0.41
3:D:1157:ALA:C	3:D:1207:GLY:H	2.26	0.41
3:D:1251:LYS:O	3:D:1255:VAL:HG12	2.21	0.41
3:D:1257:VAL:O	3:D:1258:ARG:C	2.62	0.41
4:E:62:GLN:O	4:E:63:ILE:C	2.64	0.41
1:G:121:VAL:CG1	1:G:123:ILE:CD1	2.98	0.41
2:I:182:SER:OG	2:I:199:ASP:CG	2.62	0.41
2:I:314:ASN:ND2	2:I:352:ARG:NH1	2.69	0.41
2:I:588:GLU:HB3	2:I:607:SER:HA	2.03	0.41
2:I:708:VAL:CG1	2:I:794:LEU:HD22	2.51	0.41
2:I:994:ARG:HA	2:I:997:TRP:CG	2.56	0.41
2:I:994:ARG:HA	2:I:997:TRP:CD1	2.56	0.41
2:I:1180:MET:HA	2:I:1181:PRO:HD3	1.77	0.41
2:I:1212:LEU:C	2:I:1213:TYR:CG	2.99	0.41
3:J:40:LYS:O	3:J:55:GLY:HA2	2.21	0.41
3:J:120:LEU:HD13	3:J:121:PRO:CD	2.51	0.41
3:J:159:ILE:O	3:J:160:LEU:HD23	2.20	0.41
3:J:227:PHE:HE1	3:J:234:PRO:N	2.19	0.41
3:J:371:LYS:O	3:J:374:LEU:HB3	2.20	0.41
3:J:398:LYS:O	3:J:402:GLU:HB2	2.21	0.41
3:J:432:LEU:CD2	3:J:489:ASN:HB3	2.47	0.41
3:J:476:ALA:HA	3:J:479:GLU:HB2	2.03	0.41
3:J:563:LEU:H	3:J:563:LEU:CD1	2.22	0.41
3:J:627:THR:CG2	3:J:628:GLY:N	2.82	0.41
3:J:712:GLN:H	3:J:712:GLN:HG2	1.67	0.41
3:J:826:ILE:O	3:J:828:GLY:N	2.54	0.41
3:J:842:ARG:NH2	3:J:884:SER:HA	2.36	0.41
3:J:903:LEU:HD13	3:J:909:ILE:CD1	2.51	0.41
3:J:903:LEU:CB	3:J:905:ARG:CG	2.96	0.41
4:K:7:GLN:O	4:K:11:GLU:N	2.50	0.41
5:L:348:GLU:CG	5:L:355:ILE:HG12	2.51	0.41
1:B:11:PRO:O	1:B:12:ARG:CB	2.69	0.40
1:B:31:LEU:HB2	1:B:199:ASP:O	2.21	0.40
1:B:106:GLY:O	1:B:133:LEU:HD23	2.21	0.40
2:C:59:ILE:HD11	2:C:472:GLU:HB2	2.02	0.40
2:C:186:PHE:CE1	2:C:429:MET:HE3	2.56	0.40
2:C:296:VAL:CB	2:C:336:LEU:HD12	2.39	0.40
2:C:390:PHE:HA	2:C:419:ILE:CG2	2.51	0.40
2:C:393:ASP:OD1	2:C:394:ARG:HD3	2.21	0.40
2:C:490:GLN:NE2	5:F:472:GLN:C	2.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:625:GLU:HB3	2:C:626:GLU:OE2	2.21	0.40
2:C:794:LEU:HD12	2:C:794:LEU:C	2.44	0.40
2:C:894:GLN:HA	2:C:894:GLN:OE1	2.21	0.40
3:D:37:GLU:HG2	3:D:38:VAL:O	2.22	0.40
3:D:198:CYS:HB3	3:D:221:ILE:HD11	2.03	0.40
3:D:379:PRO:O	3:D:380:PHE:C	2.64	0.40
3:D:491:LEU:O	3:D:492:SER:C	2.60	0.40
3:D:515:ARG:HG3	3:D:516:ASP:N	2.35	0.40
3:D:527:LEU:HD23	3:D:532:GLU:HG3	2.02	0.40
3:D:749:LYS:HB2	3:D:750:PRO:HD2	2.01	0.40
3:D:867:GLN:O	3:D:870:ASP:N	2.54	0.40
3:D:880:VAL:HG12	3:D:882:VAL:HG23	2.02	0.40
3:D:915:ILE:H	3:D:915:ILE:HG12	1.64	0.40
3:D:1241:TYR:HD2	3:D:1246:VAL:HG11	1.85	0.40
3:D:1261:LEU:HD13	3:D:1304:ARG:NH1	2.35	0.40
3:D:1308:GLY:O	3:D:1309:ILE:C	2.61	0.40
5:F:416:VAL:HG13	5:F:417:ASP:OD1	2.21	0.40
5:F:505:ILE:CG1	5:F:506:SER:N	2.84	0.40
1:G:31:LEU:HD23	1:G:31:LEU:HA	1.86	0.40
1:G:45:ARG:HG3	1:G:46:ILE:CD1	2.45	0.40
1:G:79:LEU:CD1	1:G:83:LEU:CD2	2.99	0.40
1:G:159:ILE:O	1:G:159:ILE:HG23	2.22	0.40
1:H:18:GLN:HA	1:H:24:ALA:HA	2.01	0.40
1:H:59:VAL:HG12	1:H:61:ILE:HD13	2.03	0.40
2:I:14:ASP:OD2	2:I:1156:ARG:HD3	2.21	0.40
2:I:656:SER:OG	2:I:657:THR:N	2.55	0.40
2:I:670:PHE:CE2	2:I:1113:LEU:C	2.99	0.40
2:I:705:GLU:O	2:I:794:LEU:N	2.53	0.40
2:I:782:VAL:HG21	2:I:792:GLY:HA3	2.03	0.40
2:I:817:LEU:HD13	2:I:1097:VAL:CG2	2.50	0.40
2:I:974:ARG:HB3	2:I:1014:LEU:CD2	2.49	0.40
2:I:1312:ASN:OD1	2:I:1312:ASN:C	2.64	0.40
3:J:269:TYR:O	3:J:270:ARG:C	2.64	0.40
3:J:339:ARG:HD2	3:J:340:GLN:CD	2.46	0.40
3:J:450:HIS:CE1	3:J:452:LEU:HG	2.57	0.40
3:J:518:VAL:HB	3:J:707:ILE:HD13	2.03	0.40
3:J:754:ILE:H	3:J:754:ILE:HG22	1.52	0.40
3:J:783:LEU:O	3:J:787:ALA:HB2	2.21	0.40
3:J:931:THR:O	3:J:931:THR:HG22	2.20	0.40
3:J:1210:ILE:HD13	3:J:1210:ILE:N	2.35	0.40
3:J:1356:LEU:HD22	3:J:1357:ILE:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K:22:VAL:HG12	4:K:54:ILE:CD1	2.51	0.40
5:L:124:GLU:HA	5:L:127:ILE:CG1	2.51	0.40
5:L:274:ARG:O	5:L:278:ASP:N	2.51	0.40
5:L:324:LYS:HB3	5:L:325:PRO:HD2	2.03	0.40
5:L:408:GLY:C	5:L:410:ILE:H	2.30	0.40
1:A:37:HIS:CD2	1:A:187:VAL:CG2	3.03	0.40
1:A:82:LEU:HD13	1:A:173:VAL:CG1	2.52	0.40
1:A:85:LEU:C	1:A:87:GLY:N	2.78	0.40
1:B:133:LEU:CD1	1:B:133:LEU:N	2.85	0.40
1:B:278:ILE:C	1:B:280:ASP:N	2.73	0.40
2:C:59:ILE:CD1	2:C:475:VAL:CG2	2.93	0.40
2:C:602:GLU:HG3	2:C:602:GLU:O	2.20	0.40
2:C:1099:ASN:OD1	2:C:1101:LEU:HB2	2.21	0.40
2:C:1198:LEU:HD22	2:C:1198:LEU:HA	1.83	0.40
3:D:14:THR:CG2	3:D:15:GLU:N	2.83	0.40
3:D:94:GLN:NE2	3:D:96:LYS:HB2	2.36	0.40
3:D:101:ARG:O	3:D:246:PRO:HG3	2.20	0.40
3:D:294:ASN:HA	3:D:297:ARG:NH2	2.36	0.40
3:D:494:ALA:HB3	3:D:495:ASN:OD1	2.21	0.40
3:D:814:CYS:H	3:D:895:CYS:HB2	1.82	0.40
3:D:1164:SER:OG	3:D:1176:VAL:O	2.33	0.40
3:D:1171:GLY:HA2	3:D:1193:TRP:CZ3	2.57	0.40
3:D:1284:ARG:HA	3:D:1287:ILE:HD11	2.03	0.40
3:D:1371:ARG:HE	3:J:854:ALA:HA	1.85	0.40
5:F:361:ILE:CG1	5:F:362:ASN:H	2.34	0.40
5:F:462:LYS:NZ	5:F:487:MET:SD	2.93	0.40
5:F:497:VAL:O	5:F:498:LEU:C	2.64	0.40
1:G:196:THR:OG1	1:G:197:ASP:N	2.55	0.40
1:H:33:ARG:HH12	2:I:1081:PRO:CB	2.34	0.40
2:I:13:LYS:HD2	2:I:1157:GLN:OE1	2.22	0.40
2:I:91:THR:HB	2:I:138:ILE:O	2.21	0.40
2:I:104:ILE:O	2:I:114:VAL:N	2.45	0.40
2:I:165:HIS:C	2:I:167:SER:H	2.30	0.40
2:I:471:VAL:O	2:I:472:GLU:C	2.63	0.40
2:I:494:ASN:OD1	2:I:497:PRO:HD3	2.21	0.40
2:I:564:PRO:CD	2:I:572:ILE:HB	2.51	0.40
2:I:653:MET:HG2	2:I:654:ASP:N	2.36	0.40
2:I:744:GLY:CA	2:I:1013:GLN:HB3	2.51	0.40
2:I:903:ARG:HE	2:I:910:ALA:HB2	1.86	0.40
2:I:1158:LYS:C	2:I:1159:VAL:HG22	2.45	0.40
3:J:691:ASP:O	3:J:694:SER:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:772:TYR:O	3:J:773:PHE:C	2.64	0.40
3:J:812:ASP:O	3:J:895:CYS:HB2	2.21	0.40
3:J:848:VAL:HB	3:J:857:LEU:HD11	2.03	0.40
3:J:885:VAL:HG12	3:J:894:VAL:HG13	2.03	0.40
3:J:1269:ALA:HB2	3:J:1274:PHE:CE1	2.56	0.40
5:L:116:GLU:CB	5:L:117:ILE:HD12	2.50	0.40
5:L:381:GLU:HA	5:L:384:LEU:HD11	2.03	0.40
5:L:392:LYS:O	5:L:395:THR:HG23	2.21	0.40
5:L:448:ARG:HD2	5:L:452:ILE:HB	2.03	0.40
5:L:470:MET:HB3	5:L:470:MET:HE2	1.53	0.40
1:A:23:HIS:HA	1:A:206:GLU:HA	2.03	0.40
1:A:60:GLU:N	1:A:143:ARG:O	2.50	0.40
1:B:54:CYS:SG	1:B:148:ARG:HG3	2.62	0.40
1:B:215:GLU:HG2	1:B:216:ALA:H	1.87	0.40
2:C:70:TYR:CD2	2:C:70:TYR:C	2.97	0.40
2:C:435:ILE:C	2:C:437:ASN:N	2.78	0.40
2:C:531:SER:C	2:C:533:LEU:N	2.78	0.40
2:C:543:ALA:HB1	2:C:547:VAL:CG2	2.52	0.40
2:C:811:ASN:HB2	2:C:815:SER:O	2.20	0.40
2:C:1064:ASP:OD1	2:C:1239:VAL:HG12	2.22	0.40
3:D:58:CYS:SG	3:D:60:ARG:CB	3.06	0.40
3:D:79:LYS:O	3:D:81:ARG:HG2	2.21	0.40
3:D:394:ILE:O	3:D:395:LYS:C	2.64	0.40
3:D:425:ARG:HH11	3:D:459:ALA:CB	2.35	0.40
3:D:501:VAL:HG22	3:D:502:PRO:N	2.36	0.40
3:D:649:LYS:HD2	3:D:652:GLU:CD	2.46	0.40
3:D:1156:LEU:CD1	3:D:1209:VAL:HA	2.48	0.40
3:D:1159:ILE:HD12	3:D:1160:SER:H	1.87	0.40
3:D:1159:ILE:C	3:D:1206:ARG:HB3	2.45	0.40
