



Full wwPDB X-ray Structure Validation Report ⓘ

Sep 18, 2023 – 02:24 PM EDT

PDB ID : 2GLS
Title : REFINED ATOMIC MODEL OF GLUTAMINE SYNTHETASE AT 3.5
ANGSTROMS RESOLUTION
Authors : Eisenberg, D.; Almasy, R.J.; Yamashita, M.M.
Deposited on : 1989-05-19
Resolution : 3.50 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467
Xtrriage (Phenix) : **NOT EXECUTED**
EDS : **NOT EXECUTED**
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.35.1

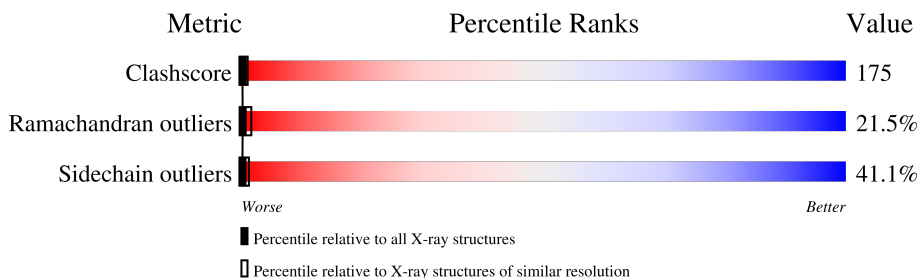
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.50 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	141614	1036 (3.58-3.42)
Ramachandran outliers	138981	1005 (3.58-3.42)
Sidechain outliers	138945	1006 (3.58-3.42)





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 $\leq 5\%$.

Note EDS was not executed.

Mol	Chain	Length	Quality of chain
1	A	469	9% 39% 30% 22%
1	B	469	9% 38% 30% 22%
1	C	469	9% 38% 30% 22%
1	D	469	9% 39% 30% 22%
1	E	469	9% 39% 31% 22%
1	F	469	9% 38% 30% 22%
1	G	469	10% 38% 30% 22%
1	H	469	9% 39% 30% 22%

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Mol	Chain	Length	Quality of chain				
1	I	469		9%	39%	30%	22%
1	J	469		9%	39%	30%	22%
1	K	469		9%	38%	31%	22%
1	L	469		10%	38%	30%	22%

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 43692 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called GLUTAMINE SYNTHETASE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	468	3636	2301	624	691	20	0	0	0
1	B	468	3636	2301	624	691	20	0	0	0
1	C	468	3636	2301	624	691	20	0	0	0
1	D	468	3636	2301	624	691	20	0	0	0
1	E	468	3636	2301	624	691	20	0	0	0
1	F	468	3636	2301	624	691	20	0	0	0
1	G	468	3636	2301	624	691	20	0	0	0
1	H	468	3636	2301	624	691	20	0	0	0
1	I	468	3636	2301	624	691	20	0	0	0
1	J	468	3636	2301	624	691	20	0	0	0
1	K	468	3636	2301	624	691	20	0	0	0
1	L	468	3636	2301	624	691	20	0	0	0

- Molecule 2 is MANGANESE (II) ION (three-letter code: MN) (formula: Mn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	2	Total	Mn	0	0
			2	2		
2	B	2	Total	Mn	0	0
			2	2		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	C	2	Total 2	Mn 2	0	0
2	D	2	Total 2	Mn 2	0	0
2	E	2	Total 2	Mn 2	0	0
2	F	2	Total 2	Mn 2	0	0
2	G	2	Total 2	Mn 2	0	0
2	H	2	Total 2	Mn 2	0	0
2	I	2	Total 2	Mn 2	0	0
2	J	2	Total 2	Mn 2	0	0
2	K	2	Total 2	Mn 2	0	0
2	L	2	Total 2	Mn 2	0	0

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	3	Total 3	O 3	0	0
3	B	3	Total 3	O 3	0	0
3	C	3	Total 3	O 3	0	0
3	D	3	Total 3	O 3	0	0
3	E	3	Total 3	O 3	0	0
3	F	3	Total 3	O 3	0	0
3	G	3	Total 3	O 3	0	0
3	H	3	Total 3	O 3	0	0
3	I	3	Total 3	O 3	0	0

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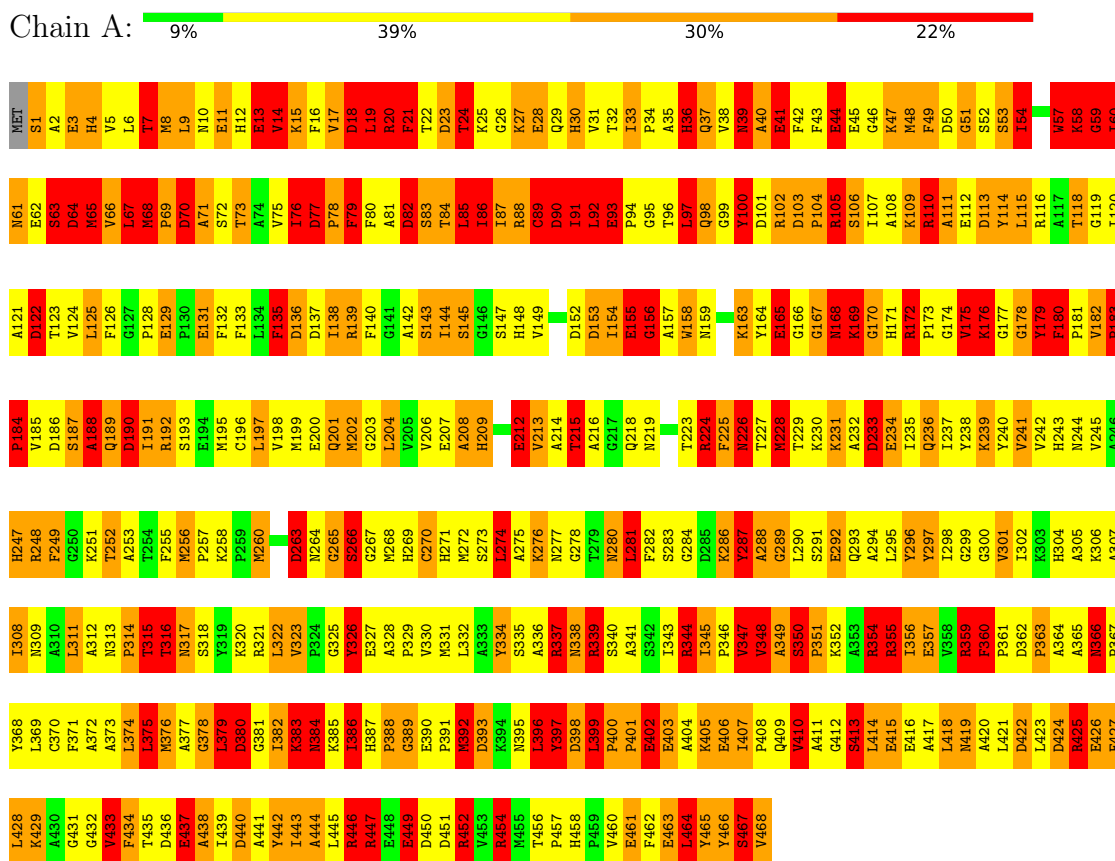
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	J	3	Total O 3 3	0	0
3	K	3	Total O 3 3	0	0
3	L	3	Total O 3 3	0	0

3 Residue-property plots

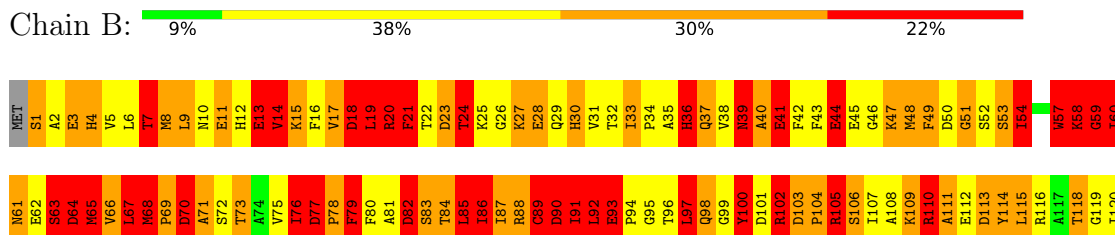
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded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

Note EDS was not executed.

• Molecule 1: GLUTAMINE SYNTHETASE



• Molecule 1: GLUTAMINE SYNTHETASE



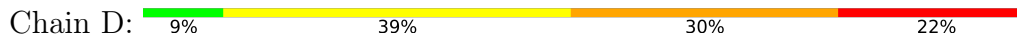
A121	D122	T123	V124	W125	X126	Y127	Z128	A129	B130	C131	D132	E133	F134	G135	H136	I137	J138	K139	L140	M141	N142	O143	P144	Q145	R146	S147	T148	U149	V150	W151	X152	Y153	Z154	A155	B156	C157	D158	E159	F160	G161	H162	I163	J164	K165	L166	M167	N168	O169	P170	Q171	R172	S173	T174	U175	V176	W177	X178	Y179	Z180	A181	B182	C183	D184	E185	F186	G187	H188	I189	J190	K191	L192	M193	N194	O195	P196	Q197	R198	S199	T200	U201	V202	W203	X204	Y205	Z206	A207	B208	C209	D210	E211	F212	G213	H214	I215	J216	K217	L218	M219	N220	O221	P222	Q223	R224	S225	T226	U227	V228	W229	X230	Y231	Z232	A233	B234	C235	D236	E237	F238	G239	H240	I241	J242	K243	L244	M245	N246	O247	P248	Q249	R250	S251	T252	U253	V254	W255	X256	Y257	Z258	A259	B260	C261	D262	E263	F264	G265	H266	I267	J268	K269	L270	M271	N272	O273	P274	Q275	R276	S277	T278	U279	V280	W281	X282	Y283	Z284	A285	B286	C287	D288	E289	F290	G291	H292	I293	J294	K295	L296	M297	N298	O299	P300	Q301	R302	S303	T304	U305	V306	W307	X308	Y309	Z310	A311	B312	C313	D314	E315	F316	G317	H318	I319	J320	K321	L322	M323	N324	O325	P326	Q327	R328	S329	T330	U331	V332	W333	X334	Y335	Z336	A337	B338	C339	D340	E341	F342	G343	H344	I345	J346	K347	L348	M349	N350	O351	P352	Q353	R354	S355	T356	U357	V358	W359	X360	Y361	Z362	A363	B364	C365	D366	E367	F368	G369	H370	I371	J372	K373	L374	M375	N376	O377	P378	Q379	R380	S381	T382	U383	V384	W385	X386	Y387	Z388	A389	B390	C391	D392	E393	F394	G395	H396	I397	J398	K399	L400	M401	N402	O403	P404	Q405	R406	S407	T408	U409	V410	W411	X412	Y413	Z414	A415	B416	C417	D418	E419	F420	G421	H422	I423	J424	K425	L426	M427	N428	O429	P430	Q431	R432	S433	T434	U435	V436	W437	X438	Y439	Z440	A441	B442	C443	D444	E445	F446	G447	H448	I449	J450	K451	L452	M453	N454	O455	P456	Q457	R458	S459	T460	U461	V462	W463	X464	Y465	Z466	A467	B468
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• Molecule 1: GLUTAMINE SYNTHETASE



MET	S1	A2	E3	F4	G5	H6	I7	M8	N9	O10	P11	Q12	R13	S14	T15	U16	V17	W18	X19	Y20	Z21	A22	B23	C24	D25	E26	F27	G28	H29	I30	J31	K32	L33	M34	N35	O36	P37	Q38	R39	S40	T41	U42	V43	W44	X45	Y46	Z47	A48	B49	C50	D51	E52	F53	G54	H55	I56	J57	K58	L59	M60	N61	O62	P63	Q64	R65	S66	T67	U68	V69	W70	X71	Y72	Z73	A74	B75	C76	D77	E78	F79	G80	H81	I82	J83	K84	L85	M86	N87	O88	P89	Q90	R91	S92	T93	U94	V95	W96	X97	Y98	Z99	A100	B101	C102	D103	E104	F105	G106	H107	I108	J109	K110	L111	M112	N113	O114	P115	Q116	R117	S118	T119	U120
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• Molecule 1: GLUTAMINE SYNTHETASE



MET	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19	S20	S21	S22	S23	S24	S25	S26	S27	S28	S29	S30	S31	S32	S33	S34	S35	S36	S37	S38	S39	S40	S41	S42	S43	S44	S45	S46	S47	S48	S49	S50	S51	S52	S53	S54	S55	S56	S57	S58	S59	S60								
M1	E2	S63	D64	M65	V66	L67	M68	P69	D70	A71	S72	H73	A74	V75	L76	F77	P78	V79	F80	A81	S82	D83	T84	L85	T86	I87	R88	G89	P90	I91	S92	T93	E94	L95	H96	O97	V98	Y99	D100	A101	R102	E103	F104	R105	S106	I107	G108	K109	M110	D111	G112	S113	Y114	S115	I116	A117	M118	G119	I120									
A121	D122	T123	V124	L125	F126	G127	P128	E129	F130	A131	F132	F133	L134	F135	L136	D137	I138	R139	F140	G141	A142	S143	D144	S145	G146	S147	H148	V149	D150	L151	E152	T153	H154	L155	P156	M157	N158	K159	V160	A161	R162	E163	F164	R165	S166	I167	G168	K169	G170	H171	A172	R173	G174	V175	K176	D177	G178	L179	F180	P181	V182	P183						
P184	V185	D186	S187	A188	Q189	L191	L192	S193	E194	P195	F196	C197	L198	M199	E200	I201	M202	G203	L204	G205	V206	D207	S208	G209	G210	L211	E212	V213	A214	T215	A216	G217	L218	M219	T220	F221	F222	E223	N224	N225	T226	T227	M228	L229	K230	K231	A232	D233	E234	L235	Y236	Y237	L238	G239	V300	P301	Y302	V303	P304	A305	N306	P307						
H247	R248	F249	G250	K251	T252	A253	L254	M255	N256	S257	K258	P259	M260	D261	N262	G263	S264	G265	L266	L267	H268	P269	D270	S271	G272	L273	E274	V275	A276	K277	N278	L279	F280	L281	S282	S283	L284	L285	A286	A287	A288	G289	L290	S291	E292	Q293	A294	L295	Y296	Y297	L298	G299	V300	P301	Y302	V303	P304	A305	N306	P307								
I308	N309	A310	L311	A312	N313	P314	T315	L316	N317	S318	Y319	K320	R321	L322	V323	P324	G325	Y326	E327	A328	P329	V330	M331	L332	A333	Y334	S335	A336	R337	N338	R339	S340	A341	S342	I343	A344	I345	P346	Y347	V348	A349	G350	K351	K352	A353	L354	R355	E415	L356	A417	E357	Y358	L418	N419	R359	A420	P360	P361	L421	D422	D423	P362	L423	A364	R424	R425	N366	F427
Y368	L369	C370	F371	A372	A373	L374	L375	M376	A377	G378	L379	D380	G381	L382	K383	N384	K385	L386	H387	P388	C389	E390	P391	M392	D393	K394	N395	L396	Y397	D398	L399	P400	E401	F402	E403	E404	K405	E406	L407	P408	Q409	Y410	A411	G412	S413	L414	E415	L416	A417	L418	N419	R359	A420	P360	P361	L421	D422	D423	P362	L423	A364	R424	R425	N366	F427			
L428	K429	A430	G431	C432	Y433	F434	L435	D436	E437	A438	L439	D440	A441	Y442	L443	A444	L445	R446	R447	E448	E449	D450	D451	R452	V453	R454	M455	T456	P457	H458	P459	V460	E461	F462	E463	L464	Y465	Y466	S467	V468																												

• Molecule 1: GLUTAMINE SYNTHETASE

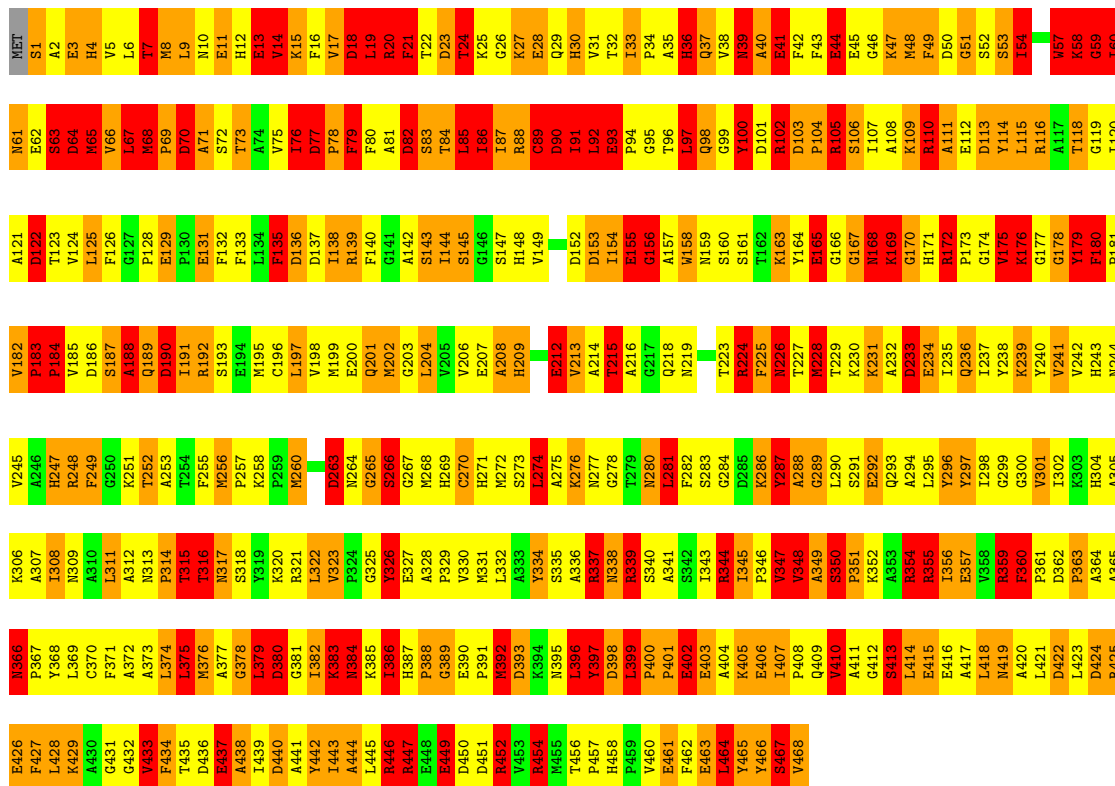
Chain E: 9% 39% 31% 22%

MET	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19	S20	S21	S22	S23	S24	S25	S26	S27	S28	S29	S30	S31	S32	S33	S34	S35	S36	S37	S38	S39	S40	S41	S42	S43	S44	S45	S46	S47	S48	S49	S50	S51	S52	S53	S54	S55	S56	S57	S58	S59	S60								
M1	E2	S63	D64	M65	V66	L67	M68	P69	D70	A71	S72	H73	A74	V75	L76	F77	P78	V79	F80	A81	S82	D83	T84	L85	T86	I87	R88	G89	P90	I91	S92	T93	E94	L95	H96	O97	V98	Y99	D100	A101	R102	E103	F104	R105	S106	I107	G108	K109	M110	D111	G112	S113	Y114	S115	I116	A117	M118	G119	I120									
A121	D122	T123	V124	L125	F126	G127	P128	E129	F130	A131	F132	F133	L134	F135	L136	D137	I138	R139	F140	G141	A142	S143	D144	S145	G146	S147	H148	V149	D150	L151	E152	T153	H154	L155	P156	M157	N158	K159	V160	A161	R162	E163	F164	R165	S166	I167	G168	K169	G170	H171	A172	R173	G174	V175	K176	D177	G178	L179	F180	P181	V182	P183						
P184	V185	D186	S187	A188	Q189	L191	L192	S193	E194	P195	F196	C197	L198	M199	E200	I201	M202	G203	L204	G205	V206	D207	S208	G209	G210	L211	E212	V213	A214	T215	A216	G217	L218	M219	T220	F221	F222	E223	N224	N225	T226	T227	M228	L229	K230	K231	A232	D233	E234	L235	Y236	Y237	L238	G239	V300	P301	Y302	V303	P304	A305	N306	P307						
H247	R248	F249	G250	K251	T252	A253	L254	M255	N256	S257	K258	P259	M260	D261	N262	G263	S264	G265	L266	L267	H268	P269	D270	S271	G272	L273	E274	V275	A276	K277	N278	L279	F280	L281	S282	S283	L284	L285	A286	A287	A288	G289	L290	S291	E292	Q293	A294	L295	Y296	Y297	L298	G299	V300	P301	Y302	V303	P304	A305	N306	P307								
I308	N309	A310	L311	A312	N313	P314	T315	L316	N317	S318	Y319	K320	R321	L322	V323	P324	G325	Y326	E327	A328	P329	V330	M331	L332	A333	Y334	S335	A336	R337	N338	R339	S340	A341	S342	I343	A344	I345	P346	Y347	V348	A349	G350	K351	K352	A353	L354	R355	E415	L356	A417	E357	Y358	L418	N419	R359	A420	P360	P361	L421	D422	D423	P362	L423	A364	R424	R425	N366	F427
Y368	L369	C370	F371	A372	A373	L374	L375	M376	A377	G378	L379	D380	G381	L382	K383	N384	K385	L386	H387	P388	C389	E390	P391	M392	D393	K394	N395	L396	Y397	D398	L399	P400	E401	F402	E403	E404	K405	E406	L407	P408	Q409	Y410	A411	G412	S413	L414	E415	L416	A417	L418	N419	R359	A420	P360	P361	L421	D422	D423	P362	L423	A364	R424	R425	N366	F427			
L428	K429	A430	G431	C432	Y433	F434	L435	D436	E437	A438	L439	D440	A441	Y442	L443	A444	L445	R446	R447	E448	E449	D450	D451	R452	V453	R454	M455	T456	P457	H458	P459	V460	E461	F462	E463	L464	Y465	Y466	S467	V468																												

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V468

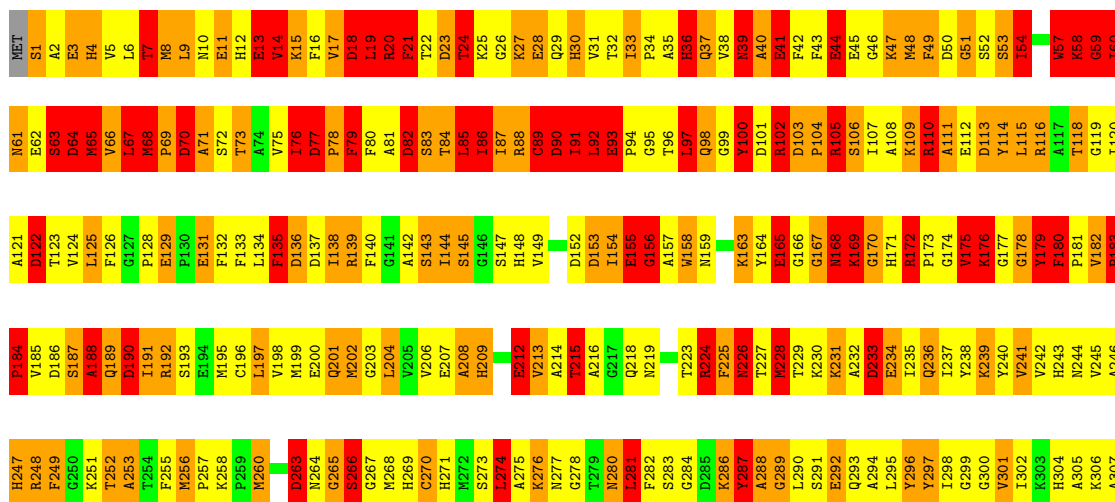
• Molecule 1: GLUTAMINE SYNTHETASE

Chain H: 9% 39% 30% 22%



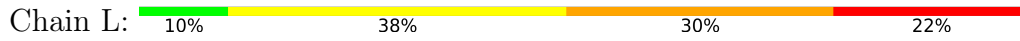
• Molecule 1: GLUTAMINE SYNTHETASE

Chain I: 9% 39% 30% 22%



H247	I308	Y368	L428
R246	M309	L369	K429
P249	A310	C370	A430
G250	L311	F371	G431
K251	A312	A372	G432
T252	M313	A373	V433
A253	P314	L374	F434
T254	T315	L375	T435
F255	T316	M376	D436
M256	N317	A377	E437
P257	S318	G378	A438
K258	N319	L379	I439
P259	D320	D380	D440
M260	R321	G381	A441
	L322	I382	Y442
D263	V323	K383	I443
N264	P324	M384	A444
G265	G325	K385	L445
S266	Y326	I386	R446
G267	E327	H387	E447
M268	A328	P388	E448
H269	P329	G389	E449
C270	V330	E390	D450
H271	M331	P391	D451
K272	L332	M392	R452
S273	A333	D393	V453
L274	Y334	R394	R454
A275	S335	N395	M455
K276	A336	L396	T456
N277	R337	Y397	P457
G278	M338	D398	H458
T279	R339	L399	P459
M280	S340	P400	V460
L281	A341	E401	E461
F282	S342	E402	F462
S283	I343	E403	E463
G284	R344	A404	L464
D285	I345	K405	Y465
K286	P346	E406	Y466
Y287	V347	I407	S467
A288	V348	P408	V468
G289	A349	Q409	
L290	S350	V410	
S291	P351	A411	
E292	K352	G412	
Q293	A353	S413	
A294	L414	L414	
L295	R354	L414	
Y296	R355	E415	
Y297	I356	E416	
L298	E357	A417	
G299	V358	L418	
G300	R359	M419	
V301	F360	A420	
I302	P361	L421	
K303	D362	D422	
H304	P363	L423	
A305	A364	D424	
K306	A365	R425	
A307	N366	E426	
	P367	F427	

● Molecule 1: GLUTAMINE SYNTHETASE



MET	M61	A121	P184	H247	I308	Y368	L428
S1	E62	D122	V185	R246	M309	L369	K429
A2	S63	T123	S186	P249	A310	C370	A430
D64	D64	L124	S187	G250	L311	F371	G431
H4	M65	F125	A188	K251	A312	A372	G432
V5	V66	L126	Q189	T252	M313	A373	V433
L6	L67	G127	D190	A253	P314	L374	F434
T7	M68	P128	I191	T254	T315	L375	T435
M8	P69	E129	R192	T255	T316	M376	D436
L9	D70	P130	R199	M256	N317	A377	E437
N10	A71	E131	E194	P257	S318	G378	A438
E11	S72	F132	M195	K258	N319	L379	I439
H12	T73	C133	C196	P259	D320	D380	D440
E13	A74	L134	L197	M260	R321	G381	A441
V14	V75	F135	V198		L322	I382	Y442
K15	T76	D136	M199		V323	K383	I443
F16	D77	E200	E200		P324	M384	A444
V17	P78	I138	Q201		G325	K385	L445
D18	F79	R139	M202		Y326	I386	R446
L19	F80	G140	G203		E327	H387	E447
R20	A81	G141	L204		A328	P388	E448
F21	D82	A142	V205		P329	G389	E449
S22	S83	S143	V206		V330	E390	D450
T84	T84	I144	E207		M331	P391	D451
D23	L85	S145	A208		L332	M392	R452
T24	I86	G146	H209		A333	D393	V453
K25	I87	S147	E212		Y334	R394	R454
G26	R88	H148	V213		S335	N395	M455
K27	C89	V149	A214		A336	L396	T456
E28	Q90	D152	T215		R337	Y397	P457
Q29	H30	L153	A216		M338	D398	H458
H30	L91	D154	G217		R339	L399	P459
H30	L92	I154	N219		S340	P400	V460
V31	E93	E155	Q218		A341	E401	E461
T32	P94	G156	M219		S342	E402	F462
I33	T96	A157	K223		I343	E403	E463
A35	L97	M158	E224		R344	A404	L464
H36	Q98	M159	F225		I345	K405	Y465
Q37	G99	K163	V226		P346	E406	Y466
N39	Y100	E164	T227		V347	I407	S467
A40	D101	E165	M228		V348	P408	V468
E41	R102	E166	G229		A349	Q409	
D103	P104	G167	K230		S350	V410	
F43	F105	M168	K231		P351	A411	
E44	S106	K169	D232		K352	G412	
E45	G170	G170	D233		A353	S413	
G46	A107	H171	E234		L414	L414	
M48	K109	R172	I235		R354	L295	
F49	R110	P173	Q236		R355	L295	
D50	A111	G174	I237		I356	Y296	
G51	E112	K176	K239		E357	Y297	
S52	D113	G177	Y240		V358	L298	
S63	Y114	G177	V241		R359	G299	
I54	L115	G178	V242		F360	G300	
	R116	Y179	H243		P361	L421	
M57	A117	E180	N244		D362	D422	
K58	T118	P181	V245		L423	P363	
G59	G119	V182	V245		A364	A364	
I60	I120	P183	A246		R425	R425	

4 Data and refinement statistics

Xtrriage (Phenix) and EDS were not executed - this section is therefore incomplete.

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	235.50Å 134.50Å 200.10Å 90.00° 102.80° 90.00°	Depositor
Resolution (Å)	(Not available) – 3.50	Depositor
% Data completeness (in resolution range)	(Not available) ((Not available)-3.50)	Depositor
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
Refinement program	PROLSQ	Depositor
R, R_{free}	0.258 , (Not available)	Depositor
Estimated twinning fraction	No twinning to report.	Xtrriage
Total number of atoms	43692	wwPDB-VP
Average B, all atoms (Å ²)	15.0	wwPDB-VP

5 Model quality i

5.1 Standard geometry i

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

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	1.48	31/3723 (0.8%)	2.38	198/5043 (3.9%)
1	B	1.48	31/3723 (0.8%)	2.38	196/5043 (3.9%)
1	C	1.48	31/3723 (0.8%)	2.38	203/5043 (4.0%)
1	D	1.48	30/3723 (0.8%)	2.38	199/5043 (3.9%)
1	E	1.48	31/3723 (0.8%)	2.38	198/5043 (3.9%)
1	F	1.48	30/3723 (0.8%)	2.38	198/5043 (3.9%)
1	G	1.48	31/3723 (0.8%)	2.38	199/5043 (3.9%)
1	H	1.48	31/3723 (0.8%)	2.38	199/5043 (3.9%)
1	I	1.49	30/3723 (0.8%)	2.38	202/5043 (4.0%)
1	J	1.48	31/3723 (0.8%)	2.38	196/5043 (3.9%)
1	K	1.49	30/3723 (0.8%)	2.38	197/5043 (3.9%)
1	L	1.48	30/3723 (0.8%)	2.38	200/5043 (4.0%)
All	All	1.48	367/44676 (0.8%)	2.38	2385/60516 (3.9%)

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	A	1	3
1	B	1	3
1	C	1	3
1	D	1	3
1	E	1	3
1	F	1	3
1	G	1	3
1	H	1	3
1	I	1	3
1	J	1	3
1	K	1	3

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	L	1	3
All	All	12	36

All (367) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	156	GLY	N-CA	7.84	1.57	1.46
1	J	156	GLY	N-CA	7.79	1.57	1.46
1	I	156	GLY	N-CA	7.71	1.57	1.46
1	L	156	GLY	N-CA	7.70	1.57	1.46
1	A	156	GLY	N-CA	7.68	1.57	1.46
1	E	156	GLY	N-CA	7.68	1.57	1.46
1	E	403	GLU	CD-OE2	7.68	1.34	1.25
1	K	403	GLU	CD-OE2	7.68	1.34	1.25
1	K	156	GLY	N-CA	7.67	1.57	1.46
1	G	156	GLY	N-CA	7.67	1.57	1.46
1	H	156	GLY	N-CA	7.67	1.57	1.46
1	F	156	GLY	N-CA	7.65	1.57	1.46
1	C	156	GLY	N-CA	7.65	1.57	1.46
1	B	156	GLY	N-CA	7.64	1.57	1.46
1	A	403	GLU	CD-OE2	7.61	1.34	1.25
1	J	403	GLU	CD-OE2	7.61	1.34	1.25
1	F	403	GLU	CD-OE2	7.55	1.33	1.25
1	D	403	GLU	CD-OE2	7.53	1.33	1.25
1	G	403	GLU	CD-OE2	7.53	1.33	1.25
1	I	403	GLU	CD-OE2	7.52	1.33	1.25
1	C	403	GLU	CD-OE2	7.51	1.33	1.25
1	H	403	GLU	CD-OE2	7.45	1.33	1.25
1	B	403	GLU	CD-OE2	7.44	1.33	1.25
1	L	403	GLU	CD-OE2	7.43	1.33	1.25
1	K	63	SER	CB-OG	7.25	1.51	1.42
1	D	59	GLY	N-CA	-7.21	1.35	1.46
1	H	59	GLY	N-CA	-7.20	1.35	1.46
1	A	59	GLY	N-CA	-7.19	1.35	1.46
1	B	59	GLY	N-CA	-7.19	1.35	1.46
1	I	59	GLY	N-CA	-7.19	1.35	1.46
1	F	59	GLY	N-CA	-7.18	1.35	1.46
1	G	63	SER	CB-OG	7.14	1.51	1.42
1	J	59	GLY	N-CA	-7.13	1.35	1.46
1	C	59	GLY	N-CA	-7.13	1.35	1.46
1	E	59	GLY	N-CA	-7.12	1.35	1.46
1	I	63	SER	CB-OG	7.12	1.51	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	59	GLY	N-CA	-7.12	1.35	1.46
1	B	63	SER	CB-OG	7.11	1.51	1.42
1	B	289	GLY	N-CA	7.11	1.56	1.46
1	L	63	SER	CB-OG	7.11	1.51	1.42
1	K	289	GLY	N-CA	7.09	1.56	1.46
1	J	289	GLY	N-CA	7.09	1.56	1.46
1	C	63	SER	CB-OG	7.08	1.51	1.42
1	F	63	SER	CB-OG	7.08	1.51	1.42
1	F	289	GLY	N-CA	7.08	1.56	1.46
1	A	63	SER	CB-OG	7.07	1.51	1.42
1	G	59	GLY	N-CA	-7.06	1.35	1.46
1	L	289	GLY	N-CA	7.04	1.56	1.46
1	I	289	GLY	N-CA	7.04	1.56	1.46
1	A	289	GLY	N-CA	7.03	1.56	1.46
1	D	63	SER	CB-OG	7.03	1.51	1.42
1	J	63	SER	CB-OG	7.03	1.51	1.42
1	H	63	SER	CB-OG	7.03	1.51	1.42
1	C	289	GLY	N-CA	7.02	1.56	1.46
1	E	63	SER	CB-OG	7.00	1.51	1.42
1	K	59	GLY	N-CA	-6.98	1.35	1.46
1	E	289	GLY	N-CA	6.98	1.56	1.46
1	G	289	GLY	N-CA	6.98	1.56	1.46
1	H	289	GLY	N-CA	6.97	1.56	1.46
1	D	289	GLY	N-CA	6.92	1.56	1.46
1	H	350	SER	CB-OG	6.84	1.51	1.42
1	E	350	SER	CB-OG	6.83	1.51	1.42
1	C	350	SER	CB-OG	6.80	1.51	1.42
1	I	350	SER	CB-OG	6.80	1.51	1.42
1	L	350	SER	CB-OG	6.79	1.51	1.42
1	D	350	SER	CB-OG	6.78	1.51	1.42
1	J	350	SER	CB-OG	6.76	1.51	1.42
1	K	350	SER	CB-OG	6.75	1.51	1.42
1	F	350	SER	CB-OG	6.75	1.51	1.42
1	A	350	SER	CB-OG	6.74	1.51	1.42
1	B	350	SER	CB-OG	6.69	1.50	1.42
1	G	350	SER	CB-OG	6.65	1.50	1.42
1	I	88	ARG	CD-NE	-6.40	1.35	1.46
1	F	88	ARG	CD-NE	-6.39	1.35	1.46
1	J	88	ARG	CD-NE	-6.36	1.35	1.46
1	K	88	ARG	CD-NE	-6.36	1.35	1.46
1	B	88	ARG	CD-NE	-6.34	1.35	1.46
1	G	88	ARG	CD-NE	-6.33	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	88	ARG	CD-NE	-6.31	1.35	1.46
1	D	88	ARG	CD-NE	-6.31	1.35	1.46
1	E	88	ARG	CD-NE	-6.30	1.35	1.46
1	H	88	ARG	CD-NE	-6.29	1.35	1.46
1	L	88	ARG	CD-NE	-6.28	1.35	1.46
1	C	88	ARG	CD-NE	-6.22	1.35	1.46
1	L	256	MET	CA-CB	-6.20	1.40	1.53
1	F	256	MET	CA-CB	-6.17	1.40	1.53
1	I	91	ILE	N-CA	6.16	1.58	1.46
1	D	91	ILE	N-CA	6.16	1.58	1.46
1	F	91	ILE	N-CA	6.15	1.58	1.46
1	L	316	THR	CA-CB	6.15	1.69	1.53
1	G	100	TYR	CA-CB	-6.15	1.40	1.53
1	G	256	MET	CA-CB	-6.15	1.40	1.53
1	E	316	THR	CA-CB	6.14	1.69	1.53
1	G	316	THR	CA-CB	6.14	1.69	1.53
1	I	100	TYR	CA-CB	-6.14	1.40	1.53
1	K	91	ILE	N-CA	6.14	1.58	1.46
1	F	316	THR	CA-CB	6.13	1.69	1.53
1	J	100	TYR	CA-CB	-6.13	1.40	1.53
1	G	91	ILE	N-CA	6.12	1.58	1.46
1	J	316	THR	CA-CB	6.12	1.69	1.53
1	K	256	MET	CA-CB	-6.12	1.40	1.53
1	D	256	MET	CA-CB	-6.12	1.40	1.53
1	H	316	THR	CA-CB	6.12	1.69	1.53
1	A	316	THR	CA-CB	6.11	1.69	1.53
1	B	316	THR	CA-CB	6.11	1.69	1.53
1	A	91	ILE	N-CA	6.11	1.58	1.46
1	A	256	MET	CA-CB	-6.11	1.40	1.53
1	E	256	MET	CA-CB	-6.11	1.40	1.53
1	H	91	ILE	N-CA	6.11	1.58	1.46
1	C	316	THR	CA-CB	6.10	1.69	1.53
1	E	91	ILE	N-CA	6.10	1.58	1.46
1	H	256	MET	CA-CB	-6.10	1.40	1.53
1	K	316	THR	CA-CB	6.10	1.69	1.53
1	B	256	MET	CA-CB	-6.09	1.40	1.53
1	I	256	MET	CA-CB	-6.09	1.40	1.53
1	C	256	MET	CA-CB	-6.08	1.40	1.53
1	K	100	TYR	CA-CB	-6.08	1.40	1.53
1	J	91	ILE	N-CA	6.08	1.58	1.46
1	D	316	THR	CA-CB	6.08	1.69	1.53
1	E	100	TYR	CA-CB	-6.07	1.40	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	91	ILE	N-CA	6.07	1.58	1.46
1	L	91	ILE	N-CA	6.07	1.58	1.46
1	I	316	THR	CA-CB	6.07	1.69	1.53
1	C	100	TYR	CA-CB	-6.06	1.40	1.53
1	B	91	ILE	N-CA	6.04	1.58	1.46
1	F	359	ARG	CD-NE	-6.04	1.36	1.46
1	A	100	TYR	CA-CB	-6.03	1.40	1.53
1	D	100	TYR	CA-CB	-6.03	1.40	1.53
1	H	359	ARG	CD-NE	-6.03	1.36	1.46
1	B	100	TYR	CA-CB	-6.03	1.40	1.53
1	L	100	TYR	CA-CB	-6.03	1.40	1.53
1	H	100	TYR	CA-CB	-6.02	1.40	1.53
1	J	256	MET	CA-CB	-6.02	1.40	1.53
1	F	100	TYR	CA-CB	-6.02	1.40	1.53
1	K	359	ARG	CD-NE	-6.01	1.36	1.46
1	L	359	ARG	CD-NE	-6.00	1.36	1.46
1	E	359	ARG	CD-NE	-5.99	1.36	1.46
1	B	183	PRO	CA-C	-5.97	1.41	1.52
1	A	359	ARG	CD-NE	-5.97	1.36	1.46
1	D	359	ARG	CD-NE	-5.97	1.36	1.46
1	I	359	ARG	CD-NE	-5.96	1.36	1.46
1	C	359	ARG	CD-NE	-5.93	1.36	1.46
1	H	278	GLY	N-CA	5.93	1.54	1.46
1	I	278	GLY	N-CA	5.93	1.54	1.46
1	J	397	TYR	CB-CG	-5.92	1.42	1.51
1	B	359	ARG	CD-NE	-5.91	1.36	1.46
1	C	183	PRO	CA-C	-5.91	1.41	1.52
1	J	359	ARG	CD-NE	-5.91	1.36	1.46
1	H	397	TYR	CB-CG	-5.90	1.42	1.51
1	K	397	TYR	CB-CG	-5.90	1.42	1.51
1	F	183	PRO	CA-C	-5.90	1.41	1.52
1	E	183	PRO	CA-C	-5.89	1.41	1.52
1	I	183	PRO	CA-C	-5.89	1.41	1.52
1	K	183	PRO	CA-C	-5.89	1.41	1.52
1	C	397	TYR	CB-CG	-5.89	1.42	1.51
1	G	359	ARG	CD-NE	-5.88	1.36	1.46
1	H	183	PRO	CA-C	-5.88	1.41	1.52
1	L	397	TYR	CB-CG	-5.88	1.42	1.51
1	A	397	TYR	CB-CG	-5.87	1.42	1.51
1	G	397	TYR	CB-CG	-5.87	1.42	1.51
1	L	183	PRO	CA-C	-5.87	1.41	1.52
1	A	183	PRO	CA-C	-5.87	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	278	GLY	N-CA	5.87	1.54	1.46
1	H	76	ILE	N-CA	5.86	1.58	1.46
1	K	76	ILE	N-CA	5.86	1.58	1.46
1	F	397	TYR	CB-CG	-5.86	1.42	1.51
1	D	278	GLY	N-CA	5.85	1.54	1.46
1	E	278	GLY	N-CA	5.85	1.54	1.46
1	A	76	ILE	N-CA	5.85	1.58	1.46
1	D	76	ILE	N-CA	5.85	1.58	1.46
1	G	76	ILE	N-CA	5.85	1.58	1.46
1	J	183	PRO	CA-C	-5.85	1.41	1.52
1	B	20	ARG	N-CA	5.84	1.58	1.46
1	B	76	ILE	N-CA	5.84	1.58	1.46
1	D	183	PRO	CA-C	-5.84	1.41	1.52
1	K	278	GLY	N-CA	5.84	1.54	1.46
1	G	183	PRO	CA-C	-5.83	1.41	1.52
1	F	278	GLY	N-CA	5.83	1.54	1.46
1	C	76	ILE	N-CA	5.83	1.58	1.46
1	F	76	ILE	N-CA	5.83	1.58	1.46
1	E	76	ILE	N-CA	5.83	1.58	1.46
1	D	397	TYR	CB-CG	-5.83	1.43	1.51
1	C	278	GLY	N-CA	5.81	1.54	1.46
1	I	76	ILE	N-CA	5.80	1.57	1.46
1	J	20	ARG	N-CA	5.80	1.57	1.46
1	J	278	GLY	N-CA	5.80	1.54	1.46
1	A	278	GLY	N-CA	5.79	1.54	1.46
1	C	20	ARG	N-CA	5.79	1.57	1.46
1	E	397	TYR	CB-CG	-5.79	1.43	1.51
1	B	278	GLY	N-CA	5.79	1.54	1.46
1	L	278	GLY	N-CA	5.79	1.54	1.46
1	H	20	ARG	N-CA	5.79	1.57	1.46
1	J	76	ILE	N-CA	5.79	1.57	1.46
1	B	397	TYR	CB-CG	-5.78	1.43	1.51
1	D	20	ARG	N-CA	5.78	1.57	1.46
1	I	397	TYR	CB-CG	-5.78	1.43	1.51
1	L	76	ILE	N-CA	5.78	1.57	1.46
1	E	20	ARG	N-CA	5.77	1.57	1.46
1	I	20	ARG	N-CA	5.76	1.57	1.46
1	A	20	ARG	N-CA	5.75	1.57	1.46
1	F	20	ARG	N-CA	5.74	1.57	1.46
1	K	20	ARG	N-CA	5.74	1.57	1.46
1	G	20	ARG	N-CA	5.71	1.57	1.46
1	J	183	PRO	N-CA	-5.71	1.37	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	20	ARG	N-CA	5.70	1.57	1.46
1	L	183	PRO	N-CA	-5.69	1.37	1.47
1	H	183	PRO	N-CA	-5.68	1.37	1.47
1	A	183	PRO	N-CA	-5.66	1.37	1.47
1	C	183	PRO	N-CA	-5.65	1.37	1.47
1	E	183	PRO	N-CA	-5.64	1.37	1.47
1	F	183	PRO	N-CA	-5.64	1.37	1.47
1	D	183	PRO	N-CA	-5.62	1.37	1.47
1	G	183	PRO	N-CA	-5.62	1.37	1.47
1	I	183	PRO	N-CA	-5.61	1.37	1.47
1	B	183	PRO	N-CA	-5.61	1.37	1.47
1	K	183	PRO	N-CA	-5.59	1.37	1.47
1	G	359	ARG	CZ-NH2	5.57	1.40	1.33
1	J	359	ARG	CZ-NH2	5.50	1.40	1.33
1	A	359	ARG	CZ-NH2	5.49	1.40	1.33
1	I	359	ARG	CZ-NH2	5.46	1.40	1.33
1	A	17	VAL	N-CA	5.45	1.57	1.46
1	H	17	VAL	N-CA	5.45	1.57	1.46
1	F	17	VAL	N-CA	5.44	1.57	1.46
1	L	17	VAL	N-CA	5.43	1.57	1.46
1	D	359	ARG	CZ-NH2	5.42	1.40	1.33
1	D	17	VAL	N-CA	5.42	1.57	1.46
1	B	359	ARG	CZ-NH2	5.42	1.40	1.33
1	C	79	PHE	CA-CB	5.42	1.65	1.53
1	E	17	VAL	N-CA	5.42	1.57	1.46
1	E	359	ARG	CZ-NH2	5.42	1.40	1.33
1	C	359	ARG	CZ-NH2	5.41	1.40	1.33
1	K	359	ARG	CZ-NH2	5.41	1.40	1.33
1	H	359	ARG	CZ-NH2	5.40	1.40	1.33
1	B	461	GLU	CD-OE1	-5.40	1.19	1.25
1	E	79	PHE	CA-CB	5.39	1.65	1.53
1	K	79	PHE	CA-CB	5.39	1.65	1.53
1	K	17	VAL	N-CA	5.39	1.57	1.46
1	L	359	ARG	CZ-NH2	5.39	1.40	1.33
1	I	17	VAL	N-CA	5.39	1.57	1.46
1	A	79	PHE	CA-CB	5.38	1.65	1.53
1	K	183	PRO	C-O	5.37	1.33	1.23
1	J	17	VAL	N-CA	5.37	1.57	1.46
1	G	461	GLU	CD-OE1	-5.36	1.19	1.25
1	I	77	ASP	N-CA	5.36	1.57	1.46
1	J	79	PHE	CA-CB	5.36	1.65	1.53
1	L	79	PHE	CA-CB	5.36	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	79	PHE	CA-CB	5.36	1.65	1.53
1	F	359	ARG	CZ-NH2	5.35	1.40	1.33
1	G	17	VAL	N-CA	5.35	1.57	1.46
1	C	17	VAL	N-CA	5.35	1.57	1.46
1	H	77	ASP	N-CA	5.34	1.57	1.46
1	I	79	PHE	CA-CB	5.34	1.65	1.53
1	I	461	GLU	CD-OE1	-5.34	1.19	1.25
1	G	79	PHE	CA-CB	5.34	1.65	1.53
1	L	461	GLU	CD-OE1	-5.33	1.19	1.25
1	B	183	PRO	C-O	5.33	1.33	1.23
1	K	77	ASP	C-O	5.33	1.33	1.23
1	B	17	VAL	N-CA	5.32	1.56	1.46
1	B	79	PHE	CA-CB	5.32	1.65	1.53
1	J	77	ASP	C-O	5.32	1.33	1.23
1	D	77	ASP	N-CA	5.32	1.56	1.46
1	D	79	PHE	CA-CB	5.32	1.65	1.53
1	D	461	GLU	CD-OE1	-5.32	1.19	1.25
1	C	77	ASP	N-CA	5.32	1.56	1.46
1	F	79	PHE	CA-CB	5.31	1.65	1.53
1	H	461	GLU	CD-OE1	-5.31	1.19	1.25
1	H	77	ASP	C-O	5.31	1.33	1.23
1	L	253	ALA	N-CA	5.31	1.56	1.46
1	C	77	ASP	C-O	5.30	1.33	1.23
1	E	77	ASP	C-O	5.30	1.33	1.23
1	E	461	GLU	CD-OE1	-5.30	1.19	1.25
1	G	77	ASP	N-CA	5.30	1.56	1.46
1	K	461	GLU	CD-OE1	-5.30	1.19	1.25
1	D	77	ASP	C-O	5.30	1.33	1.23
1	L	183	PRO	C-O	5.30	1.33	1.23
1	D	270	CYS	CA-CB	-5.29	1.42	1.53
1	G	270	CYS	CA-CB	-5.29	1.42	1.53
1	K	403	GLU	CG-CD	-5.29	1.44	1.51
1	G	77	ASP	C-O	5.29	1.33	1.23
1	D	183	PRO	C-O	5.29	1.33	1.23
1	L	270	CYS	CA-CB	-5.29	1.42	1.53
1	A	270	CYS	CA-CB	-5.29	1.42	1.53
1	I	77	ASP	C-O	5.29	1.33	1.23
1	H	183	PRO	C-O	5.28	1.33	1.23
1	K	77	ASP	N-CA	5.28	1.56	1.46
1	A	183	PRO	C-O	5.28	1.33	1.23
1	G	183	PRO	C-O	5.28	1.33	1.23
1	E	253	ALA	N-CA	5.28	1.56	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	77	ASP	N-CA	5.28	1.56	1.46
1	J	77	ASP	N-CA	5.28	1.56	1.46
1	I	178	GLY	N-CA	5.28	1.53	1.46
1	C	403	GLU	CG-CD	-5.28	1.44	1.51
1	D	403	GLU	CG-CD	-5.28	1.44	1.51
1	H	270	CYS	CA-CB	-5.27	1.42	1.53
1	K	270	CYS	CA-CB	-5.27	1.42	1.53
1	L	77	ASP	N-CA	5.27	1.56	1.46
1	A	77	ASP	C-O	5.27	1.33	1.23
1	A	403	GLU	CG-CD	-5.27	1.44	1.51
1	B	403	GLU	CG-CD	-5.27	1.44	1.51
1	I	403	GLU	CG-CD	-5.27	1.44	1.51
1	J	183	PRO	C-O	5.26	1.33	1.23
1	F	77	ASP	C-O	5.26	1.33	1.23
1	H	403	GLU	CG-CD	-5.26	1.44	1.51
1	I	270	CYS	CA-CB	-5.26	1.42	1.53
1	H	178	GLY	N-CA	5.25	1.53	1.46
1	C	183	PRO	C-O	5.25	1.33	1.23
1	A	461	GLU	CD-OE1	-5.25	1.19	1.25
1	F	461	GLU	CD-OE1	-5.25	1.19	1.25
1	J	461	GLU	CD-OE1	-5.25	1.19	1.25
1	I	183	PRO	C-O	5.25	1.33	1.23
1	B	253	ALA	N-CA	5.24	1.56	1.46
1	E	183	PRO	C-O	5.24	1.33	1.23
1	C	270	CYS	CA-CB	-5.24	1.42	1.53
1	F	77	ASP	N-CA	5.24	1.56	1.46
1	B	77	ASP	C-O	5.24	1.33	1.23
1	J	270	CYS	CA-CB	-5.23	1.42	1.53
1	J	178	GLY	N-CA	5.23	1.53	1.46
1	B	77	ASP	N-CA	5.23	1.56	1.46
1	D	253	ALA	N-CA	5.23	1.56	1.46
1	F	253	ALA	N-CA	5.23	1.56	1.46
1	F	354	ARG	N-CA	5.22	1.56	1.46
1	C	461	GLU	CD-OE1	-5.22	1.20	1.25
1	E	403	GLU	CG-CD	-5.21	1.44	1.51
1	E	77	ASP	N-CA	5.21	1.56	1.46
1	G	178	GLY	N-CA	5.21	1.53	1.46
1	B	178	GLY	N-CA	5.20	1.53	1.46
1	E	178	GLY	N-CA	5.20	1.53	1.46
1	I	354	ARG	N-CA	5.20	1.56	1.46
1	L	354	ARG	N-CA	5.20	1.56	1.46
1	E	270	CYS	CA-CB	-5.20	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	270	CYS	CA-CB	-5.20	1.42	1.53
1	L	403	GLU	CG-CD	-5.20	1.44	1.51
1	B	270	CYS	CA-CB	-5.19	1.42	1.53
1	G	403	GLU	CG-CD	-5.19	1.44	1.51
1	L	77	ASP	C-O	5.19	1.33	1.23
1	I	253	ALA	N-CA	5.19	1.56	1.46
1	K	253	ALA	N-CA	5.19	1.56	1.46
1	A	178	GLY	N-CA	5.18	1.53	1.46
1	D	178	GLY	N-CA	5.18	1.53	1.46
1	F	178	GLY	N-CA	5.17	1.53	1.46
1	C	253	ALA	N-CA	5.17	1.56	1.46
1	H	253	ALA	N-CA	5.17	1.56	1.46
1	F	183	PRO	C-O	5.17	1.33	1.23
1	F	403	GLU	CG-CD	-5.17	1.44	1.51
1	G	253	ALA	N-CA	5.16	1.56	1.46
1	A	253	ALA	N-CA	5.16	1.56	1.46
1	J	253	ALA	N-CA	5.16	1.56	1.46
1	J	354	ARG	N-CA	5.16	1.56	1.46
1	J	403	GLU	CG-CD	-5.16	1.44	1.51
1	C	354	ARG	N-CA	5.15	1.56	1.46
1	C	178	GLY	N-CA	5.14	1.53	1.46
1	K	178	GLY	N-CA	5.14	1.53	1.46
1	B	354	ARG	N-CA	5.14	1.56	1.46
1	A	354	ARG	N-CA	5.11	1.56	1.46
1	E	354	ARG	N-CA	5.10	1.56	1.46
1	G	354	ARG	N-CA	5.10	1.56	1.46
1	H	354	ARG	N-CA	5.09	1.56	1.46
1	K	354	ARG	N-CA	5.09	1.56	1.46
1	D	354	ARG	N-CA	5.08	1.56	1.46
1	E	166	GLY	CA-C	5.07	1.59	1.51
1	L	178	GLY	N-CA	5.06	1.53	1.46
1	B	397	TYR	CG-CD1	5.05	1.45	1.39
1	G	397	TYR	CG-CD1	5.03	1.45	1.39
1	J	397	TYR	CG-CD1	5.03	1.45	1.39
1	A	397	TYR	CG-CD1	5.01	1.45	1.39
1	H	397	TYR	CG-CD1	5.01	1.45	1.39
1	C	397	TYR	CG-CD1	5.00	1.45	1.39

All (2385) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	88	ARG	CD-NE-CZ	28.32	163.25	123.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	88	ARG	CD-NE-CZ	28.31	163.23	123.60
1	G	88	ARG	CD-NE-CZ	28.30	163.22	123.60
1	J	88	ARG	CD-NE-CZ	28.29	163.20	123.60
1	F	88	ARG	CD-NE-CZ	28.27	163.18	123.60
1	A	88	ARG	CD-NE-CZ	28.23	163.13	123.60
1	H	88	ARG	CD-NE-CZ	28.23	163.12	123.60
1	L	88	ARG	CD-NE-CZ	28.22	163.11	123.60
1	C	88	ARG	CD-NE-CZ	28.21	163.10	123.60
1	I	88	ARG	CD-NE-CZ	28.21	163.10	123.60
1	K	88	ARG	CD-NE-CZ	28.20	163.08	123.60
1	D	88	ARG	CD-NE-CZ	28.20	163.07	123.60
1	E	359	ARG	CD-NE-CZ	25.55	159.38	123.60
1	F	359	ARG	CD-NE-CZ	25.49	159.28	123.60
1	G	359	ARG	CD-NE-CZ	25.49	159.28	123.60
1	B	359	ARG	CD-NE-CZ	25.48	159.28	123.60
1	D	359	ARG	CD-NE-CZ	25.48	159.27	123.60
1	J	359	ARG	CD-NE-CZ	25.47	159.26	123.60
1	L	359	ARG	CD-NE-CZ	25.46	159.24	123.60
1	C	359	ARG	CD-NE-CZ	25.45	159.23	123.60
1	A	359	ARG	CD-NE-CZ	25.45	159.23	123.60
1	I	359	ARG	CD-NE-CZ	25.44	159.22	123.60
1	K	359	ARG	CD-NE-CZ	25.39	159.14	123.60
1	H	359	ARG	CD-NE-CZ	25.39	159.14	123.60
1	D	315	THR	N-CA-CB	19.64	147.61	110.30
1	A	315	THR	N-CA-CB	19.63	147.60	110.30
1	L	315	THR	N-CA-CB	19.63	147.59	110.30
1	C	315	THR	N-CA-CB	19.62	147.59	110.30
1	K	315	THR	N-CA-CB	19.62	147.57	110.30
1	G	315	THR	N-CA-CB	19.61	147.56	110.30
1	J	315	THR	N-CA-CB	19.61	147.56	110.30
1	H	315	THR	N-CA-CB	19.61	147.56	110.30
1	F	315	THR	N-CA-CB	19.59	147.53	110.30
1	I	315	THR	N-CA-CB	19.59	147.53	110.30
1	E	315	THR	N-CA-CB	19.58	147.51	110.30
1	B	315	THR	N-CA-CB	19.55	147.46	110.30
1	I	88	ARG	NE-CZ-NH1	17.66	129.13	120.30
1	B	88	ARG	NE-CZ-NH1	17.64	129.12	120.30
1	D	88	ARG	NE-CZ-NH1	17.59	129.09	120.30
1	H	88	ARG	NE-CZ-NH1	17.55	129.07	120.30
1	L	88	ARG	NE-CZ-NH1	17.52	129.06	120.30
1	E	88	ARG	NE-CZ-NH1	17.52	129.06	120.30
1	K	88	ARG	NE-CZ-NH1	17.52	129.06	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	88	ARG	NE-CZ-NH1	17.52	129.06	120.30
1	F	88	ARG	NE-CZ-NH1	17.51	129.06	120.30
1	C	88	ARG	NE-CZ-NH1	17.51	129.05	120.30
1	G	88	ARG	NE-CZ-NH1	17.31	128.96	120.30
1	J	88	ARG	NE-CZ-NH1	17.30	128.95	120.30
1	D	465	TYR	CB-CG-CD1	-14.76	112.15	121.00
1	H	465	TYR	CB-CG-CD1	-14.70	112.18	121.00
1	K	465	TYR	CB-CG-CD1	-14.68	112.19	121.00
1	A	465	TYR	CB-CG-CD1	-14.68	112.19	121.00
1	E	465	TYR	CB-CG-CD1	-14.68	112.19	121.00
1	I	465	TYR	CB-CG-CD1	-14.63	112.22	121.00
1	K	359	ARG	NE-CZ-NH1	14.63	127.61	120.30
1	J	465	TYR	CB-CG-CD1	-14.62	112.23	121.00
1	L	465	TYR	CB-CG-CD1	-14.62	112.23	121.00
1	C	465	TYR	CB-CG-CD1	-14.61	112.23	121.00
1	G	359	ARG	NE-CZ-NH1	14.61	127.60	120.30
1	B	465	TYR	CB-CG-CD1	-14.58	112.25	121.00
1	F	465	TYR	CB-CG-CD1	-14.57	112.26	121.00
1	H	359	ARG	NE-CZ-NH1	14.56	127.58	120.30
1	G	465	TYR	CB-CG-CD1	-14.54	112.28	121.00
1	A	359	ARG	NE-CZ-NH1	14.54	127.57	120.30
1	C	359	ARG	NE-CZ-NH1	14.52	127.56	120.30
1	J	359	ARG	NE-CZ-NH1	14.47	127.54	120.30
1	H	397	TYR	CA-CB-CG	14.47	140.89	113.40
1	K	397	TYR	CA-CB-CG	14.47	140.89	113.40
1	D	397	TYR	CA-CB-CG	14.46	140.88	113.40
1	C	397	TYR	CA-CB-CG	14.46	140.87	113.40
1	I	397	TYR	CA-CB-CG	14.45	140.86	113.40
1	A	397	TYR	CA-CB-CG	14.45	140.85	113.40
1	F	397	TYR	CA-CB-CG	14.45	140.85	113.40
1	E	397	TYR	CA-CB-CG	14.45	140.85	113.40
1	J	397	TYR	CA-CB-CG	14.44	140.84	113.40
1	E	359	ARG	NE-CZ-NH1	14.44	127.52	120.30
1	L	397	TYR	CA-CB-CG	14.44	140.83	113.40
1	G	397	TYR	CA-CB-CG	14.43	140.82	113.40
1	I	359	ARG	NE-CZ-NH1	14.43	127.51	120.30
1	B	397	TYR	CA-CB-CG	14.40	140.76	113.40
1	B	359	ARG	NE-CZ-NH1	14.38	127.49	120.30
1	F	359	ARG	NE-CZ-NH1	14.38	127.49	120.30
1	L	359	ARG	NE-CZ-NH1	14.37	127.49	120.30
1	D	359	ARG	NE-CZ-NH1	14.33	127.47	120.30
1	I	105	ARG	NE-CZ-NH1	14.21	127.41	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	454	ARG	NE-CZ-NH1	14.13	127.37	120.30
1	G	105	ARG	NE-CZ-NH1	14.12	127.36	120.30
1	B	454	ARG	NE-CZ-NH1	14.12	127.36	120.30
1	C	454	ARG	NE-CZ-NH1	14.11	127.36	120.30
1	L	454	ARG	NE-CZ-NH1	14.11	127.35	120.30
1	C	105	ARG	NE-CZ-NH1	14.10	127.35	120.30
1	K	454	ARG	NE-CZ-NH1	14.07	127.33	120.30
1	I	454	ARG	NE-CZ-NH1	14.07	127.33	120.30
1	E	105	ARG	NE-CZ-NH1	14.06	127.33	120.30
1	K	105	ARG	NE-CZ-NH1	13.97	127.28	120.30
1	G	454	ARG	NE-CZ-NH1	13.95	127.27	120.30
1	E	454	ARG	NE-CZ-NH1	13.94	127.27	120.30
1	H	105	ARG	NE-CZ-NH1	13.94	127.27	120.30
1	L	105	ARG	NE-CZ-NH1	13.92	127.26	120.30
1	A	105	ARG	NE-CZ-NH1	13.92	127.26	120.30
1	H	454	ARG	NE-CZ-NH1	13.92	127.26	120.30
1	F	454	ARG	NE-CZ-NH1	13.91	127.26	120.30
1	A	454	ARG	NE-CZ-NH1	13.90	127.25	120.30
1	B	105	ARG	NE-CZ-NH1	13.89	127.24	120.30
1	F	105	ARG	NE-CZ-NH1	13.88	127.24	120.30
1	J	454	ARG	NE-CZ-NH1	13.86	127.23	120.30
1	D	105	ARG	NE-CZ-NH1	13.84	127.22	120.30
1	J	105	ARG	NE-CZ-NH1	13.82	127.21	120.30
1	E	100	TYR	CA-CB-CG	13.68	139.39	113.40
1	K	100	TYR	CA-CB-CG	13.68	139.39	113.40
1	G	172	ARG	NE-CZ-NH1	13.66	127.13	120.30
1	D	100	TYR	CA-CB-CG	13.65	139.34	113.40
1	G	100	TYR	CA-CB-CG	13.65	139.34	113.40
1	I	100	TYR	CA-CB-CG	13.65	139.34	113.40
1	C	100	TYR	CA-CB-CG	13.64	139.31	113.40
1	J	100	TYR	CA-CB-CG	13.62	139.28	113.40
1	A	100	TYR	CA-CB-CG	13.61	139.25	113.40
1	B	100	TYR	CA-CB-CG	13.61	139.25	113.40
1	L	100	TYR	CA-CB-CG	13.61	139.25	113.40
1	F	100	TYR	CA-CB-CG	13.59	139.22	113.40
1	H	100	TYR	CA-CB-CG	13.57	139.19	113.40
1	F	172	ARG	NE-CZ-NH1	13.52	127.06	120.30
1	J	172	ARG	NE-CZ-NH1	13.51	127.05	120.30
1	H	172	ARG	NE-CZ-NH1	13.47	127.04	120.30
1	E	172	ARG	NE-CZ-NH1	13.44	127.02	120.30
1	D	172	ARG	NE-CZ-NH1	13.39	127.00	120.30
1	C	172	ARG	NE-CZ-NH1	13.38	126.99	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	172	ARG	NE-CZ-NH1	13.34	126.97	120.30
1	K	172	ARG	NE-CZ-NH1	13.34	126.97	120.30
1	I	446	ARG	NE-CZ-NH1	13.32	126.96	120.30
1	G	446	ARG	NE-CZ-NH1	13.28	126.94	120.30
1	E	446	ARG	NE-CZ-NH1	13.26	126.93	120.30
1	B	172	ARG	NE-CZ-NH1	13.23	126.91	120.30
1	L	172	ARG	NE-CZ-NH1	13.21	126.91	120.30
1	L	446	ARG	NE-CZ-NH1	13.19	126.90	120.30
1	C	446	ARG	NE-CZ-NH1	13.19	126.90	120.30
1	I	172	ARG	NE-CZ-NH1	13.19	126.89	120.30
1	A	446	ARG	NE-CZ-NH1	13.17	126.88	120.30
1	H	446	ARG	NE-CZ-NH1	13.15	126.88	120.30
1	D	446	ARG	NE-CZ-NH1	13.12	126.86	120.30
1	J	446	ARG	NE-CZ-NH1	13.05	126.83	120.30
1	B	446	ARG	NE-CZ-NH1	13.04	126.82	120.30
1	K	446	ARG	NE-CZ-NH1	13.02	126.81	120.30
1	F	446	ARG	NE-CZ-NH1	12.97	126.79	120.30
1	K	139	ARG	NE-CZ-NH2	-12.19	114.21	120.30
1	E	139	ARG	NE-CZ-NH2	-12.17	114.22	120.30
1	B	139	ARG	NE-CZ-NH2	-12.16	114.22	120.30
1	B	139	ARG	NE-CZ-NH1	12.10	126.35	120.30
1	E	139	ARG	NE-CZ-NH1	12.06	126.33	120.30
1	K	139	ARG	NE-CZ-NH1	12.04	126.32	120.30
1	A	139	ARG	NE-CZ-NH2	-12.03	114.29	120.30
1	H	139	ARG	NE-CZ-NH2	-12.03	114.29	120.30
1	G	77	ASP	CB-CA-C	11.99	134.39	110.40
1	G	139	ARG	NE-CZ-NH2	-11.98	114.31	120.30
1	L	77	ASP	CB-CA-C	11.98	134.35	110.40
1	H	139	ARG	NE-CZ-NH1	11.96	126.28	120.30
1	C	77	ASP	CB-CA-C	11.96	134.32	110.40
1	K	77	ASP	CB-CA-C	11.96	134.32	110.40
1	D	77	ASP	CB-CA-C	11.96	134.32	110.40
1	J	139	ARG	NE-CZ-NH1	11.95	126.28	120.30
1	F	77	ASP	CB-CA-C	11.95	134.29	110.40
1	H	77	ASP	CB-CA-C	11.94	134.29	110.40
1	B	77	ASP	CB-CA-C	11.94	134.28	110.40
1	I	77	ASP	CB-CA-C	11.94	134.28	110.40
1	L	139	ARG	NE-CZ-NH2	-11.94	114.33	120.30
1	A	77	ASP	CB-CA-C	11.94	134.28	110.40
1	E	77	ASP	CB-CA-C	11.92	134.25	110.40
1	A	139	ARG	NE-CZ-NH1	11.91	126.26	120.30
1	J	77	ASP	CB-CA-C	11.90	134.21	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	139	ARG	NE-CZ-NH2	-11.89	114.36	120.30
1	I	139	ARG	NE-CZ-NH1	11.87	126.24	120.30
1	C	139	ARG	NE-CZ-NH2	-11.85	114.38	120.30
1	J	139	ARG	NE-CZ-NH2	-11.85	114.38	120.30
1	F	139	ARG	NE-CZ-NH1	11.81	126.20	120.30
1	I	139	ARG	NE-CZ-NH2	-11.81	114.40	120.30
1	D	139	ARG	NE-CZ-NH2	-11.80	114.40	120.30
1	C	116	ARG	NE-CZ-NH1	-11.77	114.41	120.30
1	C	139	ARG	NE-CZ-NH1	11.76	126.18	120.30
1	H	116	ARG	NE-CZ-NH1	-11.72	114.44	120.30
1	L	139	ARG	NE-CZ-NH1	11.70	126.15	120.30
1	B	116	ARG	NE-CZ-NH1	-11.69	114.46	120.30
1	J	116	ARG	NE-CZ-NH1	-11.67	114.47	120.30
1	D	139	ARG	NE-CZ-NH1	11.64	126.12	120.30
1	F	116	ARG	NE-CZ-NH1	-11.62	114.49	120.30
1	G	139	ARG	NE-CZ-NH1	11.61	126.11	120.30
1	H	454	ARG	NE-CZ-NH2	-11.60	114.50	120.30
1	A	116	ARG	NE-CZ-NH1	-11.59	114.51	120.30
1	D	454	ARG	NE-CZ-NH2	-11.57	114.52	120.30
1	K	454	ARG	NE-CZ-NH2	-11.57	114.52	120.30
1	G	116	ARG	NE-CZ-NH1	-11.57	114.52	120.30
1	L	116	ARG	NE-CZ-NH1	-11.56	114.52	120.30
1	C	454	ARG	NE-CZ-NH2	-11.55	114.53	120.30
1	D	116	ARG	NE-CZ-NH1	-11.55	114.53	120.30
1	I	454	ARG	NE-CZ-NH2	-11.51	114.55	120.30
1	E	116	ARG	NE-CZ-NH1	-11.50	114.55	120.30
1	A	454	ARG	NE-CZ-NH2	-11.45	114.58	120.30
1	K	116	ARG	NE-CZ-NH1	-11.43	114.58	120.30
1	E	454	ARG	NE-CZ-NH2	-11.43	114.58	120.30
1	L	454	ARG	NE-CZ-NH2	-11.41	114.59	120.30
1	B	454	ARG	NE-CZ-NH2	-11.40	114.60	120.30
1	I	116	ARG	NE-CZ-NH1	-11.39	114.61	120.30
1	J	454	ARG	NE-CZ-NH2	-11.37	114.62	120.30
1	G	454	ARG	NE-CZ-NH2	-11.36	114.62	120.30
1	F	454	ARG	NE-CZ-NH2	-11.35	114.62	120.30
1	C	379	LEU	CB-CA-C	10.97	131.04	110.20
1	H	379	LEU	CB-CA-C	10.96	131.01	110.20
1	D	379	LEU	CB-CA-C	10.95	131.00	110.20
1	K	53	SER	C-N-CA	10.93	149.03	121.70
1	F	53	SER	C-N-CA	10.92	148.99	121.70
1	J	53	SER	C-N-CA	10.91	148.99	121.70
1	G	379	LEU	CB-CA-C	10.91	130.93	110.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	53	SER	C-N-CA	10.91	148.97	121.70
1	L	379	LEU	CB-CA-C	10.91	130.92	110.20
1	A	379	LEU	CB-CA-C	10.89	130.90	110.20
1	B	379	LEU	CB-CA-C	10.89	130.88	110.20
1	I	379	LEU	CB-CA-C	10.89	130.88	110.20
1	I	53	SER	C-N-CA	10.88	148.91	121.70
1	J	379	LEU	CB-CA-C	10.88	130.88	110.20
1	E	379	LEU	CB-CA-C	10.88	130.87	110.20
1	F	379	LEU	CB-CA-C	10.87	130.86	110.20
1	K	379	LEU	CB-CA-C	10.88	130.86	110.20
1	D	53	SER	C-N-CA	10.87	148.88	121.70
1	G	53	SER	C-N-CA	10.86	148.86	121.70
1	B	53	SER	C-N-CA	10.86	148.85	121.70
1	E	53	SER	C-N-CA	10.86	148.85	121.70
1	L	53	SER	C-N-CA	10.86	148.84	121.70
1	H	53	SER	C-N-CA	10.85	148.83	121.70
1	A	53	SER	C-N-CA	10.85	148.81	121.70
1	E	344	ARG	NE-CZ-NH1	10.44	125.52	120.30
1	F	344	ARG	NE-CZ-NH1	10.43	125.52	120.30
1	D	344	ARG	NE-CZ-NH1	10.40	125.50	120.30
1	L	344	ARG	NE-CZ-NH1	10.40	125.50	120.30
1	F	465	TYR	CB-CG-CD2	10.38	127.23	121.00
1	J	465	TYR	CB-CG-CD2	10.38	127.23	121.00
1	H	465	TYR	CB-CG-CD2	10.36	127.22	121.00
1	K	344	ARG	NE-CZ-NH1	10.36	125.48	120.30
1	I	344	ARG	NE-CZ-NH1	10.35	125.47	120.30
1	H	344	ARG	NE-CZ-NH1	10.34	125.47	120.30
1	A	344	ARG	NE-CZ-NH1	10.32	125.46	120.30
1	B	344	ARG	NE-CZ-NH1	10.29	125.45	120.30
1	G	344	ARG	NE-CZ-NH1	10.28	125.44	120.30
1	L	465	TYR	CB-CG-CD2	10.27	127.16	121.00
1	A	465	TYR	CB-CG-CD2	10.26	127.16	121.00
1	C	344	ARG	NE-CZ-NH1	10.25	125.42	120.30
1	B	465	TYR	CB-CG-CD2	10.23	127.14	121.00
1	G	366	ASN	N-CA-CB	10.23	129.02	110.60
1	C	366	ASN	N-CA-CB	10.23	129.01	110.60
1	C	465	TYR	CB-CG-CD2	10.22	127.14	121.00
1	K	465	TYR	CB-CG-CD2	10.20	127.12	121.00
1	J	344	ARG	NE-CZ-NH1	10.20	125.40	120.30
1	D	465	TYR	CB-CG-CD2	10.19	127.12	121.00
1	K	366	ASN	N-CA-CB	10.19	128.95	110.60
1	L	366	ASN	N-CA-CB	10.19	128.95	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	366	ASN	N-CA-CB	10.19	128.94	110.60
1	J	366	ASN	N-CA-CB	10.18	128.92	110.60
1	A	366	ASN	N-CA-CB	10.18	128.92	110.60
1	B	366	ASN	N-CA-CB	10.17	128.91	110.60
1	D	366	ASN	N-CA-CB	10.17	128.91	110.60
1	I	366	ASN	N-CA-CB	10.15	128.87	110.60
1	H	366	ASN	N-CA-CB	10.15	128.87	110.60
1	F	366	ASN	N-CA-CB	10.14	128.86	110.60
1	E	465	TYR	CB-CG-CD2	10.14	127.08	121.00
1	G	465	TYR	CB-CG-CD2	10.13	127.08	121.00
1	I	465	TYR	CB-CG-CD2	10.07	127.05	121.00
1	K	77	ASP	CB-CG-OD2	10.07	127.36	118.30
1	J	77	ASP	CB-CG-OD2	10.02	127.31	118.30
1	B	77	ASP	CB-CG-OD2	9.97	127.27	118.30
1	G	77	ASP	CB-CG-OD2	9.94	127.25	118.30
1	H	77	ASP	CB-CG-OD2	9.93	127.23	118.30
1	A	77	ASP	CB-CG-OD2	9.91	127.22	118.30
1	E	77	ASP	CB-CG-OD2	9.90	127.21	118.30
1	F	77	ASP	CB-CG-OD2	9.88	127.19	118.30
1	D	77	ASP	CB-CG-OD2	9.87	127.18	118.30
1	I	77	ASP	CB-CG-OD2	9.86	127.17	118.30
1	C	77	ASP	CB-CG-OD2	9.84	127.16	118.30
1	L	77	ASP	CB-CG-OD2	9.77	127.09	118.30
1	G	77	ASP	CA-CB-CG	9.65	134.63	113.40
1	A	77	ASP	CA-CB-CG	9.64	134.62	113.40
1	C	77	ASP	CA-CB-CG	9.64	134.61	113.40
1	K	77	ASP	CA-CB-CG	9.63	134.60	113.40
1	D	77	ASP	CA-CB-CG	9.63	134.59	113.40
1	F	77	ASP	CA-CB-CG	9.62	134.57	113.40
1	B	77	ASP	CA-CB-CG	9.62	134.57	113.40
1	H	77	ASP	CA-CB-CG	9.62	134.57	113.40
1	L	77	ASP	CA-CB-CG	9.62	134.56	113.40
1	J	77	ASP	CA-CB-CG	9.61	134.54	113.40
1	E	77	ASP	CA-CB-CG	9.61	134.53	113.40
1	I	77	ASP	CA-CB-CG	9.60	134.53	113.40
1	B	27	LYS	C-N-CA	9.50	145.45	121.70
1	E	192	ARG	NE-CZ-NH1	9.49	125.05	120.30
1	G	27	LYS	C-N-CA	9.49	145.42	121.70
1	F	27	LYS	C-N-CA	9.46	145.36	121.70
1	I	27	LYS	C-N-CA	9.46	145.35	121.70
1	J	27	LYS	C-N-CA	9.45	145.34	121.70
1	C	27	LYS	C-N-CA	9.45	145.32	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	27	LYS	C-N-CA	9.45	145.31	121.70
1	D	27	LYS	C-N-CA	9.45	145.31	121.70
1	K	27	LYS	C-N-CA	9.44	145.31	121.70
1	L	27	LYS	C-N-CA	9.44	145.31	121.70
1	E	27	LYS	C-N-CA	9.43	145.27	121.70
1	K	192	ARG	NE-CZ-NH1	9.42	125.01	120.30
1	J	397	TYR	CB-CG-CD2	9.41	126.65	121.00
1	H	27	LYS	C-N-CA	9.41	145.23	121.70
1	G	397	TYR	CB-CG-CD2	9.40	126.64	121.00
1	E	100	TYR	N-CA-CB	9.40	127.53	110.60
1	C	100	TYR	N-CA-CB	9.39	127.50	110.60
1	C	397	TYR	CB-CG-CD2	9.38	126.63	121.00
1	H	397	TYR	CB-CG-CD2	9.38	126.63	121.00
1	I	192	ARG	NE-CZ-NH1	9.38	124.99	120.30
1	I	100	TYR	N-CA-CB	9.38	127.48	110.60
1	J	100	TYR	N-CA-CB	9.36	127.45	110.60
1	A	397	TYR	CB-CG-CD2	9.36	126.61	121.00
1	K	100	TYR	N-CA-CB	9.36	127.44	110.60
1	D	397	TYR	CB-CG-CD2	9.35	126.61	121.00
1	L	397	TYR	CB-CG-CD2	9.35	126.61	121.00
1	F	397	TYR	CB-CG-CD2	9.35	126.61	121.00
1	H	100	TYR	N-CA-CB	9.35	127.42	110.60
1	B	397	TYR	CB-CG-CD2	9.34	126.61	121.00
1	F	100	TYR	N-CA-CB	9.34	127.40	110.60
1	D	100	TYR	N-CA-CB	9.33	127.40	110.60
1	A	100	TYR	N-CA-CB	9.33	127.39	110.60
1	G	100	TYR	N-CA-CB	9.32	127.38	110.60
1	E	397	TYR	CB-CG-CD2	9.32	126.59	121.00
1	B	100	TYR	N-CA-CB	9.31	127.36	110.60
1	L	100	TYR	N-CA-CB	9.29	127.32	110.60
1	K	397	TYR	CB-CG-CD2	9.28	126.57	121.00
1	A	192	ARG	NE-CZ-NH1	9.27	124.94	120.30
1	B	192	ARG	NE-CZ-NH1	9.26	124.93	120.30
1	I	397	TYR	CB-CG-CD2	9.25	126.55	121.00
1	G	192	ARG	NE-CZ-NH1	9.25	124.92	120.30
1	H	192	ARG	NE-CZ-NH1	9.21	124.91	120.30
1	J	192	ARG	NE-CZ-NH1	9.21	124.91	120.30
1	C	192	ARG	NE-CZ-NH1	9.13	124.87	120.30
1	F	192	ARG	NE-CZ-NH1	9.07	124.84	120.30
1	D	192	ARG	NE-CZ-NH1	9.04	124.82	120.30
1	L	192	ARG	NE-CZ-NH1	9.04	124.82	120.30
1	J	233	ASP	CB-CA-C	9.02	128.45	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	233	ASP	CB-CA-C	9.02	128.44	110.40
1	J	224	ARG	NE-CZ-NH2	-9.02	115.79	120.30
1	L	233	ASP	CB-CA-C	8.99	128.38	110.40
1	B	233	ASP	CB-CA-C	8.98	128.37	110.40
1	A	233	ASP	CB-CA-C	8.97	128.35	110.40
1	E	233	ASP	CB-CA-C	8.96	128.33	110.40
1	F	233	ASP	CB-CA-C	8.96	128.32	110.40
1	H	233	ASP	CB-CA-C	8.96	128.32	110.40
1	D	233	ASP	CB-CA-C	8.96	128.32	110.40
1	C	233	ASP	CB-CA-C	8.96	128.31	110.40
1	G	233	ASP	CB-CA-C	8.93	128.25	110.40
1	K	233	ASP	CB-CA-C	8.92	128.25	110.40
1	G	224	ARG	NE-CZ-NH2	-8.90	115.85	120.30
1	G	100	TYR	C-N-CA	8.84	143.80	121.70
1	J	100	TYR	C-N-CA	8.84	143.79	121.70
1	A	100	TYR	C-N-CA	8.83	143.78	121.70
1	E	100	TYR	C-N-CA	8.83	143.77	121.70
1	I	100	TYR	C-N-CA	8.82	143.76	121.70
1	F	100	TYR	C-N-CA	8.81	143.72	121.70
1	C	100	TYR	C-N-CA	8.80	143.71	121.70
1	D	100	TYR	C-N-CA	8.81	143.72	121.70
1	K	100	TYR	C-N-CA	8.80	143.71	121.70
1	L	100	TYR	C-N-CA	8.80	143.71	121.70
1	B	90	ASP	CB-CG-OD2	-8.79	110.39	118.30
1	B	100	TYR	C-N-CA	8.79	143.68	121.70
1	H	100	TYR	C-N-CA	8.78	143.66	121.70
1	C	224	ARG	NE-CZ-NH2	-8.78	115.91	120.30
1	J	90	ASP	CB-CG-OD2	-8.77	110.41	118.30
1	I	90	ASP	CB-CG-OD2	-8.76	110.42	118.30
1	K	90	ASP	CB-CG-OD2	-8.75	110.42	118.30
1	C	90	ASP	CB-CG-OD2	-8.75	110.43	118.30
1	I	224	ARG	NE-CZ-NH2	-8.73	115.93	120.30
1	A	224	ARG	NE-CZ-NH2	-8.72	115.94	120.30
1	H	224	ARG	NE-CZ-NH2	-8.72	115.94	120.30
1	B	224	ARG	NE-CZ-NH2	-8.70	115.95	120.30
1	D	90	ASP	CB-CG-OD2	-8.69	110.48	118.30
1	A	90	ASP	CB-CG-OD2	-8.69	110.48	118.30
1	E	277	ASN	CB-CA-C	8.68	127.75	110.40
1	E	90	ASP	CB-CG-OD2	-8.67	110.50	118.30
1	B	277	ASN	CB-CA-C	8.67	127.73	110.40
1	G	90	ASP	CB-CG-OD2	-8.67	110.50	118.30
1	H	90	ASP	CB-CG-OD2	-8.67	110.50	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	155	GLU	OE1-CD-OE2	-8.66	112.91	123.30
1	F	155	GLU	OE1-CD-OE2	-8.66	112.91	123.30
1	F	90	ASP	CB-CG-OD2	-8.64	110.52	118.30
1	L	155	GLU	OE1-CD-OE2	-8.64	112.93	123.30
1	G	277	ASN	CB-CA-C	8.64	127.67	110.40
1	L	90	ASP	CB-CG-OD2	-8.63	110.53	118.30
1	L	224	ARG	NE-CZ-NH2	-8.63	115.98	120.30
1	I	277	ASN	CB-CA-C	8.63	127.66	110.40
1	J	155	GLU	OE1-CD-OE2	-8.62	112.95	123.30
1	A	277	ASN	CB-CA-C	8.62	127.64	110.40
1	D	224	ARG	NE-CZ-NH2	-8.62	115.99	120.30
1	J	277	ASN	CB-CA-C	8.62	127.63	110.40
1	D	277	ASN	CB-CA-C	8.61	127.62	110.40
1	K	277	ASN	CB-CA-C	8.61	127.62	110.40
1	H	277	ASN	CB-CA-C	8.61	127.61	110.40
1	L	277	ASN	CB-CA-C	8.60	127.60	110.40
1	G	155	GLU	OE1-CD-OE2	-8.60	112.98	123.30
1	I	155	GLU	OE1-CD-OE2	-8.60	112.98	123.30
1	C	277	ASN	CB-CA-C	8.58	127.56	110.40
1	F	277	ASN	CB-CA-C	8.58	127.56	110.40
1	E	224	ARG	NE-CZ-NH2	-8.58	116.01	120.30
1	H	179	TYR	CB-CG-CD1	-8.57	115.86	121.00
1	K	179	TYR	CB-CG-CD1	-8.56	115.86	121.00
1	K	224	ARG	NE-CZ-NH2	-8.56	116.02	120.30
1	H	155	GLU	OE1-CD-OE2	-8.55	113.04	123.30
1	E	179	TYR	CB-CG-CD1	-8.53	115.88	121.00
1	F	224	ARG	NE-CZ-NH2	-8.53	116.04	120.30
1	I	179	TYR	CB-CG-CD1	-8.52	115.89	121.00
1	D	155	GLU	OE1-CD-OE2	-8.52	113.08	123.30
1	A	155	GLU	OE1-CD-OE2	-8.51	113.09	123.30
1	F	179	TYR	CB-CG-CD1	-8.51	115.90	121.00
1	C	179	TYR	CB-CG-CD1	-8.50	115.90	121.00
1	K	155	GLU	OE1-CD-OE2	-8.50	113.10	123.30
1	A	179	TYR	CB-CG-CD1	-8.49	115.91	121.00
1	B	155	GLU	OE1-CD-OE2	-8.47	113.14	123.30
1	E	155	GLU	OE1-CD-OE2	-8.46	113.15	123.30
1	B	446	ARG	CD-NE-CZ	8.44	135.41	123.60
1	B	179	TYR	CB-CG-CD1	-8.43	115.94	121.00
1	D	179	TYR	CB-CG-CD1	-8.42	115.95	121.00
1	G	179	TYR	CB-CG-CD1	-8.42	115.95	121.00
1	A	446	ARG	CD-NE-CZ	8.39	135.35	123.60
1	L	179	TYR	CB-CG-CD1	-8.38	115.97	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	446	ARG	CD-NE-CZ	8.38	135.33	123.60
1	C	446	ARG	CD-NE-CZ	8.37	135.32	123.60
1	H	446	ARG	CD-NE-CZ	8.37	135.32	123.60
1	F	446	ARG	CD-NE-CZ	8.37	135.31	123.60
1	J	179	TYR	CB-CG-CD1	-8.36	115.98	121.00
1	L	446	ARG	CD-NE-CZ	8.36	135.31	123.60
1	K	446	ARG	CD-NE-CZ	8.36	135.30	123.60
1	C	18	ASP	CB-CG-OD1	8.34	125.81	118.30
1	K	18	ASP	CB-CG-OD1	8.34	125.81	118.30
1	E	446	ARG	CD-NE-CZ	8.34	135.27	123.60
1	D	18	ASP	CB-CG-OD1	8.33	125.80	118.30
1	D	446	ARG	CD-NE-CZ	8.31	135.24	123.60
1	I	446	ARG	CD-NE-CZ	8.31	135.24	123.60
1	G	18	ASP	CB-CG-OD1	8.31	125.78	118.30
1	C	403	GLU	CB-CG-CD	8.30	136.61	114.20
1	E	403	GLU	CB-CG-CD	8.30	136.61	114.20
1	F	18	ASP	CB-CG-OD1	8.30	125.77	118.30
1	J	446	ARG	CD-NE-CZ	8.30	135.22	123.60
1	J	403	GLU	CB-CG-CD	8.30	136.60	114.20
1	B	403	GLU	CB-CG-CD	8.29	136.59	114.20
1	B	18	ASP	CB-CG-OD1	8.29	125.76	118.30
1	H	18	ASP	CB-CG-OD1	8.29	125.76	118.30
1	J	188	ALA	C-N-CA	8.29	142.42	121.70
1	G	188	ALA	C-N-CA	8.29	142.41	121.70
1	D	403	GLU	CB-CG-CD	8.28	136.56	114.20
1	K	403	GLU	CB-CG-CD	8.28	136.54	114.20
1	H	403	GLU	CB-CG-CD	8.27	136.54	114.20
1	I	403	GLU	CB-CG-CD	8.27	136.54	114.20
1	A	188	ALA	C-N-CA	8.27	142.37	121.70
1	B	188	ALA	C-N-CA	8.27	142.38	121.70
1	E	188	ALA	C-N-CA	8.27	142.37	121.70
1	A	403	GLU	CB-CG-CD	8.27	136.52	114.20
1	L	403	GLU	CB-CG-CD	8.27	136.51	114.20
1	J	18	ASP	CB-CG-OD1	8.26	125.74	118.30
1	D	188	ALA	C-N-CA	8.25	142.33	121.70
1	F	403	GLU	CB-CG-CD	8.25	136.48	114.20
1	I	18	ASP	CB-CG-OD1	8.25	125.73	118.30
1	K	188	ALA	C-N-CA	8.25	142.33	121.70
1	L	188	ALA	C-N-CA	8.25	142.33	121.70
1	C	188	ALA	C-N-CA	8.25	142.33	121.70
1	G	403	GLU	CB-CG-CD	8.25	136.47	114.20
1	H	188	ALA	C-N-CA	8.25	142.31	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	18	ASP	CB-CG-OD1	8.24	125.71	118.30
1	F	188	ALA	C-N-CA	8.24	142.30	121.70
1	I	188	ALA	C-N-CA	8.23	142.28	121.70
1	A	18	ASP	CB-CG-OD1	8.23	125.71	118.30
1	L	18	ASP	CB-CG-OD1	8.22	125.69	118.30
1	K	77	ASP	OD1-CG-OD2	-8.15	107.81	123.30
1	J	77	ASP	OD1-CG-OD2	-8.14	107.84	123.30
1	F	77	ASP	OD1-CG-OD2	-8.13	107.86	123.30
1	E	77	ASP	OD1-CG-OD2	-8.12	107.87	123.30
1	I	77	ASP	OD1-CG-OD2	-8.12	107.87	123.30
1	B	77	ASP	OD1-CG-OD2	-8.11	107.89	123.30
1	H	77	ASP	OD1-CG-OD2	-8.11	107.89	123.30
1	L	183	PRO	N-CA-C	8.11	133.18	112.10
1	A	77	ASP	OD1-CG-OD2	-8.10	107.90	123.30
1	C	77	ASP	OD1-CG-OD2	-8.10	107.91	123.30
1	G	77	ASP	OD1-CG-OD2	-8.10	107.90	123.30
1	B	183	PRO	N-CA-C	8.10	133.16	112.10
1	F	183	PRO	N-CA-C	8.10	133.15	112.10
1	E	183	PRO	N-CA-C	8.09	133.13	112.10
1	J	183	PRO	N-CA-C	8.09	133.13	112.10
1	D	183	PRO	N-CA-C	8.08	133.11	112.10
1	H	183	PRO	N-CA-C	8.08	133.11	112.10
1	D	77	ASP	OD1-CG-OD2	-8.08	107.95	123.30
1	I	183	PRO	N-CA-C	8.07	133.09	112.10
1	A	183	PRO	N-CA-C	8.07	133.08	112.10
1	C	183	PRO	N-CA-C	8.06	133.06	112.10
1	K	183	PRO	N-CA-C	8.06	133.06	112.10
1	G	183	PRO	N-CA-C	8.05	133.04	112.10
1	L	77	ASP	OD1-CG-OD2	-8.05	108.01	123.30
1	B	23	ASP	CB-CG-OD1	-8.04	111.07	118.30
1	L	23	ASP	CB-CG-OD1	-8.03	111.08	118.30
1	G	23	ASP	CB-CG-OD1	-8.02	111.08	118.30
1	C	23	ASP	CB-CG-OD1	-8.02	111.08	118.30
1	K	41	GLU	N-CA-C	-8.02	89.35	111.00
1	I	17	VAL	CA-CB-CG2	8.02	122.92	110.90
1	F	23	ASP	CB-CG-OD1	-8.01	111.09	118.30
1	E	23	ASP	CB-CG-OD1	-8.00	111.10	118.30
1	H	17	VAL	CA-CB-CG2	8.00	122.90	110.90
1	H	23	ASP	CB-CG-OD1	-7.99	111.11	118.30
1	E	17	VAL	CA-CB-CG2	7.98	122.87	110.90
1	G	41	GLU	N-CA-C	-7.98	89.45	111.00
1	C	17	VAL	CA-CB-CG2	7.98	122.87	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	17	VAL	CA-CB-CG2	7.98	122.87	110.90
1	J	23	ASP	CB-CG-OD1	-7.98	111.12	118.30
1	G	17	VAL	CA-CB-CG2	7.98	122.87	110.90
1	I	41	GLU	N-CA-C	-7.98	89.46	111.00
1	A	41	GLU	N-CA-C	-7.97	89.47	111.00
1	E	41	GLU	N-CA-C	-7.97	89.48	111.00
1	I	23	ASP	CB-CG-OD1	-7.97	111.12	118.30
1	L	41	GLU	N-CA-C	-7.97	89.48	111.00
1	J	41	GLU	N-CA-C	-7.97	89.48	111.00
1	D	7	THR	N-CA-CB	7.96	125.43	110.30
1	D	41	GLU	N-CA-C	-7.96	89.50	111.00
1	C	41	GLU	N-CA-C	-7.96	89.51	111.00
1	F	41	GLU	N-CA-C	-7.96	89.51	111.00
1	E	339	ARG	NE-CZ-NH1	7.96	124.28	120.30
1	A	23	ASP	CB-CG-OD1	-7.95	111.14	118.30
1	E	7	THR	N-CA-CB	7.95	125.41	110.30
1	F	7	THR	N-CA-CB	7.95	125.41	110.30
1	K	17	VAL	CA-CB-CG2	7.95	122.83	110.90
1	L	7	THR	N-CA-CB	7.95	125.40	110.30
1	A	17	VAL	CA-CB-CG2	7.95	122.82	110.90
1	B	17	VAL	CA-CB-CG2	7.95	122.82	110.90
1	B	41	GLU	N-CA-C	-7.95	89.55	111.00
1	D	17	VAL	CA-CB-CG2	7.95	122.82	110.90
1	F	17	VAL	CA-CB-CG2	7.94	122.82	110.90
1	H	41	GLU	N-CA-C	-7.94	89.57	111.00
1	I	7	THR	N-CA-CB	7.94	125.38	110.30
1	L	17	VAL	CA-CB-CG2	7.94	122.80	110.90
1	A	7	THR	N-CA-CB	7.93	125.38	110.30
1	D	23	ASP	CB-CG-OD1	-7.91	111.18	118.30
1	B	7	THR	N-CA-CB	7.90	125.30	110.30
1	G	7	THR	N-CA-CB	7.90	125.30	110.30
1	C	7	THR	N-CA-CB	7.89	125.30	110.30
1	H	7	THR	N-CA-CB	7.89	125.30	110.30
1	F	339	ARG	NE-CZ-NH1	7.88	124.24	120.30
1	K	7	THR	N-CA-CB	7.88	125.27	110.30
1	F	69	PRO	C-N-CA	7.87	141.37	121.70
1	J	7	THR	N-CA-CB	7.86	125.24	110.30
1	K	23	ASP	CB-CG-OD1	-7.86	111.23	118.30
1	L	69	PRO	C-N-CA	7.83	141.28	121.70
1	H	69	PRO	C-N-CA	7.83	141.27	121.70
1	I	69	PRO	C-N-CA	7.83	141.27	121.70
1	D	69	PRO	C-N-CA	7.82	141.26	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	69	PRO	C-N-CA	7.82	141.25	121.70
1	A	69	PRO	C-N-CA	7.82	141.24	121.70
1	C	69	PRO	C-N-CA	7.81	141.22	121.70
1	J	69	PRO	C-N-CA	7.81	141.22	121.70
1	K	69	PRO	C-N-CA	7.81	141.22	121.70
1	B	69	PRO	C-N-CA	7.80	141.21	121.70
1	G	69	PRO	C-N-CA	7.80	141.21	121.70
1	H	58	LYS	C-N-CA	7.78	138.63	122.30
1	I	447	ARG	NE-CZ-NH1	7.78	124.19	120.30
1	G	58	LYS	C-N-CA	7.77	138.61	122.30
1	I	58	LYS	C-N-CA	7.74	138.56	122.30
1	B	58	LYS	C-N-CA	7.74	138.56	122.30
1	H	437	GLU	CB-CA-C	-7.74	94.92	110.40
1	E	437	GLU	CB-CA-C	-7.73	94.94	110.40
1	F	58	LYS	C-N-CA	7.73	138.54	122.30
1	L	447	ARG	NE-CZ-NH1	7.73	124.16	120.30
1	C	274	LEU	CB-CA-C	7.72	124.88	110.20
1	A	58	LYS	C-N-CA	7.72	138.51	122.30
1	B	437	GLU	CB-CA-C	-7.72	94.96	110.40
1	D	437	GLU	CB-CA-C	-7.72	94.96	110.40
1	F	437	GLU	CB-CA-C	-7.72	94.96	110.40
1	H	274	LEU	CB-CA-C	7.72	124.86	110.20
1	L	437	GLU	CB-CA-C	-7.72	94.96	110.40
1	J	339	ARG	NE-CZ-NH1	7.71	124.16	120.30
1	A	437	GLU	CB-CA-C	-7.71	94.97	110.40
1	E	58	LYS	C-N-CA	7.71	138.50	122.30
1	G	447	ARG	NE-CZ-NH1	7.71	124.16	120.30
1	I	437	GLU	CB-CA-C	-7.71	94.99	110.40
1	B	447	ARG	NE-CZ-NH1	7.70	124.15	120.30
1	K	437	GLU	CB-CA-C	-7.70	95.00	110.40
1	C	437	GLU	CB-CA-C	-7.70	95.00	110.40
1	C	58	LYS	C-N-CA	7.70	138.47	122.30
1	F	274	LEU	CB-CA-C	7.70	124.83	110.20
1	K	58	LYS	C-N-CA	7.70	138.46	122.30
1	C	248	ARG	NE-CZ-NH2	-7.69	116.45	120.30
1	D	58	LYS	C-N-CA	7.69	138.45	122.30
1	E	274	LEU	CB-CA-C	7.69	124.81	110.20
1	J	274	LEU	CB-CA-C	7.69	124.81	110.20
1	G	437	GLU	CB-CA-C	-7.69	95.02	110.40
1	A	339	ARG	NE-CZ-NH1	7.68	124.14	120.30
1	J	58	LYS	C-N-CA	7.68	138.43	122.30
1	L	58	LYS	C-N-CA	7.68	138.43	122.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	437	GLU	CB-CA-C	-7.68	95.04	110.40
1	A	274	LEU	CB-CA-C	7.67	124.78	110.20
1	G	274	LEU	CB-CA-C	7.66	124.76	110.20
1	K	274	LEU	CB-CA-C	7.66	124.76	110.20
1	L	274	LEU	CB-CA-C	7.66	124.75	110.20
1	B	274	LEU	CB-CA-C	7.66	124.75	110.20
1	D	90	ASP	N-CA-CB	-7.65	96.82	110.60
1	D	274	LEU	CB-CA-C	7.65	124.73	110.20
1	E	447	ARG	NE-CZ-NH1	7.65	124.12	120.30
1	H	339	ARG	NE-CZ-NH1	7.65	124.12	120.30
1	B	248	ARG	NE-CZ-NH2	-7.64	116.48	120.30
1	I	274	LEU	CB-CA-C	7.64	124.72	110.20
1	C	90	ASP	N-CA-CB	-7.63	96.86	110.60
1	K	339	ARG	NE-CZ-NH1	7.63	124.11	120.30
1	A	447	ARG	NE-CZ-NH1	7.63	124.11	120.30
1	K	447	ARG	NE-CZ-NH1	7.62	124.11	120.30
1	L	90	ASP	N-CA-CB	-7.62	96.89	110.60
1	A	90	ASP	N-CA-CB	-7.60	96.93	110.60
1	I	90	ASP	N-CA-CB	-7.60	96.93	110.60
1	B	88	ARG	NH1-CZ-NH2	-7.59	111.05	119.40
1	H	90	ASP	N-CA-CB	-7.59	96.93	110.60
1	J	90	ASP	N-CA-CB	-7.59	96.94	110.60
1	F	447	ARG	NE-CZ-NH1	7.59	124.09	120.30
1	L	339	ARG	NE-CZ-NH1	7.59	124.09	120.30
1	B	90	ASP	N-CA-CB	-7.58	96.95	110.60
1	B	122	ASP	CA-CB-CG	-7.58	96.71	113.40
1	D	122	ASP	CA-CB-CG	-7.58	96.72	113.40
1	F	90	ASP	N-CA-CB	-7.58	96.95	110.60
1	K	90	ASP	N-CA-CB	-7.58	96.96	110.60
1	G	122	ASP	CA-CB-CG	-7.57	96.75	113.40
1	H	447	ARG	NE-CZ-NH1	7.57	124.08	120.30
1	I	122	ASP	CA-CB-CG	-7.57	96.75	113.40
1	J	122	ASP	CA-CB-CG	-7.56	96.76	113.40
1	G	90	ASP	N-CA-CB	-7.56	96.99	110.60
1	G	339	ARG	NE-CZ-NH1	7.56	124.08	120.30
1	H	122	ASP	CA-CB-CG	-7.56	96.78	113.40
1	F	122	ASP	CA-CB-CG	-7.56	96.78	113.40
1	C	122	ASP	CA-CB-CG	-7.55	96.78	113.40
1	A	122	ASP	CA-CB-CG	-7.55	96.79	113.40
1	E	90	ASP	N-CA-CB	-7.55	97.01	110.60
1	L	122	ASP	CA-CB-CG	-7.55	96.80	113.40
1	K	122	ASP	CA-CB-CG	-7.54	96.82	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	339	ARG	NE-CZ-NH1	7.52	124.06	120.30
1	C	447	ARG	NE-CZ-NH1	7.52	124.06	120.30
1	I	339	ARG	NE-CZ-NH1	7.52	124.06	120.30
1	E	122	ASP	CA-CB-CG	-7.51	96.87	113.40
1	E	88	ARG	NH1-CZ-NH2	-7.50	111.15	119.40
1	H	88	ARG	NH1-CZ-NH2	-7.50	111.15	119.40
1	J	447	ARG	NE-CZ-NH1	7.50	124.05	120.30
1	J	41	GLU	CA-C-N	-7.50	100.70	117.20
1	C	41	GLU	CA-C-N	-7.50	100.71	117.20
1	I	88	ARG	NH1-CZ-NH2	-7.50	111.16	119.40
1	K	88	ARG	NH1-CZ-NH2	-7.49	111.16	119.40
1	D	447	ARG	NE-CZ-NH1	7.49	124.04	120.30
1	A	88	ARG	NH1-CZ-NH2	-7.48	111.17	119.40
1	D	90	ASP	C-N-CA	-7.48	103.00	121.70
1	L	248	ARG	NE-CZ-NH2	-7.48	116.56	120.30
1	F	88	ARG	NH1-CZ-NH2	-7.48	111.18	119.40
1	J	248	ARG	NE-CZ-NH2	-7.47	116.56	120.30
1	I	90	ASP	C-N-CA	-7.47	103.02	121.70
1	E	41	GLU	CA-C-N	-7.47	100.77	117.20
1	E	465	TYR	CA-CB-CG	-7.47	99.21	113.40
1	L	88	ARG	NH1-CZ-NH2	-7.46	111.19	119.40
1	K	248	ARG	NE-CZ-NH2	-7.46	116.57	120.30
1	B	90	ASP	C-N-CA	-7.46	103.05	121.70
1	C	90	ASP	C-N-CA	-7.46	103.06	121.70
1	I	41	GLU	CA-C-N	-7.46	100.80	117.20
1	D	88	ARG	NH1-CZ-NH2	-7.46	111.20	119.40
1	E	90	ASP	C-N-CA	-7.45	103.06	121.70
1	J	90	ASP	C-N-CA	-7.45	103.07	121.70
1	J	465	TYR	CA-CB-CG	-7.45	99.24	113.40
1	A	90	ASP	C-N-CA	-7.45	103.08	121.70
1	B	339	ARG	NE-CZ-NH1	7.45	124.02	120.30
1	D	41	GLU	CA-C-N	-7.45	100.81	117.20
1	K	41	GLU	CA-C-N	-7.45	100.81	117.20
1	G	88	ARG	NH1-CZ-NH2	-7.45	111.21	119.40
1	H	90	ASP	C-N-CA	-7.45	103.08	121.70
1	G	41	GLU	CA-C-N	-7.44	100.83	117.20
1	L	90	ASP	C-N-CA	-7.44	103.11	121.70
1	B	41	GLU	CA-C-N	-7.43	100.85	117.20
1	G	465	TYR	CA-CB-CG	-7.43	99.28	113.40
1	H	78	PRO	C-N-CA	7.43	140.28	121.70
1	I	465	TYR	CA-CB-CG	-7.43	99.28	113.40
1	L	41	GLU	CA-C-N	-7.43	100.85	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	465	TYR	CA-CB-CG	-7.43	99.28	113.40
1	F	90	ASP	C-N-CA	-7.43	103.13	121.70
1	F	41	GLU	CA-C-N	-7.42	100.87	117.20
1	H	41	GLU	CA-C-N	-7.42	100.87	117.20
1	J	88	ARG	NH1-CZ-NH2	-7.42	111.23	119.40
1	K	90	ASP	C-N-CA	-7.42	103.14	121.70
1	A	41	GLU	CA-C-N	-7.42	100.87	117.20
1	H	465	TYR	CA-CB-CG	-7.42	99.30	113.40
1	A	248	ARG	NE-CZ-NH2	-7.42	116.59	120.30
1	B	78	PRO	C-N-CA	7.42	140.24	121.70
1	G	90	ASP	C-N-CA	-7.42	103.15	121.70
1	D	465	TYR	CA-CB-CG	-7.42	99.31	113.40
1	F	465	TYR	CA-CB-CG	-7.41	99.31	113.40
1	L	17	VAL	N-CA-CB	-7.41	95.19	111.50
1	A	465	TYR	CA-CB-CG	-7.41	99.32	113.40
1	F	17	VAL	N-CA-CB	-7.41	95.21	111.50
1	L	465	TYR	CA-CB-CG	-7.40	99.33	113.40
1	B	21	PHE	CA-CB-CG	7.40	131.66	113.90
1	C	465	TYR	CA-CB-CG	-7.40	99.33	113.40
1	I	21	PHE	CA-CB-CG	7.40	131.67	113.90
1	G	17	VAL	N-CA-CB	-7.40	95.22	111.50
1	C	88	ARG	NH1-CZ-NH2	-7.40	111.26	119.40
1	G	21	PHE	CA-CB-CG	7.40	131.65	113.90
1	A	17	VAL	N-CA-CB	-7.39	95.23	111.50
1	D	21	PHE	CA-CB-CG	7.39	131.65	113.90
1	E	248	ARG	NE-CZ-NH2	-7.39	116.61	120.30
1	E	21	PHE	CA-CB-CG	7.38	131.62	113.90
1	A	78	PRO	C-N-CA	7.38	140.16	121.70
1	G	78	PRO	C-N-CA	7.38	140.15	121.70
1	H	17	VAL	N-CA-CB	-7.38	95.26	111.50
1	C	17	VAL	N-CA-CB	-7.38	95.27	111.50
1	E	17	VAL	N-CA-CB	-7.38	95.27	111.50
1	F	78	PRO	C-N-CA	7.38	140.14	121.70
1	I	17	VAL	N-CA-CB	-7.38	95.27	111.50
1	A	21	PHE	CA-CB-CG	7.38	131.60	113.90
1	J	21	PHE	CA-CB-CG	7.38	131.60	113.90
1	K	17	VAL	N-CA-CB	-7.38	95.27	111.50
1	L	21	PHE	CA-CB-CG	7.38	131.60	113.90
1	D	339	ARG	NE-CZ-NH1	7.37	123.99	120.30
1	L	78	PRO	C-N-CA	7.37	140.13	121.70
1	J	17	VAL	N-CA-CB	-7.37	95.28	111.50
1	G	248	ARG	NE-CZ-NH2	-7.37	116.62	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	78	PRO	C-N-CA	7.37	140.11	121.70
1	B	465	TYR	CA-CB-CG	-7.36	99.41	113.40
1	D	78	PRO	C-N-CA	7.36	140.11	121.70
1	D	17	VAL	N-CA-CB	-7.36	95.31	111.50
1	J	78	PRO	C-N-CA	7.36	140.10	121.70
1	B	17	VAL	N-CA-CB	-7.36	95.31	111.50
1	C	21	PHE	CA-CB-CG	7.36	131.56	113.90
1	K	21	PHE	CA-CB-CG	7.35	131.54	113.90
1	C	78	PRO	C-N-CA	7.35	140.07	121.70
1	I	78	PRO	C-N-CA	7.35	140.07	121.70
1	F	21	PHE	CA-CB-CG	7.34	131.52	113.90
1	L	316	THR	N-CA-CB	-7.34	96.35	110.30
1	H	21	PHE	CA-CB-CG	7.34	131.51	113.90
1	E	78	PRO	C-N-CA	7.34	140.04	121.70
1	E	316	THR	N-CA-CB	-7.33	96.37	110.30
1	K	403	GLU	CG-CD-OE1	7.33	132.96	118.30
1	F	248	ARG	NE-CZ-NH2	-7.33	116.64	120.30
1	B	316	THR	N-CA-CB	-7.32	96.39	110.30
1	F	316	THR	N-CA-CB	-7.32	96.39	110.30
1	G	403	GLU	CG-CD-OE1	7.32	132.94	118.30
1	A	403	GLU	CG-CD-OE1	7.32	132.94	118.30
1	K	316	THR	N-CA-CB	-7.31	96.42	110.30
1	H	248	ARG	NE-CZ-NH2	-7.30	116.65	120.30
1	I	403	GLU	CG-CD-OE1	7.30	132.90	118.30
1	J	316	THR	N-CA-CB	-7.30	96.43	110.30
1	I	403	GLU	OE1-CD-OE2	-7.30	114.55	123.30
1	F	403	GLU	CG-CD-OE1	7.29	132.88	118.30
1	H	403	GLU	CG-CD-OE1	7.29	132.88	118.30
1	C	316	THR	N-CA-CB	-7.29	96.45	110.30
1	E	403	GLU	CG-CD-OE1	7.29	132.88	118.30
1	G	316	THR	N-CA-CB	-7.29	96.46	110.30
1	I	316	THR	N-CA-CB	-7.28	96.46	110.30
1	J	403	GLU	CG-CD-OE1	7.28	132.86	118.30
1	D	403	GLU	CG-CD-OE1	7.28	132.86	118.30
1	D	316	THR	N-CA-CB	-7.28	96.47	110.30
1	A	316	THR	N-CA-CB	-7.28	96.48	110.30
1	I	116	ARG	CD-NE-CZ	-7.28	113.42	123.60
1	B	403	GLU	CG-CD-OE1	7.27	132.85	118.30
1	K	403	GLU	OE1-CD-OE2	-7.27	114.57	123.30
1	K	116	ARG	CD-NE-CZ	-7.27	113.42	123.60
1	C	403	GLU	CG-CD-OE1	7.26	132.83	118.30
1	I	248	ARG	NE-CZ-NH2	-7.26	116.67	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	116	ARG	CD-NE-CZ	-7.26	113.43	123.60
1	B	315	THR	CA-C-N	-7.26	101.23	117.20
1	H	316	THR	N-CA-CB	-7.26	96.51	110.30
1	D	248	ARG	NE-CZ-NH2	-7.25	116.67	120.30
1	C	403	GLU	OE1-CD-OE2	-7.25	114.60	123.30
1	L	116	ARG	CD-NE-CZ	-7.25	113.45	123.60
1	A	403	GLU	OE1-CD-OE2	-7.25	114.60	123.30
1	E	116	ARG	CD-NE-CZ	-7.25	113.46	123.60
1	J	315	THR	CA-C-N	-7.25	101.26	117.20
1	B	403	GLU	OE1-CD-OE2	-7.25	114.61	123.30
1	L	403	GLU	CG-CD-OE1	7.25	132.79	118.30
1	G	116	ARG	CD-NE-CZ	-7.24	113.46	123.60
1	E	315	THR	CA-C-N	-7.24	101.27	117.20
1	F	403	GLU	OE1-CD-OE2	-7.23	114.62	123.30
1	G	403	GLU	OE1-CD-OE2	-7.23	114.62	123.30
1	D	403	GLU	OE1-CD-OE2	-7.23	114.63	123.30
1	B	396	LEU	C-N-CA	7.23	139.76	121.70
1	H	116	ARG	CD-NE-CZ	-7.23	113.48	123.60
1	I	315	THR	CA-C-N	-7.23	101.30	117.20
1	A	315	THR	CA-C-N	-7.22	101.31	117.20
1	D	116	ARG	CD-NE-CZ	-7.22	113.49	123.60
1	A	116	ARG	CD-NE-CZ	-7.22	113.49	123.60
1	C	315	THR	CA-C-N	-7.22	101.31	117.20
1	I	396	LEU	C-N-CA	7.22	139.75	121.70
1	K	315	THR	CA-C-N	-7.22	101.33	117.20
1	H	315	THR	CA-C-N	-7.21	101.34	117.20
1	L	396	LEU	C-N-CA	7.21	139.73	121.70