3:D:1237:VAL:HG13	3:D:1238:GLN:HG2	2.03	0.40
3:D:1328:THR:C	3:D:1330:ARG:N	2.76	0.40
5:F:249:ILE:O	5:F:253:SER:OG	2.39	0.40
5:F:412:LEU:HB2	5:F:435:ILE:HD11	2.03	0.40
5:F:419:PHE:CD1	5:F:430:TYR:CD2	3.09	0.40
5:F:484:ALA:HA	5:F:494:ILE:HD11	2.04	0.40
5:F:500:ILE:O	5:F:500:ILE:CG2	2.68	0.40
5:F:559:LEU:C	5:F:561:MET:N	2.77	0.40
5:F:598:LEU:CA	5:F:601:PRO:HG3	2.51	0.40
1:G:142:MET:HE2	1:G:142:MET:HB3	1.82	0.40
1:G:166:ARG:C	1:G:166:ARG:CD	2.91	0.40
2:I:155:VAL:HG23	2:I:176:ILE:HG12	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:209:ILE:O	2:I:209:ILE:HG12	2.21	0.40
2:I:540:ARG:HE	2:I:568:ASN:CB	2.34	0.40
2:I:592:ARG:O	2:I:652:TYR:HD2	2.04	0.40
2:I:690:VAL:HG23	2:I:1236:ASN:HB3	2.02	0.40
2:I:756:TYR:C	2:I:757:THR:HG22	2.47	0.40
2:I:850:ILE:HD13	2:I:886:LYS:HB2	2.02	0.40
2:I:858:GLY:O	2:I:861:ALA:N	2.49	0.40
2:I:964:LEU:HD12	2:I:964:LEU:HA	1.86	0.40
2:I:1099:ASN:HA	2:I:1100:PRO:HD3	1.73	0.40
2:I:1145:ILE:CG2	2:I:1146:GLN:N	2.77	0.40
2:I:1198:LEU:HD13	2:I:1198:LEU:C	2.46	0.40
3:J:24:LEU:CD2	3:J:1337:VAL:HA	2.52	0.40
3:J:327:LEU:HD23	3:J:330:MET:HE2	2.02	0.40
3:J:421:VAL:C	3:J:422:LEU:HD12	2.46	0.40
3:J:868:TRP:HA	3:J:868:TRP:HE3	1.87	0.40
3:J:1238:GLN:NE2	3:J:1248:ILE:O	2.44	0.40
3:J:1252:HIS:O	3:J:1253:ILE:C	2.62	0.40
3:J:1264:ALA:CB	3:J:1280:VAL:HG22	2.50	0.40
4:K:17:PHE:O	4:K:19:LEU:N	2.53	0.40
5:L:340:ALA:O	5:L:344:LEU:HB2	2.22	0.40
5:L:387:VAL:CG2	5:L:435:ILE:HD13	2.49	0.40
1:A:110:VAL:HG21	1:A:140:ILE:HD11	2.03	0.40
1:B:81:ILE:CD1	1:B:131:CYS:HB3	2.52	0.40
1:B:149:GLY:O	1:B:177:TYR:HB3	2.22	0.40
1:B:192:VAL:HG23	1:B:198:LEU:HD23	2.03	0.40
1:B:209:GLY:O	1:B:210:THR:C	2.64	0.40
1:B:215:GLU:O	1:B:218:ARG:N	2.55	0.40
1:B:314:LEU:HG	1:B:315:GLY:N	2.36	0.40
2:C:402:ARG:NH2	2:C:424:ASP:OD2	2.46	0.40
2:C:403:MET:HA	2:C:414:ILE:O	2.21	0.40
2:C:452:ARG:HB2	2:C:586:PHE:CD2	2.57	0.40
2:C:513:GLN:HE21	2:C:513:GLN:HB3	1.59	0.40
2:C:631:GLU:HB3	2:C:633:LEU:H	1.87	0.40
2:C:746:ALA:HB2	2:C:974:ARG:CZ	2.52	0.40
2:C:1080:ASN:HB2	2:C:1085:MET:CE	2.52	0.40
2:C:1080:ASN:CB	2:C:1085:MET:HE3	2.51	0.40
2:C:1132:LEU:HD22	2:C:1177:ARG:CZ	2.50	0.40
2:C:1210:ILE:HD12	2:C:1227:VAL:HG22	2.04	0.40
2:C:1293:VAL:O	2:C:1293:VAL:HG12	2.21	0.40
2:C:1319:MET:HE2	2:C:1319:MET:HB3	1.87	0.40
3:D:34:SER:HB2	3:D:103:GLY:C	2.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:71:LEU:HB3	3:D:88:CYS:SG	2.61	0.40
3:D:242:LEU:C	3:D:242:LEU:CD2	2.94	0.40
3:D:474:LEU:HD12	3:D:474:LEU:HA	1.07	0.40
3:D:679:TYR:OH	3:D:754:ILE:HG23	2.21	0.40
3:D:753:SER:O	3:D:753:SER:OG	2.39	0.40
3:D:1257:VAL:HG22	3:D:1260:MET:HE2	2.03	0.40
3:D:1322:ALA:CA	3:D:1325:PHE:CE1	2.97	0.40
4:E:36:ASP:CB	4:E:37:PRO:CD	2.81	0.40
5:F:275:VAL:HA	5:F:278:ASP:CG	2.46	0.40
5:F:297:MET:HE2	5:F:326:TRP:CE3	2.56	0.40
5:F:387:VAL:HG22	5:F:435:ILE:CD1	2.51	0.40
5:F:388:ILE:O	5:F:389:SER:C	2.64	0.40
2:I:12:ARG:NH1	2:I:701:GLY:HA3	2.37	0.40
2:I:74:ARG:HH12	2:I:97:ARG:CG	2.34	0.40
2:I:157:PHE:CE1	2:I:174:ALA:HB1	2.57	0.40
2:I:210:LEU:HD23	2:I:210:LEU:HA	1.63	0.40
2:I:369:MET:SD	2:I:369:MET:C	3.05	0.40
2:I:484:LEU:C	2:I:486:THR:N	2.78	0.40
2:I:582:ASN:ND2	2:I:586:PHE:HB2	2.31	0.40
2:I:653:MET:O	2:I:654:ASP:C	2.64	0.40
2:I:750:ILE:O	2:I:750:ILE:HG12	2.11	0.40
2:I:881:ASP:OD1	2:I:881:ASP:N	2.55	0.40
2:I:882:ILE:HD12	2:I:882:ILE:N	2.35	0.40
2:I:976:ARG:NH2	2:I:986:ALA:O	2.51	0.40
2:I:1122:LYS:CB	2:I:1229:TYR:HE1	2.35	0.40
2:I:1254:VAL:HG22	2:I:1255:THR:N	2.35	0.40
2:I:1285:TYR:O	2:I:1287:LEU:N	2.54	0.40
3:J:94:GLN:H	3:J:94:GLN:HG3	1.73	0.40
3:J:139:LEU:HB3	3:J:140:TYR:CE1	2.56	0.40
3:J:169:LEU:HD23	3:J:169:LEU:HA	1.74	0.40
3:J:288:PRO:C	3:J:292:VAL:HG13	2.46	0.40
3:J:506:VAL:HG22	3:J:507:VAL:N	2.36	0.40
3:J:543:SER:OG	3:J:545:HIS:ND1	2.54	0.40
3:J:793:SER:HA	3:J:796:LEU:HB3	2.03	0.40
3:J:836:ARG:NH2	3:J:870:ASP:OD1	2.55	0.40
3:J:1171:GLY:C	3:J:1193:TRP:HZ3	2.29	0.40
5:L:231:THR:HG21	5:L:249:ILE:HA	2.03	0.40
5:L:360:ASP:O	5:L:363:ARG:HB3	2.21	0.40
5:L:389:SER:O	5:L:392:LYS:CB	2.69	0.40
5:L:461:ASN:O	5:L:465:ARG:CB	2.70	0.40
5:L:498:LEU:HD13	5:L:498:LEU:HA	1.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:581:ASP:O	5:L:582:VAL:C	2.64	0.40
1:A:22:THR:O	1:A:206:GLU:HA	2.21	0.40
1:A:38:THR:HA	1:B:45:ARG:HD3	2.04	0.40
1:A:152:TYR:CD2	1:A:152:TYR:C	2.99	0.40
1:B:85:LEU:HD23	1:B:85:LEU:H	1.84	0.40
1:B:182:ARG:HH11	1:B:182:ARG:CG	2.29	0.40
2:C:180:ARG:CG	2:C:181:GLY:N	2.85	0.40
2:C:211:ARG:NH2	2:C:351:LEU:CD2	2.85	0.40
2:C:324:LYS:CA	2:C:327:GLN:HG3	2.52	0.40
2:C:602:GLU:CD	2:C:604:HIS:HE1	2.29	0.40
2:C:665:ALA:O	2:C:668:ILE:N	2.47	0.40
2:C:673:HIS:CE1	3:D:765:GLU:C	2.99	0.40
2:C:685:MET:O	2:C:1235:LEU:HD11	2.22	0.40
2:C:720:ARG:HB2	2:C:736:VAL:HG13	2.03	0.40
2:C:843:THR:O	2:C:846:GLY:N	2.55	0.40
2:C:873:ILE:HG13	2:C:873:ILE:H	1.77	0.40
2:C:999:GLU:O	2:C:1000:LEU:C	2.64	0.40
2:C:1099:ASN:HA	2:C:1100:PRO:HD3	1.35	0.40
2:C:1172:LEU:O	2:C:1172:LEU:HD22	2.22	0.40
2:C:1272:GLU:HB2	3:D:342:LEU:HB2	2.03	0.40
2:C:1319:MET:HG3	2:C:1320:PRO:CD	2.52	0.40
3:D:53:ARG:NH1	3:D:60:ARG:CD	2.85	0.40
3:D:215:LYS:O	3:D:219:LYS:HB2	2.20	0.40
3:D:294:ASN:HD22	5:F:406:GLN:CD	2.29	0.40
3:D:387:LEU:C	3:D:389:GLY:N	2.78	0.40
3:D:697:MET:HG3	3:D:698:MET:H	1.83	0.40
3:D:766:GLY:C	3:D:767:LEU:HD12	2.45	0.40
3:D:1220:ILE:O	3:D:1224:ARG:N	2.55	0.40
3:D:1231:ARG:CZ	3:D:1231:ARG:HB3	2.52	0.40
3:D:1262:ARG:HB2	3:D:1262:ARG:HH11	1.86	0.40
4:E:63:ILE:H	4:E:63:ILE:HD12	1.87	0.40
5:F:147:GLN:HA	5:F:150:ARG:HB2	2.03	0.40
5:F:400:GLN:H	5:F:400:GLN:HG2	1.65	0.40
5:F:482:GLU:O	5:F:485:GLU:CB	2.70	0.40
5:F:555:GLU:O	5:F:558:VAL:N	2.47	0.40
1:H:33:ARG:HH12	2:I:1081:PRO:HB3	1.87	0.40
1:H:74:VAL:HG12	1:H:76:GLU:H	1.86	0.40
2:I:175:ARG:HE	2:I:175:ARG:HB2	1.74	0.40
2:I:237:LEU:HD13	2:I:237:LEU:HA	1.54	0.40
2:I:397:LEU:O	2:I:398:SER:CB	2.70	0.40
2:I:400:VAL:H	2:I:400:VAL:HG23	1.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:463:GLN:NE2	2:I:501:ALA:HB1	2.36	0.40
2:I:520:PRO:CG	2:I:714:VAL:HG21	2.51	0.40
2:I:617:ALA:CB	2:I:653:MET:HA	2.50	0.40
2:I:804:PHE:CE1	2:I:1098:LEU:CD2	3.05	0.40
3:J:22:ILE:HD11	3:J:1336:ALA:HB2	2.03	0.40
3:J:57:PHE:CE1	3:J:252:LEU:HB2	2.56	0.40
3:J:311:ARG:C	3:J:312:ARG:CG	2.93	0.40
3:J:450:HIS:NE2	3:J:625:MET:HE1	2.37	0.40
3:J:1138:LEU:O	3:J:1141:VAL:HB	2.22	0.40
3:J:1232:TYR:O	3:J:1233:ILE:C	2.65	0.40
5:L:376:LYS:O	5:L:377:LYS:C	2.65	0.40
5:L:385:ARG:O	5:L:388:ILE:HB	2.22	0.40
5:L:502:LYS:HB3	5:L:504:PRO:CB	2.51	0.40