1	H	403	GLU	OE1-CD-OE2	-7.21	114.65	123.30
1	C	116	ARG	CD-NE-CZ	-7.21	113.51	123.60
1	J	116	ARG	CD-NE-CZ	-7.21	113.51	123.60
1	K	105	ARG	CD-NE-CZ	7.21	133.69	123.60
1	F	396	LEU	C-N-CA	7.21	139.71	121.70
1	J	403	GLU	OE1-CD-OE2	-7.21	114.65	123.30
1	G	315	THR	CA-C-N	-7.21	101.35	117.20
1	A	396	LEU	C-N-CA	7.20	139.71	121.70
1	D	315	THR	CA-C-N	-7.20	101.36	117.20
1	D	105	ARG	CD-NE-CZ	7.20	133.68	123.60
1	F	315	THR	CA-C-N	-7.19	101.38	117.20
1	L	315	THR	CA-C-N	-7.19	101.38	117.20
1	B	116	ARG	CD-NE-CZ	-7.19	113.54	123.60
1	D	396	LEU	C-N-CA	7.19	139.67	121.70
1	C	396	LEU	C-N-CA	7.19	139.67	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	105	ARG	CD-NE-CZ	7.19	133.66	123.60
1	L	179	TYR	CA-CB-CG	-7.18	99.76	113.40
1	E	403	GLU	OE1-CD-OE2	-7.17	114.69	123.30
1	H	396	LEU	C-N-CA	7.17	139.64	121.70
1	L	105	ARG	CD-NE-CZ	7.17	133.64	123.60
1	G	396	LEU	C-N-CA	7.17	139.63	121.70
1	E	396	LEU	C-N-CA	7.17	139.63	121.70
1	A	179	TYR	CA-CB-CG	-7.17	99.78	113.40
1	D	179	TYR	CA-CB-CG	-7.17	99.78	113.40
1	J	179	TYR	CA-CB-CG	-7.17	99.78	113.40
1	C	105	ARG	CD-NE-CZ	7.17	133.63	123.60
1	F	179	TYR	CA-CB-CG	-7.16	99.80	113.40
1	A	105	ARG	CD-NE-CZ	7.16	133.62	123.60
1	J	396	LEU	C-N-CA	7.16	139.59	121.70
1	B	179	TYR	CA-CB-CG	-7.16	99.80	113.40
1	K	396	LEU	C-N-CA	7.16	139.59	121.70
1	E	105	ARG	CD-NE-CZ	7.15	133.61	123.60
1	E	179	TYR	CA-CB-CG	-7.14	99.83	113.40
1	G	105	ARG	CD-NE-CZ	7.14	133.60	123.60
1	L	403	GLU	OE1-CD-OE2	-7.14	114.73	123.30
1	H	287	TYR	CB-CG-CD1	-7.13	116.72	121.00
1	F	399	LEU	N-CA-CB	7.12	124.65	110.40
1	C	179	TYR	CA-CB-CG	-7.12	99.87	113.40
1	H	179	TYR	CA-CB-CG	-7.12	99.87	113.40
1	I	105	ARG	CD-NE-CZ	7.12	133.57	123.60
1	I	179	TYR	CA-CB-CG	-7.12	99.87	113.40
1	K	179	TYR	CA-CB-CG	-7.12	99.87	113.40
1	H	105	ARG	CD-NE-CZ	7.12	133.57	123.60
1	D	399	LEU	N-CA-CB	7.12	124.63	110.40
1	G	179	TYR	CA-CB-CG	-7.12	99.88	113.40
1	B	399	LEU	N-CA-CB	7.11	124.63	110.40
1	C	228	MET	CB-CA-C	7.11	124.63	110.40
1	B	105	ARG	CD-NE-CZ	7.11	133.55	123.60
1	C	287	TYR	CB-CG-CD1	-7.10	116.74	121.00
1	K	399	LEU	N-CA-CB	7.10	124.59	110.40
1	J	105	ARG	CD-NE-CZ	7.09	133.53	123.60
1	C	399	LEU	N-CA-CB	7.09	124.58	110.40
1	E	67	LEU	CB-CA-C	7.09	123.67	110.20
1	H	399	LEU	N-CA-CB	7.09	124.58	110.40
1	F	228	MET	CB-CA-C	7.08	124.56	110.40
1	L	228	MET	CB-CA-C	7.08	124.56	110.40
1	A	399	LEU	N-CA-CB	7.08	124.55	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	287	TYR	CB-CG-CD1	-7.08	116.75	121.00
1	I	228	MET	CB-CA-C	7.07	124.55	110.40
1	I	446	ARG	NE-CZ-NH2	-7.07	116.76	120.30
1	D	228	MET	CB-CA-C	7.07	124.54	110.40
1	D	287	TYR	CB-CG-CD1	-7.07	116.76	121.00
1	G	399	LEU	N-CA-CB	7.06	124.53	110.40
1	J	399	LEU	N-CA-CB	7.06	124.52	110.40
1	I	399	LEU	N-CA-CB	7.06	124.51	110.40
1	K	228	MET	CB-CA-C	7.05	124.50	110.40
1	B	67	LEU	CB-CA-C	7.05	123.59	110.20
1	H	67	LEU	CB-CA-C	7.05	123.59	110.20
1	D	67	LEU	CB-CA-C	7.04	123.58	110.20
1	K	67	LEU	CB-CA-C	7.04	123.58	110.20
1	A	228	MET	CB-CA-C	7.04	124.47	110.40
1	E	228	MET	CB-CA-C	7.03	124.46	110.40
1	J	67	LEU	CB-CA-C	7.03	123.56	110.20
1	J	446	ARG	NE-CZ-NH2	-7.03	116.79	120.30
1	E	399	LEU	N-CA-CB	7.03	124.45	110.40
1	C	67	LEU	CB-CA-C	7.02	123.54	110.20
1	H	228	MET	CB-CA-C	7.02	124.44	110.40
1	D	449	GLU	OE1-CD-OE2	7.02	131.72	123.30
1	L	287	TYR	CB-CG-CD1	-7.01	116.79	121.00
1	J	228	MET	CB-CA-C	7.01	124.42	110.40
1	G	228	MET	CB-CA-C	7.01	124.41	110.40
1	L	67	LEU	CB-CA-C	7.01	123.51	110.20
1	A	67	LEU	CB-CA-C	7.00	123.50	110.20
1	H	449	GLU	OE1-CD-OE2	7.00	131.70	123.30
1	I	287	TYR	CB-CG-CD1	-7.00	116.80	121.00
1	F	67	LEU	CB-CA-C	7.00	123.50	110.20
1	G	67	LEU	CB-CA-C	7.00	123.50	110.20
1	L	399	LEU	N-CA-CB	7.00	124.41	110.40
1	A	287	TYR	CB-CG-CD1	-7.00	116.80	121.00
1	B	449	GLU	OE1-CD-OE2	7.00	131.70	123.30
1	K	449	GLU	OE1-CD-OE2	7.00	131.70	123.30
1	B	228	MET	CB-CA-C	6.99	124.39	110.40
1	F	449	GLU	OE1-CD-OE2	6.99	131.68	123.30
1	D	446	ARG	NE-CZ-NH2	-6.98	116.81	120.30
1	E	287	TYR	CB-CG-CD1	-6.97	116.82	121.00
1	I	67	LEU	CB-CA-C	6.97	123.45	110.20
1	L	449	GLU	OE1-CD-OE2	6.97	131.67	123.30
1	F	155	GLU	CB-CG-CD	6.97	133.01	114.20
1	E	85	LEU	CB-CA-C	6.96	123.43	110.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	446	ARG	NE-CZ-NH2	-6.96	116.82	120.30
1	G	155	GLU	CB-CG-CD	6.96	132.98	114.20
1	C	446	ARG	NE-CZ-NH2	-6.95	116.83	120.30
1	I	155	GLU	CB-CG-CD	6.95	132.96	114.20
1	A	155	GLU	CB-CG-CD	6.94	132.94	114.20
1	J	155	GLU	CB-CG-CD	6.94	132.94	114.20
1	G	287	TYR	CB-CG-CD1	-6.94	116.84	121.00
1	L	85	LEU	CB-CA-C	6.94	123.39	110.20
1	K	155	GLU	CB-CG-CD	6.94	132.94	114.20
1	D	155	GLU	CB-CG-CD	6.94	132.93	114.20
1	E	155	GLU	CB-CG-CD	6.94	132.93	114.20
1	L	155	GLU	CB-CG-CD	6.94	132.93	114.20
1	C	449	GLU	OE1-CD-OE2	6.94	131.62	123.30
1	B	155	GLU	CB-CG-CD	6.92	132.90	114.20
1	A	449	GLU	OE1-CD-OE2	6.92	131.60	123.30
1	B	287	TYR	CB-CG-CD1	-6.92	116.85	121.00
1	G	85	LEU	CB-CA-C	6.92	123.35	110.20
1	H	155	GLU	CB-CG-CD	6.92	132.88	114.20
1	I	449	GLU	OE1-CD-OE2	6.92	131.60	123.30
1	K	287	TYR	CB-CG-CD1	-6.92	116.85	121.00
1	C	155	GLU	CB-CG-CD	6.92	132.87	114.20
1	J	449	GLU	OE1-CD-OE2	6.92	131.60	123.30
1	K	85	LEU	CB-CA-C	6.91	123.33	110.20
1	K	18	ASP	CB-CG-OD2	-6.91	112.08	118.30
1	F	446	ARG	NE-CZ-NH2	-6.91	116.85	120.30
1	E	449	GLU	OE1-CD-OE2	6.90	131.58	123.30
1	G	449	GLU	OE1-CD-OE2	6.90	131.58	123.30
1	J	85	LEU	CB-CA-C	6.90	123.31	110.20
1	A	85	LEU	CB-CA-C	6.90	123.30	110.20
1	C	85	LEU	CB-CA-C	6.89	123.28	110.20
1	D	85	LEU	CB-CA-C	6.88	123.28	110.20
1	E	253	ALA	CB-CA-C	6.88	120.42	110.10
1	H	86	ILE	CB-CA-C	-6.87	97.85	111.60
1	F	85	LEU	CB-CA-C	6.87	123.25	110.20
1	C	253	ALA	CB-CA-C	6.87	120.40	110.10
1	L	253	ALA	CB-CA-C	6.87	120.40	110.10
1	A	446	ARG	NE-CZ-NH2	-6.87	116.87	120.30
1	F	253	ALA	CB-CA-C	6.87	120.40	110.10
1	B	85	LEU	CB-CA-C	6.86	123.24	110.20
1	E	90	ASP	CA-CB-CG	-6.86	98.30	113.40
1	G	90	ASP	CA-CB-CG	-6.86	98.30	113.40
1	I	85	LEU	CB-CA-C	6.86	123.24	110.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	18	ASP	CB-CG-OD2	-6.86	112.13	118.30
1	F	422	ASP	CB-CG-OD1	6.86	124.47	118.30
1	G	86	ILE	CB-CA-C	-6.86	97.89	111.60
1	G	18	ASP	CB-CG-OD2	-6.85	112.13	118.30
1	I	86	ILE	CB-CA-C	-6.85	97.90	111.60
1	K	253	ALA	CB-CA-C	6.85	120.38	110.10
1	H	90	ASP	CA-CB-CG	-6.85	98.33	113.40
1	H	192	ARG	NE-CZ-NH2	-6.85	116.88	120.30
1	A	253	ALA	CB-CA-C	6.85	120.37	110.10
1	D	253	ALA	CB-CA-C	6.85	120.37	110.10
1	L	446	ARG	NE-CZ-NH2	-6.85	116.88	120.30
1	B	86	ILE	CB-CA-C	-6.85	97.91	111.60
1	G	253	ALA	CB-CA-C	6.84	120.37	110.10
1	B	253	ALA	CB-CA-C	6.84	120.36	110.10
1	A	86	ILE	CB-CA-C	-6.84	97.92	111.60
1	E	86	ILE	CB-CA-C	-6.84	97.92	111.60
1	J	86	ILE	CB-CA-C	-6.84	97.92	111.60
1	H	85	LEU	CB-CA-C	6.83	123.19	110.20
1	F	287	TYR	CB-CG-CD1	-6.83	116.90	121.00
1	L	172	ARG	CD-NE-CZ	6.83	133.17	123.60
1	F	86	ILE	CB-CA-C	-6.83	97.94	111.60
1	L	86	ILE	CB-CA-C	-6.83	97.94	111.60
1	J	253	ALA	CB-CA-C	6.83	120.34	110.10
1	D	86	ILE	CB-CA-C	-6.83	97.94	111.60
1	F	90	ASP	CA-CB-CG	-6.83	98.38	113.40
1	A	90	ASP	CA-CB-CG	-6.83	98.38	113.40
1	C	422	ASP	CB-CG-OD1	6.83	124.44	118.30
1	I	90	ASP	CA-CB-CG	-6.83	98.38	113.40
1	B	90	ASP	CA-CB-CG	-6.82	98.39	113.40
1	L	90	ASP	CA-CB-CG	-6.82	98.40	113.40
1	A	422	ASP	CB-CG-OD1	6.82	124.44	118.30
1	E	422	ASP	CB-CG-OD1	6.82	124.44	118.30
1	F	91	ILE	N-CA-C	-6.82	92.59	111.00
1	K	86	ILE	CB-CA-C	-6.82	97.96	111.60
1	H	91	ILE	N-CA-C	-6.81	92.60	111.00
1	L	270	CYS	N-CA-CB	6.81	122.86	110.60
1	F	77	ASP	CB-CG-OD1	6.81	124.43	118.30
1	H	446	ARG	NE-CZ-NH2	-6.81	116.89	120.30
1	I	253	ALA	CB-CA-C	6.81	120.32	110.10
1	C	90	ASP	CA-CB-CG	-6.81	98.42	113.40
1	K	270	CYS	N-CA-CB	6.81	122.86	110.60
1	B	446	ARG	NE-CZ-NH2	-6.80	116.90	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	91	ILE	N-CA-C	-6.80	92.63	111.00
1	J	90	ASP	CA-CB-CG	-6.80	98.43	113.40
1	K	422	ASP	CB-CG-OD1	6.80	124.42	118.30
1	G	91	ILE	N-CA-C	-6.80	92.64	111.00
1	L	422	ASP	CB-CG-OD1	6.80	124.42	118.30
1	D	90	ASP	CA-CB-CG	-6.80	98.45	113.40
1	H	253	ALA	CB-CA-C	6.80	120.29	110.10
1	K	90	ASP	CA-CB-CG	-6.80	98.45	113.40
1	C	86	ILE	CB-CA-C	-6.79	98.01	111.60
1	C	77	ASP	CB-CG-OD1	6.79	124.41	118.30
1	G	446	ARG	NE-CZ-NH2	-6.79	116.90	120.30
1	K	91	ILE	N-CA-C	-6.79	92.66	111.00
1	E	18	ASP	CB-CG-OD2	-6.79	112.19	118.30
1	F	270	CYS	N-CA-CB	6.79	122.83	110.60
1	J	91	ILE	N-CA-C	-6.79	92.66	111.00
1	H	270	CYS	N-CA-CB	6.79	122.82	110.60
1	E	77	ASP	CB-CG-OD1	6.79	124.41	118.30
1	I	77	ASP	CB-CG-OD1	6.79	124.41	118.30
1	K	172	ARG	CD-NE-CZ	6.79	133.10	123.60
1	A	18	ASP	CB-CG-OD2	-6.78	112.19	118.30
1	B	172	ARG	CD-NE-CZ	6.78	133.10	123.60
1	J	270	CYS	N-CA-CB	6.78	122.81	110.60
1	C	18	ASP	CB-CG-OD2	-6.78	112.20	118.30
1	I	192	ARG	NE-CZ-NH2	-6.78	116.91	120.30
1	B	270	CYS	N-CA-CB	6.78	122.81	110.60
1	D	18	ASP	CB-CG-OD2	-6.78	112.20	118.30
1	J	422	ASP	CB-CG-OD1	6.78	124.40	118.30
1	D	91	ILE	N-CA-C	-6.78	92.70	111.00
1	L	91	ILE	N-CA-C	-6.78	92.70	111.00
1	A	91	ILE	N-CA-C	-6.78	92.71	111.00
1	I	270	CYS	N-CA-CB	6.78	122.80	110.60
1	K	446	ARG	NE-CZ-NH2	-6.77	116.91	120.30
1	E	172	ARG	CD-NE-CZ	6.77	133.08	123.60
1	A	270	CYS	N-CA-CB	6.77	122.79	110.60
1	B	91	ILE	N-CA-C	-6.77	92.73	111.00
1	E	91	ILE	N-CA-C	-6.77	92.73	111.00
1	H	18	ASP	CB-CG-OD2	-6.77	112.21	118.30
1	I	172	ARG	CD-NE-CZ	6.77	133.07	123.60
1	G	270	CYS	N-CA-CB	6.77	122.78	110.60
1	C	91	ILE	N-CA-C	-6.76	92.74	111.00
1	K	366	ASN	O-C-N	6.76	133.95	121.10
1	E	315	THR	CA-CB-OG1	6.76	123.19	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	60	ILE	N-CA-CB	6.76	126.34	110.80
1	A	172	ARG	CD-NE-CZ	6.75	133.06	123.60
1	C	60	ILE	N-CA-CB	6.75	126.34	110.80
1	D	366	ASN	O-C-N	6.75	133.93	121.10
1	D	270	CYS	N-CA-CB	6.75	122.75	110.60
1	H	172	ARG	CD-NE-CZ	6.75	133.05	123.60
1	F	18	ASP	CB-CG-OD2	-6.74	112.23	118.30
1	I	18	ASP	CB-CG-OD2	-6.74	112.23	118.30
1	K	315	THR	CA-CB-OG1	6.74	123.16	109.00
1	C	270	CYS	N-CA-CB	6.74	122.73	110.60
1	A	60	ILE	N-CA-CB	6.74	126.29	110.80
1	A	77	ASP	CB-CG-OD1	6.74	124.36	118.30
1	I	366	ASN	O-C-N	6.74	133.90	121.10
1	K	60	ILE	N-CA-CB	6.74	126.29	110.80
1	L	77	ASP	CB-CG-OD1	6.73	124.36	118.30
1	G	60	ILE	N-CA-CB	6.73	126.28	110.80
1	G	192	ARG	NE-CZ-NH2	-6.73	116.93	120.30
1	C	465	TYR	CB-CA-C	6.73	123.86	110.40
1	I	465	TYR	CB-CA-C	6.73	123.85	110.40
1	D	60	ILE	N-CA-CB	6.73	126.27	110.80
1	B	192	ARG	NE-CZ-NH2	-6.72	116.94	120.30
1	B	465	TYR	CB-CA-C	6.72	123.85	110.40
1	H	60	ILE	N-CA-CB	6.72	126.27	110.80
1	B	18	ASP	CB-CG-OD2	-6.72	112.25	118.30
1	K	192	ARG	NE-CZ-NH2	-6.72	116.94	120.30
1	B	422	ASP	CB-CG-OD1	6.72	124.35	118.30
1	G	315	THR	CA-CB-OG1	6.72	123.11	109.00
1	C	315	THR	CA-CB-OG1	6.72	123.11	109.00
1	F	172	ARG	CD-NE-CZ	6.72	133.01	123.60
1	D	172	ARG	CD-NE-CZ	6.72	133.00	123.60
1	F	366	ASN	O-C-N	6.72	133.86	121.10
1	L	366	ASN	O-C-N	6.72	133.86	121.10
1	E	270	CYS	N-CA-CB	6.71	122.69	110.60
1	D	422	ASP	CB-CG-OD1	6.71	124.34	118.30
1	G	465	TYR	CB-CA-C	6.71	123.82	110.40
1	D	77	ASP	CB-CG-OD1	6.71	124.34	118.30
1	H	77	ASP	CB-CG-OD1	6.71	124.33	118.30
1	A	315	THR	CA-CB-OG1	6.70	123.08	109.00
1	B	315	THR	CA-CB-OG1	6.70	123.08	109.00
1	E	192	ARG	NE-CZ-NH2	-6.70	116.95	120.30
1	K	465	TYR	CB-CA-C	6.70	123.80	110.40
1	D	315	THR	CA-CB-OG1	6.70	123.06	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	60	ILE	N-CA-CB	6.70	126.20	110.80
1	G	77	ASP	CB-CG-OD1	6.70	124.33	118.30
1	B	60	ILE	N-CA-CB	6.70	126.20	110.80
1	G	422	ASP	CB-CG-OD1	6.69	124.33	118.30
1	C	366	ASN	O-C-N	6.69	133.81	121.10
1	F	315	THR	CA-CB-OG1	6.69	123.05	109.00
1	L	465	TYR	CB-CA-C	6.69	123.78	110.40
1	I	315	THR	CA-CB-OG1	6.69	123.04	109.00
1	J	315	THR	CA-CB-OG1	6.69	123.04	109.00
1	K	77	ASP	CB-CG-OD1	6.69	124.32	118.30
1	D	465	TYR	CB-CA-C	6.68	123.77	110.40
1	H	465	TYR	CB-CA-C	6.68	123.77	110.40
1	J	465	TYR	CB-CA-C	6.68	123.77	110.40
1	A	465	TYR	CB-CA-C	6.68	123.77	110.40
1	H	315	THR	CA-CB-OG1	6.68	123.03	109.00
1	I	60	ILE	N-CA-CB	6.68	126.17	110.80
1	J	172	ARG	CD-NE-CZ	6.68	132.96	123.60
1	B	77	ASP	CB-CG-OD1	6.68	124.31	118.30
1	C	172	ARG	CD-NE-CZ	6.68	132.95	123.60
1	E	60	ILE	N-CA-CB	6.68	126.16	110.80
1	L	18	ASP	CB-CG-OD2	-6.67	112.29	118.30
1	L	315	THR	CA-CB-OG1	6.67	123.02	109.00
1	J	77	ASP	CB-CG-OD1	6.67	124.30	118.30
1	C	192	ARG	NE-CZ-NH2	-6.67	116.97	120.30
1	L	60	ILE	N-CA-CB	6.67	126.14	110.80
1	A	366	ASN	O-C-N	6.67	133.76	121.10
1	J	366	ASN	O-C-N	6.67	133.76	121.10
1	E	465	TYR	CB-CA-C	6.66	123.73	110.40
1	G	172	ARG	CD-NE-CZ	6.66	132.93	123.60
1	D	139	ARG	CD-NE-CZ	6.66	132.92	123.60
1	B	366	ASN	O-C-N	6.65	133.74	121.10
1	H	422	ASP	CB-CG-OD1	6.65	124.28	118.30
1	H	366	ASN	O-C-N	6.65	133.73	121.10
1	F	465	TYR	CB-CA-C	6.65	123.69	110.40
1	E	366	ASN	O-C-N	6.64	133.72	121.10
1	L	192	ARG	NE-CZ-NH2	-6.64	116.98	120.30
1	G	366	ASN	O-C-N	6.64	133.71	121.10
1	I	355	ARG	CD-NE-CZ	-6.63	114.31	123.60
1	J	192	ARG	NE-CZ-NH2	-6.63	116.98	120.30
1	L	355	ARG	CD-NE-CZ	-6.62	114.33	123.60
1	D	355	ARG	CD-NE-CZ	-6.62	114.33	123.60
1	F	355	ARG	CD-NE-CZ	-6.62	114.33	123.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	355	ARG	CD-NE-CZ	-6.62	114.33	123.60
1	J	355	ARG	CD-NE-CZ	-6.62	114.33	123.60
1	F	155	GLU	CA-CB-CG	6.61	127.94	113.40
1	E	155	GLU	CA-CB-CG	6.60	127.91	113.40
1	C	355	ARG	CD-NE-CZ	-6.60	114.37	123.60
1	E	355	ARG	CD-NE-CZ	-6.59	114.37	123.60
1	I	422	ASP	CB-CG-OD1	6.59	124.24	118.30
1	L	155	GLU	CA-CB-CG	6.59	127.91	113.40
1	G	155	GLU	CA-CB-CG	6.59	127.91	113.40
1	A	192	ARG	NE-CZ-NH2	-6.59	117.00	120.30
1	I	139	ARG	CD-NE-CZ	6.59	132.83	123.60
1	I	155	GLU	CA-CB-CG	6.59	127.90	113.40
1	A	155	GLU	CA-CB-CG	6.59	127.89	113.40
1	F	139	ARG	CD-NE-CZ	6.59	132.82	123.60
1	A	355	ARG	CD-NE-CZ	-6.58	114.39	123.60
1	J	155	GLU	CA-CB-CG	6.58	127.88	113.40
1	D	155	GLU	CA-CB-CG	6.58	127.88	113.40
1	K	155	GLU	CA-CB-CG	6.58	127.87	113.40
1	G	355	ARG	CD-NE-CZ	-6.58	114.39	123.60
1	B	355	ARG	CD-NE-CZ	-6.58	114.39	123.60
1	C	139	ARG	CD-NE-CZ	6.57	132.80	123.60
1	K	355	ARG	CD-NE-CZ	-6.57	114.40	123.60
1	B	155	GLU	CA-CB-CG	6.57	127.85	113.40
1	L	139	ARG	CD-NE-CZ	6.57	132.80	123.60
1	H	155	GLU	CA-CB-CG	6.57	127.85	113.40
1	C	155	GLU	CA-CB-CG	6.56	127.83	113.40
1	G	139	ARG	CD-NE-CZ	6.56	132.78	123.60
1	J	139	ARG	CD-NE-CZ	6.55	132.78	123.60
1	H	156	GLY	N-CA-C	-6.55	96.72	113.10
1	B	57	TRP	N-CA-CB	6.55	122.39	110.60
1	K	57	TRP	N-CA-CB	6.54	122.38	110.60
1	C	57	TRP	N-CA-CB	6.54	122.38	110.60
1	L	57	TRP	N-CA-CB	6.54	122.37	110.60
1	K	166	GLY	C-N-CA	6.54	136.03	122.30
1	A	57	TRP	N-CA-CB	6.54	122.36	110.60
1	B	156	GLY	N-CA-C	-6.54	96.76	113.10
1	A	139	ARG	CD-NE-CZ	6.53	132.74	123.60
1	L	156	GLY	N-CA-C	-6.53	96.77	113.10
1	I	156	GLY	N-CA-C	-6.53	96.78	113.10
1	I	166	GLY	C-N-CA	6.53	136.00	122.30
1	J	57	TRP	N-CA-CB	6.53	122.35	110.60
1	J	156	GLY	N-CA-C	-6.53	96.79	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	57	TRP	N-CA-CB	6.52	122.34	110.60
1	H	139	ARG	CD-NE-CZ	6.52	132.72	123.60
1	I	57	TRP	N-CA-CB	6.52	122.33	110.60
1	D	156	GLY	N-CA-C	-6.51	96.81	113.10
1	E	156	GLY	N-CA-C	-6.51	96.82	113.10
1	A	156	GLY	N-CA-C	-6.51	96.83	113.10
1	L	166	GLY	C-N-CA	6.51	135.97	122.30
1	E	93	GLU	N-CA-CB	-6.51	98.89	110.60
1	K	156	GLY	N-CA-C	-6.51	96.84	113.10
1	B	139	ARG	CD-NE-CZ	6.50	132.70	123.60
1	I	233	ASP	CB-CG-OD2	6.50	124.15	118.30
1	F	156	GLY	N-CA-C	-6.50	96.85	113.10
1	H	116	ARG	NH1-CZ-NH2	6.50	126.55	119.40
1	A	93	GLU	N-CA-CB	-6.50	98.91	110.60
1	H	166	GLY	C-N-CA	6.50	135.94	122.30
1	D	57	TRP	N-CA-CB	6.50	122.29	110.60
1	D	192	ARG	NE-CZ-NH2	-6.49	117.05	120.30
1	G	156	GLY	N-CA-C	-6.49	96.87	113.10
1	F	192	ARG	NE-CZ-NH2	-6.49	117.05	120.30
1	C	166	GLY	C-N-CA	6.49	135.93	122.30
1	H	57	TRP	N-CA-CB	6.49	122.28	110.60
1	J	93	GLU	N-CA-CB	-6.49	98.92	110.60
1	D	402	GLU	CA-CB-CG	6.49	127.67	113.40
1	C	156	GLY	N-CA-C	-6.49	96.89	113.10
1	I	93	GLU	N-CA-CB	-6.49	98.93	110.60
1	D	166	GLY	C-N-CA	6.48	135.91	122.30
1	D	93	GLU	N-CA-CB	-6.48	98.94	110.60
1	E	139	ARG	CD-NE-CZ	6.48	132.67	123.60
1	E	233	ASP	CB-CG-OD2	6.48	124.13	118.30
1	C	116	ARG	NH1-CZ-NH2	6.47	126.52	119.40
1	E	88	ARG	N-CA-CB	6.47	122.25	110.60
1	G	93	GLU	N-CA-CB	-6.47	98.95	110.60
1	A	88	ARG	N-CA-CB	6.47	122.24	110.60
1	I	88	ARG	N-CA-CB	6.47	122.24	110.60
1	J	166	GLY	C-N-CA	6.47	135.88	122.30
1	K	139	ARG	CD-NE-CZ	6.47	132.65	123.60
1	A	152	ASP	CB-CA-C	6.46	123.33	110.40
1	C	88	ARG	N-CA-CB	6.46	122.23	110.60
1	F	57	TRP	N-CA-CB	6.46	122.23	110.60
1	C	93	GLU	N-CA-CB	-6.46	98.97	110.60
1	G	88	ARG	N-CA-CB	6.46	122.23	110.60
1	A	166	GLY	C-N-CA	6.46	135.87	122.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	354	ARG	CA-CB-CG	6.46	127.61	113.40
1	L	88	ARG	N-CA-CB	6.46	122.23	110.60
1	F	93	GLU	N-CA-CB	-6.46	98.97	110.60
1	F	166	GLY	C-N-CA	6.46	135.86	122.30
1	J	402	GLU	CA-CB-CG	6.46	127.61	113.40
1	L	93	GLU	N-CA-CB	-6.46	98.97	110.60
1	E	57	TRP	N-CA-CB	6.46	122.22	110.60
1	B	88	ARG	N-CA-CB	6.45	122.21	110.60
1	F	88	ARG	N-CA-CB	6.45	122.21	110.60
1	B	402	GLU	CA-CB-CG	6.45	127.59	113.40
1	K	152	ASP	CB-CA-C	6.45	123.30	110.40
1	E	166	GLY	C-N-CA	6.45	135.84	122.30
1	E	354	ARG	CA-CB-CG	6.45	127.59	113.40
1	G	166	GLY	C-N-CA	6.45	135.84	122.30
1	L	402	GLU	CA-CB-CG	6.45	127.58	113.40
1	B	93	GLU	N-CA-CB	-6.45	99.00	110.60
1	I	152	ASP	CB-CA-C	6.45	123.29	110.40
1	K	93	GLU	N-CA-CB	-6.45	99.00	110.60
1	A	402	GLU	CA-CB-CG	6.44	127.58	113.40
1	B	4	HIS	CA-CB-CG	-6.44	102.64	113.60
1	G	402	GLU	CA-CB-CG	6.44	127.58	113.40
1	H	4	HIS	CA-CB-CG	-6.44	102.65	113.60
1	G	4	HIS	CA-CB-CG	-6.44	102.65	113.60
1	H	402	GLU	CA-CB-CG	6.44	127.57	113.40
1	C	402	GLU	CA-CB-CG	6.44	127.56	113.40
1	I	402	GLU	CA-CB-CG	6.44	127.56	113.40
1	F	152	ASP	CB-CA-C	6.44	123.27	110.40
1	K	4	HIS	CA-CB-CG	-6.44	102.66	113.60
1	B	116	ARG	NH1-CZ-NH2	6.44	126.48	119.40
1	C	152	ASP	CB-CA-C	6.44	123.27	110.40
1	D	88	ARG	N-CA-CB	6.43	122.18	110.60
1	G	116	ARG	NH1-CZ-NH2	6.43	126.47	119.40
1	H	88	ARG	N-CA-CB	6.43	122.18	110.60
1	F	402	GLU	CA-CB-CG	6.43	127.54	113.40
1	H	93	GLU	N-CA-CB	-6.43	99.03	110.60
1	B	166	GLY	C-N-CA	6.43	135.80	122.30
1	D	4	HIS	CA-CB-CG	-6.43	102.67	113.60
1	E	402	GLU	CA-CB-CG	6.43	127.54	113.40
1	F	4	HIS	CA-CB-CG	-6.43	102.67	113.60
1	L	116	ARG	NH1-CZ-NH2	6.43	126.47	119.40
1	A	4	HIS	CA-CB-CG	-6.42	102.68	113.60
1	G	233	ASP	CB-CG-OD2	6.42	124.08	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	4	HIS	CA-CB-CG	-6.42	102.69	113.60
1	L	152	ASP	CB-CA-C	6.42	123.24	110.40
1	K	402	GLU	CA-CB-CG	6.42	127.52	113.40
1	A	354	ARG	CA-CB-CG	6.42	127.51	113.40
1	D	152	ASP	CB-CA-C	6.42	123.23	110.40
1	H	23	ASP	N-CA-CB	6.42	122.15	110.60
1	I	4	HIS	CA-CB-CG	-6.42	102.69	113.60
1	J	4	HIS	CA-CB-CG	-6.41	102.70	113.60
1	E	152	ASP	CB-CA-C	6.41	123.22	110.40
1	H	152	ASP	CB-CA-C	6.41	123.22	110.40
1	E	4	HIS	CA-CB-CG	-6.41	102.71	113.60
1	I	354	ARG	CA-CB-CG	6.40	127.49	113.40
1	K	354	ARG	CA-CB-CG	6.40	127.49	113.40
1	B	354	ARG	CA-CB-CG	6.40	127.49	113.40
1	K	88	ARG	N-CA-CB	6.40	122.13	110.60
1	K	116	ARG	NH1-CZ-NH2	6.40	126.44	119.40
1	J	233	ASP	CB-CG-OD2	6.40	124.06	118.30
1	G	152	ASP	CB-CA-C	6.39	123.19	110.40
1	F	116	ARG	NH1-CZ-NH2	6.39	126.43	119.40
1	J	88	ARG	N-CA-CB	6.39	122.10	110.60
1	C	354	ARG	CA-CB-CG	6.39	127.45	113.40
1	G	354	ARG	CA-CB-CG	6.39	127.45	113.40
1	H	354	ARG	CA-CB-CG	6.39	127.45	113.40
1	J	354	ARG	CA-CB-CG	6.39	127.45	113.40
1	K	233	ASP	CB-CG-OD2	6.38	124.05	118.30
1	B	152	ASP	CB-CA-C	6.38	123.16	110.40
1	L	354	ARG	CA-CB-CG	6.38	127.43	113.40
1	D	233	ASP	CB-CG-OD2	6.38	124.04	118.30
1	L	4	HIS	CA-CB-CG	-6.37	102.77	113.60
1	F	354	ARG	CA-CB-CG	6.36	127.39	113.40
1	D	23	ASP	N-CA-CB	6.36	122.05	110.60
1	E	23	ASP	N-CA-CB	6.36	122.04	110.60
1	F	233	ASP	CB-CG-OD2	6.36	124.02	118.30
1	A	116	ARG	NH1-CZ-NH2	6.35	126.39	119.40
1	J	116	ARG	NH1-CZ-NH2	6.35	126.39	119.40
1	J	41	GLU	O-C-N	6.35	132.86	122.70
1	A	233	ASP	CB-CG-OD2	6.35	124.01	118.30
1	B	233	ASP	CB-CG-OD2	6.34	124.01	118.30
1	J	152	ASP	CB-CA-C	6.34	123.08	110.40
1	A	23	ASP	N-CA-CB	6.34	122.00	110.60
1	C	23	ASP	N-CA-CB	6.34	122.00	110.60
1	C	233	ASP	CB-CG-OD2	6.34	124.00	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	23	ASP	N-CA-CB	6.33	122.00	110.60
1	B	23	ASP	N-CA-CB	6.33	121.99	110.60
1	K	23	ASP	N-CA-CB	6.33	121.99	110.60
1	H	233	ASP	CB-CG-OD2	6.32	123.99	118.30
1	F	23	ASP	N-CA-CB	6.32	121.97	110.60
1	L	233	ASP	CB-CG-OD2	6.31	123.98	118.30
1	E	116	ARG	NH1-CZ-NH2	6.31	126.34	119.40
1	D	41	GLU	O-C-N	6.31	132.79	122.70
1	E	41	GLU	O-C-N	6.31	132.79	122.70
1	J	23	ASP	N-CA-CB	6.31	121.95	110.60
1	K	201	GLN	CA-CB-CG	6.31	127.28	113.40
1	C	41	GLU	O-C-N	6.31	132.79	122.70
1	I	23	ASP	N-CA-CB	6.30	121.95	110.60
1	I	41	GLU	O-C-N	6.30	132.78	122.70
1	D	116	ARG	NH1-CZ-NH2	6.30	126.33	119.40
1	I	116	ARG	NH1-CZ-NH2	6.29	126.32	119.40
1	L	39	ASN	N-CA-CB	-6.29	99.28	110.60
1	G	23	ASP	N-CA-CB	6.28	121.91	110.60
1	B	201	GLN	CA-CB-CG	6.27	127.20	113.40
1	A	201	GLN	CA-CB-CG	6.26	127.18	113.40
1	E	39	ASN	N-CA-CB	-6.26	99.33	110.60
1	F	201	GLN	CA-CB-CG	6.26	127.17	113.40
1	J	201	GLN	CA-CB-CG	6.25	127.15	113.40
1	C	39	ASN	N-CA-CB	-6.25	99.36	110.60
1	F	41	GLU	O-C-N	6.25	132.69	122.70
1	I	201	GLN	CA-CB-CG	6.25	127.14	113.40
1	L	201	GLN	CA-CB-CG	6.25	127.14	113.40
1	H	201	GLN	CA-CB-CG	6.24	127.14	113.40
1	C	201	GLN	CA-CB-CG	6.24	127.13	113.40
1	K	41	GLU	O-C-N	6.24	132.68	122.70
1	K	233	ASP	CA-CB-CG	6.24	127.13	113.40
1	F	256	MET	CB-CA-C	6.24	122.87	110.40
1	G	41	GLU	O-C-N	6.23	132.67	122.70
1	F	39	ASN	N-CA-CB	-6.23	99.38	110.60
1	J	289	GLY	N-CA-C	-6.23	97.52	113.10
1	A	39	ASN	N-CA-CB	-6.23	99.39	110.60
1	C	249	PHE	CB-CG-CD2	-6.23	116.44	120.80
1	E	256	MET	CB-CA-C	6.23	122.86	110.40
1	E	289	GLY	N-CA-C	-6.23	97.53	113.10
1	G	256	MET	CB-CA-C	6.23	122.86	110.40
1	A	41	GLU	O-C-N	6.23	132.66	122.70
1	E	201	GLN	CA-CB-CG	6.22	127.09	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	249	PHE	CB-CG-CD2	-6.22	116.44	120.80
1	D	249	PHE	CB-CG-CD2	-6.22	116.44	120.80
1	I	41	GLU	CB-CA-C	-6.22	97.96	110.40
1	L	289	GLY	N-CA-C	-6.22	97.55	113.10
1	G	41	GLU	CB-CA-C	-6.22	97.96	110.40
1	B	41	GLU	O-C-N	6.22	132.65	122.70
1	B	289	GLY	N-CA-C	-6.22	97.55	113.10
1	D	201	GLN	CA-CB-CG	6.22	127.08	113.40
1	G	201	GLN	CA-CB-CG	6.22	127.08	113.40
1	G	233	ASP	CA-CB-CG	6.22	127.08	113.40
1	A	289	GLY	N-CA-C	-6.22	97.56	113.10
1	J	433	VAL	CB-CA-C	6.22	123.22	111.40
1	F	233	ASP	CA-CB-CG	6.22	127.08	113.40
1	H	41	GLU	O-C-N	6.22	132.65	122.70
1	K	297	TYR	CB-CG-CD2	-6.22	117.27	121.00
1	L	233	ASP	CA-CB-CG	6.22	127.08	113.40
1	A	41	GLU	CB-CA-C	-6.21	97.97	110.40
1	D	41	GLU	CB-CA-C	-6.21	97.97	110.40
1	I	297	TYR	CB-CG-CD2	-6.21	117.27	121.00
1	K	39	ASN	N-CA-CB	-6.21	99.41	110.60
1	L	41	GLU	O-C-N	6.21	132.64	122.70
1	L	41	GLU	CB-CA-C	-6.21	97.97	110.40
1	C	433	VAL	CB-CA-C	6.21	123.20	111.40
1	J	39	ASN	N-CA-CB	-6.21	99.42	110.60
1	A	256	MET	CB-CA-C	6.21	122.82	110.40
1	I	39	ASN	N-CA-CB	-6.21	99.42	110.60
1	I	289	GLY	N-CA-C	-6.21	97.58	113.10
1	K	249	PHE	CB-CG-CD2	-6.21	116.45	120.80
1	D	39	ASN	N-CA-CB	-6.21	99.43	110.60
1	L	297	TYR	CB-CG-CD2	-6.20	117.28	121.00
1	F	289	GLY	N-CA-C	-6.20	97.59	113.10
1	D	233	ASP	CA-CB-CG	6.20	127.04	113.40
1	A	170	GLY	N-CA-C	6.20	128.60	113.10
1	C	233	ASP	CA-CB-CG	6.20	127.04	113.40
1	E	41	GLU	CB-CA-C	-6.20	98.00	110.40
1	F	41	GLU	CB-CA-C	-6.20	98.00	110.40
1	H	170	GLY	N-CA-C	6.20	128.60	113.10
1	H	41	GLU	CB-CA-C	-6.20	98.01	110.40
1	H	233	ASP	CA-CB-CG	6.20	127.03	113.40
1	G	249	PHE	CB-CG-CD2	-6.20	116.46	120.80
1	B	248	ARG	NE-CZ-NH1	6.19	123.40	120.30
1	G	289	GLY	N-CA-C	-6.19	97.62	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	39	ASN	N-CA-CB	-6.19	99.45	110.60
1	H	289	GLY	N-CA-C	-6.19	97.62	113.10
1	J	170	GLY	N-CA-C	6.19	128.58	113.10
1	K	41	GLU	CB-CA-C	-6.19	98.02	110.40
1	K	289	GLY	N-CA-C	-6.19	97.62	113.10
1	A	233	ASP	CA-CB-CG	6.19	127.02	113.40
1	C	170	GLY	N-CA-C	6.19	128.58	113.10
1	D	289	GLY	N-CA-C	-6.19	97.62	113.10
1	F	170	GLY	N-CA-C	6.19	128.58	113.10
1	K	433	VAL	CB-CA-C	6.19	123.16	111.40
1	A	433	VAL	CB-CA-C	6.18	123.15	111.40
1	G	170	GLY	N-CA-C	6.18	128.56	113.10
1	H	256	MET	CB-CA-C	6.18	122.76	110.40
1	K	170	GLY	N-CA-C	6.18	128.56	113.10
1	L	256	MET	CB-CA-C	6.18	122.77	110.40
1	I	170	GLY	N-CA-C	6.18	128.55	113.10
1	D	433	VAL	CB-CA-C	6.18	123.14	111.40
1	K	256	MET	CB-CA-C	6.18	122.76	110.40
1	E	170	GLY	N-CA-C	6.18	128.54	113.10
1	B	39	ASN	N-CA-CB	-6.17	99.49	110.60
1	C	41	GLU	CB-CA-C	-6.17	98.05	110.40
1	C	289	GLY	N-CA-C	-6.17	97.67	113.10
1	B	41	GLU	CB-CA-C	-6.17	98.06	110.40
1	H	249	PHE	CB-CG-CD2	-6.17	116.48	120.80
1	L	170	GLY	N-CA-C	6.17	128.53	113.10
1	D	170	GLY	N-CA-C	6.17	128.52	113.10
1	B	233	ASP	CA-CB-CG	6.17	126.97	113.40
1	J	233	ASP	CA-CB-CG	6.17	126.96	113.40
1	C	248	ARG	NE-CZ-NH1	6.16	123.38	120.30
1	E	233	ASP	CA-CB-CG	6.16	126.96	113.40
1	J	41	GLU	CB-CA-C	-6.16	98.07	110.40
1	C	256	MET	CB-CA-C	6.16	122.72	110.40
1	G	433	VAL	CB-CA-C	6.16	123.11	111.40
1	I	233	ASP	CA-CB-CG	6.16	126.95	113.40
1	B	170	GLY	N-CA-C	6.16	128.49	113.10
1	C	20	ARG	CB-CA-C	6.16	122.72	110.40
1	H	433	VAL	CB-CA-C	6.16	123.10	111.40
1	J	256	MET	CB-CA-C	6.16	122.72	110.40
1	E	249	PHE	CB-CG-CD2	-6.16	116.49	120.80
1	I	433	VAL	CB-CA-C	6.16	123.10	111.40
1	I	256	MET	CB-CA-C	6.15	122.71	110.40
1	A	297	TYR	CB-CG-CD2	-6.15	117.31	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	39	ASN	N-CA-CB	-6.15	99.52	110.60
1	B	297	TYR	CB-CG-CD2	-6.15	117.31	121.00
1	B	256	MET	CB-CA-C	6.15	122.69	110.40
1	J	249	PHE	CB-CG-CD2	-6.15	116.50	120.80
1	D	190	ASP	CB-CA-C	6.14	122.69	110.40
1	I	190	ASP	CB-CA-C	6.14	122.69	110.40
1	L	433	VAL	CB-CA-C	6.14	123.07	111.40
1	D	256	MET	CB-CA-C	6.14	122.68	110.40
1	L	249	PHE	CB-CG-CD2	-6.14	116.50	120.80
1	K	190	ASP	CB-CA-C	6.14	122.68	110.40
1	G	234	GLU	CG-CD-OE1	6.13	130.55	118.30
1	K	234	GLU	CG-CD-OE1	6.13	130.55	118.30
1	B	20	ARG	CB-CA-C	6.12	122.65	110.40
1	E	70	ASP	CB-CG-OD2	-6.12	112.79	118.30
1	H	70	ASP	CB-CG-OD2	-6.12	112.79	118.30
1	A	20	ARG	CB-CA-C	6.12	122.64	110.40
1	F	433	VAL	CB-CA-C	6.12	123.02	111.40
1	I	70	ASP	CB-CG-OD2	-6.12	112.80	118.30
1	C	190	ASP	CB-CA-C	6.12	122.63	110.40
1	C	70	ASP	CB-CG-OD2	-6.11	112.80	118.30
1	D	20	ARG	CB-CA-C	6.11	122.63	110.40
1	D	234	GLU	CG-CD-OE1	6.11	130.53	118.30
1	F	190	ASP	CB-CA-C	6.11	122.63	110.40
1	A	190	ASP	CB-CA-C	6.11	122.62	110.40
1	B	433	VAL	CB-CA-C	6.11	123.01	111.40
1	A	249	PHE	CB-CG-CD2	-6.11	116.52	120.80
1	G	190	ASP	CB-CA-C	6.11	122.62	110.40
1	E	297	TYR	CB-CG-CD2	-6.11	117.34	121.00
1	J	20	ARG	CB-CA-C	6.11	122.61	110.40
1	J	316	THR	OG1-CB-CG2	6.11	124.04	110.00
1	E	20	ARG	CB-CA-C	6.10	122.61	110.40
1	E	433	VAL	CB-CA-C	6.10	123.00	111.40
1	J	190	ASP	CB-CA-C	6.10	122.60	110.40
1	G	297	TYR	CB-CG-CD2	-6.10	117.34	121.00
1	A	316	THR	OG1-CB-CG2	6.10	124.02	110.00
1	C	297	TYR	CB-CG-CD2	-6.10	117.34	121.00
1	H	179	TYR	CB-CG-CD2	6.10	124.66	121.00
1	C	316	THR	OG1-CB-CG2	6.09	124.02	110.00
1	F	297	TYR	CB-CG-CD2	-6.09	117.34	121.00
1	F	316	THR	OG1-CB-CG2	6.09	124.02	110.00
1	H	234	GLU	CG-CD-OE1	6.09	130.49	118.30
1	L	190	ASP	CB-CA-C	6.09	122.59	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	70	ASP	CB-CG-OD2	-6.09	112.82	118.30
1	H	20	ARG	CB-CA-C	6.09	122.58	110.40
1	I	20	ARG	CB-CA-C	6.09	122.58	110.40
1	G	20	ARG	CB-CA-C	6.09	122.57	110.40
1	L	316	THR	OG1-CB-CG2	6.08	124.00	110.00
1	E	316	THR	OG1-CB-CG2	6.08	123.99	110.00
1	K	179	TYR	CB-CG-CD2	6.08	124.65	121.00
1	K	316	THR	OG1-CB-CG2	6.08	123.99	110.00
1	L	70	ASP	CB-CG-OD2	-6.08	112.83	118.30
1	E	190	ASP	CB-CA-C	6.08	122.56	110.40
1	E	234	GLU	CG-CD-OE1	6.08	130.47	118.30
1	B	316	THR	OG1-CB-CG2	6.08	123.98	110.00
1	K	20	ARG	CB-CA-C	6.08	122.56	110.40
1	E	179	TYR	CB-CG-CD2	6.08	124.64	121.00
1	G	248	ARG	NE-CZ-NH1	6.08	123.34	120.30
1	G	316	THR	OG1-CB-CG2	6.07	123.97	110.00
1	H	316	THR	OG1-CB-CG2	6.07	123.97	110.00
1	I	316	THR	OG1-CB-CG2	6.07	123.97	110.00
1	F	20	ARG	CB-CA-C	6.07	122.54	110.40
1	H	190	ASP	CB-CA-C	6.07	122.54	110.40
1	B	190	ASP	CB-CA-C	6.07	122.53	110.40
1	I	179	TYR	CB-CG-CD2	6.06	124.64	121.00
1	L	20	ARG	CB-CA-C	6.06	122.52	110.40
1	F	234	GLU	CG-CD-OE1	6.05	130.41	118.30
1	J	70	ASP	CB-CG-OD2	-6.05	112.85	118.30
1	A	70	ASP	CB-CG-OD2	-6.05	112.85	118.30
1	A	234	GLU	CG-CD-OE1	6.05	130.41	118.30
1	J	52	SER	C-N-CA	6.05	136.83	121.70
1	B	234	GLU	CG-CD-OE1	6.05	130.40	118.30
1	J	248	ARG	NE-CZ-NH1	6.05	123.32	120.30
1	F	249	PHE	CB-CG-CD2	-6.05	116.57	120.80
1	I	234	GLU	CG-CD-OE1	6.05	130.39	118.30
1	B	52	SER	C-N-CA	6.04	136.81	121.70
1	C	234	GLU	CG-CD-OE1	6.04	130.39	118.30
1	I	52	SER	C-N-CA	6.04	136.81	121.70
1	A	52	SER	C-N-CA	6.04	136.79	121.70
1	E	52	SER	C-N-CA	6.04	136.80	121.70
1	J	234	GLU	CG-CD-OE1	6.04	130.38	118.30
1	L	52	SER	C-N-CA	6.04	136.80	121.70
1	G	70	ASP	CB-CG-OD2	-6.03	112.87	118.30
1	F	52	SER	C-N-CA	6.03	136.78	121.70
1	D	316	THR	OG1-CB-CG2	6.03	123.86	110.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	234	GLU	CG-CD-OE1	6.03	130.35	118.30
1	K	52	SER	C-N-CA	6.02	136.74	121.70
1	D	297	TYR	CB-CG-CD2	-6.01	117.40	121.00
1	I	184	PRO	C-N-CA	6.01	136.72	121.70
1	K	452	ARG	NE-CZ-NH1	6.00	123.30	120.30
1	D	70	ASP	CB-CG-OD2	-6.00	112.90	118.30
1	E	359	ARG	NH1-CZ-NH2	-6.00	112.80	119.40
1	B	249	PHE	CB-CG-CD2	-6.00	116.60	120.80
1	C	52	SER	C-N-CA	5.99	136.69	121.70
1	E	44	GLU	CG-CD-OE1	5.99	130.29	118.30
1	J	184	PRO	C-N-CA	5.99	136.69	121.70
1	B	44	GLU	CG-CD-OE1	5.99	130.28	118.30
1	J	452	ARG	NE-CZ-NH1	5.99	123.29	120.30
1	G	184	PRO	C-N-CA	5.99	136.66	121.70
1	A	248	ARG	NE-CZ-NH1	5.98	123.29	120.30
1	G	52	SER	C-N-CA	5.98	136.66	121.70
1	D	184	PRO	C-N-CA	5.98	136.65	121.70
1	I	44	GLU	CG-CD-OE1	5.98	130.25	118.30
1	L	452	ARG	NE-CZ-NH1	5.98	123.29	120.30
1	G	452	ARG	NE-CZ-NH1	5.97	123.29	120.30
1	K	70	ASP	CB-CG-OD2	-5.97	112.92	118.30
1	B	179	TYR	CB-CG-CD2	5.97	124.58	121.00
1	B	184	PRO	C-N-CA	5.97	136.63	121.70
1	H	52	SER	C-N-CA	5.97	136.63	121.70
1	A	184	PRO	C-N-CA	5.97	136.62	121.70
1	C	452	ARG	NE-CZ-NH1	5.96	123.28	120.30
1	D	52	SER	C-N-CA	5.96	136.61	121.70
1	L	184	PRO	C-N-CA	5.96	136.61	121.70
1	A	44	GLU	CG-CD-OE1	5.96	130.22	118.30
1	L	248	ARG	NE-CZ-NH1	5.96	123.28	120.30
1	F	281	LEU	CB-CA-C	5.96	121.52	110.20
1	K	248	ARG	NE-CZ-NH1	5.95	123.28	120.30
1	E	184	PRO	C-N-CA	5.95	136.58	121.70
1	J	297	TYR	CB-CG-CD2	-5.95	117.43	121.00
1	K	403	GLU	CA-CB-CG	5.95	126.49	113.40
1	B	70	ASP	CB-CG-OD2	-5.95	112.95	118.30
1	J	44	GLU	CG-CD-OE1	5.95	130.19	118.30
1	A	359	ARG	NH1-CZ-NH2	-5.94	112.86	119.40
1	D	44	GLU	CG-CD-OE1	5.94	130.19	118.30
1	H	44	GLU	CG-CD-OE1	5.94	130.18	118.30
1	F	184	PRO	C-N-CA	5.94	136.55	121.70
1	H	184	PRO	C-N-CA	5.94	136.55	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	184	PRO	C-N-CA	5.94	136.55	121.70
1	C	184	PRO	C-N-CA	5.94	136.55	121.70
1	C	44	GLU	CG-CD-OE1	5.93	130.17	118.30
1	D	452	ARG	NE-CZ-NH1	5.93	123.27	120.30
1	K	44	GLU	CG-CD-OE1	5.93	130.17	118.30
1	G	179	TYR	CB-CG-CD2	5.93	124.56	121.00
1	I	90	ASP	CA-C-N	-5.93	104.15	117.20
1	B	359	ARG	NH1-CZ-NH2	-5.93	112.88	119.40
1	I	403	GLU	CA-CB-CG	5.93	126.44	113.40
1	C	403	GLU	CA-CB-CG	5.93	126.44	113.40
1	J	403	GLU	CA-CB-CG	5.93	126.44	113.40
1	F	44	GLU	CG-CD-OE1	5.92	130.15	118.30
1	H	452	ARG	NE-CZ-NH1	5.92	123.26	120.30
1	H	281	LEU	CB-CA-C	5.92	121.45	110.20
1	D	90	ASP	CA-C-N	-5.92	104.18	117.20
1	G	44	GLU	CG-CD-OE1	5.92	130.13	118.30
1	H	419	ASN	CA-CB-CG	-5.92	100.39	113.40
1	J	179	TYR	CB-CG-CD2	5.91	124.55	121.00
1	A	281	LEU	CB-CA-C	5.91	121.43	110.20
1	B	18	ASP	C-N-CA	5.91	136.47	121.70
1	F	452	ARG	NE-CZ-NH1	5.91	123.25	120.30
1	I	359	ARG	NH1-CZ-NH2	-5.91	112.90	119.40
1	K	281	LEU	CB-CA-C	5.91	121.42	110.20
1	A	90	ASP	CA-C-N	-5.91	104.21	117.20
1	G	403	GLU	CA-CB-CG	5.91	126.39	113.40
1	L	359	ARG	NH1-CZ-NH2	-5.91	112.90	119.40
1	A	403	GLU	CA-CB-CG	5.90	126.39	113.40
1	E	403	GLU	CA-CB-CG	5.90	126.39	113.40
1	I	281	LEU	CB-CA-C	5.90	121.42	110.20
1	A	179	TYR	CB-CG-CD2	5.90	124.54	121.00
1	B	281	LEU	CB-CA-C	5.90	121.41	110.20
1	J	90	ASP	CA-C-N	-5.90	104.21	117.20
1	L	179	TYR	CB-CG-CD2	5.90	124.54	121.00
1	L	403	GLU	CA-CB-CG	5.90	126.38	113.40
1	B	403	GLU	CA-CB-CG	5.90	126.38	113.40
1	D	248	ARG	NE-CZ-NH1	5.90	123.25	120.30
1	H	90	ASP	CA-C-N	-5.90	104.22	117.20
1	C	90	ASP	CA-C-N	-5.90	104.22	117.20
1	E	281	LEU	CB-CA-C	5.89	121.40	110.20
1	F	90	ASP	CA-C-N	-5.89	104.23	117.20
1	F	403	GLU	CA-CB-CG	5.89	126.37	113.40
1	L	90	ASP	CA-C-N	-5.89	104.23	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	281	LEU	CB-CA-C	5.89	121.40	110.20
1	C	419	ASN	CA-CB-CG	-5.89	100.44	113.40
1	H	359	ARG	NH1-CZ-NH2	-5.89	112.92	119.40
1	A	18	ASP	C-N-CA	5.88	136.41	121.70
1	J	281	LEU	CB-CA-C	5.88	121.38	110.20
1	B	90	ASP	CA-C-N	-5.88	104.26	117.20
1	J	93	GLU	OE1-CD-OE2	5.88	130.36	123.30
1	D	419	ASN	CA-CB-CG	-5.88	100.47	113.40
1	E	18	ASP	C-N-CA	5.88	136.40	121.70
1	E	419	ASN	CA-CB-CG	-5.88	100.47	113.40
1	C	18	ASP	C-N-CA	5.88	136.39	121.70
1	F	419	ASN	CA-CB-CG	-5.88	100.47	113.40
1	G	90	ASP	CA-C-N	-5.88	104.27	117.20
1	G	359	ARG	NH1-CZ-NH2	-5.88	112.94	119.40
1	K	419	ASN	CA-CB-CG	-5.88	100.47	113.40
1	D	18	ASP	C-N-CA	5.87	136.38	121.70
1	D	403	GLU	CA-CB-CG	5.87	126.31	113.40
1	H	18	ASP	C-N-CA	5.87	136.37	121.70
1	K	90	ASP	CA-C-N	-5.87	104.29	117.20
1	E	90	ASP	CA-C-N	-5.87	104.30	117.20
1	C	281	LEU	CB-CA-C	5.86	121.34	110.20
1	E	93	GLU	OE1-CD-OE2	5.86	130.34	123.30
1	I	419	ASN	CA-CB-CG	-5.86	100.50	113.40
1	J	18	ASP	C-N-CA	5.86	136.36	121.70
1	C	359	ARG	NH1-CZ-NH2	-5.86	112.95	119.40
1	H	297	TYR	CB-CG-CD2	-5.86	117.48	121.00
1	K	359	ARG	NH1-CZ-NH2	-5.86	112.95	119.40
1	G	281	LEU	CB-CA-C	5.86	121.33	110.20
1	B	419	ASN	CA-CB-CG	-5.86	100.51	113.40
1	C	179	TYR	CB-CG-CD2	5.86	124.51	121.00
1	L	18	ASP	C-N-CA	5.86	136.34	121.70
1	F	18	ASP	C-N-CA	5.86	136.34	121.70
1	F	359	ARG	NH1-CZ-NH2	-5.86	112.96	119.40
1	I	248	ARG	NE-CZ-NH1	5.86	123.23	120.30
1	G	419	ASN	CA-CB-CG	-5.85	100.52	113.40
1	H	403	GLU	CA-CB-CG	5.85	126.27	113.40
1	A	452	ARG	NE-CZ-NH1	5.85	123.22	120.30
1	D	380	ASP	CB-CG-OD1	5.85	123.57	118.30
1	L	44	GLU	CG-CD-OE1	5.85	130.00	118.30
1	D	359	ARG	NH1-CZ-NH2	-5.85	112.97	119.40
1	A	419	ASN	CA-CB-CG	-5.85	100.53	113.40
1	E	76	ILE	N-CA-C	-5.84	95.23	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	248	ARG	NE-CZ-NH1	5.84	123.22	120.30
1	I	452	ARG	NE-CZ-NH1	5.84	123.22	120.30
1	J	419	ASN	CA-CB-CG	-5.84	100.55	113.40
1	K	18	ASP	C-N-CA	5.84	136.30	121.70
1	I	18	ASP	C-N-CA	5.84	136.30	121.70
1	L	419	ASN	CA-CB-CG	-5.84	100.56	113.40
1	D	281	LEU	CB-CA-C	5.84	121.29	110.20
1	K	380	ASP	CB-CG-OD1	5.84	123.55	118.30
1	B	76	ILE	N-CA-C	-5.83	95.25	111.00
1	G	18	ASP	C-N-CA	5.83	136.28	121.70
1	G	375	LEU	CA-CB-CG	5.83	128.71	115.30
1	K	76	ILE	N-CA-C	-5.83	95.26	111.00
1	D	375	LEU	CA-CB-CG	5.83	128.71	115.30
1	F	76	ILE	N-CA-C	-5.83	95.26	111.00
1	D	179	TYR	CB-CG-CD2	5.83	124.50	121.00
1	C	76	ILE	N-CA-C	-5.83	95.27	111.00
1	A	76	ILE	N-CA-C	-5.82	95.28	111.00
1	D	76	ILE	N-CA-C	-5.82	95.28	111.00
1	I	375	LEU	CA-CB-CG	5.82	128.70	115.30
1	E	375	LEU	CA-CB-CG	5.82	128.69	115.30
1	J	76	ILE	N-CA-C	-5.82	95.28	111.00
1	F	179	TYR	CB-CG-CD2	5.82	124.49	121.00
1	J	359	ARG	NH1-CZ-NH2	-5.82	113.00	119.40
1	E	452	ARG	NE-CZ-NH1	5.81	123.21	120.30
1	G	76	ILE	N-CA-C	-5.81	95.30	111.00
1	C	375	LEU	CA-CB-CG	5.81	128.67	115.30
1	F	93	GLU	OE1-CD-OE2	5.81	130.27	123.30
1	F	375	LEU	CA-CB-CG	5.81	128.66	115.30
1	G	288	ALA	N-CA-CB	-5.81	101.97	110.10
1	I	76	ILE	N-CA-C	-5.81	95.32	111.00
1	J	375	LEU	CA-CB-CG	5.81	128.66	115.30
1	L	93	GLU	OE1-CD-OE2	5.81	130.27	123.30
1	B	288	ALA	N-CA-CB	-5.80	101.97	110.10
1	E	288	ALA	N-CA-CB	-5.80	101.97	110.10
1	H	76	ILE	N-CA-C	-5.80	95.33	111.00
1	L	375	LEU	CA-CB-CG	5.80	128.65	115.30
1	A	375	LEU	CA-CB-CG	5.80	128.65	115.30
1	C	92	LEU	CA-C-N	-5.80	104.44	117.20
1	J	152	ASP	CA-CB-CG	5.80	126.15	113.40
1	F	152	ASP	CA-CB-CG	5.79	126.15	113.40
1	H	375	LEU	CA-CB-CG	5.79	128.62	115.30
1	L	76	ILE	N-CA-C	-5.79	95.36	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	152	ASP	CA-CB-CG	5.79	126.14	113.40
1	B	375	LEU	CA-CB-CG	5.79	128.62	115.30
1	J	64	ASP	CB-CG-OD1	5.79	123.51	118.30
1	G	152	ASP	CA-CB-CG	5.79	126.14	113.40
1	K	375	LEU	CA-CB-CG	5.79	128.62	115.30
1	I	93	GLU	OE1-CD-OE2	5.78	130.24	123.30
1	G	93	GLU	OE1-CD-OE2	5.78	130.24	123.30
1	A	93	GLU	OE1-CD-OE2	5.78	130.23	123.30
1	C	288	ALA	N-CA-CB	-5.78	102.01	110.10
1	E	248	ARG	NE-CZ-NH1	5.77	123.18	120.30
1	L	288	ALA	N-CA-CB	-5.77	102.03	110.10
1	H	152	ASP	CA-CB-CG	5.77	126.08	113.40
1	A	152	ASP	CA-CB-CG	5.76	126.08	113.40
1	B	93	GLU	OE1-CD-OE2	5.76	130.22	123.30
1	I	64	ASP	CB-CG-OD1	5.76	123.49	118.30
1	K	93	GLU	OE1-CD-OE2	5.76	130.22	123.30
1	A	64	ASP	CB-CG-OD1	5.76	123.48	118.30
1	H	93	GLU	OE1-CD-OE2	5.76	130.21	123.30
1	A	92	LEU	CA-C-N	-5.76	104.53	117.20
1	I	152	ASP	CA-CB-CG	5.76	126.07	113.40
1	J	92	LEU	CA-C-N	-5.76	104.53	117.20
1	D	64	ASP	CB-CG-OD1	5.76	123.48	118.30
1	E	380	ASP	CB-CG-OD1	5.76	123.48	118.30
1	K	288	ALA	N-CA-CB	-5.76	102.04	110.10
1	D	152	ASP	CA-CB-CG	5.75	126.06	113.40
1	D	92	LEU	CA-C-N	-5.75	104.54	117.20
1	F	288	ALA	N-CA-CB	-5.75	102.04	110.10
1	K	92	LEU	CA-C-N	-5.75	104.55	117.20
1	B	452	ARG	NE-CZ-NH1	5.75	123.17	120.30
1	E	152	ASP	CA-CB-CG	5.75	126.04	113.40
1	I	92	LEU	CA-C-N	-5.75	104.56	117.20
1	L	92	LEU	CA-C-N	-5.75	104.56	117.20
1	F	92	LEU	CA-C-N	-5.75	104.56	117.20
1	C	64	ASP	CB-CG-OD1	5.74	123.47	118.30
1	L	152	ASP	CA-CB-CG	5.74	126.03	113.40
1	H	64	ASP	CB-CG-OD1	5.74	123.46	118.30
1	C	155	GLU	CG-CD-OE1	5.74	129.77	118.30
1	K	152	ASP	CA-CB-CG	5.73	126.01	113.40
1	B	152	ASP	CA-CB-CG	5.73	126.01	113.40
1	G	64	ASP	CB-CG-OD1	5.73	123.46	118.30
1	G	92	LEU	CA-C-N	-5.73	104.59	117.20
1	L	64	ASP	CB-CG-OD1	5.73	123.46	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	457	PRO	C-N-CA	5.73	136.02	121.70
1	H	92	LEU	CA-C-N	-5.73	104.60	117.20
1	I	288	ALA	N-CA-CB	-5.73	102.08	110.10
1	L	457	PRO	C-N-CA	5.73	136.02	121.70
1	G	380	ASP	CB-CG-OD1	5.72	123.45	118.30
1	B	92	LEU	CA-C-N	-5.72	104.61	117.20
1	G	457	PRO	C-N-CA	5.72	136.00	121.70
1	I	155	GLU	CG-CD-OE1	5.72	129.74	118.30
1	A	288	ALA	N-CA-CB	-5.71	102.10	110.10
1	E	457	PRO	C-N-CA	5.71	135.99	121.70
1	L	155	GLU	CG-CD-OE1	5.71	129.73	118.30
1	C	93	GLU	OE1-CD-OE2	5.71	130.15	123.30
1	H	337	ARG	NE-CZ-NH1	5.71	123.16	120.30
1	E	64	ASP	CB-CG-OD1	5.71	123.44	118.30
1	E	92	LEU	CA-C-N	-5.71	104.64	117.20
1	F	155	GLU	CG-CD-OE1	5.71	129.71	118.30
1	H	457	PRO	C-N-CA	5.71	135.96	121.70
1	J	155	GLU	CG-CD-OE1	5.71	129.71	118.30
1	A	457	PRO	C-N-CA	5.70	135.96	121.70
1	F	64	ASP	CB-CG-OD1	5.70	123.43	118.30
1	F	248	ARG	NE-CZ-NH1	5.70	123.15	120.30
1	H	288	ALA	N-CA-CB	-5.70	102.12	110.10
1	J	380	ASP	CB-CG-OD1	5.70	123.43	118.30
1	J	457	PRO	C-N-CA	5.70	135.95	121.70
1	C	380	ASP	CB-CG-OD1	5.70	123.43	118.30
1	I	457	PRO	C-N-CA	5.70	135.94	121.70
1	H	155	GLU	CG-CD-OE1	5.69	129.69	118.30
1	J	288	ALA	N-CA-CB	-5.69	102.13	110.10
1	K	457	PRO	C-N-CA	5.69	135.93	121.70
1	B	64	ASP	CB-CG-OD1	5.69	123.42	118.30
1	F	380	ASP	CB-CG-OD1	5.69	123.42	118.30
1	B	17	VAL	CB-CA-C	5.68	122.19	111.40
1	D	457	PRO	C-N-CA	5.68	135.90	121.70
1	H	17	VAL	CB-CA-C	5.68	122.19	111.40
1	K	64	ASP	CB-CG-OD1	5.68	123.41	118.30
1	D	93	GLU	OE1-CD-OE2	5.68	130.11	123.30
1	D	288	ALA	N-CA-CB	-5.68	102.15	110.10
1	G	155	GLU	CG-CD-OE1	5.68	129.65	118.30
1	K	155	GLU	CG-CD-OE1	5.68	129.65	118.30
1	F	457	PRO	C-N-CA	5.67	135.88	121.70
1	C	457	PRO	C-N-CA	5.67	135.88	121.70
1	F	168	ASN	N-CA-CB	5.67	120.81	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	380	ASP	CB-CG-OD1	5.67	123.41	118.30
1	A	155	GLU	CG-CD-OE1	5.67	129.63	118.30
1	K	17	VAL	CB-CA-C	5.67	122.17	111.40
1	B	155	GLU	CG-CD-OE1	5.66	129.63	118.30
1	I	168	ASN	N-CA-CB	5.66	120.79	110.60
1	E	155	GLU	CG-CD-OE1	5.66	129.62	118.30
1	F	17	VAL	CB-CA-C	5.66	122.15	111.40
1	H	168	ASN	N-CA-CB	5.66	120.78	110.60
1	D	155	GLU	CG-CD-OE1	5.65	129.61	118.30
1	K	168	ASN	N-CA-CB	5.65	120.78	110.60
1	D	337	ARG	NE-CZ-NH1	5.65	123.13	120.30
1	L	337	ARG	NE-CZ-NH1	5.65	123.13	120.30
1	I	169	LYS	C-N-CA	5.65	134.17	122.30
1	D	17	VAL	CB-CA-C	5.64	122.12	111.40
1	J	168	ASN	N-CA-CB	5.64	120.75	110.60
1	E	168	ASN	N-CA-CB	5.64	120.75	110.60
1	F	169	LYS	C-N-CA	5.63	134.13	122.30
1	E	17	VAL	CB-CA-C	5.63	122.10	111.40
1	D	413	SER	N-CA-C	5.63	126.20	111.00
1	B	168	ASN	N-CA-CB	5.62	120.72	110.60
1	I	17	VAL	CB-CA-C	5.62	122.08	111.40
1	A	17	VAL	CB-CA-C	5.62	122.08	111.40
1	A	380	ASP	CB-CG-OD1	5.62	123.36	118.30
1	B	169	LYS	C-N-CA	5.62	134.11	122.30
1	B	413	SER	N-CA-C	5.62	126.18	111.00
1	J	21	PHE	CB-CG-CD2	5.62	124.73	120.80
1	L	17	VAL	CB-CA-C	5.62	122.08	111.40
1	C	17	VAL	CB-CA-C	5.62	122.07	111.40
1	H	169	LYS	C-N-CA	5.62	134.10	122.30
1	J	17	VAL	CB-CA-C	5.62	122.08	111.40
1	L	380	ASP	CB-CG-OD1	5.62	123.36	118.30
1	B	433	VAL	N-CA-CB	-5.62	99.14	111.50
1	A	168	ASN	N-CA-CB	5.61	120.70	110.60
1	C	168	ASN	N-CA-CB	5.61	120.70	110.60
1	B	380	ASP	CB-CG-OD1	5.61	123.35	118.30
1	I	433	VAL	N-CA-CB	-5.61	99.16	111.50
1	E	337	ARG	NE-CZ-NH1	5.61	123.10	120.30
1	G	17	VAL	CB-CA-C	5.61	122.06	111.40
1	H	89	CYS	O-C-N	5.61	131.67	122.70
1	L	169	LYS	C-N-CA	5.61	134.07	122.30
1	L	413	SER	N-CA-C	5.61	126.14	111.00
1	C	413	SER	N-CA-C	5.61	126.13	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	169	LYS	C-N-CA	5.61	134.07	122.30
1	G	168	ASN	N-CA-CB	5.60	120.68	110.60
1	I	413	SER	N-CA-C	5.60	126.13	111.00
1	D	169	LYS	C-N-CA	5.60	134.06	122.30
1	F	433	VAL	N-CA-CB	-5.60	99.19	111.50
1	A	413	SER	N-CA-C	5.60	126.11	111.00
1	A	169	LYS	C-N-CA	5.59	134.05	122.30
1	G	169	LYS	C-N-CA	5.59	134.05	122.30
1	H	413	SER	N-CA-C	5.59	126.10	111.00
1	C	169	LYS	C-N-CA	5.59	134.04	122.30
1	A	433	VAL	N-CA-CB	-5.59	99.20	111.50
1	D	433	VAL	N-CA-CB	-5.59	99.20	111.50
1	D	89	CYS	O-C-N	5.59	131.64	122.70
1	E	169	LYS	C-N-CA	5.59	134.03	122.30
1	F	21	PHE	CB-CG-CD2	5.59	124.71	120.80
1	L	168	ASN	N-CA-CB	5.59	120.65	110.60
1	C	433	VAL	N-CA-CB	-5.58	99.21	111.50
1	A	337	ARG	NE-CZ-NH1	5.58	123.09	120.30
1	D	168	ASN	N-CA-CB	5.58	120.65	110.60
1	L	21	PHE	CB-CG-CD2	5.58	124.71	120.80
1	E	413	SER	N-CA-C	5.58	126.06	111.00
1	J	169	LYS	C-N-CA	5.58	134.01	122.30
1	E	433	VAL	N-CA-CB	-5.58	99.23	111.50
1	B	89	CYS	O-C-N	5.57	131.61	122.70
1	F	413	SER	N-CA-C	5.57	126.04	111.00
1	K	21	PHE	CB-CG-CD2	5.57	124.70	120.80
1	G	433	VAL	N-CA-CB	-5.57	99.25	111.50
1	C	21	PHE	CB-CG-CD2	5.57	124.70	120.80
1	L	433	VAL	N-CA-CB	-5.56	99.26	111.50
1	G	413	SER	N-CA-C	5.56	126.02	111.00
1	H	433	VAL	N-CA-CB	-5.56	99.27	111.50
1	H	21	PHE	CB-CG-CD2	5.56	124.69	120.80
1	J	433	VAL	N-CA-CB	-5.56	99.27	111.50
1	K	433	VAL	N-CA-CB	-5.56	99.27	111.50
1	C	89	CYS	N-CA-CB	5.56	120.60	110.60
1	B	89	CYS	N-CA-CB	5.55	120.59	110.60
1	I	337	ARG	NE-CZ-NH1	5.55	123.08	120.30
1	J	413	SER	N-CA-C	5.55	125.98	111.00
1	L	89	CYS	N-CA-CB	5.55	120.58	110.60
1	C	89	CYS	O-C-N	5.54	131.57	122.70
1	A	21	PHE	CB-CG-CD2	5.54	124.67	120.80
1	A	89	CYS	N-CA-CB	5.53	120.56	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	465	TYR	O-C-N	-5.53	113.85	122.70
1	I	21	PHE	CB-CG-CD2	5.53	124.67	120.80
1	G	89	CYS	O-C-N	5.53	131.55	122.70
1	L	89	CYS	O-C-N	5.53	131.55	122.70
1	C	110	ARG	CD-NE-CZ	-5.53	115.86	123.60
1	J	89	CYS	N-CA-CB	5.53	120.55	110.60
1	K	413	SER	N-CA-C	5.53	125.93	111.00
1	K	337	ARG	NE-CZ-NH1	5.52	123.06	120.30
1	B	110	ARG	CD-NE-CZ	-5.52	115.87	123.60
1	D	465	TYR	O-C-N	-5.52	113.86	122.70
1	F	89	CYS	N-CA-CB	5.52	120.54	110.60
1	D	263	ASP	CB-CA-C	5.52	121.44	110.40
1	E	263	ASP	CB-CA-C	5.52	121.44	110.40
1	E	89	CYS	N-CA-CB	5.52	120.53	110.60
1	I	89	CYS	N-CA-CB	5.52	120.53	110.60
1	B	197	LEU	CB-CA-C	5.51	120.68	110.20
1	H	380	ASP	CB-CG-OD1	5.51	123.26	118.30
1	F	89	CYS	O-C-N	5.51	131.52	122.70
1	G	110	ARG	CD-NE-CZ	-5.51	115.88	123.60
1	J	110	ARG	CD-NE-CZ	-5.51	115.88	123.60
1	D	110	ARG	CD-NE-CZ	-5.51	115.89	123.60
1	F	263	ASP	CB-CA-C	5.51	121.42	110.40
1	E	21	PHE	CB-CG-CD2	5.51	124.66	120.80
1	D	89	CYS	N-CA-CB	5.51	120.52	110.60
1	H	89	CYS	N-CA-CB	5.51	120.52	110.60
1	K	89	CYS	N-CA-CB	5.51	120.51	110.60
1	K	110	ARG	CD-NE-CZ	-5.50	115.89	123.60
1	I	89	CYS	O-C-N	5.50	131.51	122.70
1	J	166	GLY	N-CA-C	-5.50	99.34	113.10
1	J	263	ASP	CB-CA-C	5.50	121.41	110.40
1	B	263	ASP	CB-CA-C	5.50	121.40	110.40
1	B	337	ARG	NE-CZ-NH1	5.50	123.05	120.30
1	E	110	ARG	CD-NE-CZ	-5.50	115.90	123.60
1	H	465	TYR	O-C-N	-5.50	113.90	122.70
1	L	447	ARG	NE-CZ-NH2	-5.50	117.55	120.30
1	B	166	GLY	N-CA-C	-5.50	99.36	113.10
1	E	197	LEU	CB-CA-C	5.50	120.64	110.20
1	H	110	ARG	CD-NE-CZ	-5.49	115.91	123.60
1	L	70	ASP	CB-CG-OD1	5.49	123.24	118.30
1	L	212	GLU	N-CA-CB	5.49	120.49	110.60
1	A	89	CYS	O-C-N	5.49	131.49	122.70
1	J	197	LEU	CB-CA-C	5.49	120.63	110.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	465	TYR	O-C-N	-5.49	113.91	122.70
1	L	465	TYR	O-C-N	-5.49	113.91	122.70
1	F	166	GLY	N-CA-C	-5.49	99.38	113.10
1	K	197	LEU	CB-CA-C	5.49	120.63	110.20
1	H	70	ASP	CB-CG-OD1	5.49	123.24	118.30
1	A	110	ARG	CD-NE-CZ	-5.48	115.92	123.60
1	G	166	GLY	N-CA-C	-5.48	99.40	113.10
1	C	166	GLY	N-CA-C	-5.48	99.40	113.10
1	D	166	GLY	N-CA-C	-5.48	99.40	113.10
1	E	70	ASP	CB-CG-OD1	5.48	123.23	118.30
1	E	166	GLY	N-CA-C	-5.48	99.40	113.10
1	F	197	LEU	CB-CA-C	5.48	120.61	110.20
1	F	212	GLU	N-CA-CB	5.48	120.47	110.60
1	G	89	CYS	N-CA-CB	5.48	120.47	110.60
1	H	263	ASP	CB-CA-C	5.48	121.36	110.40
1	F	110	ARG	CD-NE-CZ	-5.48	115.93	123.60
1	A	166	GLY	N-CA-C	-5.48	99.41	113.10
1	J	89	CYS	O-C-N	5.48	131.46	122.70
1	D	184	PRO	CB-CA-C	5.47	125.68	112.00
1	D	326	TYR	CA-C-N	-5.47	105.16	117.20
1	L	166	GLY	N-CA-C	-5.47	99.41	113.10
1	H	166	GLY	N-CA-C	-5.47	99.42	113.10
1	E	465	TYR	O-C-N	-5.47	113.95	122.70
1	G	197	LEU	CB-CA-C	5.47	120.59	110.20
1	G	337	ARG	NE-CZ-NH1	5.47	123.03	120.30
1	B	21	PHE	CB-CG-CD2	5.47	124.63	120.80
1	F	184	PRO	CB-CA-C	5.47	125.68	112.00
1	J	184	PRO	CB-CA-C	5.47	125.68	112.00
1	A	197	LEU	CB-CA-C	5.47	120.59	110.20
1	H	463	GLU	CG-CD-OE2	-5.47	107.36	118.30
1	I	166	GLY	N-CA-C	-5.47	99.43	113.10
1	K	166	GLY	N-CA-C	-5.47	99.43	113.10
1	A	465	TYR	O-C-N	-5.47	113.95	122.70
1	F	465	TYR	O-C-N	-5.47	113.95	122.70
1	J	212	GLU	N-CA-CB	5.47	120.44	110.60
1	K	263	ASP	CB-CA-C	5.47	121.33	110.40
1	D	212	GLU	N-CA-CB	5.46	120.44	110.60
1	I	465	TYR	O-C-N	-5.46	113.96	122.70
1	H	197	LEU	CB-CA-C	5.46	120.58	110.20
1	K	89	CYS	O-C-N	5.46	131.44	122.70
1	C	263	ASP	CB-CA-C	5.46	121.32	110.40
1	E	184	PRO	CB-CA-C	5.46	125.65	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	70	ASP	CB-CG-OD1	5.46	123.21	118.30
1	L	110	ARG	CD-NE-CZ	-5.46	115.96	123.60
1	A	212	GLU	N-CA-CB	5.46	120.42	110.60
1	A	263	ASP	CB-CA-C	5.46	121.31	110.40
1	B	212	GLU	N-CA-CB	5.46	120.42	110.60
1	I	197	LEU	CB-CA-C	5.46	120.57	110.20
1	I	326	TYR	CA-C-N	-5.46	105.20	117.20
1	J	326	TYR	CA-C-N	-5.46	105.19	117.20
1	D	197	LEU	CB-CA-C	5.46	120.56	110.20
1	H	326	TYR	CA-C-N	-5.46	105.20	117.20
1	I	178	GLY	N-CA-C	-5.46	99.46	113.10
1	G	184	PRO	CB-CA-C	5.45	125.63	112.00
1	G	212	GLU	N-CA-CB	5.45	120.42	110.60
1	H	212	GLU	N-CA-CB	5.45	120.42	110.60
1	I	70	ASP	CB-CG-OD1	5.45	123.21	118.30
1	I	212	GLU	N-CA-CB	5.45	120.42	110.60
1	K	184	PRO	CB-CA-C	5.45	125.64	112.00
1	J	135	PHE	O-C-N	5.45	131.42	122.70
1	K	212	GLU	N-CA-CB	5.45	120.41	110.60
1	C	184	PRO	CB-CA-C	5.45	125.62	112.00
1	C	197	LEU	CB-CA-C	5.45	120.56	110.20
1	D	92	LEU	O-C-N	5.45	131.42	122.70
1	L	184	PRO	CB-CA-C	5.45	125.63	112.00
1	F	326	TYR	CA-C-N	-5.45	105.21	117.20
1	H	184	PRO	CB-CA-C	5.45	125.62	112.00
1	B	447	ARG	NE-CZ-NH2	-5.45	117.58	120.30
1	E	89	CYS	O-C-N	5.44	131.41	122.70
1	G	263	ASP	CB-CA-C	5.44	121.29	110.40
1	I	184	PRO	CB-CA-C	5.44	125.61	112.00
1	A	184	PRO	CB-CA-C	5.44	125.60	112.00
1	E	326	TYR	CA-C-N	-5.44	105.23	117.20
1	G	21	PHE	CB-CG-CD2	5.44	124.61	120.80
1	J	92	LEU	O-C-N	5.44	131.40	122.70
1	K	326	TYR	CA-C-N	-5.44	105.23	117.20
1	L	197	LEU	CB-CA-C	5.44	120.53	110.20
1	I	110	ARG	CD-NE-CZ	-5.44	115.99	123.60
1	L	263	ASP	CB-CA-C	5.44	121.28	110.40
1	F	92	LEU	O-C-N	5.43	131.39	122.70
1	G	326	TYR	CA-C-N	-5.43	105.24	117.20
1	H	178	GLY	N-CA-C	-5.43	99.52	113.10
1	A	326	TYR	CA-C-N	-5.43	105.25	117.20
1	B	326	TYR	CA-C-N	-5.43	105.25	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	20	ARG	CA-CB-CG	5.43	125.35	113.40
1	I	263	ASP	CB-CA-C	5.43	121.26	110.40
1	F	463	GLU	CG-CD-OE2	-5.43	107.44	118.30
1	L	326	TYR	CA-C-N	-5.43	105.26	117.20
1	A	178	GLY	N-CA-C	-5.42	99.54	113.10
1	G	463	GLU	CG-CD-OE2	-5.42	107.45	118.30
1	E	212	GLU	N-CA-CB	5.42	120.36	110.60
1	B	92	LEU	O-C-N	5.42	131.38	122.70
1	E	135	PHE	O-C-N	5.42	131.38	122.70
1	J	178	GLY	N-CA-C	-5.42	99.55	113.10
1	K	92	LEU	O-C-N	5.42	131.37	122.70
1	B	184	PRO	CB-CA-C	5.42	125.55	112.00
1	C	20	ARG	CA-CB-CG	5.42	125.32	113.40
1	E	463	GLU	CG-CD-OE2	-5.42	107.46	118.30
1	H	20	ARG	CA-CB-CG	5.42	125.32	113.40
1	C	212	GLU	N-CA-CB	5.42	120.35	110.60
1	G	178	GLY	N-CA-C	-5.42	99.56	113.10
1	I	463	GLU	CG-CD-OE2	-5.42	107.47	118.30
1	C	178	GLY	N-CA-C	-5.42	99.56	113.10
1	G	20	ARG	CA-CB-CG	5.42	125.31	113.40
1	A	20	ARG	CA-CB-CG	5.41	125.31	113.40
1	B	463	GLU	CG-CD-OE2	-5.41	107.48	118.30
1	A	92	LEU	O-C-N	5.41	131.36	122.70
1	D	21	PHE	CB-CG-CD2	5.41	124.59	120.80
1	B	178	GLY	N-CA-C	-5.41	99.58	113.10
1	E	20	ARG	CA-CB-CG	5.41	125.30	113.40
1	J	337	ARG	NE-CZ-NH1	5.41	123.00	120.30
1	D	463	GLU	CG-CD-OE2	-5.41	107.49	118.30
1	E	178	GLY	N-CA-C	-5.41	99.58	113.10
1	G	465	TYR	O-C-N	-5.41	114.05	122.70
1	D	178	GLY	N-CA-C	-5.40	99.59	113.10
1	G	92	LEU	O-C-N	5.40	131.34	122.70
1	A	463	GLU	CG-CD-OE2	-5.40	107.50	118.30
1	D	20	ARG	CA-CB-CG	5.40	125.28	113.40
1	F	178	GLY	N-CA-C	-5.40	99.61	113.10
1	J	463	GLU	CG-CD-OE2	-5.40	107.51	118.30
1	C	326	TYR	CA-C-N	-5.39	105.33	117.20
1	K	465	TYR	O-C-N	-5.39	114.07	122.70
1	L	263	ASP	CA-C-N	5.39	129.07	117.20
1	C	92	LEU	O-C-N	5.39	131.33	122.70
1	I	135	PHE	O-C-N	5.39	131.33	122.70
1	K	178	GLY	N-CA-C	-5.39	99.62	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	465	TYR	O-C-N	-5.39	114.08	122.70
1	L	334	TYR	CB-CG-CD2	-5.39	117.77	121.00
1	D	135	PHE	O-C-N	5.39	131.32	122.70
1	L	20	ARG	CA-CB-CG	5.39	125.25	113.40
1	F	334	TYR	CB-CG-CD2	-5.39	117.77	121.00
1	C	135	PHE	O-C-N	5.38	131.31	122.70
1	C	463	GLU	CG-CD-OE2	-5.38	107.53	118.30
1	J	20	ARG	CA-CB-CG	5.38	125.25	113.40
1	L	463	GLU	CG-CD-OE2	-5.38	107.53	118.30
1	K	20	ARG	CA-CB-CG	5.38	125.24	113.40
1	G	70	ASP	CB-CG-OD1	5.38	123.14	118.30
1	H	135	PHE	O-C-N	5.38	131.31	122.70
1	K	296	TYR	CB-CG-CD2	-5.38	117.77	121.00
1	K	447	ARG	NE-CZ-NH2	-5.38	117.61	120.30
1	B	20	ARG	CA-CB-CG	5.38	125.23	113.40
1	C	334	TYR	CB-CG-CD2	-5.38	117.77	121.00
1	L	92	LEU	O-C-N	5.38	131.30	122.70
1	L	178	GLY	N-CA-C	-5.38	99.66	113.10
1	F	337	ARG	NE-CZ-NH1	5.37	122.99	120.30
1	K	135	PHE	O-C-N	5.37	131.30	122.70
1	F	263	ASP	CA-C-N	5.37	129.00	117.20
1	J	70	ASP	CB-CG-OD1	5.37	123.13	118.30
1	A	447	ARG	NE-CZ-NH2	-5.36	117.62	120.30
1	F	447	ARG	NE-CZ-NH2	-5.36	117.62	120.30
1	G	447	ARG	NE-CZ-NH2	-5.36	117.62	120.30
1	I	263	ASP	CA-C-N	5.36	128.99	117.20
1	A	135	PHE	O-C-N	5.36	131.28	122.70
1	G	135	PHE	O-C-N	5.36	131.27	122.70
1	A	334	TYR	CB-CG-CD2	-5.36	117.79	121.00
1	F	135	PHE	O-C-N	5.36	131.27	122.70
1	I	20	ARG	CA-CB-CG	5.35	125.18	113.40
1	L	135	PHE	O-C-N	5.35	131.26	122.70
1	H	92	LEU	O-C-N	5.35	131.25	122.70
1	H	263	ASP	CA-C-N	5.35	128.96	117.20
1	J	263	ASP	CA-C-N	5.34	128.96	117.20
1	I	447	ARG	NE-CZ-NH2	-5.34	117.63	120.30
1	B	135	PHE	O-C-N	5.34	131.24	122.70
1	J	447	ARG	CD-NE-CZ	5.34	131.07	123.60
1	A	263	ASP	CA-C-N	5.33	128.93	117.20
1	K	463	GLU	CG-CD-OE2	-5.33	107.63	118.30
1	K	263	ASP	CA-C-N	5.33	128.93	117.20
1	G	334	TYR	CB-CG-CD2	-5.33	117.80	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	263	ASP	CA-C-N	5.33	128.92	117.20
1	C	337	ARG	NE-CZ-NH1	5.33	122.96	120.30
1	G	263	ASP	CA-C-N	5.33	128.92	117.20
1	E	263	ASP	CA-C-N	5.33	128.92	117.20
1	D	70	ASP	CB-CG-OD1	5.32	123.09	118.30
1	E	92	LEU	O-C-N	5.32	131.22	122.70
1	J	376	MET	CA-CB-CG	-5.32	104.25	113.30
1	H	155	GLU	N-CA-C	-5.32	96.63	111.00
1	I	92	LEU	O-C-N	5.32	131.21	122.70
1	B	376	MET	CA-CB-CG	-5.32	104.26	113.30
1	D	263	ASP	CA-C-N	5.32	128.90	117.20
1	E	447	ARG	NE-CZ-NH2	-5.31	117.64	120.30
1	I	334	TYR	CB-CG-CD2	-5.31	117.81	121.00
1	D	155	GLU	N-CA-C	-5.31	96.67	111.00
1	B	315	THR	O-C-N	5.31	131.19	122.70
1	K	155	GLU	N-CA-C	-5.30	96.68	111.00
1	C	155	GLU	N-CA-C	-5.30	96.69	111.00
1	I	155	GLU	N-CA-C	-5.30	96.69	111.00
1	H	447	ARG	CD-NE-CZ	5.30	131.01	123.60
1	I	447	ARG	CD-NE-CZ	5.30	131.01	123.60
1	K	376	MET	CA-CB-CG	-5.29	104.30	113.30
1	G	155	GLU	N-CA-C	-5.29	96.71	111.00
1	A	70	ASP	CB-CG-OD1	5.29	123.06	118.30
1	C	70	ASP	CB-CG-OD1	5.29	123.06	118.30
1	E	155	GLU	N-CA-C	-5.29	96.71	111.00
1	H	334	TYR	CB-CG-CD2	-5.29	117.83	121.00
1	L	155	GLU	N-CA-C	-5.29	96.71	111.00
1	F	155	GLU	N-CA-C	-5.29	96.72	111.00
1	J	155	GLU	N-CA-C	-5.29	96.72	111.00
1	I	376	MET	CA-CB-CG	-5.29	104.31	113.30
1	C	315	THR	O-C-N	5.28	131.15	122.70
1	D	334	TYR	CB-CG-CD2	-5.28	117.83	121.00
1	C	447	ARG	NE-CZ-NH2	-5.28	117.66	120.30
1	F	376	MET	CA-CB-CG	-5.28	104.32	113.30
1	F	398	ASP	CB-CG-OD2	-5.28	113.55	118.30
1	K	70	ASP	CB-CG-OD1	5.28	123.05	118.30
1	A	155	GLU	N-CA-C	-5.28	96.75	111.00
1	B	155	GLU	N-CA-C	-5.28	96.75	111.00
1	B	263	ASP	CA-C-N	5.28	128.81	117.20
1	A	376	MET	CA-CB-CG	-5.27	104.34	113.30
1	C	376	MET	CA-CB-CG	-5.27	104.33	113.30
1	C	447	ARG	CD-NE-CZ	5.27	130.98	123.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	447	ARG	CD-NE-CZ	5.27	130.98	123.60
1	J	20	ARG	NE-CZ-NH1	5.27	122.93	120.30
1	I	296	TYR	CB-CG-CD2	-5.27	117.84	121.00
1	L	296	TYR	CB-CG-CD2	-5.26	117.84	121.00
1	A	296	TYR	CB-CG-CD2	-5.26	117.84	121.00
1	D	376	MET	CA-CB-CG	-5.25	104.37	113.30
1	L	376	MET	CA-CB-CG	-5.25	104.37	113.30
1	K	447	ARG	CD-NE-CZ	5.25	130.95	123.60
1	L	464	LEU	CB-CA-C	5.25	120.17	110.20
1	D	447	ARG	CD-NE-CZ	5.25	130.94	123.60
1	B	70	ASP	CB-CG-OD1	5.24	123.01	118.30
1	G	464	LEU	CB-CA-C	5.24	120.15	110.20
1	D	389	GLY	N-CA-C	-5.23	100.01	113.10
1	C	136	ASP	CB-CG-OD2	-5.23	113.59	118.30
1	D	97	LEU	N-CA-CB	-5.23	99.94	110.40
1	I	464	LEU	CB-CA-C	5.23	120.14	110.20
1	C	464	LEU	CB-CA-C	5.22	120.13	110.20
1	E	296	TYR	CB-CG-CD2	-5.22	117.86	121.00
1	E	334	TYR	CB-CG-CD2	-5.22	117.87	121.00
1	E	376	MET	CA-CB-CG	-5.22	104.42	113.30
1	B	447	ARG	CD-NE-CZ	5.22	130.91	123.60
1	H	399	LEU	O-C-N	5.22	131.02	121.10
1	I	425	ARG	NE-CZ-NH1	-5.22	117.69	120.30
1	L	389	GLY	N-CA-C	-5.22	100.05	113.10
1	I	315	THR	O-C-N	5.22	131.05	122.70
1	L	54	ILE	N-CA-CB	5.22	122.81	110.80
1	A	447	ARG	CD-NE-CZ	5.22	130.91	123.60
1	B	389	GLY	N-CA-C	-5.22	100.06	113.10
1	G	376	MET	CA-CB-CG	-5.22	104.43	113.30
1	H	389	GLY	N-CA-C	-5.22	100.05	113.10
1	H	464	LEU	CB-CA-C	5.22	120.11	110.20
1	E	389	GLY	N-CA-C	-5.22	100.06	113.10
1	H	97	LEU	N-CA-CB	-5.22	99.97	110.40
1	A	389	GLY	N-CA-C	-5.21	100.06	113.10
1	D	464	LEU	CB-CA-C	5.21	120.11	110.20
1	H	376	MET	CA-CB-CG	-5.21	104.43	113.30
1	L	398	ASP	CB-CG-OD2	-5.21	113.61	118.30
1	K	399	LEU	O-C-N	5.21	131.00	121.10
1	H	315	THR	O-C-N	5.21	131.04	122.70
1	B	334	TYR	CB-CG-CD2	-5.21	117.88	121.00
1	D	315	THR	O-C-N	5.21	131.03	122.70
1	E	464	LEU	CB-CA-C	5.21	120.10	110.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	389	GLY	N-CA-C	-5.21	100.08	113.10
1	B	464	LEU	CB-CA-C	5.21	120.09	110.20
1	G	399	LEU	O-C-N	5.21	130.99	121.10
1	K	334	TYR	CB-CG-CD2	-5.21	117.88	121.00
1	G	315	THR	O-C-N	5.21	131.03	122.70
1	K	389	GLY	N-CA-C	-5.21	100.09	113.10
1	A	399	LEU	O-C-N	5.20	130.99	121.10
1	E	447	ARG	CD-NE-CZ	5.20	130.88	123.60
1	H	54	ILE	N-CA-CB	5.20	122.76	110.80
1	C	399	LEU	O-C-N	5.20	130.98	121.10
1	A	464	LEU	CB-CA-C	5.20	120.08	110.20
1	C	389	GLY	N-CA-C	-5.20	100.11	113.10
1	E	54	ILE	N-CA-CB	5.20	122.75	110.80
1	F	399	LEU	O-C-N	5.20	130.97	121.10
1	H	447	ARG	NE-CZ-NH2	-5.20	117.70	120.30
1	J	97	LEU	N-CA-CB	-5.20	100.01	110.40
1	E	97	LEU	N-CA-CB	-5.19	100.02	110.40
1	J	315	THR	O-C-N	5.19	131.01	122.70
1	D	399	LEU	O-C-N	5.19	130.96	121.10
1	G	97	LEU	N-CA-CB	-5.19	100.02	110.40
1	D	314	PRO	CA-C-O	5.19	132.65	120.20
1	F	389	GLY	N-CA-C	-5.19	100.13	113.10
1	F	464	LEU	CB-CA-C	5.19	120.06	110.20
1	G	447	ARG	CD-NE-CZ	5.19	130.86	123.60
1	C	351	PRO	CA-C-N	-5.19	105.79	117.20
1	C	97	LEU	N-CA-CB	-5.18	100.03	110.40
1	G	351	PRO	CA-C-N	-5.18	105.80	117.20
1	G	389	GLY	N-CA-C	-5.18	100.14	113.10
1	I	389	GLY	N-CA-C	-5.18	100.14	113.10
1	J	447	ARG	NE-CZ-NH2	-5.18	117.71	120.30
1	J	464	LEU	CB-CA-C	5.18	120.05	110.20
1	A	97	LEU	N-CA-CB	-5.18	100.03	110.40
1	C	287	TYR	CB-CG-CD2	5.18	124.11	121.00
1	D	54	ILE	N-CA-CB	5.18	122.72	110.80
1	J	399	LEU	O-C-N	5.18	130.95	121.10
1	K	54	ILE	N-CA-CB	5.18	122.72	110.80
1	L	399	LEU	O-C-N	5.18	130.95	121.10
1	K	464	LEU	CB-CA-C	5.18	120.04	110.20
1	L	136	ASP	CB-CG-OD2	-5.18	113.64	118.30
1	A	54	ILE	N-CA-CB	5.18	122.71	110.80
1	A	315	THR	O-C-N	5.18	130.99	122.70
1	K	97	LEU	N-CA-CB	-5.18	100.04	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	447	ARG	CD-NE-CZ	5.18	130.85	123.60
1	B	399	LEU	O-C-N	5.18	130.94	121.10
1	L	351	PRO	CA-C-N	-5.17	105.82	117.20
1	B	54	ILE	N-CA-CB	5.17	122.69	110.80
1	J	54	ILE	N-CA-CB	5.17	122.69	110.80
1	J	334	TYR	CB-CG-CD2	-5.17	117.90	121.00
1	K	315	THR	O-C-N	5.17	130.97	122.70
1	A	351	PRO	CA-C-N	-5.17	105.83	117.20
1	E	399	LEU	O-C-N	5.17	130.91	121.10
1	K	351	PRO	CA-C-N	-5.17	105.83	117.20
1	K	398	ASP	CB-CG-OD2	-5.17	113.65	118.30
1	B	296	TYR	CB-CG-CD2	-5.16	117.90	121.00
1	J	351	PRO	CA-C-N	-5.16	105.84	117.20
1	D	398	ASP	CB-CG-OD2	-5.16	113.65	118.30
1	A	136	ASP	CB-CG-OD2	-5.16	113.66	118.30
1	H	398	ASP	CB-CG-OD2	-5.16	113.66	118.30
1	F	54	ILE	N-CA-CB	5.16	122.66	110.80
1	L	97	LEU	N-CA-CB	-5.16	100.08	110.40
1	I	97	LEU	N-CA-CB	-5.16	100.09	110.40
1	C	54	ILE	N-CA-CB	5.16	122.66	110.80
1	D	351	PRO	CA-C-N	-5.16	105.86	117.20
1	E	315	THR	O-C-N	5.16	130.95	122.70
1	E	351	PRO	CA-C-N	-5.16	105.86	117.20
1	I	351	PRO	CA-C-N	-5.15	105.86	117.20
1	K	136	ASP	CB-CG-OD2	-5.15	113.66	118.30
1	C	110	ARG	NE-CZ-NH2	-5.15	117.72	120.30
1	I	54	ILE	N-CA-CB	5.15	122.65	110.80
1	I	136	ASP	CB-CG-OD2	-5.15	113.66	118.30
1	L	315	THR	O-C-N	5.15	130.93	122.70
1	B	97	LEU	N-CA-CB	-5.14	100.11	110.40
1	G	20	ARG	NE-CZ-NH1	5.14	122.87	120.30
1	D	136	ASP	CB-CG-OD2	-5.14	113.67	118.30
1	J	314	PRO	CA-C-O	5.14	132.54	120.20
1	C	398	ASP	CB-CG-OD2	-5.14	113.67	118.30
1	F	97	LEU	N-CA-CB	-5.14	100.12	110.40
1	F	296	TYR	CB-CG-CD2	-5.14	117.92	121.00
1	H	351	PRO	CA-C-N	-5.14	105.89	117.20
1	L	314	PRO	CA-C-O	5.14	132.54	120.20
1	G	54	ILE	N-CA-CB	5.14	122.61	110.80
1	G	314	PRO	CA-C-O	5.14	132.53	120.20
1	C	296	TYR	CB-CG-CD2	-5.13	117.92	121.00
1	F	314	PRO	CA-C-O	5.13	132.52	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	20	ARG	NE-CZ-NH1	5.13	122.87	120.30
1	H	314	PRO	CA-C-O	5.13	132.51	120.20
1	D	296	TYR	CB-CG-CD2	-5.13	117.92	121.00
1	I	399	LEU	O-C-N	5.13	130.85	121.10
1	B	68	MET	CB-CA-C	5.13	120.66	110.40
1	B	314	PRO	CA-C-O	5.13	132.51	120.20
1	F	315	THR	O-C-N	5.13	130.91	122.70
1	E	136	ASP	CB-CG-OD2	-5.13	113.69	118.30
1	C	314	PRO	CA-C-O	5.12	132.50	120.20
1	F	136	ASP	CB-CG-OD2	-5.12	113.69	118.30
1	J	296	TYR	CB-CG-CD2	-5.12	117.93	121.00
1	B	351	PRO	CA-C-N	-5.12	105.93	117.20
1	B	398	ASP	CB-CG-OD2	-5.12	113.69	118.30
1	H	122	ASP	N-CA-CB	5.12	119.82	110.60
1	A	314	PRO	CA-C-O	5.12	132.48	120.20
1	H	20	ARG	NE-CZ-NH1	5.12	122.86	120.30
1	E	398	ASP	CB-CG-OD2	-5.12	113.70	118.30
1	C	20	ARG	NE-CZ-NH1	5.11	122.86	120.30
1	F	351	PRO	CA-C-N	-5.11	105.95	117.20
1	K	155	GLU	C-N-CA	-5.11	111.56	122.30
1	J	136	ASP	CB-CG-OD2	-5.11	113.70	118.30
1	E	20	ARG	NE-CZ-NH1	5.10	122.85	120.30
1	F	155	GLU	C-N-CA	-5.10	111.58	122.30
1	H	68	MET	CB-CA-C	5.10	120.60	110.40
1	A	155	GLU	C-N-CA	-5.10	111.59	122.30
1	C	155	GLU	C-N-CA	-5.10	111.59	122.30
1	H	296	TYR	CB-CG-CD2	-5.10	117.94	121.00
1	E	155	GLU	C-N-CA	-5.10	111.59	122.30
1	G	155	GLU	C-N-CA	-5.10	111.59	122.30
1	I	23	ASP	C-N-CA	5.10	134.44	121.70
1	K	68	MET	CB-CA-C	5.10	120.60	110.40
1	C	68	MET	CB-CA-C	5.10	120.59	110.40
1	G	82	ASP	CB-CG-OD1	-5.10	113.71	118.30
1	F	215	THR	OG1-CB-CG2	5.09	121.72	110.00
1	G	215	THR	OG1-CB-CG2	5.09	121.72	110.00
1	G	296	TYR	CB-CG-CD2	-5.09	117.94	121.00
1	A	398	ASP	CB-CG-OD2	-5.09	113.72	118.30
1	C	357	GLU	CA-CB-CG	5.09	124.60	113.40
1	D	155	GLU	C-N-CA	-5.09	111.61	122.30
1	E	314	PRO	CA-C-O	5.09	132.42	120.20
1	I	215	THR	OG1-CB-CG2	5.09	121.70	110.00
1	I	314	PRO	CA-C-O	5.09	132.41	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	136	ASP	CB-CG-OD2	-5.09	113.72	118.30
1	D	447	ARG	NE-CZ-NH2	-5.09	117.76	120.30
1	B	102	ARG	O-C-N	5.09	130.84	122.70
1	E	215	THR	OG1-CB-CG2	5.09	121.70	110.00
1	H	102	ARG	O-C-N	5.09	130.84	122.70
1	I	20	ARG	NE-CZ-NH1	5.09	122.84	120.30
1	I	398	ASP	CB-CG-OD2	-5.09	113.72	118.30
1	L	155	GLU	C-N-CA	-5.09	111.62	122.30
1	B	215	THR	OG1-CB-CG2	5.08	121.70	110.00
1	D	68	MET	CB-CA-C	5.08	120.57	110.40
1	I	82	ASP	CB-CG-OD1	-5.08	113.72	118.30
1	K	122	ASP	N-CA-CB	5.08	119.75	110.60
1	A	122	ASP	N-CA-CB	5.08	119.75	110.60
1	K	314	PRO	CA-C-O	5.08	132.40	120.20
1	A	215	THR	OG1-CB-CG2	5.08	121.69	110.00
1	B	82	ASP	CB-CG-OD1	-5.08	113.73	118.30
1	C	215	THR	OG1-CB-CG2	5.08	121.69	110.00
1	G	136	ASP	CB-CG-OD2	-5.08	113.73	118.30
1	H	136	ASP	CB-CG-OD2	-5.08	113.73	118.30
1	A	82	ASP	CB-CG-OD1	-5.08	113.73	118.30
1	F	122	ASP	N-CA-CB	5.08	119.74	110.60
1	I	110	ARG	NE-CZ-NH2	-5.08	117.76	120.30
1	E	68	MET	CB-CA-C	5.08	120.55	110.40
1	E	425	ARG	NE-CZ-NH1	-5.08	117.76	120.30
1	F	23	ASP	C-N-CA	5.08	134.39	121.70
1	I	63	SER	N-CA-CB	-5.08	102.89	110.50
1	I	155	GLU	C-N-CA	-5.07	111.64	122.30
1	J	155	GLU	C-N-CA	-5.07	111.65	122.30
1	K	215	THR	OG1-CB-CG2	5.07	121.67	110.00
1	G	122	ASP	N-CA-CB	5.07	119.73	110.60
1	I	68	MET	CB-CA-C	5.07	120.54	110.40
1	J	215	THR	OG1-CB-CG2	5.07	121.66	110.00
1	A	20	ARG	NE-CZ-NH1	5.07	122.83	120.30
1	H	215	THR	OG1-CB-CG2	5.07	121.66	110.00
1	I	287	TYR	CB-CG-CD2	5.07	124.04	121.00
1	J	122	ASP	N-CA-CB	5.07	119.72	110.60
1	F	63	SER	N-CA-CB	-5.07	102.90	110.50
1	C	63	SER	N-CA-CB	-5.06	102.90	110.50
1	A	63	SER	N-CA-CB	-5.06	102.91	110.50
1	F	68	MET	CB-CA-C	5.06	120.52	110.40
1	G	398	ASP	CB-CG-OD2	-5.06	113.74	118.30
1	D	122	ASP	N-CA-CB	5.06	119.71	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	23	ASP	C-N-CA	5.06	134.35	121.70
1	J	63	SER	N-CA-CB	-5.06	102.91	110.50
1	J	287	TYR	CB-CG-CD2	5.06	124.04	121.00
1	L	122	ASP	N-CA-CB	5.06	119.70	110.60
1	C	82	ASP	CB-CG-OD1	-5.06	113.75	118.30
1	E	63	SER	N-CA-CB	-5.06	102.91	110.50
1	E	379	LEU	CB-CG-CD1	-5.06	102.40	111.00
1	H	23	ASP	C-N-CA	5.06	134.34	121.70
1	L	23	ASP	C-N-CA	5.06	134.35	121.70
1	G	68	MET	CB-CA-C	5.06	120.51	110.40
1	I	122	ASP	N-CA-CB	5.06	119.70	110.60
1	K	357	GLU	CA-CB-CG	5.06	124.52	113.40
1	A	68	MET	CB-CA-C	5.05	120.51	110.40
1	H	155	GLU	C-N-CA	-5.05	111.69	122.30
1	L	20	ARG	NE-CZ-NH1	5.05	122.83	120.30
1	L	88	ARG	CA-C-N	-5.05	106.08	117.20
1	D	82	ASP	CB-CG-OD1	-5.05	113.75	118.30
1	F	102	ARG	O-C-N	5.05	130.78	122.70
1	B	23	ASP	C-N-CA	5.05	134.33	121.70
1	L	102	ARG	O-C-N	5.05	130.78	122.70
1	L	215	THR	OG1-CB-CG2	5.05	121.62	110.00
1	E	122	ASP	N-CA-CB	5.05	119.69	110.60
1	F	357	GLU	CA-CB-CG	5.05	124.51	113.40
1	H	82	ASP	CB-CG-OD1	-5.05	113.75	118.30
1	J	68	MET	CB-CA-C	5.05	120.50	110.40
1	L	68	MET	CB-CA-C	5.05	120.50	110.40
1	C	23	ASP	C-N-CA	5.05	134.32	121.70
1	L	110	ARG	NE-CZ-NH2	-5.05	117.78	120.30
1	B	357	GLU	CA-CB-CG	5.05	124.50	113.40
1	D	20	ARG	NE-CZ-NH1	5.05	122.82	120.30
1	I	90	ASP	O-C-N	5.05	130.77	122.70
1	B	7	THR	CA-CB-OG1	5.04	119.59	109.00
1	D	102	ARG	O-C-N	5.04	130.77	122.70
1	A	23	ASP	C-N-CA	5.04	134.31	121.70
1	D	215	THR	OG1-CB-CG2	5.04	121.60	110.00
1	E	23	ASP	C-N-CA	5.04	134.31	121.70
1	H	63	SER	N-CA-CB	-5.04	102.94	110.50
1	D	129	GLU	CA-CB-CG	5.04	124.49	113.40
1	K	153	ASP	CB-CG-OD1	5.04	122.84	118.30
1	K	327	GLU	O-C-N	5.04	130.76	122.70
1	C	122	ASP	N-CA-CB	5.04	119.67	110.60
1	H	357	GLU	CA-CB-CG	5.04	124.49	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	23	ASP	C-N-CA	5.04	134.30	121.70
1	A	357	GLU	CA-CB-CG	5.04	124.49	113.40
1	B	63	SER	N-CA-CB	-5.04	102.94	110.50
1	B	122	ASP	N-CA-CB	5.04	119.67	110.60
1	D	23	ASP	C-N-CA	5.04	134.30	121.70
1	D	63	SER	N-CA-CB	-5.04	102.94	110.50
1	K	88	ARG	CA-C-N	-5.04	106.12	117.20
1	F	82	ASP	CB-CG-OD1	-5.04	113.77	118.30
1	G	7	THR	CA-CB-OG1	5.04	119.58	109.00
1	H	110	ARG	NE-CZ-NH2	-5.04	117.78	120.30
1	I	88	ARG	CA-C-N	-5.04	106.12	117.20
1	J	425	ARG	NE-CZ-NH1	-5.04	117.78	120.30
1	C	437	GLU	CA-C-N	-5.04	106.12	117.20
1	G	23	ASP	C-N-CA	5.03	134.28	121.70
1	L	82	ASP	CB-CG-OD1	-5.03	113.77	118.30
1	B	155	GLU	C-N-CA	-5.03	111.73	122.30
1	B	449	GLU	CG-CD-OE2	-5.03	108.24	118.30
1	C	449	GLU	CG-CD-OE2	-5.03	108.24	118.30
1	F	90	ASP	O-C-N	5.03	130.75	122.70
1	G	102	ARG	O-C-N	5.03	130.75	122.70
1	E	102	ARG	O-C-N	5.03	130.75	122.70
1	I	437	GLU	CA-C-N	-5.03	106.14	117.20
1	J	398	ASP	CB-CG-OD2	-5.03	113.77	118.30
1	B	88	ARG	CA-C-N	-5.03	106.14	117.20
1	E	88	ARG	CA-C-N	-5.03	106.14	117.20
1	L	449	GLU	CG-CD-OE2	-5.03	108.25	118.30
1	C	7	THR	CA-CB-OG1	5.03	119.55	109.00
1	D	90	ASP	O-C-N	5.03	130.74	122.70
1	G	88	ARG	CA-C-N	-5.03	106.14	117.20
1	C	327	GLU	O-C-N	5.02	130.74	122.70
1	F	7	THR	CA-CB-OG1	5.02	119.55	109.00
1	H	278	GLY	C-N-CA	5.02	134.26	121.70
1	I	102	ARG	O-C-N	5.02	130.74	122.70
1	A	88	ARG	CA-C-N	-5.02	106.15	117.20
1	K	63	SER	N-CA-CB	-5.02	102.97	110.50
1	C	153	ASP	CB-CG-OD1	5.02	122.82	118.30
1	G	278	GLY	C-N-CA	5.02	134.25	121.70
1	H	437	GLU	CA-C-N	-5.02	106.16	117.20
1	H	449	GLU	CG-CD-OE2	-5.02	108.26	118.30
1	J	357	GLU	CA-CB-CG	5.02	124.44	113.40
1	A	287	TYR	CB-CG-CD2	5.02	124.01	121.00
1	F	327	GLU	O-C-N	5.02	130.73	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	437	GLU	CA-C-N	-5.02	106.16	117.20
1	F	437	GLU	CA-C-N	-5.02	106.17	117.20
1	G	5	VAL	O-C-N	5.02	130.73	122.70
1	L	425	ARG	NE-CZ-NH1	-5.02	117.79	120.30
1	C	88	ARG	CA-C-N	-5.01	106.17	117.20
1	C	102	ARG	O-C-N	5.01	130.72	122.70
1	I	357	GLU	CA-CB-CG	5.01	124.43	113.40
1	I	449	GLU	CG-CD-OE2	-5.01	108.27	118.30
1	L	7	THR	CA-CB-OG1	5.01	119.53	109.00
1	A	7	THR	CA-CB-OG1	5.01	119.53	109.00
1	D	379	LEU	CB-CG-CD1	-5.01	102.48	111.00
1	D	88	ARG	CA-C-N	-5.01	106.18	117.20
1	E	357	GLU	CA-CB-CG	5.01	124.43	113.40
1	K	449	GLU	CG-CD-OE2	-5.01	108.28	118.30
1	L	278	GLY	C-N-CA	5.01	134.23	121.70
1	G	129	GLU	CA-CB-CG	5.01	124.42	113.40
1	D	357	GLU	CA-CB-CG	5.01	124.42	113.40
1	G	357	GLU	CA-CB-CG	5.01	124.42	113.40
1	J	82	ASP	CB-CG-OD1	-5.01	113.79	118.30
1	D	449	GLU	CG-CD-OE2	-5.01	108.29	118.30
1	F	129	GLU	CA-CB-CG	5.01	124.42	113.40
1	G	379	LEU	CB-CG-CD1	-5.01	102.49	111.00
1	L	63	SER	N-CA-CB	-5.01	102.99	110.50
1	A	425	ARG	NE-CZ-NH1	-5.00	117.80	120.30
1	C	425	ARG	NE-CZ-NH1	-5.00	117.80	120.30
1	H	7	THR	CA-CB-OG1	5.00	119.51	109.00
1	I	379	LEU	CB-CG-CD1	-5.00	102.49	111.00
1	A	379	LEU	CB-CG-CD1	-5.00	102.50	111.00
1	E	110	ARG	NE-CZ-NH2	-5.00	117.80	120.30
1	E	327	GLU	O-C-N	5.00	130.70	122.70
1	J	449	GLU	CG-CD-OE2	-5.00	108.30	118.30
1	L	366	ASN	CB-CG-OD1	-5.00	111.60	121.60