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

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:170:GLU:OE1	3:J:165:TYR:OH[3_444]	2.04	0.16
2:C:44:GLU:OE1	5:F:599:ARG:NE[4_445]	2.09	0.11

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	227/329 (69%)	179 (79%)	35 (15%)	13 (6%)	1	16
1	B	283/329 (86%)	167 (59%)	60 (21%)	56 (20%)	0	1
1	G	225/329 (68%)	177 (79%)	40 (18%)	8 (4%)	2	23
1	H	212/329 (64%)	170 (80%)	35 (16%)	7 (3%)	3	24
2	C	1338/1342 (100%)	1019 (76%)	256 (19%)	63 (5%)	2	19

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	I	1338/1342 (100%)	1031 (77%)	261 (20%)	46 (3%)	3	24
3	D	1162/1407 (83%)	850 (73%)	234 (20%)	78 (7%)	1	14
3	J	1151/1407 (82%)	851 (74%)	232 (20%)	68 (6%)	1	16
4	E	87/91 (96%)	69 (79%)	14 (16%)	4 (5%)	2	19
4	K	77/91 (85%)	61 (79%)	13 (17%)	3 (4%)	2	21
5	F	454/613 (74%)	342 (75%)	89 (20%)	23 (5%)	1	18
5	L	454/613 (74%)	336 (74%)	94 (21%)	24 (5%)	1	17
All	All	7008/8222 (85%)	5252 (75%)	1363 (19%)	393 (6%)	1	16

All (393) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	136	GLU
1	A	162	GLU
1	B	11	PRO
1	B	12	ARG
1	B	44	ARG
1	B	45	ARG
1	B	82	LEU
1	B	121	VAL
1	B	156	SER
1	B	158	ARG
1	B	214	GLU
1	B	215	GLU
1	B	216	ALA
1	B	229	GLU
1	B	272	ALA
1	B	273	GLU
1	B	276	HIS
1	B	298	LYS
1	B	305	ASP
2	C	36	GLN
2	C	40	GLU
2	C	160	ASP
2	C	162	GLY
2	C	169	LYS
2	C	170	VAL
2	C	298	ALA
2	C	417	SER
2	C	482	GLY

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Mol	Chain	Res	Type
2	C	484	LEU
2	C	490	GLN
2	C	510	GLN
2	C	647	ARG
2	C	714	VAL
2	C	1030	GLU
2	C	1107	MET
2	C	1159	VAL
2	C	1165	SER
2	C	1317	PRO
3	D	10	ALA
3	D	46	TYR
3	D	49	PHE
3	D	89	GLY
3	D	119	SER
3	D	120	LEU
3	D	248	ASP
3	D	334	LYS
3	D	335	GLN
3	D	343	LEU
3	D	345	LYS
3	D	426	ALA
3	D	496	GLY
3	D	521	LYS
3	D	590	SER
3	D	614	LEU
3	D	660	GLU
3	D	705	THR
3	D	745	GLY
3	D	751	ASP
3	D	776	THR
3	D	777	HIS
3	D	804	ALA
3	D	806	ASP
3	D	826	ILE
3	D	828	GLY
3	D	831	VAL
3	D	850	LYS
3	D	899	TYR
3	D	1169	THR
3	D	1293	GLU
3	D	1294	ALA

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Mol	Chain	Res	Type
4	E	25	ARG
4	E	33	GLY
5	F	107	THR
5	F	108	VAL
5	F	113	ARG
5	F	241	SER
5	F	422	ARG
5	F	475	GLY
5	F	486	ARG
5	F	490	PRO
5	F	513	ASP
5	F	582	VAL
5	F	601	PRO
1	G	162	GLU
1	G	177	TYR
1	G	229	GLU
1	G	232	VAL
1	H	11	PRO
1	H	193	GLU
2	I	160	ASP
2	I	162	GLY
2	I	164	THR
2	I	169	LYS
2	I	170	VAL
2	I	298	ALA
2	I	482	GLY
2	I	490	GLN
2	I	688	GLN
2	I	1073	LYS
2	I	1107	MET
2	I	1151	LEU
2	I	1153	ALA
2	I	1159	VAL
2	I	1165	SER
2	I	1245	ALA
2	I	1283	ALA
2	I	1317	PRO
3	J	17	PHE
3	J	49	PHE
3	J	120	LEU
3	J	151	MET
3	J	182	ALA