All (12) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	315	THR	CA
1	B	315	THR	CA
1	C	315	THR	CA
1	D	315	THR	CA
1	E	315	THR	CA
1	F	315	THR	CA

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Mol	Chain	Res	Type	Atom
1	G	315	THR	CA
1	H	315	THR	CA
1	I	315	THR	CA
1	J	315	THR	CA
1	K	315	THR	CA
1	L	315	THR	CA

All (36) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	224	ARG	Sidechain
1	A	339	ARG	Sidechain
1	A	355	ARG	Sidechain
1	B	224	ARG	Sidechain
1	B	339	ARG	Sidechain
1	B	355	ARG	Sidechain
1	C	224	ARG	Sidechain
1	C	339	ARG	Sidechain
1	C	355	ARG	Sidechain
1	D	224	ARG	Sidechain
1	D	339	ARG	Sidechain
1	D	355	ARG	Sidechain
1	E	224	ARG	Sidechain
1	E	339	ARG	Sidechain
1	E	355	ARG	Sidechain
1	F	224	ARG	Sidechain
1	F	339	ARG	Sidechain
1	F	355	ARG	Sidechain
1	G	224	ARG	Sidechain
1	G	339	ARG	Sidechain
1	G	355	ARG	Sidechain
1	H	224	ARG	Sidechain
1	H	339	ARG	Sidechain
1	H	355	ARG	Sidechain
1	I	224	ARG	Sidechain
1	I	339	ARG	Sidechain
1	I	355	ARG	Sidechain
1	J	224	ARG	Sidechain
1	J	339	ARG	Sidechain
1	J	355	ARG	Sidechain
1	K	224	ARG	Sidechain
1	K	339	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	K	355	ARG	Sidechain
1	L	224	ARG	Sidechain
1	L	339	ARG	Sidechain
1	L	355	ARG	Sidechain

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3636	0	3538	1334	0
1	B	3636	0	3538	1346	2
1	C	3636	0	3538	1354	28
1	D	3636	0	3538	1353	2
1	E	3636	0	3538	1357	28
1	F	3636	0	3538	1342	0
1	G	3636	0	3538	1339	4
1	H	3636	0	3538	1340	28
1	I	3636	0	3538	1355	4
1	J	3636	0	3538	1355	0
1	K	3636	0	3538	1353	0
1	L	3636	0	3538	1352	28
2	A	2	0	0	0	0
2	B	2	0	0	0	0
2	C	2	0	0	0	0
2	D	2	0	0	0	0
2	E	2	0	0	0	0
2	F	2	0	0	0	0
2	G	2	0	0	0	0
2	H	2	0	0	0	0
2	I	2	0	0	0	0
2	J	2	0	0	0	0
2	K	2	0	0	0	0
2	L	2	0	0	0	0
3	A	3	0	0	0	0
3	B	3	0	0	0	0
3	C	3	0	0	0	0
3	D	3	0	0	0	0
3	E	3	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	F	3	0	0	0	0
3	G	3	0	0	0	0
3	H	3	0	0	0	0
3	I	3	0	0	0	0
3	J	3	0	0	0	0
3	K	3	0	0	0	0
3	L	3	0	0	0	0
All	All	43692	0	42456	15034	62

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 175.