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Mol	Chain	Res	Type
3	J	334	LYS
3	J	335	GLN
3	J	343	LEU
3	J	345	LYS
3	J	357	VAL
3	J	426	ALA
3	J	496	GLY
3	J	503	SER
3	J	614	LEU
3	J	710	ASP
3	J	745	GLY
3	J	751	ASP
3	J	769	VAL
3	J	804	ALA
3	J	828	GLY
3	J	831	VAL
3	J	850	LYS
3	J	868	TRP
3	J	899	TYR
3	J	1294	ALA
3	J	1326	GLN
4	K	15	ASN
4	K	25	ARG
4	K	33	GLY
5	L	107	THR
5	L	108	VAL
5	L	113	ARG
5	L	241	SER
5	L	475	GLY
5	L	490	PRO
5	L	513	ASP
5	L	564	GLY
5	L	582	VAL
5	L	601	PRO
1	A	30	PRO
1	A	157	THR
1	A	177	TYR
1	A	196	THR
1	B	16	ILE
1	B	36	GLY
1	B	46	ILE
1	B	78	ILE

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Mol	Chain	Res	Type
1	B	86	LYS
1	B	93	GLN
1	B	135	ASP
1	B	154	PRO
1	B	159	ILE
1	B	179	PRO
1	B	226	GLU
1	B	228	LEU
1	B	232	VAL
1	B	251	PRO
1	B	257	VAL
1	B	279	GLY
1	B	281	LEU
1	B	293	PRO
2	C	164	THR
2	C	276	GLN
2	C	491	ASP
2	C	596	ASP
2	C	666	SER
2	C	687	ARG
2	C	756	TYR
2	C	820	GLU
2	C	907	GLY
2	C	1029	LEU
2	C	1106	ARG
2	C	1109	ILE
2	C	1151	LEU
2	C	1245	ALA
3	D	16	GLU
3	D	300	GLN
3	D	328	ALA
3	D	336	GLY
3	D	417	ARG
3	D	431	ARG
3	D	503	SER
3	D	523	GLU
3	D	559	ALA
3	D	584	PRO
3	D	626	TYR
3	D	710	ASP
3	D	1297	LYS
3	D	1314	LEU

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Mol	Chain	Res	Type
5	F	401	PHE
5	F	516	ASP
5	F	564	GLY
1	G	14	VAL
1	G	167	PRO
2	I	36	GLN
2	I	276	GLN
2	I	484	LEU
2	I	523	GLU
2	I	756	TYR
2	I	1154	ASP
2	I	1247	SER
3	J	46	TYR
3	J	80	HIS
3	J	89	GLY
3	J	248	ASP
3	J	270	ARG
3	J	328	ALA
3	J	349	TYR
3	J	428	THR
3	J	584	PRO
3	J	626	TYR
3	J	660	GLU
3	J	705	THR
3	J	1314	LEU
5	L	139	GLU
5	L	401	PHE
5	L	402	LEU
5	L	422	ARG
5	L	476	ARG
5	L	486	ARG
1	A	62	ASP
1	A	134	THR
1	A	167	PRO
1	B	20	SER
1	B	138	ALA
1	B	157	THR
1	B	193	GLU
1	B	213	PRO
2	C	299	LYS
2	C	745	GLU
2	C	812	PHE

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Mol	Chain	Res	Type
2	C	1207	SER
2	C	1295	SER
3	D	17	PHE
3	D	151	MET
3	D	182	ALA
3	D	196	GLN
3	D	352	ARG
3	D	428	THR
3	D	538	ARG
3	D	877	VAL
3	D	1281	GLU
1	H	229	GLU
2	I	573	ASN
2	I	666	SER
2	I	1059	ARG
2	I	1192	GLU
3	J	300	GLN
3	J	523	GLU
3	J	538	ARG
3	J	560	ASN
3	J	696	ALA
3	J	801	VAL
3	J	809	VAL
3	J	1297	LYS
3	J	1349	GLU
5	L	140	ALA
5	L	544	THR
5	L	560	ARG
1	A	195	ARG
1	B	49	SER
1	B	85	LEU
1	B	136	GLU
1	B	219	ARG
1	B	261	GLU
1	B	304	LYS
2	C	465	ARG
2	C	485	ASP
2	C	541	GLU
2	C	600	THR
2	C	686	GLN
2	C	1043	ALA
2	C	1256	GLN

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Mol	Chain	Res	Type
3	D	98	ARG
3	D	341	ASN
3	D	358	GLY
3	D	696	ALA
3	D	809	VAL
3	D	868	TRP
3	D	1289	ASN
5	F	502	LYS
5	F	581	ASP
1	H	20	SER
1	H	138	ALA
2	I	698	PRO
2	I	812	PHE
2	I	813	GLU
2	I	1256	GLN
2	I	1261	GLY
3	J	322	ARG
3	J	352	ARG
3	J	429	LEU
3	J	559	ALA
3	J	712	GLN
3	J	721	SER
3	J	877	VAL
3	J	1284	ARG
3	J	1328	THR
5	L	116	GLU
5	L	504	PRO
1	A	14	VAL
1	B	37	HIS
1	B	99	ILE
1	B	313	SER
2	C	15	PHE
2	C	120	GLN
2	C	508	SER
2	C	608	ALA
2	C	696	ASP
2	C	897	PRO
2	C	1192	GLU
2	C	1326	LEU
3	D	13	LYS
3	D	79	LYS
3	D	232	ASN

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Mol	Chain	Res	Type
3	D	270	ARG
3	D	322	ARG
3	D	704	GLU
3	D	769	VAL
3	D	851	PRO
3	D	1157	ALA
4	E	69	ARG
5	F	428	SER
5	F	578	LYS
2	I	159	SER
2	I	572	ILE
2	I	907	GLY
2	I	1286	THR
3	J	454	CYS
3	J	618	VAL
3	J	1169	THR
5	L	575	GLU
5	L	581	ASP
1	B	144	ILE
1	B	178	SER
1	B	217	ILE
1	B	247	PRO
2	C	342	ASP
2	C	398	SER
2	C	460	ALA
2	C	464	PHE
2	C	697	LYS
3	D	80	HIS
3	D	618	VAL
3	D	650	LYS
3	D	694	SER
4	E	16	ARG
5	F	116	GLU
5	F	519	LEU
1	G	62	ASP
1	G	156	SER
1	H	41	ASN
2	I	237	LEU
2	I	596	ASP
2	I	1164	PHE
3	J	87	LYS
3	J	417	ARG

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Mol	Chain	Res	Type
3	J	749	LYS
3	J	1361	THR
5	L	502	LYS
1	B	74	VAL
3	D	439	PRO
3	J	344	GLY
2	C	208	ILE
2	C	570	GLY
2	C	983	GLY
2	C	1103	VAL
2	I	530	ILE
2	I	921	PRO
2	I	983	GLY
3	J	829	GLY
3	J	851	PRO
1	B	119	GLY
3	D	357	VAL
5	F	505	ILE
3	J	1360	GLY
1	A	78	ILE
1	B	98	VAL
2	C	905	ILE
3	D	303	VAL
5	F	127	ILE
2	I	552	PRO
1	A	29	GLU
1	H	107	ILE
2	I	524	ILE
5	F	504	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	197/286 (69%)	154 (78%)	43 (22%)	1 6
1	B	250/286 (87%)	167 (67%)	83 (33%)	0 1

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	G	193/286 (68%)	164 (85%)	29 (15%)	3	16
1	H	183/286 (64%)	148 (81%)	35 (19%)	1	10
2	C	1154/1157 (100%)	933 (81%)	221 (19%)	1	9
2	I	1151/1157 (100%)	956 (83%)	195 (17%)	2	13
3	D	963/1168 (82%)	728 (76%)	235 (24%)	1	4
3	J	965/1168 (83%)	749 (78%)	216 (22%)	1	5
4	E	72/75 (96%)	59 (82%)	13 (18%)	2	11
4	K	67/75 (89%)	60 (90%)	7 (10%)	7	26
5	F	406/540 (75%)	340 (84%)	66 (16%)	2	14
5	L	385/540 (71%)	334 (87%)	51 (13%)	4	19
All	All	5986/7024 (85%)	4792 (80%)	1194 (20%)	1	9

All (1194) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	GLU
1	A	8	PHE
1	A	11	PRO
1	A	12	ARG
1	A	19	VAL
1	A	26	VAL
1	A	27	THR
1	A	35	PHE
1	A	44	ARG
1	A	46	ILE
1	A	56	VAL
1	A	61	ILE
1	A	64	VAL
1	A	66	HIS
1	A	67	GLU
1	A	70	THR
1	A	74	VAL
1	A	75	GLN
1	A	77	ASP
1	A	97	GLU
1	A	98	VAL
1	A	102	LEU
1	A	111	THR

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Mol	Chain	Res	Type
1	A	116	THR
1	A	133	LEU
1	A	137	ASN
1	A	140	ILE
1	A	146	VAL
1	A	157	THR
1	A	158	ARG
1	A	163	GLU
1	A	171	LEU
1	A	180	VAL
1	A	183	ILE
1	A	192	VAL
1	A	197	ASP
1	A	206	GLU
1	A	210	THR
1	A	211	ILE
1	A	224	LEU
1	A	227	GLN
1	A	234	LEU
1	A	235	ARG
1	B	8	PHE
1	B	9	LEU
1	B	13	LEU
1	B	14	VAL
1	B	16	ILE
1	B	17	GLU
1	B	19	VAL
1	B	21	SER
1	B	27	THR
1	B	33	ARG
1	B	35	PHE
1	B	44	ARG
1	B	48	LEU
1	B	59	VAL
1	B	60	GLU
1	B	61	ILE
1	B	64	VAL
1	B	66	HIS
1	B	67	GLU
1	B	72	GLU
1	B	76	GLU
1	B	77	ASP

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Mol	Chain	Res	Type
1	B	79	LEU
1	B	81	ILE
1	B	82	LEU
1	B	85	LEU
1	B	88	LEU
1	B	90	VAL
1	B	91	ARG
1	B	92	VAL
1	B	98	VAL
1	B	100	LEU
1	B	101	THR
1	B	102	LEU
1	B	105	SER
1	B	118	ASP
1	B	120	ASP
1	B	121	VAL
1	B	123	ILE
1	B	124	VAL
1	B	129	VAL
1	B	133	LEU
1	B	134	THR
1	B	136	GLU
1	B	143	ARG
1	B	147	GLN
1	B	156	SER
1	B	157	THR
1	B	172	LEU
1	B	180	VAL
1	B	182	ARG
1	B	186	ASN
1	B	187	VAL
1	B	191	ARG
1	B	192	VAL
1	B	195	ARG
1	B	196	THR
1	B	200	LYS
1	B	203	ILE
1	B	205	MET
1	B	206	GLU
1	B	211	ILE
1	B	218	ARG
1	B	219	ARG

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Mol	Chain	Res	Type
1	B	223	ILE
1	B	224	LEU
1	B	252	ILE
1	B	253	LEU
1	B	255	ARG
1	B	262	LEU
1	B	263	THR
1	B	265	ARG
1	B	273	GLU
1	B	277	TYR
1	B	278	ILE
1	B	284	ARG
1	B	285	THR
1	B	286	GLU
1	B	293	PRO
1	B	295	LEU
1	B	304	LYS
1	B	306	VAL
1	B	310	ARG
2	C	9	LYS
2	C	11	ILE
2	C	20	GLN
2	C	46	GLN
2	C	56	VAL
2	C	59	ILE
2	C	60	GLN
2	C	81	ASP
2	C	84	GLU
2	C	93	SER
2	C	98	VAL
2	C	102	LEU
2	C	103	VAL
2	C	113	THR
2	C	115	LYS
2	C	117	ILE
2	C	118	LYS
2	C	119	GLU
2	C	120	GLN
2	C	122	VAL
2	C	131	THR
2	C	138	ILE
2	C	145	ILE

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Mol	Chain	Res	Type
2	C	146	VAL
2	C	152	SER
2	C	161	LYS
2	C	164	THR
2	C	165	HIS
2	C	167	SER
2	C	170	VAL
2	C	182	SER
2	C	185	ASP
2	C	201	ARG
2	C	208	ILE
2	C	209	ILE
2	C	213	LEU
2	C	223	LEU
2	C	239	MET
2	C	269	ILE
2	C	285	ILE
2	C	287	VAL
2	C	292	ILE
2	C	302	ILE
2	C	306	THR
2	C	309	LEU
2	C	316	GLU
2	C	319	LEU
2	C	321	LEU
2	C	325	LEU
2	C	337	PHE
2	C	357	ASN
2	C	363	LEU
2	C	369	MET
2	C	377	THR
2	C	384	LEU
2	C	409	LEU
2	C	419	ILE
2	C	420	LEU
2	C	423	ASP
2	C	428	VAL
2	C	443	ASP
2	C	451	ARG
2	C	453	ILE
2	C	463	GLN
2	C	481	LEU

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Mol	Chain	Res	Type
2	C	484	LEU
2	C	487	LEU
2	C	502	VAL
2	C	518	ASN
2	C	519	ASN
2	C	524	ILE
2	C	530	ILE
2	C	539	THR
2	C	540	ARG
2	C	542	ARG
2	C	550	VAL
2	C	553	THR
2	C	563	THR
2	C	587	LEU
2	C	600	THR
2	C	609	ILE
2	C	615	VAL
2	C	618	GLN
2	C	623	LEU
2	C	628	HIS
2	C	635	THR
2	C	638	SER
2	C	657	THR
2	C	660	VAL
2	C	662	SER
2	C	667	LEU
2	C	668	ILE
2	C	672	GLU
2	C	674	ASP
2	C	681	MET
2	C	687	ARG
2	C	690	VAL
2	C	692	THR
2	C	697	LYS
2	C	699	LEU
2	C	700	VAL
2	C	705	GLU
2	C	714	VAL
2	C	717	VAL
2	C	733	VAL
2	C	736	VAL
2	C	739	ASP

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Mol	Chain	Res	Type
2	C	748	ILE
2	C	749	ASP
2	C	750	ILE
2	C	753	LEU
2	C	756	TYR
2	C	757	THR
2	C	763	THR
2	C	765	ILE
2	C	773	LEU
2	C	783	LEU
2	C	789	THR
2	C	790	ASP
2	C	791	LEU
2	C	799	ASN
2	C	800	MET
2	C	813	GLU
2	C	817	LEU
2	C	818	VAL
2	C	822	VAL
2	C	823	VAL
2	C	831	ILE
2	C	833	ILE
2	C	838	CYS
2	C	844	LYS
2	C	851	THR
2	C	857	VAL
2	C	863	SER
2	C	867	GLU
2	C	878	THR
2	C	881	ASP
2	C	882	ILE
2	C	890	LYS
2	C	892	GLU
2	C	902	LEU
2	C	911	SER
2	C	918	LEU
2	C	919	ARG
2	C	921	PRO
2	C	922	ASN
2	C	933	VAL
2	C	934	PHE
2	C	944	ARG

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Mol	Chain	Res	Type
2	C	948	ILE
2	C	951	MET
2	C	960	LEU
2	C	963	GLU
2	C	967	LEU
2	C	984	VAL
2	C	1002	LEU
2	C	1004	ASP
2	C	1006	GLU
2	C	1018	TYR
2	C	1036	ILE
2	C	1037	THR
2	C	1040	ASP
2	C	1044	PRO
2	C	1046	VAL
2	C	1050	VAL
2	C	1054	LEU
2	C	1056	VAL
2	C	1059	ARG
2	C	1060	ILE
2	C	1062	PRO
2	C	1072	ASN
2	C	1073	LYS
2	C	1076	ILE
2	C	1082	ILE
2	C	1084	ASP
2	C	1087	TYR
2	C	1094	VAL
2	C	1103	VAL
2	C	1126	ASP
2	C	1137	GLU
2	C	1145	ILE
2	C	1146	GLN
2	C	1154	ASP
2	C	1156	ARG
2	C	1159	VAL
2	C	1162	SER
2	C	1163	THR
2	C	1164	PHE
2	C	1172	LEU
2	C	1174	GLU
2	C	1198	LEU

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Mol	Chain	Res	Type
2	C	1207	SER
2	C	1211	ARG
2	C	1226	THR
2	C	1227	VAL
2	C	1233	LEU
2	C	1236	ASN
2	C	1237	HIS
2	C	1238	LEU
2	C	1239	VAL
2	C	1244	HIS
2	C	1248	THR
2	C	1252	SER
2	C	1254	VAL
2	C	1255	THR
2	C	1264	GLN
2	C	1268	GLN
2	C	1275	VAL
2	C	1278	LEU
2	C	1279	GLU
2	C	1281	TYR
2	C	1291	LEU
2	C	1294	LYS
2	C	1295	SER
2	C	1299	ASN
2	C	1301	ARG
2	C	1309	VAL
2	C	1325	VAL
2	C	1332	SER
2	C	1337	ILE
2	C	1342	GLU
3	D	9	LYS
3	D	11	GLN
3	D	13	LYS
3	D	26	SER
3	D	27	PRO
3	D	29	MET
3	D	43	THR
3	D	44	ILE
3	D	46	TYR
3	D	52	GLU
3	D	54	ASP
3	D	66	LYS

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Mol	Chain	Res	Type
3	D	70	CYS
3	D	71	LEU
3	D	75	TYR
3	D	78	LEU
3	D	79	LYS
3	D	83	VAL
3	D	92	VAL
3	D	96	LYS
3	D	97	VAL
3	D	106	GLU
3	D	109	SER
3	D	111	THR
3	D	115	TRP
3	D	118	LYS
3	D	120	LEU
3	D	124	ILE
3	D	126	LEU
3	D	132	LEU
3	D	135	ILE
3	D	154	LEU
3	D	162	GLU
3	D	169	LEU
3	D	172	PHE
3	D	176	PHE
3	D	177	ASP
3	D	183	GLU
3	D	194	LEU
3	D	195	GLU
3	D	215	LYS
3	D	217	LEU
3	D	218	THR
3	D	221	ILE
3	D	222	LYS
3	D	229	GLN
3	D	230	SER
3	D	241	VAL
3	D	242	LEU
3	D	244	VAL
3	D	247	PRO
3	D	248	ASP
3	D	252	LEU
3	D	255	LEU

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Mol	Chain	Res	Type
3	D	256	ASP
3	D	262	THR
3	D	268	LEU
3	D	289	ASP
3	D	290	ILE
3	D	292	VAL
3	D	306	LEU
3	D	314	ARG
3	D	320	ASN
3	D	324	LEU
3	D	331	ILE
3	D	334	LYS
3	D	338	PHE
3	D	347	VAL
3	D	350	SER
3	D	356	THR
3	D	357	VAL
3	D	368	LEU
3	D	374	LEU
3	D	376	LEU
3	D	394	ILE
3	D	402	GLU
3	D	408	VAL
3	D	415	VAL
3	D	418	GLU
3	D	421	VAL
3	D	422	LEU
3	D	423	LEU
3	D	424	ASN
3	D	425	ARG
3	D	428	THR
3	D	429	LEU
3	D	430	HIS
3	D	441	LEU
3	D	442	ILE
3	D	449	LEU
3	D	473	THR
3	D	474	LEU
3	D	475	GLU
3	D	483	LEU
3	D	484	MET
3	D	487	THR