All (15034) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:465:TYR:CD2	1:L:315:THR:CG2	1.94	1.50
1:B:315:THR:CG2	1:H:465:TYR:CD2	1.94	1.50
1:C:315:THR:CG2	1:I:465:TYR:CD2	1.94	1.50
1:E:465:TYR:CD2	1:K:315:THR:CG2	1.94	1.50
1:B:465:TYR:CD2	1:H:315:THR:CG2	1.94	1.49
1:F:315:THR:CG2	1:L:465:TYR:CD2	1.94	1.49
1:G:79:PHE:HD1	1:G:80:PHE:CD1	1.31	1.49
1:A:79:PHE:HD1	1:A:80:PHE:CD1	1.31	1.49
1:B:79:PHE:HD1	1:B:80:PHE:CD1	1.31	1.49
1:C:465:TYR:CD2	1:I:315:THR:CG2	1.94	1.49
1:E:315:THR:CG2	1:K:465:TYR:CD2	1.94	1.49
1:D:27:LYS:HZ3	1:D:239:LYS:NZ	1.09	1.48
1:L:79:PHE:HD1	1:L:80:PHE:CD1	1.31	1.48
1:D:465:TYR:CD2	1:J:315:THR:CG2	1.94	1.48
1:F:27:LYS:HZ3	1:F:239:LYS:NZ	1.08	1.48
1:H:79:PHE:HD1	1:H:80:PHE:CD1	1.31	1.48
1:F:79:PHE:HD1	1:F:80:PHE:CD1	1.31	1.48
1:D:315:THR:CG2	1:J:465:TYR:CD2	1.94	1.48
1:H:27:LYS:HZ3	1:H:239:LYS:NZ	1.09	1.47
1:J:27:LYS:HZ3	1:J:239:LYS:NZ	1.10	1.47
1:A:315:THR:CG2	1:G:465:TYR:CD2	1.94	1.47
1:A:465:TYR:CD2	1:G:315:THR:CG2	1.94	1.47
1:C:79:PHE:HD1	1:C:80:PHE:CD1	1.31	1.47
1:I:79:PHE:HD1	1:I:80:PHE:CD1	1.31	1.47
1:C:79:PHE:CD1	1:C:80:PHE:HD1	1.31	1.47
1:G:79:PHE:CD1	1:G:80:PHE:HD1	1.31	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:79:PHE:HD1	1:E:80:PHE:CD1	1.31	1.47
1:K:79:PHE:CD1	1:K:80:PHE:HD1	1.31	1.47
1:K:79:PHE:HD1	1:K:80:PHE:CD1	1.31	1.47
1:A:79:PHE:CD1	1:A:80:PHE:HD1	1.31	1.46
1:E:27:LYS:HZ3	1:E:239:LYS:NZ	1.00	1.46
1:D:79:PHE:HD1	1:D:80:PHE:CD1	1.31	1.46
1:D:79:PHE:CD1	1:D:80:PHE:HD1	1.31	1.46
1:F:79:PHE:CD1	1:F:80:PHE:HD1	1.31	1.45
1:L:79:PHE:CD1	1:L:80:PHE:HD1	1.31	1.45
1:B:79:PHE:CD1	1:B:80:PHE:HD1	1.31	1.45
1:H:79:PHE:CD1	1:H:80:PHE:HD1	1.31	1.45
1:J:79:PHE:HD1	1:J:80:PHE:CD1	1.31	1.45
1:J:79:PHE:CD1	1:J:80:PHE:HD1	1.31	1.45
1:L:93:GLU:HB3	1:L:94:PRO:CD	1.41	1.45
1:G:93:GLU:HB3	1:G:94:PRO:CD	1.41	1.45
1:A:93:GLU:HB3	1:A:94:PRO:CD	1.41	1.44
1:B:93:GLU:HB3	1:B:94:PRO:CD	1.41	1.44
1:E:79:PHE:CD1	1:E:80:PHE:HD1	1.31	1.44
1:I:79:PHE:CD1	1:I:80:PHE:HD1	1.31	1.44
1:G:27:LYS:HZ3	1:G:239:LYS:NZ	1.09	1.44
1:K:93:GLU:HB3	1:K:94:PRO:CD	1.41	1.43
1:C:93:GLU:HB3	1:C:94:PRO:CD	1.41	1.43
1:A:27:LYS:HZ3	1:A:239:LYS:NZ	1.10	1.42
1:F:93:GLU:HB3	1:F:94:PRO:CD	1.41	1.42
1:H:93:GLU:HB3	1:H:94:PRO:CD	1.41	1.42
1:J:27:LYS:NZ	1:J:239:LYS:HZ1	1.04	1.42
1:E:93:GLU:HB3	1:E:94:PRO:CD	1.41	1.41
1:D:93:GLU:HB3	1:D:94:PRO:CD	1.41	1.41
1:J:93:GLU:HB3	1:J:94:PRO:CD	1.42	1.41
1:I:93:GLU:HB3	1:I:94:PRO:CD	1.41	1.41
1:K:27:LYS:NZ	1:K:239:LYS:HZ1	1.19	1.40
1:B:27:LYS:HZ3	1:B:239:LYS:NZ	1.11	1.40
1:C:27:LYS:NZ	1:C:239:LYS:HZ1	1.21	1.39
1:D:27:LYS:NZ	1:D:239:LYS:HZ1	1.18	1.39
1:K:27:LYS:HZ3	1:K:239:LYS:NZ	1.16	1.38
1:C:27:LYS:HZ3	1:C:239:LYS:NZ	1.16	1.38
1:E:27:LYS:NZ	1:E:239:LYS:HZ1	1.16	1.38
1:A:27:LYS:NZ	1:A:239:LYS:HZ1	1.21	1.37
1:F:27:LYS:NZ	1:F:239:LYS:HZ1	1.21	1.37
1:F:76:ILE:HD11	1:F:202:MET:CE	1.54	1.37
1:G:27:LYS:NZ	1:G:239:LYS:HZ1	1.21	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:27:LYS:NZ	1:H:239:LYS:HZ1	1.21	1.37
1:H:76:ILE:HD11	1:H:202:MET:CE	1.54	1.37
1:C:76:ILE:HD12	1:C:76:ILE:N	1.29	1.36
1:A:76:ILE:HD11	1:A:202:MET:CE	1.54	1.36
1:G:76:ILE:HD11	1:G:202:MET:CE	1.54	1.36
1:K:76:ILE:HD12	1:K:76:ILE:N	1.29	1.36
1:I:76:ILE:HD11	1:I:202:MET:CE	1.54	1.36
1:C:76:ILE:HD11	1:C:202:MET:CE	1.54	1.35
1:I:27:LYS:NZ	1:I:239:LYS:HZ1	1.18	1.35
1:B:76:ILE:HD11	1:B:202:MET:CE	1.54	1.35
1:E:76:ILE:HD11	1:E:202:MET:CE	1.54	1.35
1:K:76:ILE:HD11	1:K:202:MET:CE	1.54	1.35
1:L:76:ILE:HD11	1:L:202:MET:CE	1.54	1.35
1:C:315:THR:HG23	1:I:465:TYR:CE2	1.62	1.35
1:D:466:TYR:OH	1:J:252:THR:HG21	1.21	1.35
1:E:76:ILE:H	1:E:76:ILE:CD1	1.33	1.35
1:E:465:TYR:CE2	1:K:315:THR:HG23	1.62	1.35
1:D:79:PHE:CD1	1:D:80:PHE:CD1	2.09	1.34
1:B:27:LYS:NZ	1:B:239:LYS:HZ1	1.24	1.34
1:I:27:LYS:HZ3	1:I:239:LYS:NZ	1.22	1.34
1:J:79:PHE:CD1	1:J:80:PHE:CD1	2.09	1.34
1:D:252:THR:HG21	1:J:466:TYR:OH	1.21	1.34
1:D:76:ILE:HD11	1:D:202:MET:CE	1.54	1.34
1:L:27:LYS:NZ	1:L:239:LYS:HZ1	1.24	1.34
1:L:79:PHE:CD1	1:L:80:PHE:CD1	2.09	1.34
1:B:79:PHE:CD1	1:B:80:PHE:CD1	2.09	1.33
1:D:315:THR:HG23	1:J:465:TYR:CE2	1.62	1.33
1:D:465:TYR:CE2	1:J:315:THR:HG23	1.62	1.33
1:J:76:ILE:HD11	1:J:202:MET:CE	1.54	1.33
1:A:252:THR:HG21	1:G:466:TYR:OH	1.21	1.33
1:B:465:TYR:CE2	1:H:315:THR:HG23	1.62	1.33
1:F:465:TYR:CE2	1:L:315:THR:HG23	1.62	1.33
1:K:76:ILE:H	1:K:76:ILE:CD1	1.33	1.33
1:B:315:THR:HG23	1:H:465:TYR:CE2	1.62	1.33
1:C:76:ILE:H	1:C:76:ILE:CD1	1.33	1.33
1:J:76:ILE:H	1:J:76:ILE:CD1	1.33	1.33
1:A:466:TYR:OH	1:G:252:THR:HG21	1.21	1.33
1:D:76:ILE:H	1:D:76:ILE:CD1	1.33	1.33
1:F:315:THR:HG23	1:L:465:TYR:CE2	1.62	1.33
1:G:76:ILE:H	1:G:76:ILE:CD1	1.33	1.33
1:C:465:TYR:CE2	1:I:315:THR:HG23	1.62	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:315:THR:HG23	1:K:465:TYR:CE2	1.62	1.33
1:B:76:ILE:HD12	1:B:76:ILE:N	1.29	1.32
1:A:76:ILE:H	1:A:76:ILE:CD1	1.33	1.32
1:A:315:THR:HG23	1:G:465:TYR:CE2	1.62	1.32
1:C:466:TYR:OH	1:I:252:THR:HG21	1.21	1.32
1:L:76:ILE:HD12	1:L:76:ILE:N	1.29	1.32
1:A:465:TYR:CE2	1:G:315:THR:HG23	1.62	1.32
1:B:252:THR:HG21	1:H:466:TYR:OH	1.21	1.32
1:E:252:THR:HG21	1:K:466:TYR:OH	1.21	1.32
1:L:27:LYS:HZ3	1:L:239:LYS:NZ	1.24	1.32
1:L:89:CYS:SG	1:L:103:ASP:HA	1.69	1.32
1:B:89:CYS:SG	1:B:103:ASP:HA	1.69	1.32
1:C:252:THR:CG2	1:I:466:TYR:OH	1.78	1.32
1:D:465:TYR:CD2	1:J:315:THR:HG21	1.59	1.32
1:E:466:TYR:OH	1:K:252:THR:CG2	1.78	1.32
1:D:252:THR:CG2	1:J:466:TYR:OH	1.78	1.32
1:D:315:THR:HG21	1:J:465:TYR:CD2	1.60	1.32
1:D:466:TYR:OH	1:J:252:THR:CG2	1.78	1.32
1:K:89:CYS:SG	1:K:103:ASP:HA	1.70	1.32
1:C:89:CYS:SG	1:C:103:ASP:HA	1.70	1.31
1:F:466:TYR:OH	1:L:252:THR:HG21	1.21	1.31
1:L:76:ILE:H	1:L:76:ILE:CD1	1.33	1.31
1:B:76:ILE:H	1:B:76:ILE:CD1	1.32	1.31
1:C:79:PHE:CD1	1:C:80:PHE:CD1	2.09	1.31
1:F:466:TYR:OH	1:L:252:THR:CG2	1.78	1.31
1:K:79:PHE:CD1	1:K:80:PHE:CD1	2.09	1.31
1:C:466:TYR:OH	1:I:252:THR:CG2	1.78	1.31
1:D:76:ILE:HD12	1:D:76:ILE:N	1.29	1.31
1:F:315:THR:HG21	1:L:465:TYR:CD2	1.59	1.31
1:B:252:THR:CG2	1:H:466:TYR:OH	1.78	1.31
1:B:465:TYR:CD2	1:H:315:THR:HG21	1.59	1.31
1:E:252:THR:CG2	1:K:466:TYR:OH	1.78	1.31
1:A:315:THR:HG21	1:G:465:TYR:CD2	1.59	1.31
1:B:466:TYR:OH	1:H:252:THR:HG21	1.21	1.31
1:E:89:CYS:SG	1:E:103:ASP:HA	1.70	1.31
1:F:252:THR:HG21	1:L:466:TYR:OH	1.21	1.31
1:J:89:CYS:SG	1:J:103:ASP:HA	1.69	1.31
1:A:89:CYS:SG	1:A:103:ASP:HA	1.70	1.30
1:A:465:TYR:CD2	1:G:315:THR:HG21	1.59	1.30
1:A:466:TYR:OH	1:G:252:THR:CG2	1.78	1.30
1:D:89:CYS:SG	1:D:103:ASP:HA	1.70	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:89:CYS:SG	1:G:103:ASP:HA	1.70	1.30
1:A:96:THR:C	1:A:97:LEU:HG	1.40	1.30
1:D:96:THR:C	1:D:97:LEU:HG	1.40	1.30
1:H:89:CYS:SG	1:H:103:ASP:HA	1.70	1.30
1:I:89:CYS:SG	1:I:103:ASP:HA	1.70	1.30
1:A:252:THR:CG2	1:G:466:TYR:OH	1.78	1.30
1:B:466:TYR:OH	1:H:252:THR:CG2	1.78	1.30
1:E:96:THR:C	1:E:97:LEU:HG	1.40	1.30
1:F:89:CYS:SG	1:F:103:ASP:HA	1.70	1.30
1:G:96:THR:C	1:G:97:LEU:HG	1.40	1.30
1:J:76:ILE:HD12	1:J:76:ILE:N	1.29	1.30
1:J:96:THR:C	1:J:97:LEU:HG	1.40	1.30
1:F:252:THR:CG2	1:L:466:TYR:OH	1.78	1.30
1:I:96:THR:C	1:I:97:LEU:HG	1.40	1.30
1:F:79:PHE:CD1	1:F:80:PHE:CD1	2.09	1.30
1:I:76:ILE:H	1:I:76:ILE:CD1	1.33	1.30
1:F:76:ILE:H	1:F:76:ILE:CD1	1.33	1.29
1:E:466:TYR:OH	1:K:252:THR:HG21	1.21	1.29
1:H:79:PHE:CD1	1:H:80:PHE:CD1	2.09	1.29
1:A:79:PHE:CD1	1:A:80:PHE:CD1	2.09	1.29
1:H:96:THR:C	1:H:97:LEU:HG	1.40	1.29
1:D:315:THR:OG1	1:J:465:TYR:CG	1.83	1.29
1:E:79:PHE:CD1	1:E:80:PHE:CD1	2.09	1.29
1:F:96:THR:C	1:F:97:LEU:HG	1.40	1.29
1:B:465:TYR:CG	1:H:315:THR:OG1	1.83	1.29
1:C:315:THR:HG21	1:I:465:TYR:CD2	1.59	1.29
1:D:465:TYR:CG	1:J:315:THR:OG1	1.83	1.29
1:F:315:THR:OG1	1:L:465:TYR:CG	1.83	1.29
1:G:79:PHE:CD1	1:G:80:PHE:CD1	2.09	1.29
1:A:465:TYR:CG	1:G:315:THR:OG1	1.83	1.28
1:E:465:TYR:CD2	1:K:315:THR:HG21	1.59	1.28
1:B:315:THR:HG21	1:H:465:TYR:CD2	1.59	1.28
1:I:79:PHE:CD1	1:I:80:PHE:CD1	2.09	1.28
1:A:315:THR:OG1	1:G:465:TYR:CG	1.83	1.28
1:C:252:THR:HG21	1:I:466:TYR:OH	1.21	1.28
1:F:465:TYR:CD2	1:L:315:THR:HG21	1.60	1.28
1:C:96:THR:C	1:C:97:LEU:HG	1.40	1.27
1:D:155:GLU:OE1	1:D:187:SER:HB3	1.34	1.27
1:C:27:LYS:NZ	1:C:239:LYS:NZ	1.79	1.27
1:E:76:ILE:HD12	1:E:76:ILE:N	1.29	1.27
1:F:155:GLU:OE1	1:F:187:SER:HB3	1.34	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:155:GLU:OE1	1:H:187:SER:HB3	1.34	1.27
1:J:155:GLU:OE1	1:J:187:SER:HB3	1.35	1.27
1:K:96:THR:C	1:K:97:LEU:HG	1.40	1.27
1:E:315:THR:HG21	1:K:465:TYR:CD2	1.59	1.27
1:I:76:ILE:HD12	1:I:76:ILE:N	1.29	1.27
1:C:465:TYR:CD2	1:I:315:THR:HG21	1.59	1.26
1:D:27:LYS:NZ	1:D:239:LYS:NZ	1.79	1.26
1:F:76:ILE:HD12	1:F:76:ILE:N	1.29	1.26
1:F:465:TYR:CG	1:L:315:THR:OG1	1.83	1.26
1:H:76:ILE:HD12	1:H:76:ILE:N	1.29	1.26
1:B:315:THR:OG1	1:H:465:TYR:CG	1.83	1.26
1:C:155:GLU:OE1	1:C:187:SER:HB3	1.34	1.25
1:K:155:GLU:OE1	1:K:187:SER:HB3	1.34	1.25
1:L:27:LYS:NZ	1:L:239:LYS:NZ	1.79	1.25
1:H:76:ILE:H	1:H:76:ILE:CD1	1.33	1.24
1:G:155:GLU:OE1	1:G:187:SER:HB3	1.35	1.24
1:B:27:LYS:NZ	1:B:239:LYS:NZ	1.79	1.24
1:E:465:TYR:CG	1:K:315:THR:OG1	1.83	1.24
1:A:76:ILE:HD12	1:A:76:ILE:N	1.29	1.24
1:A:155:GLU:OE1	1:A:187:SER:HB3	1.35	1.24
1:C:465:TYR:CE2	1:I:315:THR:CG2	2.20	1.24
1:C:465:TYR:CG	1:I:315:THR:OG1	1.83	1.24
1:E:315:THR:CG2	1:K:465:TYR:CE2	2.20	1.24
1:E:315:THR:OG1	1:K:465:TYR:CG	1.83	1.24
1:C:315:THR:OG1	1:I:465:TYR:CG	1.83	1.24
1:G:76:ILE:HD12	1:G:76:ILE:N	1.29	1.23
1:B:155:GLU:OE1	1:B:187:SER:HB3	1.34	1.23
1:E:465:TYR:CE2	1:K:315:THR:CG2	2.20	1.23
1:L:155:GLU:OE1	1:L:187:SER:HB3	1.35	1.23
1:C:315:THR:CG2	1:I:465:TYR:CE2	2.20	1.23
1:A:120:ILE:HG21	1:A:382:ILE:CG2	1.70	1.22
1:G:120:ILE:HG21	1:G:382:ILE:CG2	1.70	1.22
1:I:155:GLU:OE1	1:I:187:SER:HB3	1.34	1.22
1:F:19:LEU:HD22	1:F:240:TYR:CZ	1.74	1.22
1:G:19:LEU:HD22	1:G:240:TYR:CZ	1.73	1.22
1:A:19:LEU:HD22	1:A:240:TYR:CZ	1.74	1.21
1:A:465:TYR:CE2	1:G:315:THR:CG2	2.20	1.21
1:B:19:LEU:HD22	1:B:240:TYR:CZ	1.73	1.21
1:D:19:LEU:HD22	1:D:240:TYR:CZ	1.73	1.21
1:E:19:LEU:HD22	1:E:240:TYR:CZ	1.74	1.21
1:J:54:ILE:HD11	1:J:102:ARG:NE	1.56	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:19:LEU:HD22	1:L:240:TYR:CZ	1.74	1.21
1:D:54:ILE:HD11	1:D:102:ARG:NE	1.56	1.21
1:E:155:GLU:OE1	1:E:187:SER:HB3	1.34	1.21
1:H:19:LEU:HD22	1:H:240:TYR:CZ	1.74	1.21
1:I:27:LYS:NZ	1:I:239:LYS:NZ	1.79	1.21
1:I:120:ILE:HG21	1:I:382:ILE:CG2	1.69	1.21
1:A:315:THR:CG2	1:G:465:TYR:CE2	2.20	1.21
1:C:345:ILE:H	1:C:345:ILE:CD1	1.54	1.21
1:K:19:LEU:HD22	1:K:240:TYR:CZ	1.74	1.21
1:K:345:ILE:H	1:K:345:ILE:CD1	1.54	1.21
1:L:120:ILE:HG21	1:L:382:ILE:CG2	1.69	1.21
1:L:345:ILE:H	1:L:345:ILE:CD1	1.54	1.21
1:B:96:THR:C	1:B:97:LEU:HG	1.40	1.21
1:B:120:ILE:HG21	1:B:382:ILE:CG2	1.70	1.21
1:C:19:LEU:HD22	1:C:240:TYR:CZ	1.74	1.21
1:D:345:ILE:H	1:D:345:ILE:CD1	1.54	1.21
1:E:120:ILE:HG21	1:E:382:ILE:CG2	1.70	1.21
1:F:120:ILE:HG21	1:F:382:ILE:CG2	1.69	1.21
1:I:19:LEU:HD22	1:I:240:TYR:CZ	1.74	1.21
1:J:19:LEU:HD22	1:J:240:TYR:CZ	1.74	1.21
1:J:345:ILE:H	1:J:345:ILE:CD1	1.54	1.21
1:B:345:ILE:H	1:B:345:ILE:CD1	1.54	1.21
1:F:465:TYR:CE2	1:L:315:THR:CG2	2.20	1.21
1:J:78:PRO:HB3	1:J:79:PHE:CE2	1.76	1.21
1:C:54:ILE:HD11	1:C:102:ARG:NE	1.55	1.20
1:C:465:TYR:CD2	1:I:315:THR:OG1	1.94	1.20
1:D:78:PRO:HB3	1:D:79:PHE:CE2	1.76	1.20
1:E:54:ILE:HD11	1:E:102:ARG:NE	1.56	1.20
1:H:120:ILE:HG21	1:H:382:ILE:CG2	1.70	1.20
1:I:54:ILE:HD11	1:I:102:ARG:NE	1.56	1.20
1:L:96:THR:C	1:L:97:LEU:HG	1.40	1.20
1:B:315:THR:CG2	1:H:465:TYR:CE2	2.20	1.20
1:C:78:PRO:HB3	1:C:79:PHE:CE2	1.76	1.20
1:D:315:THR:OG1	1:J:465:TYR:CD2	1.94	1.20
1:D:465:TYR:CD2	1:J:315:THR:OG1	1.94	1.20
1:K:54:ILE:HD11	1:K:102:ARG:NE	1.56	1.20
1:K:78:PRO:HB3	1:K:79:PHE:CE2	1.76	1.20
1:F:88:ARG:NH2	1:F:109:LYS:NZ	1.90	1.20
1:H:88:ARG:NH2	1:H:109:LYS:NZ	1.90	1.20
1:I:345:ILE:H	1:I:345:ILE:CD1	1.54	1.20
1:J:120:ILE:HG21	1:J:382:ILE:CG2	1.70	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:345:ILE:H	1:A:345:ILE:CD1	1.54	1.20
1:B:88:ARG:NH2	1:B:109:LYS:NZ	1.90	1.20
1:D:120:ILE:HG21	1:D:382:ILE:CG2	1.70	1.20
1:E:345:ILE:H	1:E:345:ILE:CD1	1.54	1.20
1:G:345:ILE:H	1:G:345:ILE:CD1	1.54	1.20
1:L:88:ARG:NH2	1:L:109:LYS:NZ	1.90	1.20
1:C:120:ILE:HG21	1:C:382:ILE:CG2	1.70	1.20
1:F:78:PRO:HB3	1:F:79:PHE:CE2	1.76	1.20
1:H:78:PRO:HB3	1:H:79:PHE:CE2	1.76	1.20
1:K:120:ILE:HG21	1:K:382:ILE:CG2	1.69	1.20
1:C:88:ARG:NH2	1:C:109:LYS:NZ	1.90	1.19
1:F:306:LYS:HG2	1:F:411:ALA:HB2	1.25	1.19
1:F:345:ILE:H	1:F:345:ILE:CD1	1.54	1.19
1:G:88:ARG:NH2	1:G:109:LYS:NZ	1.90	1.19
1:A:88:ARG:NH2	1:A:109:LYS:NZ	1.90	1.19
1:H:306:LYS:HG2	1:H:411:ALA:HB2	1.25	1.19
1:H:345:ILE:H	1:H:345:ILE:CD1	1.54	1.19
1:K:88:ARG:NH2	1:K:109:LYS:NZ	1.90	1.19
1:D:315:THR:CG2	1:J:465:TYR:CE2	2.20	1.19
1:D:465:TYR:CE2	1:J:315:THR:CG2	2.20	1.19
1:I:25:LYS:HG2	1:I:54:ILE:HD12	1.20	1.19
1:A:315:THR:OG1	1:G:465:TYR:CD2	1.94	1.19
1:G:78:PRO:HB3	1:G:79:PHE:CE2	1.76	1.19
1:A:78:PRO:HB3	1:A:79:PHE:CE2	1.76	1.19
1:A:465:TYR:CD2	1:G:315:THR:OG1	1.94	1.19
1:E:88:ARG:NH2	1:E:109:LYS:NZ	1.90	1.19
1:F:54:ILE:HD11	1:F:102:ARG:NE	1.56	1.19
1:G:27:LYS:NZ	1:G:239:LYS:NZ	1.79	1.19
1:H:54:ILE:HD11	1:H:102:ARG:NE	1.56	1.19
1:A:54:ILE:HD11	1:A:102:ARG:NE	1.56	1.18
1:I:88:ARG:NH2	1:I:109:LYS:NZ	1.90	1.18
1:L:54:ILE:HD11	1:L:102:ARG:NE	1.55	1.18
1:D:19:LEU:HD23	1:D:75:VAL:CG2	1.74	1.18
1:D:88:ARG:NH2	1:D:109:LYS:NZ	1.90	1.18
1:E:19:LEU:HD23	1:E:75:VAL:CG2	1.74	1.18
1:E:25:LYS:HG2	1:E:54:ILE:HD12	1.19	1.18
1:E:78:PRO:HB3	1:E:79:PHE:CE2	1.76	1.18
1:I:19:LEU:HD23	1:I:75:VAL:CG2	1.74	1.18
1:I:78:PRO:HB3	1:I:79:PHE:CE2	1.76	1.18
1:J:19:LEU:HD23	1:J:75:VAL:CG2	1.74	1.18
1:J:88:ARG:NH2	1:J:109:LYS:NZ	1.90	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:27:LYS:NZ	1:A:239:LYS:NZ	1.79	1.18
1:B:54:ILE:HD11	1:B:102:ARG:NE	1.56	1.18
1:F:19:LEU:HD23	1:F:75:VAL:CG2	1.74	1.18
1:G:54:ILE:HD11	1:G:102:ARG:NE	1.56	1.18
1:H:19:LEU:HD23	1:H:75:VAL:CG2	1.74	1.18
1:A:19:LEU:HD23	1:A:75:VAL:CG2	1.74	1.18
1:B:75:VAL:HG12	1:B:76:ILE:O	1.42	1.18
1:C:19:LEU:HD23	1:C:75:VAL:CG2	1.74	1.18
1:G:19:LEU:HD23	1:G:75:VAL:CG2	1.74	1.18
1:G:75:VAL:HG12	1:G:76:ILE:O	1.42	1.18
1:K:19:LEU:HD23	1:K:75:VAL:CG2	1.74	1.18
1:L:19:LEU:HD23	1:L:75:VAL:CG2	1.74	1.18
1:A:376:MET:CE	1:A:433:VAL:HG11	1.74	1.18
1:B:19:LEU:HD23	1:B:75:VAL:CG2	1.74	1.18
1:E:376:MET:CE	1:E:433:VAL:HG11	1.74	1.18
1:G:376:MET:CE	1:G:433:VAL:HG11	1.74	1.18
1:I:75:VAL:HG12	1:I:76:ILE:O	1.42	1.18
1:L:376:MET:CE	1:L:433:VAL:HG11	1.74	1.18
1:B:376:MET:CE	1:B:433:VAL:HG11	1.74	1.17
1:D:92:LEU:HG	1:D:93:GLU:HB2	1.20	1.17
1:E:75:VAL:HG12	1:E:76:ILE:O	1.42	1.17
1:A:75:VAL:HG12	1:A:76:ILE:O	1.42	1.17
1:B:78:PRO:HB3	1:B:79:PHE:CE2	1.76	1.17
1:B:465:TYR:CD2	1:H:315:THR:OG1	1.94	1.17
1:D:25:LYS:HG2	1:D:54:ILE:HD12	1.20	1.17
1:F:19:LEU:O	1:F:19:LEU:CG	1.92	1.17
1:H:19:LEU:O	1:H:19:LEU:CG	1.93	1.17
1:I:376:MET:CE	1:I:433:VAL:HG11	1.74	1.17
1:L:75:VAL:HG12	1:L:76:ILE:O	1.42	1.17
1:L:78:PRO:HB3	1:L:79:PHE:CE2	1.76	1.17
1:B:465:TYR:CE2	1:H:315:THR:CG2	2.20	1.17
1:C:75:VAL:HG12	1:C:76:ILE:O	1.42	1.17
1:F:315:THR:OG1	1:L:465:TYR:CD2	1.94	1.17
1:D:376:MET:CE	1:D:433:VAL:HG11	1.74	1.17
1:F:315:THR:CG2	1:L:465:TYR:CE2	2.20	1.17
1:H:75:VAL:HG12	1:H:76:ILE:O	1.42	1.17
1:J:19:LEU:O	1:J:19:LEU:CG	1.93	1.17
1:J:25:LYS:HG2	1:J:54:ILE:HD12	1.20	1.17
1:K:75:VAL:HG12	1:K:76:ILE:O	1.42	1.17
1:C:376:MET:CE	1:C:433:VAL:HG11	1.74	1.17
1:D:19:LEU:O	1:D:19:LEU:CG	1.93	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:75:VAL:HG12	1:D:76:ILE:O	1.42	1.17
1:E:306:LYS:HG2	1:E:411:ALA:HB2	1.25	1.17
1:H:376:MET:CE	1:H:433:VAL:HG11	1.74	1.17
1:J:92:LEU:HG	1:J:93:GLU:HB2	1.20	1.17
1:J:75:VAL:HG12	1:J:76:ILE:O	1.42	1.16
1:J:376:MET:CE	1:J:433:VAL:HG11	1.74	1.16
1:K:376:MET:CE	1:K:433:VAL:HG11	1.74	1.16
1:F:75:VAL:HG12	1:F:76:ILE:O	1.42	1.16
1:D:306:LYS:HG2	1:D:411:ALA:HB2	1.25	1.16
1:E:465:TYR:CD2	1:K:315:THR:OG1	1.94	1.16
1:F:376:MET:CE	1:F:433:VAL:HG11	1.74	1.16
1:B:76:ILE:HD11	1:B:202:MET:HE1	1.24	1.16
1:I:306:LYS:HG2	1:I:411:ALA:HB2	1.25	1.16
1:J:306:LYS:HG2	1:J:411:ALA:HB2	1.25	1.16
1:A:345:ILE:HD13	1:A:345:ILE:N	1.60	1.15
1:B:19:LEU:O	1:B:19:LEU:CG	1.93	1.15
1:C:315:THR:OG1	1:I:465:TYR:CD2	1.94	1.15
1:E:315:THR:OG1	1:K:465:TYR:CD2	1.94	1.15
1:G:345:ILE:HD13	1:G:345:ILE:N	1.60	1.15
1:L:19:LEU:O	1:L:19:LEU:CG	1.93	1.15
1:L:76:ILE:HD11	1:L:202:MET:HE1	1.25	1.15
1:E:102:ARG:HB2	1:E:104:PRO:HD3	1.16	1.15
1:F:345:ILE:HD13	1:F:345:ILE:N	1.60	1.15
1:H:345:ILE:HD13	1:H:345:ILE:N	1.60	1.15
1:B:20:ARG:NH1	1:B:86:ILE:HG23	1.61	1.15
1:G:306:LYS:HG2	1:G:411:ALA:HB2	1.25	1.15
1:I:102:ARG:HB2	1:I:104:PRO:HD3	1.16	1.15
1:C:93:GLU:CB	1:C:94:PRO:CD	2.24	1.15
1:K:27:LYS:NZ	1:K:239:LYS:NZ	1.79	1.15
1:K:93:GLU:CB	1:K:94:PRO:CD	2.24	1.15
1:A:306:LYS:HG2	1:A:411:ALA:HB2	1.25	1.15
1:L:20:ARG:NH1	1:L:86:ILE:HG23	1.62	1.15
1:C:92:LEU:HG	1:C:93:GLU:HB2	1.20	1.14
1:F:93:GLU:CB	1:F:94:PRO:CD	2.24	1.14
1:H:93:GLU:CB	1:H:94:PRO:CD	2.24	1.14
1:B:93:GLU:CB	1:B:94:PRO:CD	2.24	1.14
1:H:65:MET:HB3	1:H:67:LEU:HD23	1.15	1.14
1:B:461:GLU:OE1	1:H:316:THR:HG22	1.48	1.14
1:F:316:THR:HG22	1:L:461:GLU:OE1	1.48	1.14
1:F:465:TYR:CD2	1:L:315:THR:OG1	1.94	1.14
1:G:93:GLU:CB	1:G:94:PRO:CD	2.24	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:92:LEU:HG	1:K:93:GLU:HB2	1.20	1.14
1:L:25:LYS:HG2	1:L:54:ILE:HD12	1.20	1.14
1:L:93:GLU:CB	1:L:94:PRO:CD	2.24	1.14
1:L:345:ILE:HD13	1:L:345:ILE:N	1.60	1.14
1:A:20:ARG:NH1	1:A:86:ILE:HG23	1.61	1.14
1:A:93:GLU:CB	1:A:94:PRO:CD	2.24	1.14
1:B:345:ILE:HD13	1:B:345:ILE:N	1.60	1.14
1:C:20:ARG:NH1	1:C:86:ILE:HG23	1.62	1.14
1:F:65:MET:HB3	1:F:67:LEU:HD23	1.14	1.14
1:F:120:ILE:CG2	1:F:382:ILE:HG21	1.78	1.14
1:H:120:ILE:CG2	1:H:382:ILE:HG21	1.78	1.14
1:I:19:LEU:O	1:I:19:LEU:CG	1.93	1.14
1:K:20:ARG:NH1	1:K:86:ILE:HG23	1.61	1.14
1:B:65:MET:HB3	1:B:67:LEU:HD23	1.14	1.14
1:C:19:LEU:O	1:C:19:LEU:CG	1.93	1.14
1:C:316:THR:HG22	1:I:461:GLU:OE1	1.48	1.14
1:E:461:GLU:OE1	1:K:316:THR:HG22	1.48	1.14
1:K:19:LEU:O	1:K:19:LEU:CG	1.93	1.14
1:B:58:LYS:HD3	1:B:59:GLY:H	1.13	1.13
1:B:315:THR:OG1	1:H:465:TYR:CD2	1.94	1.13
1:D:20:ARG:NH1	1:D:86:ILE:HG23	1.61	1.13
1:E:19:LEU:O	1:E:19:LEU:CG	1.93	1.13
1:G:19:LEU:O	1:G:19:LEU:CG	1.92	1.13
1:G:20:ARG:NH1	1:G:86:ILE:HG23	1.61	1.13
1:I:120:ILE:CG2	1:I:382:ILE:HG21	1.78	1.13
1:I:345:ILE:HD13	1:I:345:ILE:N	1.60	1.13
1:J:20:ARG:NH1	1:J:86:ILE:HG23	1.61	1.13
1:A:316:THR:HG22	1:G:461:GLU:OE1	1.48	1.13
1:A:461:GLU:OE1	1:G:316:THR:HG22	1.48	1.13
1:B:25:LYS:HG2	1:B:54:ILE:HD12	1.20	1.13
1:B:316:THR:HG22	1:H:461:GLU:OE1	1.48	1.13
1:D:407:ILE:HD13	1:D:408:PRO:HD2	1.31	1.13
1:E:93:GLU:CB	1:E:94:PRO:CD	2.24	1.13
1:E:120:ILE:CG2	1:E:382:ILE:HG21	1.78	1.13
1:G:88:ARG:HH21	1:G:109:LYS:NZ	1.46	1.13
1:G:120:ILE:CG2	1:G:382:ILE:HG21	1.78	1.13
1:I:20:ARG:NH1	1:I:86:ILE:HG23	1.61	1.13
1:I:93:GLU:CB	1:I:94:PRO:CD	2.24	1.13
1:J:407:ILE:HD13	1:J:408:PRO:HD2	1.31	1.13
1:L:58:LYS:HD3	1:L:59:GLY:H	1.14	1.13
1:A:88:ARG:HH21	1:A:109:LYS:NZ	1.47	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:120:ILE:CG2	1:A:382:ILE:HG21	1.78	1.13
1:D:376:MET:HE1	1:D:433:VAL:HG11	1.31	1.13
1:E:20:ARG:NH1	1:E:86:ILE:HG23	1.61	1.13
1:E:345:ILE:HD13	1:E:345:ILE:N	1.60	1.13
1:F:461:GLU:OE1	1:L:316:THR:HG22	1.48	1.13
1:H:27:LYS:NZ	1:H:239:LYS:NZ	1.79	1.13
1:I:65:MET:HB3	1:I:67:LEU:HD23	1.14	1.13
1:I:92:LEU:HG	1:I:93:GLU:HB2	1.20	1.13
1:J:376:MET:HE1	1:J:433:VAL:HG11	1.31	1.13
1:K:88:ARG:HH21	1:K:109:LYS:NZ	1.47	1.13
1:L:65:MET:HB3	1:L:67:LEU:HD23	1.14	1.13
1:A:19:LEU:O	1:A:19:LEU:CG	1.93	1.13
1:A:407:ILE:HD13	1:A:408:PRO:HD2	1.31	1.13
1:E:65:MET:HB3	1:E:67:LEU:HD23	1.15	1.13
1:E:92:LEU:HG	1:E:93:GLU:HB2	1.20	1.13
1:F:27:LYS:NZ	1:F:239:LYS:NZ	1.79	1.13
1:G:407:ILE:HD13	1:G:408:PRO:HD2	1.31	1.13
1:A:25:LYS:HG2	1:A:54:ILE:HD12	1.20	1.12
1:C:88:ARG:HH21	1:C:109:LYS:NZ	1.47	1.13
1:D:316:THR:HG22	1:J:461:GLU:OE1	1.48	1.12
1:D:461:GLU:OE1	1:J:316:THR:HG22	1.48	1.13
1:C:76:ILE:HD11	1:C:202:MET:HE1	1.17	1.12
1:H:20:ARG:NH1	1:H:86:ILE:HG23	1.61	1.12
1:G:25:LYS:HG2	1:G:54:ILE:HD12	1.20	1.12
1:G:65:MET:HB3	1:G:67:LEU:HD23	1.14	1.12
1:B:36:HIS:O	1:B:38:VAL:N	1.82	1.12
1:C:306:LYS:HG2	1:C:411:ALA:HB2	1.25	1.12
1:F:20:ARG:NH1	1:F:86:ILE:HG23	1.61	1.12
1:J:120:ILE:CG2	1:J:382:ILE:HG21	1.78	1.12
1:L:36:HIS:O	1:L:38:VAL:N	1.82	1.12
1:A:36:HIS:O	1:A:38:VAL:N	1.82	1.12
1:A:65:MET:HB3	1:A:67:LEU:HD23	1.14	1.12
1:D:93:GLU:CB	1:D:94:PRO:CD	2.24	1.12
1:D:120:ILE:CG2	1:D:382:ILE:HG21	1.78	1.12
1:H:68:MET:HE3	1:H:105:ARG:CD	1.80	1.12
1:J:93:GLU:CB	1:J:94:PRO:CD	2.25	1.12
1:L:92:LEU:HG	1:L:93:GLU:HB2	1.20	1.12
1:B:92:LEU:HG	1:B:93:GLU:HB2	1.20	1.12
1:B:120:ILE:CG2	1:B:382:ILE:HG21	1.78	1.12
1:C:36:HIS:O	1:C:38:VAL:N	1.82	1.12
1:C:345:ILE:HD13	1:C:345:ILE:N	1.60	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:75:VAL:CG1	1:D:78:PRO:HD2	1.80	1.12
1:J:36:HIS:O	1:J:38:VAL:N	1.82	1.12
1:J:75:VAL:CG1	1:J:78:PRO:HD2	1.80	1.12
1:K:306:LYS:HG2	1:K:411:ALA:HB2	1.25	1.12
1:L:75:VAL:CG1	1:L:78:PRO:HD2	1.80	1.12
1:L:120:ILE:CG2	1:L:382:ILE:HG21	1.78	1.12
1:A:58:LYS:HD3	1:A:59:GLY:H	1.14	1.11
1:A:315:THR:CB	1:G:465:TYR:CD2	2.33	1.11
1:B:75:VAL:CG1	1:B:78:PRO:HD2	1.80	1.11
1:D:36:HIS:O	1:D:38:VAL:N	1.83	1.11
1:F:407:ILE:HD13	1:F:408:PRO:HD2	1.31	1.11
1:G:19:LEU:HD13	1:G:240:TYR:CE1	1.85	1.11
1:G:36:HIS:O	1:G:38:VAL:N	1.83	1.11
1:G:58:LYS:HD3	1:G:59:GLY:H	1.14	1.11
1:G:75:VAL:CG1	1:G:78:PRO:HD2	1.80	1.11
1:I:407:ILE:HD13	1:I:408:PRO:HD2	1.31	1.11
1:K:102:ARG:HB2	1:K:104:PRO:HD3	1.16	1.11
1:L:19:LEU:HD13	1:L:240:TYR:CE1	1.86	1.11
1:A:19:LEU:HD13	1:A:240:TYR:CE1	1.86	1.11
1:A:75:VAL:CG1	1:A:78:PRO:HD2	1.80	1.11
1:A:315:THR:OG1	1:G:465:TYR:CB	1.99	1.11
1:A:465:TYR:CD2	1:G:315:THR:CB	2.33	1.11
1:A:465:TYR:CB	1:G:315:THR:OG1	1.99	1.11
1:B:19:LEU:HD13	1:B:240:TYR:CE1	1.86	1.11
1:B:65:MET:O	1:B:67:LEU:HB3	1.51	1.11
1:C:58:LYS:HD3	1:C:59:GLY:H	1.13	1.11
1:C:102:ARG:HB2	1:C:104:PRO:HD3	1.16	1.11
1:E:407:ILE:HD13	1:E:408:PRO:HD2	1.31	1.11
1:F:68:MET:HE3	1:F:105:ARG:CD	1.80	1.11
1:H:88:ARG:HH21	1:H:109:LYS:NZ	1.46	1.11
1:I:75:VAL:CG1	1:I:78:PRO:HD2	1.80	1.11
1:J:180:PHE:HB3	1:K:30:HIS:O	1.50	1.11
1:K:36:HIS:O	1:K:38:VAL:N	1.82	1.11
1:K:120:ILE:CG2	1:K:382:ILE:HG21	1.78	1.11
1:K:345:ILE:HD13	1:K:345:ILE:N	1.60	1.11
1:B:306:LYS:HG2	1:B:411:ALA:HB2	1.25	1.11
1:C:30:HIS:O	1:D:180:PHE:HB3	1.50	1.11
1:C:65:MET:HB3	1:C:67:LEU:HD23	1.14	1.11
1:C:120:ILE:CG2	1:C:382:ILE:HG21	1.78	1.11
1:C:315:THR:CB	1:I:465:TYR:CD2	2.33	1.11
1:C:407:ILE:HD13	1:C:408:PRO:HD2	1.31	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:75:VAL:CG1	1:E:78:PRO:HD2	1.80	1.11
1:F:75:VAL:CG1	1:F:78:PRO:HD2	1.80	1.11
1:H:75:VAL:CG1	1:H:78:PRO:HD2	1.80	1.11
1:H:407:ILE:HD13	1:H:408:PRO:HD2	1.31	1.11
1:K:65:MET:HB3	1:K:67:LEU:HD23	1.14	1.11
1:L:65:MET:O	1:L:67:LEU:HB3	1.51	1.11
1:B:315:THR:OG1	1:H:465:TYR:CB	1.99	1.11
1:D:58:LYS:HG3	1:E:339:ARG:H	1.11	1.11
1:E:65:MET:O	1:E:67:LEU:HB3	1.50	1.11
1:E:465:TYR:CD2	1:K:315:THR:CB	2.33	1.11
1:G:88:ARG:NH2	1:G:109:LYS:HZ1	1.44	1.11
1:H:68:MET:CE	1:H:105:ARG:HD2	1.81	1.11
1:K:65:MET:O	1:K:67:LEU:HB3	1.50	1.11
1:B:407:ILE:HD13	1:B:408:PRO:HD2	1.31	1.11
1:B:465:TYR:CB	1:H:315:THR:OG1	1.99	1.11
1:C:19:LEU:HD13	1:C:240:TYR:CE1	1.85	1.11
1:C:25:LYS:HG2	1:C:54:ILE:HD12	1.20	1.11
1:D:315:THR:CB	1:J:465:TYR:CD2	2.33	1.11
1:D:465:TYR:CD2	1:J:315:THR:CB	2.33	1.11
1:D:465:TYR:CB	1:J:315:THR:OG1	1.99	1.11
1:F:88:ARG:HH21	1:F:109:LYS:NZ	1.47	1.11
1:F:315:THR:OG1	1:L:465:TYR:CB	1.99	1.11
1:F:315:THR:CB	1:L:465:TYR:CD2	2.33	1.11
1:F:465:TYR:CB	1:L:315:THR:OG1	1.99	1.11
1:I:339:ARG:H	1:J:58:LYS:HG3	1.12	1.11
1:K:19:LEU:HD13	1:K:240:TYR:CE1	1.86	1.11
1:K:58:LYS:HD3	1:K:59:GLY:H	1.13	1.11
1:K:407:ILE:HD13	1:K:408:PRO:HD2	1.31	1.11
1:L:306:LYS:HG2	1:L:411:ALA:HB2	1.25	1.11
1:L:407:ILE:HD13	1:L:408:PRO:HD2	1.31	1.11
1:B:30:HIS:O	1:C:180:PHE:HB3	1.50	1.10
1:B:465:TYR:CD2	1:H:315:THR:CB	2.33	1.10
1:C:461:GLU:OE1	1:I:316:THR:HG22	1.48	1.10
1:C:465:TYR:CB	1:I:315:THR:OG1	1.99	1.10
1:D:315:THR:OG1	1:J:465:TYR:CB	1.99	1.10
1:E:315:THR:OG1	1:K:465:TYR:CB	1.99	1.10
1:F:19:LEU:HD13	1:F:240:TYR:CE1	1.86	1.10
1:F:36:HIS:O	1:F:38:VAL:N	1.82	1.10
1:G:92:LEU:HG	1:G:93:GLU:HB2	1.20	1.10
1:H:25:LYS:HG2	1:H:54:ILE:HD12	1.20	1.10
1:H:36:HIS:O	1:H:38:VAL:N	1.82	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:180:PHE:HB3	1:L:30:HIS:O	1.50	1.10
1:A:88:ARG:NH2	1:A:109:LYS:HZ1	1.45	1.10
1:A:92:LEU:HG	1:A:93:GLU:HB2	1.20	1.10
1:C:65:MET:O	1:C:67:LEU:HB3	1.51	1.10
1:E:316:THR:HG22	1:K:461:GLU:OE1	1.48	1.10
1:F:54:ILE:CG1	1:F:102:ARG:HE	1.64	1.10
1:F:68:MET:CE	1:F:105:ARG:HD2	1.81	1.10
1:F:465:TYR:CD2	1:L:315:THR:CB	2.33	1.10
1:H:19:LEU:HD13	1:H:240:TYR:CE1	1.86	1.10
1:J:54:ILE:CG1	1:J:102:ARG:HE	1.64	1.10
1:A:54:ILE:CG1	1:A:102:ARG:HE	1.64	1.10
1:A:65:MET:O	1:A:67:LEU:HB3	1.51	1.10
1:B:315:THR:CB	1:H:465:TYR:CD2	2.33	1.10
1:C:465:TYR:CD2	1:I:315:THR:CB	2.33	1.10
1:D:54:ILE:CG1	1:D:102:ARG:HE	1.64	1.10
1:E:20:ARG:HG2	1:E:28:GLU:CD	1.72	1.10
1:E:414:LEU:HD21	1:E:418:LEU:HG	1.31	1.10
1:F:466:TYR:HH	1:L:252:THR:CG2	1.55	1.10
1:G:65:MET:O	1:G:67:LEU:HB3	1.50	1.10
1:H:54:ILE:CG1	1:H:102:ARG:HE	1.64	1.10
1:J:414:LEU:HD21	1:J:418:LEU:HG	1.31	1.10
1:A:68:MET:CE	1:A:105:ARG:HD2	1.81	1.10
1:B:68:MET:CE	1:B:105:ARG:HD2	1.81	1.10
1:D:414:LEU:HD21	1:D:418:LEU:HG	1.31	1.10
1:E:36:HIS:O	1:E:38:VAL:N	1.82	1.10
1:E:315:THR:CB	1:K:465:TYR:CD2	2.33	1.10
1:G:54:ILE:CG1	1:G:102:ARG:HE	1.64	1.10
1:I:20:ARG:HG2	1:I:28:GLU:CD	1.72	1.10
1:I:65:MET:O	1:I:67:LEU:HB3	1.51	1.10
1:I:68:MET:CE	1:I:105:ARG:HD2	1.81	1.10
1:I:180:PHE:HB3	1:J:30:HIS:O	1.50	1.10
1:A:76:ILE:HD11	1:A:202:MET:HE1	1.12	1.10
1:C:75:VAL:CG1	1:C:78:PRO:HD2	1.80	1.10
1:D:20:ARG:HG2	1:D:28:GLU:CD	1.72	1.10
1:D:345:ILE:HD13	1:D:345:ILE:N	1.60	1.10
1:E:30:HIS:O	1:F:180:PHE:HB3	1.50	1.10
1:E:68:MET:CE	1:E:105:ARG:HD2	1.81	1.10
1:F:25:LYS:HG2	1:F:54:ILE:HD12	1.20	1.10
1:F:63:SER:O	1:F:90:ASP:HA	1.52	1.10
1:G:68:MET:CE	1:G:105:ARG:HD2	1.81	1.10
1:I:36:HIS:O	1:I:38:VAL:N	1.82	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:414:LEU:HD21	1:I:418:LEU:HG	1.31	1.10
1:J:20:ARG:HG2	1:J:28:GLU:CD	1.72	1.10
1:K:25:LYS:HG2	1:K:54:ILE:HD12	1.20	1.10
1:A:88:ARG:HE	1:A:109:LYS:HE3	1.15	1.09
1:C:315:THR:OG1	1:I:465:TYR:CB	1.99	1.09
1:D:30:HIS:O	1:E:180:PHE:HB3	1.50	1.09
1:F:19:LEU:HD23	1:F:75:VAL:HG22	1.31	1.09
1:H:63:SER:O	1:H:90:ASP:HA	1.52	1.09
1:I:54:ILE:CG1	1:I:102:ARG:HE	1.64	1.09
1:J:76:ILE:HD11	1:J:202:MET:HE1	1.18	1.09
1:J:345:ILE:HD13	1:J:345:ILE:N	1.60	1.09
1:K:76:ILE:HD11	1:K:202:MET:HE1	1.31	1.09
1:L:68:MET:CE	1:L:105:ARG:HD2	1.81	1.09
1:A:89:CYS:HB2	1:A:103:ASP:OD2	1.52	1.09
1:B:68:MET:HE1	1:B:105:ARG:CD	1.83	1.09
1:E:54:ILE:CG1	1:E:102:ARG:HE	1.64	1.09
1:E:76:ILE:HD11	1:E:202:MET:HE1	1.20	1.09
1:E:465:TYR:CB	1:K:315:THR:OG1	1.99	1.09
1:F:20:ARG:HG2	1:F:28:GLU:CD	1.72	1.09
1:F:76:ILE:HD11	1:F:202:MET:HE1	1.25	1.09
1:F:89:CYS:HB2	1:F:103:ASP:OD2	1.52	1.09
1:G:58:LYS:HG3	1:L:339:ARG:H	1.12	1.09
1:G:63:SER:O	1:G:90:ASP:HA	1.52	1.09
1:G:88:ARG:HE	1:G:109:LYS:HE3	1.14	1.09
1:H:20:ARG:HG2	1:H:28:GLU:CD	1.72	1.09
1:H:65:MET:O	1:H:67:LEU:HB3	1.50	1.09
1:H:180:PHE:HB3	1:I:30:HIS:O	1.50	1.09
1:I:89:CYS:HB2	1:I:103:ASP:OD2	1.52	1.09
1:J:65:MET:HB3	1:J:67:LEU:HD23	1.14	1.09
1:J:88:ARG:HH21	1:J:109:LYS:NZ	1.47	1.09
1:K:54:ILE:CG1	1:K:102:ARG:HE	1.64	1.09
1:K:75:VAL:CG1	1:K:78:PRO:HD2	1.80	1.09
1:A:58:LYS:HG3	1:B:339:ARG:H	1.12	1.09
1:A:63:SER:O	1:A:90:ASP:HA	1.52	1.09
1:C:54:ILE:CG1	1:C:102:ARG:HE	1.64	1.09
1:D:19:LEU:HD13	1:D:240:TYR:CE1	1.85	1.09
1:D:65:MET:HB3	1:D:67:LEU:HD23	1.14	1.09
1:D:88:ARG:HH21	1:D:109:LYS:NZ	1.47	1.09
1:D:89:CYS:HB2	1:D:103:ASP:OD2	1.52	1.09
1:E:63:SER:O	1:E:90:ASP:HA	1.52	1.09
1:E:89:CYS:HB2	1:E:103:ASP:OD2	1.52	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:65:MET:O	1:F:67:LEU:HB3	1.51	1.09
1:G:89:CYS:HB2	1:G:103:ASP:OD2	1.52	1.09
1:H:19:LEU:HD23	1:H:75:VAL:HG22	1.31	1.09
1:H:89:CYS:HB2	1:H:103:ASP:OD2	1.52	1.09
1:J:19:LEU:HD13	1:J:240:TYR:CE1	1.86	1.09
1:L:68:MET:HE1	1:L:105:ARG:CD	1.83	1.09
1:A:19:LEU:HD23	1:A:75:VAL:HG22	1.31	1.09
1:B:54:ILE:CG1	1:B:102:ARG:HE	1.64	1.09
1:C:20:ARG:HG2	1:C:28:GLU:CD	1.72	1.09
1:C:68:MET:CE	1:C:105:ARG:HD2	1.81	1.09
1:D:68:MET:HE1	1:D:105:ARG:CD	1.83	1.09
1:F:92:LEU:HG	1:F:93:GLU:HB2	1.20	1.09
1:I:19:LEU:HD13	1:I:240:TYR:CE1	1.85	1.09
1:J:68:MET:HE1	1:J:105:ARG:CD	1.83	1.09
1:J:89:CYS:HB2	1:J:103:ASP:OD2	1.52	1.09
1:K:20:ARG:HG2	1:K:28:GLU:CD	1.72	1.09
1:K:68:MET:CE	1:K:105:ARG:HD2	1.81	1.09
1:K:88:ARG:HE	1:K:109:LYS:HE3	1.15	1.09
1:L:88:ARG:HH21	1:L:109:LYS:NZ	1.47	1.09
1:A:180:PHE:HB3	1:F:30:HIS:O	1.50	1.09
1:B:102:ARG:HB2	1:B:104:PRO:HD3	1.16	1.09
1:C:88:ARG:HE	1:C:109:LYS:HE3	1.15	1.09
1:D:102:ARG:HB2	1:D:104:PRO:HD3	1.16	1.09
1:E:19:LEU:HD13	1:E:240:TYR:CE1	1.86	1.09
1:E:27:LYS:NZ	1:E:239:LYS:NZ	1.79	1.09
1:H:58:LYS:HD3	1:H:59:GLY:H	1.13	1.09
1:I:63:SER:O	1:I:90:ASP:HA	1.52	1.09
1:J:68:MET:CE	1:J:105:ARG:HD2	1.81	1.09
1:L:63:SER:O	1:L:90:ASP:HA	1.52	1.09
1:A:20:ARG:HG2	1:A:28:GLU:CD	1.72	1.08
1:B:88:ARG:HH21	1:B:109:LYS:NZ	1.47	1.08
1:C:252:THR:CG2	1:I:466:TYR:HH	1.55	1.08
1:D:76:ILE:HD11	1:D:202:MET:HE1	1.18	1.08
1:E:175:VAL:H	1:E:215:THR:HG23	0.92	1.08
1:F:58:LYS:HD3	1:F:59:GLY:H	1.14	1.08
1:H:92:LEU:HG	1:H:93:GLU:HB2	1.20	1.08
1:I:76:ILE:HD11	1:I:202:MET:HE1	1.20	1.08
1:I:175:VAL:H	1:I:215:THR:HG23	0.92	1.08
1:K:339:ARG:H	1:L:58:LYS:HG3	1.12	1.08
1:L:54:ILE:CG1	1:L:102:ARG:HE	1.64	1.08
1:L:89:CYS:HB2	1:L:103:ASP:OD2	1.52	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:339:ARG:H	1:F:58:LYS:HG3	1.12	1.08
1:B:20:ARG:HG2	1:B:28:GLU:CD	1.72	1.08
1:B:58:LYS:HG3	1:C:339:ARG:H	1.12	1.08
1:B:63:SER:O	1:B:90:ASP:HA	1.52	1.08
1:B:89:CYS:HB2	1:B:103:ASP:OD2	1.52	1.08
1:B:414:LEU:HD21	1:B:418:LEU:HG	1.31	1.08
1:G:20:ARG:HG2	1:G:28:GLU:CD	1.72	1.08
1:G:30:HIS:O	1:L:180:PHE:HB3	1.50	1.08
1:G:180:PHE:HB3	1:H:30:HIS:O	1.50	1.08
1:G:339:ARG:H	1:H:58:LYS:HG3	1.12	1.08
1:H:102:ARG:HB2	1:H:104:PRO:HD3	1.16	1.08
1:J:102:ARG:HB2	1:J:104:PRO:HD3	1.16	1.08
1:A:30:HIS:O	1:B:180:PHE:HB3	1.50	1.08
1:A:414:LEU:HD21	1:A:418:LEU:HG	1.31	1.08
1:D:58:LYS:HD3	1:D:59:GLY:H	1.13	1.08
1:D:68:MET:CE	1:D:105:ARG:HD2	1.81	1.08
1:G:102:ARG:HB2	1:G:104:PRO:HD3	1.16	1.08
1:G:414:LEU:HD21	1:G:418:LEU:HG	1.31	1.08
1:I:376:MET:HE3	1:I:433:VAL:CG1	1.84	1.08
1:L:20:ARG:HG2	1:L:28:GLU:CD	1.72	1.08
1:L:414:LEU:HD21	1:L:418:LEU:HG	1.31	1.08
1:A:67:LEU:HD12	1:A:68:MET:HG3	1.35	1.08
1:A:102:ARG:HB2	1:A:104:PRO:HD3	1.16	1.08
1:D:281:LEU:HD12	1:D:281:LEU:H	1.19	1.08
1:E:466:TYR:HH	1:K:252:THR:CG2	1.55	1.08
1:G:19:LEU:HD23	1:G:75:VAL:HG22	1.31	1.08
1:G:67:LEU:HD12	1:G:68:MET:HG3	1.35	1.08
1:H:76:ILE:HD11	1:H:202:MET:HE1	1.27	1.08
1:I:68:MET:HE1	1:I:105:ARG:CD	1.84	1.08
1:J:281:LEU:H	1:J:281:LEU:HD12	1.19	1.08
1:L:102:ARG:HB2	1:L:104:PRO:HD3	1.16	1.08
1:C:281:LEU:H	1:C:281:LEU:HD12	1.19	1.08
1:D:175:VAL:H	1:D:215:THR:HG23	0.92	1.08
1:E:68:MET:HE1	1:E:105:ARG:CD	1.84	1.08
1:F:102:ARG:HB2	1:F:104:PRO:HD3	1.16	1.08
1:F:175:VAL:H	1:F:215:THR:HG23	0.91	1.08
1:F:414:LEU:HD21	1:F:418:LEU:HG	1.31	1.08
1:I:281:LEU:H	1:I:281:LEU:HD12	1.19	1.08
1:J:175:VAL:H	1:J:215:THR:HG23	0.91	1.08
1:K:281:LEU:H	1:K:281:LEU:HD12	1.19	1.08
1:C:63:SER:O	1:C:90:ASP:HA	1.52	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:65:MET:O	1:D:67:LEU:HB3	1.51	1.07
1:E:281:LEU:H	1:E:281:LEU:HD12	1.19	1.07
1:E:376:MET:HE3	1:E:433:VAL:CG1	1.84	1.07
1:G:76:ILE:HD11	1:G:202:MET:HE1	1.09	1.07
1:G:76:ILE:CD1	1:G:202:MET:HE1	1.83	1.07
1:H:88:ARG:HE	1:H:109:LYS:HE3	1.15	1.07
1:H:414:LEU:HD21	1:H:418:LEU:HG	1.31	1.07
1:I:58:LYS:HD3	1:I:59:GLY:H	1.14	1.07
1:J:339:ARG:H	1:K:58:LYS:HG3	1.11	1.07
1:L:376:MET:HE1	1:L:433:VAL:HG11	1.29	1.07
1:C:376:MET:HE1	1:C:433:VAL:HG11	1.34	1.07
1:D:63:SER:O	1:D:90:ASP:HA	1.52	1.07
1:H:175:VAL:H	1:H:215:THR:HG23	0.91	1.07
1:J:58:LYS:HD3	1:J:59:GLY:H	1.13	1.07
1:L:88:ARG:HE	1:L:109:LYS:HE3	1.15	1.07
1:C:58:LYS:HG3	1:D:339:ARG:H	1.12	1.07
1:F:88:ARG:HE	1:F:109:LYS:HE3	1.15	1.07
1:J:65:MET:O	1:J:67:LEU:HB3	1.50	1.07
1:K:63:SER:O	1:K:90:ASP:HA	1.52	1.07
1:K:414:LEU:HD21	1:K:418:LEU:HG	1.31	1.07
1:C:89:CYS:HB2	1:C:103:ASP:OD2	1.52	1.07
1:E:58:LYS:HD3	1:E:59:GLY:H	1.13	1.07
1:K:89:CYS:HB2	1:K:103:ASP:OD2	1.53	1.07
1:K:175:VAL:H	1:K:215:THR:HG23	0.91	1.07
1:B:281:LEU:H	1:B:281:LEU:HD12	1.19	1.07
1:C:414:LEU:HD21	1:C:418:LEU:HG	1.31	1.07
1:H:339:ARG:H	1:I:58:LYS:HG3	1.11	1.07
1:J:63:SER:O	1:J:90:ASP:HA	1.52	1.07
1:L:86:ILE:HD12	1:L:86:ILE:N	1.70	1.07
1:L:281:LEU:HD12	1:L:281:LEU:H	1.19	1.07
1:B:86:ILE:HD12	1:B:86:ILE:N	1.70	1.06
1:B:88:ARG:HE	1:B:109:LYS:HE3	1.15	1.06
1:C:175:VAL:H	1:C:215:THR:HG23	0.92	1.06
1:C:175:VAL:N	1:C:215:THR:HG23	1.70	1.06
1:K:175:VAL:N	1:K:215:THR:HG23	1.70	1.06
1:C:68:MET:HE1	1:C:105:ARG:HD2	1.09	1.06
1:E:58:LYS:HG3	1:F:339:ARG:H	1.12	1.06
1:F:67:LEU:HD12	1:F:68:MET:HG3	1.35	1.06
1:K:68:MET:HE1	1:K:105:ARG:HD2	1.10	1.06
1:L:175:VAL:N	1:L:215:THR:HG23	1.70	1.06
1:B:175:VAL:N	1:B:215:THR:HG23	1.71	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:281:LEU:H	1:F:281:LEU:HD12	1.19	1.06
1:H:67:LEU:HD12	1:H:68:MET:HG3	1.35	1.06
1:J:175:VAL:N	1:J:215:THR:HG23	1.70	1.06
1:D:175:VAL:N	1:D:215:THR:HG23	1.71	1.06
1:D:348:VAL:HG11	1:D:354:ARG:HD3	1.38	1.06
1:H:281:LEU:HD12	1:H:281:LEU:H	1.19	1.06
1:J:67:LEU:HD12	1:J:68:MET:HG3	1.35	1.06