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Mol	Chain	Res	Type
3	D	490	ILE
3	D	491	LEU
3	D	492	SER
3	D	499	ILE
3	D	502	PRO
3	D	505	ASP
3	D	506	VAL
3	D	507	VAL
3	D	510	LEU
3	D	511	TYR
3	D	514	THR
3	D	523	GLU
3	D	525	MET
3	D	526	VAL
3	D	528	THR
3	D	532	GLU
3	D	536	LEU
3	D	544	LEU
3	D	545	HIS
3	D	550	VAL
3	D	553	THR
3	D	558	ASP
3	D	560	ASN
3	D	563	LEU
3	D	572	THR
3	D	573	THR
3	D	574	VAL
3	D	582	ILE
3	D	583	VAL
3	D	587	LEU
3	D	594	GLN
3	D	596	LEU
3	D	598	LYS
3	D	599	LYS
3	D	602	SER
3	D	607	THR
3	D	615	LYS
3	D	639	VAL
3	D	646	ILE
3	D	661	VAL
3	D	674	THR
3	D	678	ARG

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Mol	Chain	Res	Type
3	D	683	ILE
3	D	698	MET
3	D	701	LEU
3	D	703	THR
3	D	705	THR
3	D	707	ILE
3	D	708	ASN
3	D	710	ASP
3	D	712	GLN
3	D	717	VAL
3	D	720	ASN
3	D	740	LEU
3	D	746	LEU
3	D	754	ILE
3	D	755	ILE
3	D	757	THR
3	D	764	ARG
3	D	769	VAL
3	D	770	LEU
3	D	772	TYR
3	D	774	ILE
3	D	786	THR
3	D	790	THR
3	D	795	TYR
3	D	801	VAL
3	D	803	VAL
3	D	806	ASP
3	D	808	VAL
3	D	810	THR
3	D	823	THR
3	D	825	VAL
3	D	827	GLU
3	D	831	VAL
3	D	833	GLU
3	D	839	VAL
3	D	847	ASP
3	D	849	LEU
3	D	853	THR
3	D	856	ILE
3	D	858	VAL
3	D	864	LEU
3	D	867	GLN

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Mol	Chain	Res	Type
3	D	877	VAL
3	D	886	VAL
3	D	891	ASP
3	D	901	ARG
3	D	903	LEU
3	D	908	ILE
3	D	909	ILE
3	D	913	GLU
3	D	918	ILE
3	D	922	SER
3	D	929	GLN
3	D	1146	GLU
3	D	1155	ILE
3	D	1156	LEU
3	D	1160	SER
3	D	1162	ILE
3	D	1170	LYS
3	D	1173	ARG
3	D	1177	ILE
3	D	1183	SER
3	D	1199	PHE
3	D	1209	VAL
3	D	1221	LEU
3	D	1226	VAL
3	D	1229	VAL
3	D	1231	ARG
3	D	1233	ILE
3	D	1235	ASN
3	D	1237	VAL
3	D	1242	ARG
3	D	1255	VAL
3	D	1257	VAL
3	D	1261	LEU
3	D	1266	ILE
3	D	1267	VAL
3	D	1272	SER
3	D	1273	ASP
3	D	1278	GLU
3	D	1279	GLN
3	D	1280	VAL
3	D	1284	ARG
3	D	1285	VAL

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Mol	Chain	Res	Type
3	D	1287	ILE
3	D	1306	LEU
3	D	1307	LEU
3	D	1309	ILE
3	D	1314	LEU
3	D	1317	GLU
3	D	1319	PHE
3	D	1328	THR
3	D	1332	LEU
3	D	1349	GLU
3	D	1356	LEU
3	D	1357	ILE
3	D	1366	HIS
4	E	3	ARG
4	E	4	VAL
4	E	6	VAL
4	E	18	ASP
4	E	19	LEU
4	E	21	LEU
4	E	28	ARG
4	E	31	GLN
4	E	39	VAL
4	E	46	THR
4	E	83	VAL
4	E	84	THR
4	E	86	ILE
5	F	96	ASP
5	F	98	VAL
5	F	104	GLU
5	F	108	VAL
5	F	109	GLU
5	F	145	LEU
5	F	233	ASP
5	F	253	SER
5	F	260	ARG
5	F	267	ASP
5	F	279	ARG
5	F	310	GLU
5	F	354	THR
5	F	360	ASP
5	F	363	ARG
5	F	367	ILE

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Mol	Chain	Res	Type
5	F	374	ARG
5	F	379	MET
5	F	390	ILE
5	F	395	THR
5	F	399	LEU
5	F	405	ILE
5	F	406	GLN
5	F	410	ILE
5	F	439	ILE
5	F	449	THR
5	F	450	ILE
5	F	460	ILE
5	F	466	ILE
5	F	470	MET
5	F	471	LEU
5	F	477	GLU
5	F	497	VAL
5	F	506	SER
5	F	509	THR
5	F	516	ASP
5	F	517	SER
5	F	526	THR
5	F	527	THR
5	F	528	LEU
5	F	529	GLU
5	F	530	LEU
5	F	531	PRO
5	F	532	LEU
5	F	533	ASP
5	F	534	SER
5	F	539	SER
5	F	545	HIS
5	F	552	THR
5	F	558	VAL
5	F	562	ARG
5	F	565	ILE
5	F	567	MET
5	F	569	THR
5	F	570	ASP
5	F	572	THR
5	F	573	LEU
5	F	580	PHE

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Mol	Chain	Res	Type
5	F	582	VAL
5	F	583	THR
5	F	584	ARG
5	F	587	ILE
5	F	595	LEU
5	F	600	HIS
5	F	607	LEU
5	F	608	ARG
1	G	19	VAL
1	G	23	HIS
1	G	27	THR
1	G	29	GLU
1	G	46	ILE
1	G	58	GLU
1	G	64	VAL
1	G	66	HIS
1	G	67	GLU
1	G	74	VAL
1	G	79	LEU
1	G	90	VAL
1	G	102	LEU
1	G	123	ILE
1	G	124	VAL
1	G	129	VAL
1	G	133	LEU
1	G	137	ASN
1	G	139	SER
1	G	140	ILE
1	G	157	THR
1	G	171	LEU
1	G	180	VAL
1	G	197	ASP
1	G	207	THR
1	G	211	ILE
1	G	212	ASP
1	G	219	ARG
1	G	228	LEU
1	H	13	LEU
1	H	18	GLN
1	H	22	THR
1	H	38	THR
1	H	43	LEU

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Mol	Chain	Res	Type
1	H	48	LEU
1	H	49	SER
1	H	51	MET
1	H	54	CYS
1	H	58	GLU
1	H	64	VAL
1	H	65	LEU
1	H	72	GLU
1	H	79	LEU
1	H	90	VAL
1	H	91	ARG
1	H	95	LYS
1	H	97	GLU
1	H	102	LEU
1	H	103	ASN
1	H	121	VAL
1	H	133	LEU
1	H	135	ASP
1	H	139	SER
1	H	144	ILE
1	H	157	THR
1	H	178	SER
1	H	180	VAL
1	H	183	ILE
1	H	186	ASN
1	H	192	VAL
1	H	197	ASP
1	H	198	LEU
1	H	203	ILE
1	H	212	ASP
2	I	9	LYS
2	I	11	ILE
2	I	17	LYS
2	I	20	GLN
2	I	23	ASP
2	I	30	ILE
2	I	39	ILE
2	I	42	ASP
2	I	56	VAL
2	I	59	ILE
2	I	60	GLN
2	I	87	ILE

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Mol	Chain	Res	Type
2	I	90	VAL
2	I	93	SER
2	I	115	LYS
2	I	118	LYS
2	I	122	VAL
2	I	129	LEU
2	I	131	THR
2	I	132	ASP
2	I	135	THR
2	I	138	ILE
2	I	143	ARG
2	I	145	ILE
2	I	146	VAL
2	I	152	SER
2	I	156	PHE
2	I	161	LYS
2	I	165	HIS
2	I	167	SER
2	I	170	VAL
2	I	182	SER
2	I	185	ASP
2	I	201	ARG
2	I	208	ILE
2	I	213	LEU
2	I	223	LEU
2	I	229	ILE
2	I	237	LEU
2	I	239	MET
2	I	285	ILE
2	I	287	VAL
2	I	292	ILE
2	I	297	VAL
2	I	302	ILE
2	I	309	LEU
2	I	317	LEU
2	I	325	LEU
2	I	343	HIS
2	I	363	LEU
2	I	369	MET
2	I	377	THR
2	I	384	LEU
2	I	393	ASP

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Mol	Chain	Res	Type
2	I	400	VAL
2	I	419	ILE
2	I	428	VAL
2	I	442	VAL
2	I	443	ASP
2	I	445	ILE
2	I	446	ASP
2	I	452	ARG
2	I	453	ILE
2	I	456	VAL
2	I	463	GLN
2	I	471	VAL
2	I	481	LEU
2	I	484	LEU
2	I	487	LEU
2	I	492	MET
2	I	493	ILE
2	I	496	LYS
2	I	502	VAL
2	I	513	GLN
2	I	518	ASN
2	I	519	ASN
2	I	521	LEU
2	I	524	ILE
2	I	530	ILE
2	I	538	LEU
2	I	550	VAL
2	I	553	THR
2	I	563	THR
2	I	587	LEU
2	I	600	THR
2	I	601	ASP
2	I	609	ILE
2	I	615	VAL
2	I	618	GLN
2	I	628	HIS
2	I	635	THR
2	I	638	SER
2	I	657	THR
2	I	660	VAL
2	I	663	VAL
2	I	668	ILE

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Mol	Chain	Res	Type
2	I	672	GLU
2	I	681	MET
2	I	687	ARG
2	I	690	VAL
2	I	692	THR
2	I	697	LYS
2	I	699	LEU
2	I	700	VAL
2	I	705	GLU
2	I	714	VAL
2	I	724	VAL
2	I	736	VAL
2	I	739	ASP
2	I	748	ILE
2	I	749	ASP
2	I	750	ILE
2	I	756	TYR
2	I	757	THR
2	I	763	THR
2	I	765	ILE
2	I	773	LEU
2	I	782	VAL
2	I	789	THR
2	I	790	ASP
2	I	791	LEU
2	I	799	ASN
2	I	817	LEU
2	I	818	VAL
2	I	823	VAL
2	I	851	THR
2	I	856	ASN
2	I	857	VAL
2	I	868	SER
2	I	878	THR
2	I	881	ASP
2	I	895	LEU
2	I	902	LEU
2	I	917	SER
2	I	918	LEU
2	I	922	ASN
2	I	933	VAL
2	I	944	ARG

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Mol	Chain	Res	Type
2	I	948	ILE
2	I	960	LEU
2	I	984	VAL
2	I	1002	LEU
2	I	1004	ASP
2	I	1006	GLU
2	I	1037	THR
2	I	1040	ASP
2	I	1042	LEU
2	I	1046	VAL
2	I	1050	VAL
2	I	1054	LEU
2	I	1059	ARG
2	I	1066	MET
2	I	1072	ASN
2	I	1076	ILE
2	I	1077	SER
2	I	1078	LYS
2	I	1084	ASP
2	I	1096	ILE
2	I	1105	SER
2	I	1109	ILE
2	I	1115	THR
2	I	1117	LEU
2	I	1126	ASP
2	I	1137	GLU
2	I	1145	ILE
2	I	1146	GLN
2	I	1154	ASP
2	I	1156	ARG
2	I	1159	VAL
2	I	1162	SER
2	I	1163	THR
2	I	1164	PHE
2	I	1198	LEU
2	I	1203	ASP
2	I	1207	SER
2	I	1214	ASP
2	I	1225	VAL
2	I	1227	VAL
2	I	1233	LEU
2	I	1235	LEU

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Mol	Chain	Res	Type
2	I	1237	HIS
2	I	1238	LEU
2	I	1239	VAL
2	I	1240	ASP
2	I	1248	THR
2	I	1252	SER
2	I	1254	VAL
2	I	1268	GLN
2	I	1278	LEU
2	I	1281	TYR
2	I	1295	SER
2	I	1299	ASN
2	I	1301	ARG
2	I	1313	HIS
2	I	1325	VAL
3	J	16	GLU
3	J	24	LEU
3	J	26	SER
3	J	43	THR
3	J	44	ILE
3	J	46	TYR
3	J	47	ARG
3	J	52	GLU
3	J	54	ASP
3	J	70	CYS
3	J	75	TYR
3	J	83	VAL
3	J	92	VAL
3	J	95	THR
3	J	109	SER
3	J	111	THR
3	J	118	LYS
3	J	120	LEU
3	J	139	LEU
3	J	154	LEU
3	J	159	ILE
3	J	162	GLU
3	J	169	LEU
3	J	172	PHE
3	J	177	ASP
3	J	183	GLU
3	J	214	ARG

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Mol	Chain	Res	Type
3	J	217	LEU
3	J	222	LYS
3	J	224	LEU
3	J	229	GLN
3	J	230	SER
3	J	241	VAL
3	J	242	LEU
3	J	244	VAL
3	J	245	LEU
3	J	252	LEU
3	J	256	ASP
3	J	268	LEU
3	J	281	ARG
3	J	289	ASP
3	J	292	VAL
3	J	306	LEU
3	J	312	ARG
3	J	314	ARG
3	J	320	ASN
3	J	331	ILE
3	J	334	LYS
3	J	342	LEU
3	J	347	VAL
3	J	353	SER
3	J	356	THR
3	J	357	VAL
3	J	368	LEU
3	J	376	LEU
3	J	394	ILE
3	J	401	VAL
3	J	402	GLU
3	J	403	ARG
3	J	407	VAL
3	J	416	ILE
3	J	421	VAL
3	J	423	LEU
3	J	424	ASN
3	J	429	LEU
3	J	430	HIS
3	J	434	ILE
3	J	441	LEU
3	J	442	ILE

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Mol	Chain	Res	Type
3	J	447	ILE
3	J	449	LEU
3	J	453	VAL
3	J	460	ASP
3	J	474	LEU
3	J	475	GLU
3	J	484	MET
3	J	485	MET
3	J	486	SER
3	J	488	ASN
3	J	490	ILE
3	J	491	LEU
3	J	492	SER
3	J	499	ILE
3	J	502	PRO
3	J	505	ASP
3	J	506	VAL
3	J	507	VAL
3	J	510	LEU
3	J	511	TYR
3	J	514	THR
3	J	525	MET
3	J	526	VAL
3	J	528	THR
3	J	536	LEU
3	J	544	LEU
3	J	545	HIS
3	J	550	VAL
3	J	553	THR
3	J	563	LEU
3	J	567	THR
3	J	569	LEU
3	J	572	THR
3	J	573	THR
3	J	582	ILE
3	J	592	VAL
3	J	594	GLN
3	J	596	LEU
3	J	599	LYS
3	J	605	LEU
3	J	607	THR
3	J	615	LYS

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Mol	Chain	Res	Type
3	J	617	THR
3	J	634	ARG
3	J	639	VAL
3	J	641	ILE
3	J	646	ILE
3	J	660	GLU
3	J	661	VAL
3	J	674	THR
3	J	678	ARG
3	J	682	VAL
3	J	683	ILE
3	J	697	MET
3	J	698	MET
3	J	701	LEU
3	J	705	THR
3	J	707	ILE
3	J	708	ASN
3	J	712	GLN
3	J	720	ASN
3	J	740	LEU
3	J	744	ARG
3	J	746	LEU
3	J	754	ILE
3	J	757	THR
3	J	770	LEU
3	J	772	TYR
3	J	774	ILE
3	J	786	THR
3	J	788	LEU
3	J	792	ASN
3	J	797	THR
3	J	801	VAL
3	J	806	ASP
3	J	808	VAL
3	J	810	THR
3	J	811	GLU
3	J	823	THR
3	J	825	VAL
3	J	826	ILE
3	J	827	GLU
3	J	830	ASP
3	J	833	GLU

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Mol	Chain	Res	Type
3	J	839	VAL
3	J	847	ASP
3	J	849	LEU
3	J	853	THR
3	J	856	ILE
3	J	857	LEU
3	J	858	VAL
3	J	864	LEU
3	J	867	GLN
3	J	868	TRP
3	J	877	VAL
3	J	885	VAL
3	J	886	VAL
3	J	903	LEU
3	J	908	ILE
3	J	909	ILE
3	J	913	GLU
3	J	915	ILE
3	J	918	ILE
3	J	922	SER
3	J	929	GLN
3	J	1146	GLU
3	J	1155	ILE
3	J	1156	LEU
3	J	1162	ILE
3	J	1177	ILE
3	J	1183	SER
3	J	1194	ARG
3	J	1200	GLU
3	J	1209	VAL
3	J	1217	PRO
3	J	1221	LEU
3	J	1229	VAL
3	J	1231	ARG
3	J	1237	VAL
3	J	1241	TYR
3	J	1242	ARG
3	J	1255	VAL
3	J	1266	ILE
3	J	1267	VAL
3	J	1272	SER
3	J	1273	ASP

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Mol	Chain	Res	Type
3	J	1274	PHE
3	J	1278	GLU
3	J	1287	ILE
3	J	1289	ASN
3	J	1290	ARG
3	J	1293	GLU
3	J	1306	LEU
3	J	1307	LEU
3	J	1309	ILE
3	J	1317	GLU
3	J	1319	PHE
3	J	1321	SER
3	J	1324	SER
3	J	1325	PHE
3	J	1328	THR
3	J	1332	LEU
3	J	1333	THR
3	J	1351	VAL
3	J	1352	ILE
3	J	1357	ILE
3	J	1366	HIS
4	K	3	ARG
4	K	6	VAL
4	K	13	ILE
4	K	21	LEU
4	K	39	VAL
4	K	46	THR
4	K	58	LEU
5	L	98	VAL
5	L	104	GLU
5	L	109	GLU
5	L	136	GLU
5	L	213	ASP
5	L	233	ASP
5	L	253	SER
5	L	260	ARG
5	L	267	ASP
5	L	279	ARG
5	L	310	GLU
5	L	360	ASP
5	L	367	ILE
5	L	390	ILE

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Mol	Chain	Res	Type
5	L	399	LEU
5	L	405	ILE
5	L	406	GLN
5	L	410	ILE
5	L	429	THR
5	L	439	ILE
5	L	445	ASP
5	L	448	ARG
5	L	449	THR
5	L	450	ILE
5	L	452	ILE
5	L	464	ASN
5	L	465	ARG
5	L	470	MET
5	L	477	GLU
5	L	479	THR
5	L	482	GLU
5	L	497	VAL
5	L	500	ILE
5	L	502	LYS
5	L	511	ILE
5	L	515	GLU
5	L	517	SER
5	L	528	LEU
5	L	529	GLU
5	L	530	LEU
5	L	533	ASP
5	L	536	THR
5	L	552	THR
5	L	565	ILE
5	L	573	LEU
5	L	574	GLU
5	L	583	THR
5	L	587	ILE
5	L	595	LEU
5	L	601	PRO
5	L	607	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (125) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	84	ASN

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Mol	Chain	Res	Type
1	A	103	ASN
1	A	132	HIS
1	A	227	GLN
1	B	132	HIS
1	B	194	GLN
1	B	268	ASN
2	C	46	GLN
2	C	69	GLN
2	C	139	ASN
2	C	165	HIS
2	C	276	GLN
2	C	357	ASN
2	C	406	ASN
2	C	463	GLN
2	C	494	ASN
2	C	513	GLN
2	C	517	GLN
2	C	554	HIS
2	C	604	HIS
2	C	620	ASN
2	C	684	ASN
2	C	760	ASN
2	C	832	HIS
2	C	834	GLN
2	C	922	ASN
2	C	1134	GLN
2	C	1136	GLN
2	C	1256	GLN
2	C	1268	GLN
2	C	1288	GLN
2	C	1314	GLN
3	D	94	GLN
3	D	157	GLN
3	D	200	GLN
3	D	294	ASN
3	D	365	GLN
3	D	419	HIS
3	D	430	HIS
3	D	465	GLN
3	D	477	GLN
3	D	594	GLN
3	D	690	ASN

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Mol	Chain	Res	Type
3	D	716	GLN
3	D	805	GLN
3	D	861	ASN
3	D	867	GLN
3	D	910	ASN
3	D	929	GLN
3	D	1227	HIS
3	D	1259	GLN
4	E	81	GLN
5	F	147	GLN
5	F	242	HIS
5	F	283	GLN
5	F	317	ASN
5	F	331	HIS
5	F	345	GLN
5	F	400	GLN
5	F	464	ASN
1	G	41	ASN
1	G	84	ASN
1	G	128	HIS
1	H	103	ASN
1	H	117	HIS
1	H	128	HIS
2	I	139	ASN
2	I	330	HIS
2	I	343	HIS
2	I	357	ASN
2	I	490	GLN
2	I	510	GLN
2	I	517	GLN
2	I	526	HIS
2	I	554	HIS
2	I	573	ASN
2	I	604	HIS
2	I	688	GLN
2	I	832	HIS
2	I	834	GLN
2	I	1070	HIS
2	I	1108	ASN
2	I	1111	GLN
2	I	1116	HIS
2	I	1136	GLN

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Mol	Chain	Res	Type
2	I	1146	GLN
2	I	1209	GLN
2	I	1220	GLN
2	I	1268	GLN
2	I	1288	GLN
2	I	1314	GLN
2	I	1324	ASN
3	J	157	GLN
3	J	206	ASN
3	J	294	ASN
3	J	335	GLN
3	J	365	GLN
3	J	424	ASN
3	J	430	HIS
3	J	450	HIS
3	J	465	GLN
3	J	489	ASN
3	J	690	ASN
3	J	702	GLN
3	J	716	GLN
3	J	861	ASN
3	J	865	HIS
3	J	910	ASN
3	J	929	GLN
3	J	1218	HIS
3	J	1244	GLN
3	J	1268	ASN
3	J	1279	GLN
3	J	1295	ASN
3	J	1366	HIS
5	L	128	ASN
5	L	147	GLN
5	L	242	HIS
5	L	309	ASN
5	L	362	ASN
5	L	400	GLN
5	L	406	GLN
5	L	446	GLN
5	L	455	HIS
5	L	469	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 7 ligands modelled in this entry, 6 are monoatomic - leaving 1 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	$\# Z > 2$
8	4C4	D	2004	-	31,31,31	0.57	0	32,40,40	0.95	2 (6%)

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
8	4C4	D	2004	-	-	12/30/31/31	0/1/1/1

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	D	2004	4C4	O5-C15-C16	3.01	113.99	111.35
8	D	2004	4C4	C4-C3-C2	2.21	119.22	115.68

There are no chirality outliers.

All (12) torsion outliers are listed below:

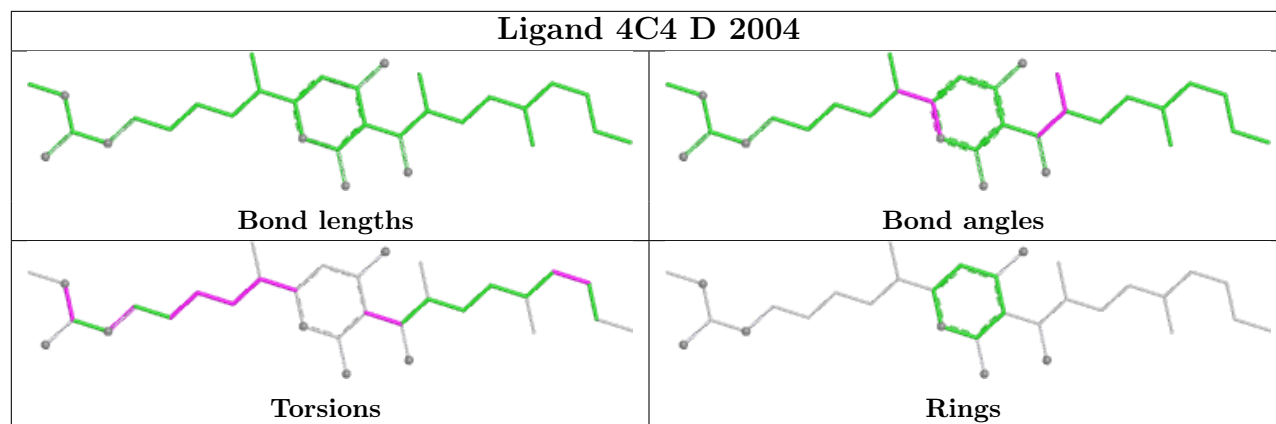
Mol	Chain	Res	Type	Atoms
8	D	2004	4C4	C13-C1-C2-C3
8	D	2004	4C4	O5-C15-C16-C18
8	D	2004	4C4	O5-C15-C16-C17
8	D	2004	4C4	C14-C15-C16-C17
8	D	2004	4C4	C17-C16-C18-C19
8	D	2004	4C4	O4-C22-O3-C23
8	D	2004	4C4	N-C22-O3-C23
8	D	2004	4C4	C16-C18-C19-C20
8	D	2004	4C4	C18-C19-C20-C21
8	D	2004	4C4	C11-C10-C9-C7
8	D	2004	4C4	C20-C21-N-C22
8	D	2004	4C4	C15-C16-C18-C19

There are no ring outliers.

1 monomer is involved in 16 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
8	D	2004	4C4	16	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	229/329 (69%)	-0.55	0 100 100	85, 130, 177, 246	0
1	B	289/329 (87%)	-0.53	0 100 100	100, 194, 249, 268	0
1	G	227/329 (68%)	-0.49	0 100 100	184, 217, 237, 248	0
1	H	216/329 (65%)	-0.35	1 (0%) 87 71	179, 244, 274, 286	0
2	C	1340/1342 (99%)	-0.54	0 100 100	75, 125, 228, 303	0
2	I	1340/1342 (99%)	-0.55	1 (0%) 92 87	124, 163, 252, 431	0
3	D	1166/1407 (82%)	-0.52	0 100 100	84, 126, 211, 261	0
3	J	1155/1407 (82%)	-0.51	0 100 100	122, 169, 233, 316	0
4	E	89/91 (97%)	-0.64	0 100 100	118, 140, 168, 177	0
4	K	79/91 (86%)	-0.31	1 (1%) 75 53	223, 285, 342, 352	0
5	F	458/613 (74%)	-0.46	0 100 100	115, 176, 321, 349	0
5	L	458/613 (74%)	-0.42	0 100 100	153, 197, 350, 376	0
All	All	7046/8222 (85%)	-0.51	3 (0%) 100 100	75, 159, 278, 431	0

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	I	733	VAL	2.5
4	K	6	VAL	2.3
1	H	24	ALA	2.0

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

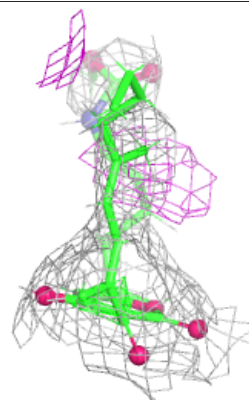
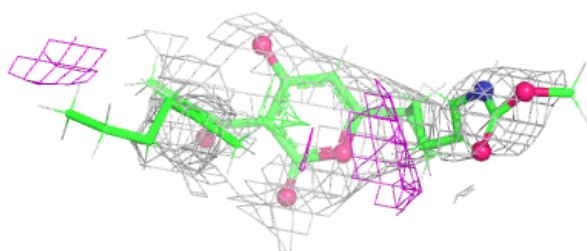
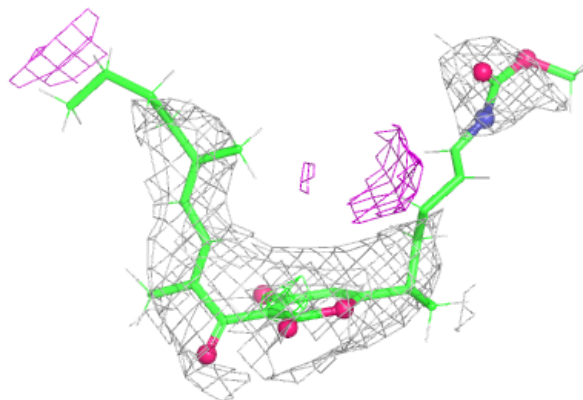
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
6	MG	D	2001	1/1	0.93	0.09	126,126,126,126	0
8	4C4	D	2004	31/31	0.95	0.15	128,154,155,155	0
7	ZN	J	2003	1/1	0.97	0.06	130,130,130,130	0
6	MG	J	2001	1/1	0.97	0.05	127,127,127,127	0
7	ZN	D	2003	1/1	0.99	0.02	125,125,125,125	0
7	ZN	J	2002	1/1	0.99	0.06	143,143,143,143	0
7	ZN	D	2002	1/1	1.00	0.02	126,126,126,126	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around 4C4 D 2004:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers ⓘ

There are no such residues in this entry.