1:B:67:LEU:HD12	1:B:68:MET:HG3	1.35	1.05
1:D:67:LEU:HD12	1:D:68:MET:HG3	1.35	1.05
1:E:19:LEU:HD23	1:E:75:VAL:HG22	1.31	1.05
1:G:376:MET:HE1	1:G:433:VAL:HG11	1.35	1.05
1:J:19:LEU:HD23	1:J:75:VAL:HG22	1.31	1.05
1:J:348:VAL:HG11	1:J:354:ARG:HD3	1.38	1.05
1:L:67:LEU:HD12	1:L:68:MET:HG3	1.35	1.05
1:A:175:VAL:H	1:A:215:THR:HG23	0.91	1.05
1:A:175:VAL:N	1:A:215:THR:HG23	1.70	1.05
1:A:281:LEU:H	1:A:281:LEU:HD12	1.19	1.05
1:I:88:ARG:HE	1:I:109:LYS:HE3	1.15	1.05
1:D:19:LEU:HD23	1:D:75:VAL:HG22	1.32	1.05
1:G:175:VAL:N	1:G:215:THR:HG23	1.70	1.05
1:I:19:LEU:HD23	1:I:75:VAL:HG22	1.31	1.05
1:I:86:ILE:HD12	1:I:86:ILE:N	1.70	1.05
1:I:88:ARG:HH21	1:I:109:LYS:NZ	1.47	1.05
1:K:348:VAL:HG11	1:K:354:ARG:HD3	1.38	1.05
1:L:175:VAL:H	1:L:215:THR:HG23	0.92	1.05
1:A:76:ILE:CD1	1:A:202:MET:HE1	1.86	1.05
1:A:348:VAL:HG11	1:A:354:ARG:HD3	1.38	1.05
1:A:376:MET:HE1	1:A:433:VAL:HG11	1.33	1.05
1:B:175:VAL:H	1:B:215:THR:HG23	0.92	1.05
1:C:348:VAL:HG11	1:C:354:ARG:HD3	1.38	1.05
1:D:88:ARG:HE	1:D:109:LYS:HE3	1.15	1.05
1:E:88:ARG:HE	1:E:109:LYS:HE3	1.16	1.05
1:G:175:VAL:H	1:G:215:THR:HG23	0.91	1.05
1:G:281:LEU:H	1:G:281:LEU:HD12	1.19	1.05
1:G:348:VAL:HG11	1:G:354:ARG:HD3	1.38	1.05
1:L:348:VAL:HG11	1:L:354:ARG:HD3	1.38	1.05
1:B:19:LEU:HD23	1:B:75:VAL:HG22	1.31	1.05
1:E:88:ARG:HH21	1:E:109:LYS:NZ	1.47	1.05
1:I:103:ASP:H	1:I:104:PRO:HD3	1.20	1.05
1:I:175:VAL:N	1:I:215:THR:HG23	1.71	1.05
1:A:86:ILE:N	1:A:86:ILE:HD12	1.70	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:348:VAL:HG11	1:B:354:ARG:HD3	1.38	1.04
1:F:175:VAL:N	1:F:215:THR:HG23	1.70	1.04
1:J:88:ARG:HE	1:J:109:LYS:HE3	1.15	1.04
1:L:19:LEU:HD23	1:L:75:VAL:HG22	1.31	1.04
1:A:54:ILE:HD11	1:A:102:ARG:CD	1.87	1.04
1:E:175:VAL:N	1:E:215:THR:HG23	1.71	1.04
1:G:54:ILE:HD11	1:G:102:ARG:CD	1.87	1.04
1:H:175:VAL:N	1:H:215:THR:HG23	1.70	1.04
1:J:103:ASP:H	1:J:104:PRO:HD3	1.20	1.04
1:L:339:ARG:C	1:L:341:ALA:H	1.57	1.04
1:B:339:ARG:C	1:B:341:ALA:H	1.57	1.04
1:B:376:MET:HE3	1:B:433:VAL:CG1	1.87	1.04
1:D:54:ILE:HD11	1:D:102:ARG:CD	1.87	1.04
1:E:103:ASP:H	1:E:104:PRO:HD3	1.21	1.04
1:K:339:ARG:HG2	1:K:340:SER:H	1.20	1.04
1:E:348:VAL:HG11	1:E:354:ARG:HD3	1.38	1.04
1:G:86:ILE:HD12	1:G:86:ILE:N	1.71	1.04
1:J:54:ILE:HD11	1:J:102:ARG:CD	1.87	1.04
1:L:54:ILE:HD11	1:L:102:ARG:CD	1.87	1.04
1:L:339:ARG:HG2	1:L:340:SER:H	1.21	1.04
1:C:67:LEU:HD12	1:C:68:MET:HG3	1.35	1.04
1:C:339:ARG:HG2	1:C:340:SER:H	1.20	1.04
1:D:103:ASP:H	1:D:104:PRO:HD3	1.20	1.04
1:H:348:VAL:HG11	1:H:354:ARG:HD3	1.38	1.04
1:I:54:ILE:HD11	1:I:102:ARG:CD	1.87	1.04
1:K:67:LEU:HD12	1:K:68:MET:HG3	1.35	1.04
1:B:54:ILE:HD11	1:B:102:ARG:CD	1.87	1.03
1:E:54:ILE:HD11	1:E:102:ARG:CD	1.87	1.03
1:I:348:VAL:HG11	1:I:354:ARG:HD3	1.38	1.03
1:B:103:ASP:H	1:B:104:PRO:HD3	1.20	1.03
1:B:376:MET:HE1	1:B:433:VAL:HG11	1.39	1.03
1:C:19:LEU:HD23	1:C:75:VAL:HG22	1.31	1.03
1:F:54:ILE:HD11	1:F:102:ARG:CD	1.87	1.03
1:F:348:VAL:HG11	1:F:354:ARG:HD3	1.38	1.03
1:G:103:ASP:H	1:G:104:PRO:HD3	1.20	1.03
1:H:54:ILE:HD11	1:H:102:ARG:CD	1.87	1.03
1:I:67:LEU:HD12	1:I:68:MET:HG3	1.35	1.03
1:K:19:LEU:HD23	1:K:75:VAL:HG22	1.31	1.03
1:B:339:ARG:HG2	1:B:340:SER:H	1.21	1.03
1:C:54:ILE:HD11	1:C:102:ARG:CD	1.87	1.03
1:D:86:ILE:HD12	1:D:86:ILE:N	1.70	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:67:LEU:HD12	1:E:68:MET:HG3	1.35	1.03
1:K:86:ILE:HD12	1:K:86:ILE:N	1.70	1.03
1:A:103:ASP:H	1:A:104:PRO:HD3	1.20	1.03
1:C:75:VAL:HG12	1:C:78:PRO:HD2	1.40	1.03
1:D:68:MET:HE3	1:D:88:ARG:HB2	1.41	1.03
1:F:68:MET:HE2	1:F:88:ARG:HB2	1.38	1.03
1:J:86:ILE:HD12	1:J:86:ILE:N	1.70	1.03
1:L:103:ASP:H	1:L:104:PRO:HD3	1.20	1.03
1:F:376:MET:HE1	1:F:433:VAL:HG11	1.34	1.03
1:H:103:ASP:H	1:H:104:PRO:HD3	1.20	1.03
1:H:376:MET:HE1	1:H:433:VAL:HG11	1.35	1.03
1:B:15:LYS:HA	1:B:35:ALA:HB2	1.03	1.02
1:C:86:ILE:HD12	1:C:86:ILE:N	1.70	1.02
1:E:20:ARG:HG2	1:E:28:GLU:OE1	1.58	1.02
1:G:339:ARG:HG2	1:G:340:SER:H	1.21	1.02
1:G:339:ARG:C	1:G:341:ALA:H	1.57	1.02
1:H:68:MET:HE2	1:H:88:ARG:HB2	1.38	1.02
1:I:20:ARG:HG2	1:I:28:GLU:OE1	1.58	1.02
1:J:68:MET:HE3	1:J:88:ARG:HB2	1.41	1.02
1:K:54:ILE:HD11	1:K:102:ARG:CD	1.87	1.02
1:K:75:VAL:HG12	1:K:78:PRO:HD2	1.40	1.02
1:L:15:LYS:HA	1:L:35:ALA:HB2	1.03	1.02
1:L:68:MET:HE3	1:L:88:ARG:HB2	1.41	1.02
1:B:68:MET:HE3	1:B:88:ARG:HB2	1.41	1.02
1:C:401:PRO:HA	1:C:405:LYS:HB3	1.03	1.02
1:D:12:HIS:O	1:D:13:GLU:HB2	1.58	1.02
1:D:75:VAL:HG12	1:D:78:PRO:HD2	1.40	1.02
1:E:252:THR:CG2	1:K:466:TYR:HH	1.65	1.02
1:F:103:ASP:H	1:F:104:PRO:HD3	1.20	1.02
1:J:75:VAL:HG12	1:J:78:PRO:HD2	1.40	1.02
1:K:376:MET:HE3	1:K:433:VAL:CG1	1.89	1.02
1:K:401:PRO:HA	1:K:405:LYS:HB3	1.03	1.02
1:A:339:ARG:HG2	1:A:340:SER:H	1.21	1.02
1:C:76:ILE:CD1	1:C:202:MET:HE1	1.90	1.02
1:J:12:HIS:O	1:J:13:GLU:HB2	1.58	1.02
1:J:401:PRO:HA	1:J:405:LYS:HB3	1.03	1.02
1:A:338:ASN:HD21	1:A:395:ASN:N	1.58	1.02
1:A:339:ARG:C	1:A:341:ALA:H	1.57	1.02
1:C:15:LYS:HA	1:C:35:ALA:HB2	1.03	1.02
1:D:401:PRO:HA	1:D:405:LYS:HB3	1.03	1.02
1:E:157:ALA:H	1:E:215:THR:HG22	1.25	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:15:LYS:HA	1:G:35:ALA:HB2	1.03	1.02
1:I:283:SER:O	1:I:291:SER:HB3	1.60	1.02
1:J:20:ARG:HG2	1:J:28:GLU:OE1	1.58	1.02
1:J:339:ARG:HG2	1:J:340:SER:H	1.21	1.02
1:K:103:ASP:H	1:K:104:PRO:HD3	1.20	1.02
1:A:15:LYS:HA	1:A:35:ALA:HB2	1.03	1.02
1:C:103:ASP:H	1:C:104:PRO:HD3	1.20	1.02
1:D:20:ARG:HG2	1:D:28:GLU:OE1	1.59	1.02
1:E:283:SER:O	1:E:291:SER:HB3	1.60	1.02
1:F:338:ASN:HD21	1:F:395:ASN:N	1.58	1.02
1:G:338:ASN:HD21	1:G:395:ASN:N	1.58	1.02
1:K:15:LYS:HA	1:K:35:ALA:HB2	1.03	1.02
1:D:339:ARG:HG2	1:D:340:SER:H	1.21	1.01
1:F:15:LYS:HA	1:F:35:ALA:HB2	1.03	1.01
1:F:75:VAL:HG12	1:F:78:PRO:HD2	1.40	1.01
1:I:157:ALA:H	1:I:215:THR:HG22	1.24	1.01
1:C:65:MET:HE3	1:C:65:MET:HA	1.42	1.01
1:C:466:TYR:HH	1:I:252:THR:CG2	1.66	1.01
1:H:338:ASN:HD21	1:H:395:ASN:N	1.58	1.01
1:J:283:SER:O	1:J:291:SER:HB3	1.60	1.01
1:L:12:HIS:O	1:L:13:GLU:HB2	1.58	1.01
1:A:68:MET:HE1	1:A:105:ARG:HD2	1.04	1.01
1:B:12:HIS:O	1:B:13:GLU:HB2	1.58	1.01
1:B:88:ARG:NH2	1:B:109:LYS:HZ2	1.54	1.01
1:B:338:ASN:HD21	1:B:395:ASN:N	1.58	1.01
1:D:65:MET:HA	1:D:65:MET:HE3	1.43	1.01
1:D:283:SER:O	1:D:291:SER:HB3	1.60	1.01
1:F:20:ARG:HG2	1:F:28:GLU:OE1	1.59	1.01
1:H:15:LYS:HA	1:H:35:ALA:HB2	1.03	1.01
1:H:20:ARG:HG2	1:H:28:GLU:OE1	1.59	1.01
1:H:75:VAL:HG12	1:H:78:PRO:HD2	1.40	1.01
1:I:68:MET:HE3	1:I:88:ARG:HB2	1.42	1.01
1:L:338:ASN:HD21	1:L:395:ASN:N	1.58	1.01
1:E:315:THR:HG1	1:K:465:TYR:CB	1.74	1.01
1:F:283:SER:O	1:F:291:SER:HB3	1.60	1.01
1:G:68:MET:HE1	1:G:105:ARG:HD2	1.04	1.01
1:H:283:SER:O	1:H:291:SER:HB3	1.60	1.01
1:K:376:MET:HE1	1:K:433:VAL:HG11	1.38	1.01
1:A:360:PHE:N	1:A:361:PRO:CD	2.24	1.01
1:B:75:VAL:HG12	1:B:78:PRO:HD2	1.40	1.01
1:E:68:MET:HE3	1:E:88:ARG:HB2	1.42	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:86:ILE:HD12	1:E:86:ILE:N	1.70	1.01
1:E:338:ASN:HD21	1:E:395:ASN:N	1.58	1.01
1:F:89:CYS:HB3	1:F:90:ASP:OD2	1.61	1.01
1:H:89:CYS:HB3	1:H:90:ASP:OD2	1.61	1.01
1:I:338:ASN:HD21	1:I:395:ASN:N	1.58	1.01
1:J:65:MET:HA	1:J:65:MET:HE3	1.43	1.01
1:K:76:ILE:HD11	1:K:202:MET:HE3	1.39	1.01
1:L:75:VAL:HG12	1:L:78:PRO:HD2	1.40	1.01
1:C:338:ASN:HD21	1:C:395:ASN:N	1.58	1.00
1:D:338:ASN:HD21	1:D:395:ASN:N	1.58	1.00
1:E:89:CYS:HB3	1:E:90:ASP:OD2	1.61	1.00
1:F:86:ILE:HD12	1:F:86:ILE:N	1.70	1.00
1:G:360:PHE:N	1:G:361:PRO:CD	2.24	1.00
1:H:339:ARG:HG2	1:H:340:SER:H	1.21	1.00
1:L:88:ARG:NH2	1:L:109:LYS:HZ2	1.55	1.00
1:B:401:PRO:HA	1:B:405:LYS:CB	1.91	1.00
1:C:155:GLU:O	1:C:156:GLY:O	1.79	1.00
1:D:76:ILE:CD1	1:D:202:MET:HE1	1.91	1.00
1:D:89:CYS:HB3	1:D:90:ASP:OD2	1.61	1.00
1:D:155:GLU:O	1:D:156:GLY:O	1.79	1.00
1:E:12:HIS:O	1:E:13:GLU:HB2	1.58	1.00
1:E:155:GLU:O	1:E:156:GLY:O	1.79	1.00
1:H:86:ILE:HD12	1:H:86:ILE:N	1.70	1.00
1:I:89:CYS:HB3	1:I:90:ASP:OD2	1.62	1.00
1:J:76:ILE:CD1	1:J:202:MET:HE1	1.91	1.00
1:J:89:CYS:HB3	1:J:90:ASP:OD2	1.61	1.00
1:J:155:GLU:O	1:J:156:GLY:O	1.79	1.00
1:K:155:GLU:O	1:K:156:GLY:O	1.79	1.00
1:K:338:ASN:HD21	1:K:395:ASN:N	1.58	1.00
1:E:335:SER:O	1:E:336:ALA:HB3	1.60	1.00
1:F:339:ARG:HG2	1:F:340:SER:H	1.21	1.00
1:G:75:VAL:HG12	1:G:78:PRO:HD2	1.40	1.00
1:G:401:PRO:HA	1:G:405:LYS:CB	1.91	1.00
1:I:12:HIS:O	1:I:13:GLU:HB2	1.59	1.00
1:K:283:SER:O	1:K:291:SER:HB3	1.60	1.00
1:L:20:ARG:HG2	1:L:28:GLU:OE1	1.58	1.00
1:L:401:PRO:HA	1:L:405:LYS:CB	1.91	1.00
1:A:89:CYS:HB3	1:A:90:ASP:OD2	1.61	1.00
1:A:401:PRO:HA	1:A:405:LYS:CB	1.91	1.00
1:A:401:PRO:HA	1:A:405:LYS:HB3	1.03	1.00
1:I:155:GLU:O	1:I:156:GLY:O	1.79	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:338:ASN:HD21	1:J:395:ASN:N	1.58	1.00
1:K:65:MET:HE3	1:K:65:MET:HA	1.44	1.00
1:C:283:SER:O	1:C:291:SER:HB3	1.60	1.00
1:F:335:SER:O	1:F:336:ALA:HB3	1.59	1.00
1:F:401:PRO:HA	1:F:405:LYS:HB3	1.03	1.00
1:G:20:ARG:HG2	1:G:28:GLU:OE1	1.58	1.00
1:G:68:MET:HE1	1:G:105:ARG:CD	1.90	1.00
1:G:401:PRO:HA	1:G:405:LYS:HB3	1.03	1.00
1:I:335:SER:O	1:I:336:ALA:HB3	1.60	1.00
1:I:339:ARG:HG2	1:I:340:SER:H	1.21	1.00
1:L:155:GLU:O	1:L:156:GLY:O	1.79	1.00
1:A:12:HIS:O	1:A:13:GLU:HB2	1.58	1.00
1:B:155:GLU:O	1:B:156:GLY:O	1.79	1.00
1:I:401:PRO:HA	1:I:405:LYS:HB3	1.03	1.00
1:K:89:CYS:HB3	1:K:90:ASP:OD2	1.62	1.00
1:K:401:PRO:HA	1:K:405:LYS:CB	1.91	1.00
1:A:68:MET:HE1	1:A:105:ARG:CD	1.90	1.00
1:A:75:VAL:HG12	1:A:78:PRO:HD2	1.40	1.00
1:B:20:ARG:HG2	1:B:28:GLU:OE1	1.59	1.00
1:C:89:CYS:HB3	1:C:90:ASP:OD2	1.61	1.00
1:G:89:CYS:HB3	1:G:90:ASP:OD2	1.62	1.00
1:H:335:SER:O	1:H:336:ALA:HB3	1.59	1.00
1:C:20:ARG:HG2	1:C:28:GLU:OE1	1.59	0.99
1:C:401:PRO:HA	1:C:405:LYS:CB	1.91	0.99
1:E:339:ARG:HG2	1:E:340:SER:H	1.21	0.99
1:H:401:PRO:HA	1:H:405:LYS:HB3	1.03	0.99
1:K:20:ARG:HG2	1:K:28:GLU:OE1	1.58	0.99
1:L:65:MET:HA	1:L:65:MET:HE3	1.43	0.99
1:L:283:SER:O	1:L:291:SER:HB3	1.60	0.99
1:A:20:ARG:HG2	1:A:28:GLU:OE1	1.58	0.99
1:F:360:PHE:N	1:F:361:PRO:CD	2.24	0.99
1:G:12:HIS:O	1:G:13:GLU:HB2	1.58	0.99
1:B:283:SER:O	1:B:291:SER:HB3	1.60	0.99
1:B:401:PRO:HA	1:B:405:LYS:HB3	1.03	0.99
1:E:15:LYS:HA	1:E:35:ALA:HB2	1.03	0.99
1:E:401:PRO:HA	1:E:405:LYS:CB	1.91	0.99
1:H:155:GLU:O	1:H:156:GLY:O	1.79	0.99
1:H:360:PHE:N	1:H:361:PRO:CD	2.24	0.99
1:I:15:LYS:HA	1:I:35:ALA:HB2	1.03	0.99
1:I:98:GLN:HG3	1:I:102:ARG:O	1.61	0.99
1:K:12:HIS:O	1:K:13:GLU:HB2	1.58	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:98:GLN:HG3	1:A:102:ARG:O	1.61	0.99
1:C:68:MET:CE	1:C:105:ARG:CD	2.41	0.99
1:D:15:LYS:HA	1:D:35:ALA:HB2	1.03	0.99
1:E:75:VAL:HG12	1:E:78:PRO:HD2	1.40	0.99
1:G:283:SER:O	1:G:291:SER:HB3	1.60	0.99
1:H:157:ALA:H	1:H:215:THR:HG22	1.24	0.99
1:H:339:ARG:C	1:H:341:ALA:H	1.57	0.99
1:H:376:MET:HE3	1:H:433:VAL:CG1	1.93	0.99
1:H:401:PRO:HA	1:H:405:LYS:CB	1.91	0.99
1:I:75:VAL:HG12	1:I:78:PRO:HD2	1.40	0.99
1:I:79:PHE:HD1	1:I:80:PHE:CG	1.80	0.99
1:I:401:PRO:HA	1:I:405:LYS:CB	1.91	0.99
1:J:15:LYS:HA	1:J:35:ALA:HB2	1.03	0.99
1:L:79:PHE:HD1	1:L:80:PHE:CG	1.80	0.99
1:C:79:PHE:HD1	1:C:80:PHE:CG	1.80	0.99
1:E:79:PHE:HD1	1:E:80:PHE:CG	1.80	0.99
1:E:376:MET:HE1	1:E:433:VAL:HG11	1.41	0.99
1:G:98:GLN:HG3	1:G:102:ARG:O	1.61	0.99
1:K:68:MET:CE	1:K:105:ARG:CD	2.41	0.99
1:K:79:PHE:HD1	1:K:80:PHE:CG	1.80	0.99
1:L:401:PRO:HA	1:L:405:LYS:HB3	1.03	0.99
1:A:283:SER:O	1:A:291:SER:HB3	1.60	0.99
1:B:79:PHE:HD1	1:B:80:PHE:CG	1.80	0.99
1:B:98:GLN:HG3	1:B:102:ARG:O	1.61	0.99
1:C:360:PHE:N	1:C:361:PRO:CD	2.24	0.99
1:E:401:PRO:HA	1:E:405:LYS:HB3	1.03	0.99
1:F:155:GLU:O	1:F:156:GLY:O	1.79	0.99
1:F:339:ARG:C	1:F:341:ALA:H	1.57	0.99
1:A:28:GLU:CG	1:B:182:VAL:HG11	1.92	0.99
1:B:465:TYR:CB	1:H:315:THR:HG1	1.76	0.99
1:E:19:LEU:O	1:E:19:LEU:HG	1.10	0.99
1:F:401:PRO:HA	1:F:405:LYS:CB	1.91	0.99
1:I:19:LEU:O	1:I:19:LEU:HG	1.10	0.99
1:A:71:ALA:O	1:A:86:ILE:HD11	1.63	0.99
1:C:12:HIS:O	1:C:13:GLU:HB2	1.58	0.99
1:J:401:PRO:HA	1:J:405:LYS:CB	1.91	0.99
1:K:360:PHE:N	1:K:361:PRO:CD	2.25	0.99
1:D:401:PRO:HA	1:D:405:LYS:CB	1.91	0.99
1:F:98:GLN:HG3	1:F:102:ARG:O	1.61	0.99
1:F:157:ALA:H	1:F:215:THR:HG22	1.24	0.99
1:H:314:PRO:O	1:H:315:THR:O	1.81	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:182:VAL:HG11	1:L:28:GLU:CG	1.92	0.99
1:L:98:GLN:HG3	1:L:102:ARG:O	1.61	0.99
1:C:88:ARG:NH2	1:C:109:LYS:HZ1	1.60	0.99
1:D:98:GLN:HG3	1:D:102:ARG:O	1.62	0.99
1:D:376:MET:CE	1:D:433:VAL:CG1	2.41	0.99
1:E:98:GLN:HG3	1:E:102:ARG:O	1.62	0.99
1:G:28:GLU:CG	1:L:182:VAL:HG11	1.92	0.99
1:G:71:ALA:O	1:G:86:ILE:HD11	1.63	0.99
1:G:79:PHE:HD1	1:G:80:PHE:CG	1.80	0.99
1:H:98:GLN:HG3	1:H:102:ARG:O	1.61	0.99
1:J:376:MET:CE	1:J:433:VAL:CG1	2.41	0.99
1:A:79:PHE:HD1	1:A:80:PHE:CG	1.80	0.98
1:A:88:ARG:NE	1:A:109:LYS:HE3	1.78	0.98
1:B:28:GLU:CG	1:C:182:VAL:HG11	1.92	0.98
1:D:88:ARG:NE	1:D:109:LYS:HE3	1.77	0.98
1:D:296:TYR:HB2	1:D:382:ILE:HA	1.44	0.98
1:F:79:PHE:HD1	1:F:80:PHE:CG	1.80	0.98
1:F:314:PRO:O	1:F:315:THR:O	1.81	0.98
1:G:88:ARG:NE	1:G:109:LYS:HE3	1.77	0.98
1:G:182:VAL:HG11	1:H:28:GLU:CG	1.92	0.98
1:L:88:ARG:NE	1:L:109:LYS:HE3	1.77	0.98
1:B:360:PHE:N	1:B:361:PRO:CD	2.24	0.98
1:C:28:GLU:CG	1:D:182:VAL:HG11	1.92	0.98
1:C:71:ALA:O	1:C:86:ILE:HD11	1.63	0.98
1:I:314:PRO:O	1:I:315:THR:O	1.81	0.98
1:I:331:MET:CE	1:I:396:LEU:HD12	1.94	0.98
1:J:98:GLN:HG3	1:J:102:ARG:O	1.62	0.98
1:J:335:SER:O	1:J:336:ALA:HB3	1.59	0.98
1:L:335:SER:O	1:L:336:ALA:HB3	1.59	0.98
1:A:179:TYR:C	1:A:181:PRO:HD3	1.84	0.98
1:C:376:MET:CE	1:C:433:VAL:CG1	2.41	0.98
1:D:19:LEU:HD22	1:D:240:TYR:OH	1.63	0.98
1:E:331:MET:CE	1:E:396:LEU:HD12	1.94	0.98
1:G:314:PRO:O	1:G:315:THR:O	1.81	0.98
1:H:79:PHE:HD1	1:H:80:PHE:CG	1.80	0.98
1:H:331:MET:CE	1:H:396:LEU:HD12	1.93	0.98
1:I:376:MET:HE1	1:I:433:VAL:HG11	1.42	0.98
1:J:79:PHE:HD1	1:J:80:PHE:CG	1.80	0.98
1:J:88:ARG:NE	1:J:109:LYS:HE3	1.78	0.98
1:K:376:MET:CE	1:K:433:VAL:CG1	2.41	0.98
1:A:155:GLU:O	1:A:156:GLY:O	1.79	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:182:VAL:HG11	1:F:28:GLU:CG	1.92	0.98
1:A:314:PRO:O	1:A:315:THR:O	1.81	0.98
1:A:331:MET:CE	1:A:396:LEU:HD12	1.94	0.98
1:C:98:GLN:HG3	1:C:102:ARG:O	1.62	0.98
1:D:71:ALA:O	1:D:86:ILE:HD11	1.63	0.98
1:D:179:TYR:C	1:D:181:PRO:HD3	1.84	0.98
1:G:155:GLU:O	1:G:156:GLY:O	1.79	0.98
1:G:179:TYR:C	1:G:181:PRO:HD3	1.84	0.98
1:G:296:TYR:HB2	1:G:382:ILE:HA	1.44	0.98
1:G:331:MET:CE	1:G:396:LEU:HD12	1.93	0.98
1:H:182:VAL:HG11	1:I:28:GLU:CG	1.92	0.98
1:I:179:TYR:C	1:I:181:PRO:HD3	1.84	0.98
1:J:19:LEU:HD22	1:J:240:TYR:OH	1.63	0.98
1:J:296:TYR:HB2	1:J:382:ILE:HA	1.44	0.98
1:K:71:ALA:O	1:K:86:ILE:HD11	1.63	0.98
1:K:89:CYS:SG	1:K:103:ASP:CA	2.52	0.98
1:B:89:CYS:SG	1:B:103:ASP:CA	2.52	0.98
1:B:335:SER:O	1:B:336:ALA:HB3	1.59	0.98
1:C:89:CYS:SG	1:C:103:ASP:CA	2.52	0.98
1:D:335:SER:O	1:D:336:ALA:HB3	1.59	0.98
1:E:314:PRO:O	1:E:315:THR:O	1.81	0.98
1:G:157:ALA:H	1:G:215:THR:HG22	1.24	0.98
1:I:182:VAL:HG11	1:J:28:GLU:CG	1.92	0.98
1:J:179:TYR:C	1:J:181:PRO:HD3	1.84	0.98
1:J:331:MET:CE	1:J:396:LEU:HD12	1.93	0.98
1:A:296:TYR:HB2	1:A:382:ILE:HA	1.44	0.98
1:A:466:TYR:HH	1:G:252:THR:CG2	1.66	0.98
1:B:88:ARG:NE	1:B:109:LYS:HE3	1.78	0.98
1:D:28:GLU:CG	1:E:182:VAL:HG11	1.92	0.98
1:E:28:GLU:CG	1:F:182:VAL:HG11	1.92	0.98
1:F:331:MET:CE	1:F:396:LEU:HD12	1.94	0.98
1:H:88:ARG:NE	1:H:109:LYS:HE3	1.77	0.98
1:J:71:ALA:O	1:J:86:ILE:HD11	1.63	0.98
1:L:71:ALA:O	1:L:86:ILE:HD11	1.63	0.98
1:L:89:CYS:SG	1:L:103:ASP:CA	2.52	0.98
1:L:360:PHE:N	1:L:361:PRO:CD	2.24	0.98
1:A:68:MET:CE	1:A:105:ARG:CD	2.41	0.98
1:D:79:PHE:HD1	1:D:80:PHE:CG	1.80	0.98
1:D:331:MET:CE	1:D:396:LEU:HD12	1.94	0.98
1:E:360:PHE:N	1:E:361:PRO:CD	2.24	0.98
1:G:376:MET:HE3	1:G:433:VAL:CG1	1.93	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:182:VAL:HG11	1:K:28:GLU:CG	1.92	0.98
1:K:98:GLN:HG3	1:K:102:ARG:O	1.61	0.98
1:L:68:MET:HE1	1:L:105:ARG:HD2	0.98	0.98
1:L:89:CYS:HB3	1:L:90:ASP:OD2	1.61	0.98
1:L:96:THR:C	1:L:97:LEU:CG	2.32	0.98
1:B:71:ALA:O	1:B:86:ILE:HD11	1.63	0.98
1:B:89:CYS:HB3	1:B:90:ASP:OD2	1.62	0.98
1:E:19:LEU:HD22	1:E:240:TYR:OH	1.63	0.98
1:E:65:MET:HA	1:E:65:MET:HE3	1.44	0.98
1:E:179:TYR:C	1:E:181:PRO:HD3	1.84	0.98
1:F:376:MET:HE3	1:F:433:VAL:CG1	1.94	0.98
1:I:88:ARG:NE	1:I:109:LYS:HE3	1.77	0.98
1:I:360:PHE:N	1:I:361:PRO:CD	2.24	0.98
1:B:96:THR:C	1:B:97:LEU:CG	2.32	0.98
1:F:88:ARG:NE	1:F:109:LYS:HE3	1.78	0.98
1:G:68:MET:CE	1:G:105:ARG:CD	2.41	0.98
1:H:68:MET:CE	1:H:105:ARG:CD	2.41	0.98
1:I:339:ARG:C	1:I:341:ALA:H	1.57	0.98
1:J:314:PRO:O	1:J:315:THR:O	1.81	0.98
1:A:157:ALA:H	1:A:215:THR:HG22	1.24	0.98
1:B:314:PRO:O	1:B:315:THR:O	1.81	0.98
1:C:88:ARG:NE	1:C:109:LYS:HE3	1.78	0.98
1:C:96:THR:C	1:C:97:LEU:CG	2.32	0.98
1:D:314:PRO:O	1:D:315:THR:O	1.81	0.98
1:E:88:ARG:NE	1:E:109:LYS:HE3	1.78	0.98
1:F:68:MET:CE	1:F:105:ARG:CD	2.41	0.98
1:I:19:LEU:HD22	1:I:240:TYR:OH	1.63	0.98
1:I:65:MET:HA	1:I:65:MET:HE3	1.44	0.98
1:I:71:ALA:O	1:I:86:ILE:HD11	1.63	0.98
1:J:96:THR:C	1:J:97:LEU:CG	2.32	0.98
1:A:376:MET:CE	1:A:433:VAL:CG1	2.41	0.97
1:B:19:LEU:O	1:B:19:LEU:HG	1.10	0.97
1:C:57:TRP:CD1	1:C:58:LYS:N	2.32	0.97
1:C:314:PRO:O	1:C:315:THR:O	1.81	0.97
1:H:57:TRP:CD1	1:H:58:LYS:N	2.32	0.97
1:K:96:THR:C	1:K:97:LEU:CG	2.32	0.97
1:K:314:PRO:O	1:K:315:THR:O	1.81	0.97
1:L:314:PRO:O	1:L:315:THR:O	1.82	0.97
1:B:68:MET:HE1	1:B:105:ARG:HD2	0.98	0.97
1:B:179:TYR:C	1:B:181:PRO:HD3	1.84	0.97
1:E:71:ALA:O	1:E:86:ILE:HD11	1.63	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:296:TYR:HB2	1:E:382:ILE:HA	1.44	0.97
1:G:19:LEU:HD22	1:G:240:TYR:OH	1.63	0.97
1:K:57:TRP:CD1	1:K:58:LYS:N	2.33	0.97
1:K:88:ARG:NE	1:K:109:LYS:HE3	1.78	0.97
1:A:19:LEU:HD22	1:A:240:TYR:OH	1.63	0.97
1:A:57:TRP:CD1	1:A:58:LYS:N	2.33	0.97
1:B:315:THR:HG1	1:H:465:TYR:CB	1.74	0.97
1:E:76:ILE:CD1	1:E:202:MET:HE1	1.93	0.97
1:E:89:CYS:SG	1:E:103:ASP:CA	2.52	0.97
1:E:96:THR:C	1:E:97:LEU:CG	2.32	0.97
1:F:57:TRP:CD1	1:F:58:LYS:N	2.33	0.97
1:F:89:CYS:SG	1:F:103:ASP:CA	2.52	0.97
1:F:339:ARG:O	1:F:340:SER:CB	2.12	0.97
1:G:376:MET:CE	1:G:433:VAL:CG1	2.41	0.97
1:H:71:ALA:O	1:H:86:ILE:HD11	1.63	0.97
1:H:89:CYS:SG	1:H:103:ASP:CA	2.52	0.97
1:I:96:THR:C	1:I:97:LEU:CG	2.32	0.97
1:I:296:TYR:HB2	1:I:382:ILE:HA	1.44	0.97
1:J:89:CYS:SG	1:J:103:ASP:CA	2.52	0.97
1:L:179:TYR:C	1:L:181:PRO:HD3	1.84	0.97
1:L:376:MET:CE	1:L:433:VAL:CG1	2.41	0.97
1:B:65:MET:O	1:B:66:VAL:C	2.03	0.97
1:C:315:THR:HG1	1:I:465:TYR:CB	1.73	0.97
1:D:57:TRP:CD1	1:D:58:LYS:N	2.33	0.97
1:D:96:THR:C	1:D:97:LEU:CG	2.32	0.97
1:G:57:TRP:CD1	1:G:58:LYS:N	2.33	0.97
1:H:19:LEU:HD22	1:H:240:TYR:OH	1.63	0.97
1:H:339:ARG:O	1:H:340:SER:CB	2.12	0.97
1:J:57:TRP:CD1	1:J:58:LYS:N	2.33	0.97
1:L:65:MET:O	1:L:66:VAL:C	2.03	0.97
1:A:15:LYS:CA	1:A:35:ALA:HB2	1.94	0.97
1:B:15:LYS:CA	1:B:35:ALA:HB2	1.94	0.97
1:C:54:ILE:CD1	1:C:102:ARG:NE	2.28	0.97
1:C:179:TYR:C	1:C:181:PRO:HD3	1.84	0.97
1:C:296:TYR:HB2	1:C:382:ILE:HA	1.44	0.97
1:D:89:CYS:SG	1:D:103:ASP:CA	2.52	0.97
1:D:360:PHE:N	1:D:361:PRO:CD	2.24	0.97
1:F:19:LEU:HD22	1:F:240:TYR:OH	1.63	0.97
1:F:71:ALA:O	1:F:86:ILE:HD11	1.63	0.97
1:F:179:TYR:C	1:F:181:PRO:HD3	1.84	0.97
1:I:76:ILE:CD1	1:I:202:MET:HE1	1.93	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:89:CYS:SG	1:I:103:ASP:CA	2.52	0.97
1:K:335:SER:O	1:K:336:ALA:HB3	1.59	0.97
1:L:19:LEU:O	1:L:19:LEU:HG	1.10	0.97
1:B:57:TRP:CD1	1:B:58:LYS:N	2.33	0.97
1:C:331:MET:CE	1:C:396:LEU:HD12	1.93	0.97
1:C:376:MET:HE3	1:C:433:VAL:CG1	1.94	0.97
1:D:157:ALA:H	1:D:215:THR:HG22	1.24	0.97
1:G:15:LYS:CA	1:G:35:ALA:HB2	1.94	0.97
1:I:57:TRP:CD1	1:I:58:LYS:N	2.33	0.97
1:J:360:PHE:H	1:J:361:PRO:HD2	1.29	0.97
1:K:296:TYR:HB2	1:K:382:ILE:HA	1.44	0.97
1:K:331:MET:CE	1:K:396:LEU:HD12	1.94	0.97
1:L:15:LYS:CA	1:L:35:ALA:HB2	1.94	0.97
1:L:57:TRP:CD1	1:L:58:LYS:N	2.33	0.97
1:D:360:PHE:H	1:D:361:PRO:HD2	1.29	0.97
1:E:57:TRP:CD1	1:E:58:LYS:N	2.33	0.97
1:E:339:ARG:C	1:E:341:ALA:H	1.57	0.97
1:J:360:PHE:N	1:J:361:PRO:CD	2.24	0.97
1:K:54:ILE:CD1	1:K:102:ARG:NE	2.28	0.97
1:F:465:TYR:CB	1:L:315:THR:HG1	1.74	0.97
1:H:12:HIS:O	1:H:13:GLU:HB2	1.58	0.97
1:H:179:TYR:C	1:H:181:PRO:HD3	1.84	0.97
1:B:157:ALA:H	1:B:215:THR:HG22	1.24	0.97
1:B:376:MET:CE	1:B:433:VAL:CG1	2.41	0.97
1:C:19:LEU:HD22	1:C:240:TYR:OH	1.63	0.97
1:C:449:GLU:OE2	1:I:465:TYR:OH	1.83	0.97
1:E:339:ARG:O	1:E:340:SER:CB	2.12	0.97
1:E:465:TYR:OH	1:K:449:GLU:OE2	1.83	0.97
1:F:12:HIS:O	1:F:13:GLU:HB2	1.58	0.97
1:G:96:THR:C	1:G:97:LEU:CG	2.32	0.97
1:I:68:MET:CE	1:I:105:ARG:CD	2.41	0.97
1:K:19:LEU:HD22	1:K:240:TYR:OH	1.63	0.97
1:K:179:TYR:C	1:K:181:PRO:HD3	1.84	0.97
1:A:449:GLU:OE2	1:G:465:TYR:OH	1.83	0.97
1:C:335:SER:O	1:C:336:ALA:HB3	1.60	0.97
1:D:54:ILE:CD1	1:D:102:ARG:NE	2.28	0.97
1:L:331:MET:CE	1:L:396:LEU:HD12	1.94	0.97
1:A:465:TYR:OH	1:G:449:GLU:OE2	1.83	0.96
1:B:68:MET:CE	1:B:105:ARG:CD	2.41	0.96
1:E:68:MET:CE	1:E:105:ARG:CD	2.41	0.96
1:I:339:ARG:O	1:I:340:SER:CB	2.12	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:54:ILE:CD1	1:J:102:ARG:NE	2.28	0.96
1:J:157:ALA:H	1:J:215:THR:HG22	1.24	0.96
1:K:65:MET:O	1:K:66:VAL:C	2.03	0.96
1:B:19:LEU:HD22	1:B:240:TYR:OH	1.63	0.96
1:B:331:MET:CE	1:B:396:LEU:HD12	1.94	0.96
1:B:449:GLU:OE2	1:H:465:TYR:OH	1.83	0.96
1:E:68:MET:HE1	1:E:105:ARG:HD2	0.99	0.96
1:L:19:LEU:HD22	1:L:240:TYR:OH	1.63	0.96
1:L:54:ILE:CD1	1:L:102:ARG:NE	2.28	0.96
1:L:68:MET:CE	1:L:105:ARG:CD	2.41	0.96
1:L:157:ALA:H	1:L:215:THR:HG22	1.24	0.96
1:A:339:ARG:O	1:A:340:SER:CB	2.12	0.96
1:B:54:ILE:CD1	1:B:102:ARG:NE	2.28	0.96
1:C:65:MET:O	1:C:66:VAL:C	2.03	0.96
1:D:65:MET:O	1:D:66:VAL:C	2.03	0.96
1:E:465:TYR:CB	1:K:315:THR:HG1	1.74	0.96
1:L:76:ILE:HD11	1:L:202:MET:HE3	1.45	0.96
1:A:89:CYS:SG	1:A:103:ASP:CA	2.52	0.96
1:B:76:ILE:HD11	1:B:202:MET:HE3	1.45	0.96
1:D:15:LYS:CA	1:D:35:ALA:HB2	1.94	0.96
1:D:68:MET:HE1	1:D:105:ARG:HD2	0.98	0.96
1:F:296:TYR:HB2	1:F:382:ILE:HA	1.44	0.96
1:F:449:GLU:OE2	1:L:465:TYR:OH	1.83	0.96
1:F:465:TYR:OH	1:L:449:GLU:OE2	1.83	0.96
1:G:54:ILE:CD1	1:G:102:ARG:HE	1.79	0.96
1:H:76:ILE:HD11	1:H:202:MET:HE3	1.44	0.96
1:I:93:GLU:HB3	1:I:94:PRO:HD2	0.96	0.96
1:I:401:PRO:CA	1:I:405:LYS:HB3	1.96	0.96
1:A:96:THR:C	1:A:97:LEU:CG	2.32	0.96
1:B:465:TYR:OH	1:H:449:GLU:OE2	1.83	0.96
1:E:401:PRO:CA	1:E:405:LYS:HB3	1.96	0.96
1:G:93:GLU:CB	1:G:94:PRO:HD2	1.93	0.96
1:H:296:TYR:HB2	1:H:382:ILE:HA	1.44	0.96
1:J:15:LYS:CA	1:J:35:ALA:HB2	1.94	0.96
1:J:93:GLU:HB3	1:J:94:PRO:HD2	0.97	0.96
1:A:54:ILE:CD1	1:A:102:ARG:HE	1.79	0.96
1:A:93:GLU:CB	1:A:94:PRO:HD2	1.93	0.96
1:A:335:SER:O	1:A:336:ALA:HB3	1.59	0.96
1:C:157:ALA:H	1:C:215:THR:HG22	1.24	0.96
1:C:340:SER:HB2	1:C:395:ASN:OD1	1.66	0.96
1:F:65:MET:O	1:F:66:VAL:C	2.03	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:89:CYS:SG	1:G:103:ASP:CA	2.52	0.96
1:G:335:SER:O	1:G:336:ALA:HB3	1.59	0.96
1:G:339:ARG:O	1:G:340:SER:CB	2.12	0.96
1:H:65:MET:O	1:H:66:VAL:C	2.03	0.96
1:I:407:ILE:HD13	1:I:408:PRO:CD	1.96	0.96
1:J:68:MET:HE1	1:J:105:ARG:HD2	0.98	0.96
1:J:401:PRO:CA	1:J:405:LYS:HB3	1.96	0.96
1:K:340:SER:HB2	1:K:395:ASN:OD1	1.66	0.96
1:L:18:ASP:CG	1:L:19:LEU:H	1.69	0.96
1:A:315:THR:HG21	1:G:465:TYR:HD2	1.01	0.96
1:B:405:LYS:HE3	1:B:406:GLU:HB2	1.47	0.96
1:D:339:ARG:C	1:D:341:ALA:H	1.57	0.96
1:D:401:PRO:CA	1:D:405:LYS:HB3	1.96	0.96
1:D:465:TYR:OH	1:J:449:GLU:OE2	1.83	0.96
1:F:54:ILE:CD1	1:F:102:ARG:HE	1.79	0.96
1:J:65:MET:O	1:J:66:VAL:C	2.03	0.96
1:J:340:SER:HB2	1:J:395:ASN:OD1	1.66	0.96
1:A:465:TYR:HD2	1:G:315:THR:HG21	1.01	0.96
1:C:68:MET:HE1	1:C:105:ARG:CD	1.96	0.96
1:D:340:SER:HB2	1:D:395:ASN:OD1	1.66	0.96
1:D:449:GLU:OE2	1:J:465:TYR:OH	1.83	0.96
1:E:93:GLU:HB3	1:E:94:PRO:HD2	0.96	0.96
1:E:407:ILE:HD13	1:E:408:PRO:CD	1.96	0.96
1:G:18:ASP:CG	1:G:19:LEU:H	1.69	0.96
1:H:376:MET:CE	1:H:433:VAL:CG1	2.41	0.96
1:I:68:MET:HE1	1:I:105:ARG:HD2	0.99	0.96
1:L:54:ILE:CD1	1:L:102:ARG:HE	1.79	0.96
1:A:376:MET:HE3	1:A:433:VAL:CG1	1.95	0.96
1:B:340:SER:HB2	1:B:395:ASN:OD1	1.66	0.96
1:B:360:PHE:H	1:B:361:PRO:HD2	1.29	0.96
1:D:93:GLU:HB3	1:D:94:PRO:HD2	0.96	0.96
1:E:1:SER:O	1:E:4:HIS:HB3	1.66	0.96
1:F:376:MET:CE	1:F:433:VAL:CG1	2.41	0.96
1:G:54:ILE:CD1	1:G:102:ARG:NE	2.28	0.96
1:H:54:ILE:CD1	1:H:102:ARG:HE	1.79	0.96
1:I:1:SER:O	1:I:4:HIS:HB3	1.66	0.96
1:K:68:MET:HE1	1:K:105:ARG:CD	1.96	0.96
1:L:360:PHE:H	1:L:361:PRO:HD2	1.30	0.96
1:A:54:ILE:CD1	1:A:102:ARG:NE	2.28	0.96
1:B:1:SER:O	1:B:4:HIS:HB3	1.66	0.96
1:B:15:LYS:HA	1:B:35:ALA:CB	1.96	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:18:ASP:CG	1:B:19:LEU:H	1.70	0.96
1:C:1:SER:O	1:C:4:HIS:HB3	1.66	0.96
1:C:15:LYS:CA	1:C:35:ALA:HB2	1.94	0.96
1:E:89:CYS:HB2	1:E:103:ASP:CG	1.87	0.96
1:E:376:MET:CE	1:E:433:VAL:CG1	2.41	0.96
1:F:88:ARG:HH21	1:F:109:LYS:HZ2	0.96	0.96
1:F:89:CYS:HB2	1:F:103:ASP:CG	1.87	0.96
1:H:405:LYS:HE3	1:H:406:GLU:HB2	1.47	0.96
1:I:89:CYS:HB2	1:I:103:ASP:CG	1.87	0.96
1:K:1:SER:O	1:K:4:HIS:HB3	1.66	0.96
1:K:157:ALA:H	1:K:215:THR:HG22	1.25	0.96
1:L:340:SER:HB2	1:L:395:ASN:OD1	1.66	0.96
1:A:18:ASP:CG	1:A:19:LEU:H	1.70	0.95
1:D:19:LEU:CD2	1:D:240:TYR:CZ	2.49	0.95
1:E:88:ARG:HH21	1:E:109:LYS:HZ2	0.98	0.95
1:H:89:CYS:HB2	1:H:103:ASP:CG	1.87	0.95
1:J:407:ILE:HD13	1:J:408:PRO:CD	1.95	0.95
1:K:15:LYS:CA	1:K:35:ALA:HB2	1.94	0.95
1:K:339:ARG:C	1:K:341:ALA:H	1.57	0.95
1:L:405:LYS:HE3	1:L:406:GLU:HB2	1.47	0.95
1:L:405:LYS:HG3	1:L:406:GLU:H	1.31	0.95
1:A:108:ALA:O	1:A:111:ALA:HB3	1.66	0.95
1:B:54:ILE:CD1	1:B:102:ARG:HE	1.79	0.95
1:B:405:LYS:HG3	1:B:406:GLU:H	1.31	0.95
1:D:93:GLU:CB	1:D:94:PRO:HD2	1.93	0.95
1:D:407:ILE:HD13	1:D:408:PRO:CD	1.96	0.95
1:E:19:LEU:CD2	1:E:240:TYR:CZ	2.49	0.95
1:H:15:LYS:CA	1:H:35:ALA:HB2	1.94	0.95
1:H:154:ILE:O	1:H:155:GLU:HB2	1.65	0.95
1:L:15:LYS:HA	1:L:35:ALA:CB	1.96	0.95
1:L:93:GLU:HB3	1:L:94:PRO:HD2	0.96	0.95
1:A:15:LYS:HA	1:A:35:ALA:CB	1.96	0.95
1:A:89:CYS:HB2	1:A:103:ASP:CG	1.87	0.95
1:B:93:GLU:HB3	1:B:94:PRO:HD2	0.96	0.95
1:B:108:ALA:O	1:B:111:ALA:HB3	1.67	0.95
1:E:54:ILE:CD1	1:E:102:ARG:NE	2.28	0.95
1:F:405:LYS:HE3	1:F:406:GLU:HB2	1.47	0.95
1:H:88:ARG:HH21	1:H:109:LYS:HZ2	0.95	0.95
1:I:340:SER:HB2	1:I:395:ASN:OD1	1.66	0.95
1:L:1:SER:O	1:L:4:HIS:HB3	1.66	0.95
1:A:1:SER:O	1:A:4:HIS:HB3	1.66	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:19:LEU:O	1:A:19:LEU:HG	1.10	0.95
1:A:93:GLU:HB3	1:A:94:PRO:HD2	0.96	0.95
1:A:405:LYS:HG3	1:A:406:GLU:H	1.31	0.95
1:A:407:ILE:HD13	1:A:408:PRO:CD	1.96	0.95
1:C:405:LYS:HG3	1:C:406:GLU:H	1.31	0.95
1:D:1:SER:O	1:D:4:HIS:HB3	1.66	0.95
1:E:340:SER:HB2	1:E:395:ASN:OD1	1.66	0.95
1:F:154:ILE:O	1:F:155:GLU:HB2	1.66	0.95
1:G:93:GLU:HB3	1:G:94:PRO:HD2	0.96	0.95
1:G:108:ALA:O	1:G:111:ALA:HB3	1.67	0.95
1:G:407:ILE:HD13	1:G:408:PRO:CD	1.96	0.95
1:H:93:GLU:HB3	1:H:94:PRO:HD2	0.97	0.95
1:J:19:LEU:CD2	1:J:240:TYR:CZ	2.50	0.95
1:J:68:MET:CE	1:J:105:ARG:CD	2.41	0.95
1:J:93:GLU:CB	1:J:94:PRO:HD2	1.93	0.95
1:L:108:ALA:O	1:L:111:ALA:HB3	1.67	0.95
1:A:360:PHE:H	1:A:361:PRO:HD2	1.30	0.95
1:D:25:LYS:CG	1:D:54:ILE:HD12	1.97	0.95
1:D:68:MET:CE	1:D:105:ARG:CD	2.41	0.95
1:D:403:GLU:HA	1:D:405:LYS:HG3	1.49	0.95
1:E:15:LYS:CA	1:E:35:ALA:HB2	1.94	0.95
1:E:465:TYR:HD2	1:K:315:THR:HG21	1.01	0.95
1:F:15:LYS:CA	1:F:35:ALA:HB2	1.94	0.95
1:F:19:LEU:CD2	1:F:240:TYR:CZ	2.50	0.95
1:G:1:SER:O	1:G:4:HIS:HB3	1.66	0.95
1:G:15:LYS:HA	1:G:35:ALA:CB	1.96	0.95
1:G:89:CYS:HB2	1:G:103:ASP:CG	1.87	0.95
1:H:54:ILE:CD1	1:H:102:ARG:NE	2.28	0.95
1:I:19:LEU:CD2	1:I:240:TYR:CZ	2.50	0.95
1:I:54:ILE:CD1	1:I:102:ARG:NE	2.28	0.95
1:I:88:ARG:HH21	1:I:109:LYS:HZ2	0.97	0.95
1:I:89:CYS:CB	1:I:103:ASP:OD2	2.15	0.95
1:J:1:SER:O	1:J:4:HIS:HB3	1.66	0.95
1:J:339:ARG:C	1:J:341:ALA:H	1.57	0.95
1:K:18:ASP:CG	1:K:19:LEU:H	1.69	0.95
1:L:404:ALA:O	1:L:407:ILE:HG22	1.67	0.95
1:C:18:ASP:CG	1:C:19:LEU:H	1.70	0.95
1:C:88:ARG:HH21	1:C:109:LYS:HZ2	1.06	0.95
1:C:315:THR:HG21	1:I:465:TYR:HD2	1.01	0.95
1:E:89:CYS:CB	1:E:103:ASP:OD2	2.15	0.95
1:F:54:ILE:CD1	1:F:102:ARG:NE	2.28	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:93:GLU:HB3	1:F:94:PRO:HD2	0.96	0.95
1:G:65:MET:O	1:G:66:VAL:C	2.03	0.95
1:G:405:LYS:HG3	1:G:406:GLU:H	1.31	0.95
1:H:18:ASP:CG	1:H:19:LEU:H	1.70	0.95
1:H:108:ALA:O	1:H:111:ALA:HB3	1.67	0.95
1:I:376:MET:CE	1:I:433:VAL:CG1	2.41	0.95
1:J:25:LYS:CG	1:J:54:ILE:HD12	1.97	0.95
1:K:19:LEU:O	1:K:19:LEU:HG	1.10	0.95
1:K:401:PRO:CA	1:K:405:LYS:HB3	1.96	0.95
1:A:403:GLU:HA	1:A:405:LYS:HG3	1.49	0.95
1:D:68:MET:N	1:D:69:PRO:HD3	1.82	0.95
1:D:89:CYS:HB2	1:D:103:ASP:CG	1.87	0.95
1:D:339:ARG:O	1:D:340:SER:CB	2.12	0.95
1:E:108:ALA:O	1:E:111:ALA:HB3	1.66	0.95
1:F:76:ILE:HD11	1:F:202:MET:HE3	1.45	0.95
1:F:407:ILE:HD13	1:F:408:PRO:CD	1.96	0.95
1:H:19:LEU:CD2	1:H:240:TYR:CZ	2.50	0.95
1:I:15:LYS:CA	1:I:35:ALA:HB2	1.94	0.95
1:I:108:ALA:O	1:I:111:ALA:HB3	1.66	0.95
1:I:360:PHE:H	1:I:361:PRO:HD2	1.30	0.95
1:J:89:CYS:HB2	1:J:103:ASP:CG	1.87	0.95
1:K:405:LYS:HG3	1:K:406:GLU:H	1.31	0.95
1:B:65:MET:HA	1:B:65:MET:HE3	1.47	0.95
1:C:71:ALA:HB3	1:C:86:ILE:HG12	1.49	0.95
1:C:360:PHE:H	1:C:361:PRO:HD2	1.30	0.95
1:E:65:MET:O	1:E:66:VAL:C	2.03	0.95
1:E:78:PRO:HB3	1:E:79:PHE:HE2	1.32	0.95
1:E:154:ILE:O	1:E:155:GLU:HB2	1.65	0.95
1:E:360:PHE:H	1:E:361:PRO:HD2	1.30	0.95
1:F:18:ASP:CG	1:F:19:LEU:H	1.70	0.95
1:F:108:ALA:O	1:F:111:ALA:HB3	1.66	0.95
1:G:360:PHE:H	1:G:361:PRO:HD2	1.30	0.95
1:H:407:ILE:HD13	1:H:408:PRO:CD	1.96	0.95
1:I:65:MET:O	1:I:66:VAL:C	2.03	0.95
1:I:78:PRO:HB3	1:I:79:PHE:HE2	1.32	0.95
1:J:68:MET:N	1:J:69:PRO:HD3	1.82	0.95
1:L:407:ILE:HD13	1:L:408:PRO:CD	1.96	0.95
1:B:404:ALA:O	1:B:407:ILE:HG22	1.67	0.95
1:B:407:ILE:HD13	1:B:408:PRO:CD	1.96	0.95
1:C:25:LYS:CG	1:C:54:ILE:HD12	1.97	0.95
1:E:54:ILE:CD1	1:E:102:ARG:HE	1.79	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:340:SER:HB2	1:F:395:ASN:OD1	1.66	0.95
1:H:15:LYS:HA	1:H:35:ALA:CB	1.96	0.95
1:J:339:ARG:O	1:J:340:SER:CB	2.12	0.95
1:K:71:ALA:HB3	1:K:86:ILE:HG12	1.49	0.95
1:K:405:LYS:HE3	1:K:406:GLU:HB2	1.47	0.95
1:A:65:MET:O	1:A:66:VAL:C	2.03	0.95
1:B:339:ARG:O	1:B:340:SER:CB	2.12	0.95
1:D:315:THR:HG1	1:J:465:TYR:CB	1.78	0.95
1:G:379:LEU:HA	1:G:382:ILE:HB	1.49	0.95
1:A:379:LEU:HA	1:A:382:ILE:HB	1.49	0.94
1:B:76:ILE:CD1	1:B:202:MET:HE1	1.97	0.94
1:B:296:TYR:HB2	1:B:382:ILE:HA	1.44	0.94
1:C:405:LYS:HE3	1:C:406:GLU:HB2	1.47	0.94
1:I:54:ILE:CD1	1:I:102:ARG:HE	1.79	0.94
1:I:154:ILE:O	1:I:155:GLU:HB2	1.66	0.94
1:I:405:LYS:HE3	1:I:406:GLU:HB2	1.46	0.94
1:K:25:LYS:CG	1:K:54:ILE:HD12	1.97	0.94
1:A:68:MET:HE3	1:A:88:ARG:HB2	1.47	0.94
1:A:405:LYS:HE3	1:A:406:GLU:HB2	1.47	0.94
1:B:93:GLU:O	1:B:96:THR:HG22	1.68	0.94
1:B:401:PRO:CA	1:B:405:LYS:HB3	1.96	0.94
1:C:54:ILE:CD1	1:C:102:ARG:HE	1.79	0.94
1:D:465:TYR:CB	1:J:315:THR:HG1	1.78	0.94
1:G:19:LEU:O	1:G:19:LEU:HG	1.10	0.94
1:G:403:GLU:HA	1:G:405:LYS:HG3	1.49	0.94
1:H:340:SER:HB2	1:H:395:ASN:OD1	1.66	0.94
1:J:403:GLU:HA	1:J:405:LYS:HG3	1.49	0.94
1:K:154:ILE:O	1:K:155:GLU:HB2	1.65	0.94
1:L:89:CYS:CB	1:L:103:ASP:OD2	2.15	0.94
1:B:89:CYS:CB	1:B:103:ASP:OD2	2.15	0.94
1:C:108:ALA:O	1:C:111:ALA:HB3	1.67	0.94
1:D:18:ASP:CG	1:D:19:LEU:H	1.69	0.94
1:D:54:ILE:CD1	1:D:102:ARG:HE	1.79	0.94
1:D:404:ALA:O	1:D:407:ILE:HG22	1.67	0.94
1:D:405:LYS:HE3	1:D:406:GLU:HB2	1.47	0.94
1:F:96:THR:C	1:F:97:LEU:CG	2.32	0.94
1:H:1:SER:O	1:H:4:HIS:HB3	1.66	0.94
1:H:96:THR:C	1:H:97:LEU:CG	2.32	0.94
1:J:404:ALA:O	1:J:407:ILE:HG22	1.67	0.94
1:J:405:LYS:HE3	1:J:406:GLU:HB2	1.47	0.94
1:K:93:GLU:O	1:K:96:THR:HG22	1.67	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:182:VAL:CG1	1:L:28:GLU:CG	2.46	0.94
1:L:76:ILE:CD1	1:L:202:MET:HE1	1.97	0.94
1:L:88:ARG:HH21	1:L:109:LYS:HZ2	0.95	0.94
1:L:339:ARG:O	1:L:340:SER:CB	2.12	0.94
1:B:28:GLU:CG	1:C:182:VAL:CG1	2.46	0.94
1:C:339:ARG:O	1:C:340:SER:CB	2.12	0.94
1:F:1:SER:O	1:F:4:HIS:HB3	1.66	0.94
1:F:68:MET:HE3	1:F:105:ARG:HD2	0.96	0.94
1:G:340:SER:HB2	1:G:395:ASN:OD1	1.66	0.94
1:H:89:CYS:CB	1:H:103:ASP:OD2	2.15	0.94
1:I:404:ALA:O	1:I:407:ILE:HG22	1.67	0.94
1:J:54:ILE:CD1	1:J:102:ARG:HE	1.79	0.94
1:L:93:GLU:O	1:L:96:THR:HG22	1.68	0.94
1:L:296:TYR:HB2	1:L:382:ILE:HA	1.44	0.94
1:B:71:ALA:HB3	1:B:86:ILE:HG12	1.49	0.94
1:C:154:ILE:O	1:C:155:GLU:HB2	1.66	0.94
1:E:404:ALA:O	1:E:407:ILE:HG22	1.67	0.94
1:G:68:MET:HE3	1:G:88:ARG:HB2	1.47	0.94
1:K:54:ILE:CD1	1:K:102:ARG:HE	1.79	0.94
1:K:88:ARG:HH21	1:K:109:LYS:HZ2	0.95	0.94
1:K:108:ALA:O	1:K:111:ALA:HB3	1.67	0.94
1:L:71:ALA:HB3	1:L:86:ILE:HG12	1.49	0.94
1:L:403:GLU:HA	1:L:405:LYS:HG3	1.49	0.94
1:A:93:GLU:O	1:A:96:THR:HG22	1.68	0.94
1:A:340:SER:HB2	1:A:395:ASN:OD1	1.66	0.94
1:B:403:GLU:HA	1:B:405:LYS:HG3	1.49	0.94
1:C:19:LEU:CD2	1:C:240:TYR:CZ	2.50	0.94
1:C:28:GLU:CG	1:D:182:VAL:CG1	2.46	0.94
1:C:93:GLU:O	1:C:96:THR:HG22	1.67	0.94
1:C:407:ILE:HD13	1:C:408:PRO:CD	1.96	0.94
1:D:18:ASP:HA	1:D:21:PHE:CE2	2.03	0.94
1:D:28:GLU:CG	1:E:182:VAL:CG1	2.46	0.94
1:E:405:LYS:HE3	1:E:406:GLU:HB2	1.47	0.94
1:F:89:CYS:CB	1:F:103:ASP:OD2	2.15	0.94
1:G:93:GLU:O	1:G:96:THR:HG22	1.68	0.94
1:G:401:PRO:CA	1:G:405:LYS:HB3	1.96	0.94
1:H:182:VAL:CG1	1:I:28:GLU:CG	2.46	0.94
1:I:18:ASP:CG	1:I:19:LEU:H	1.69	0.94
1:I:25:LYS:CG	1:I:54:ILE:HD12	1.97	0.94
1:J:88:ARG:HH21	1:J:109:LYS:HZ2	0.98	0.94
1:J:182:VAL:CG1	1:K:28:GLU:CG	2.46	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:401:PRO:CA	1:A:405:LYS:HB3	1.96	0.94
1:B:19:LEU:CD2	1:B:240:TYR:CZ	2.49	0.94
1:B:88:ARG:HH21	1:B:109:LYS:HZ2	0.94	0.94
1:C:404:ALA:O	1:C:407:ILE:HG22	1.67	0.94
1:E:25:LYS:CG	1:E:54:ILE:HD12	1.97	0.94
1:E:28:GLU:CG	1:F:182:VAL:CG1	2.46	0.94
1:E:71:ALA:HB3	1:E:86:ILE:CG1	1.98	0.94
1:E:93:GLU:O	1:E:96:THR:HG22	1.68	0.94
1:G:19:LEU:CD2	1:G:240:TYR:CZ	2.49	0.94
1:G:71:ALA:HB3	1:G:86:ILE:CG1	1.98	0.94
1:G:405:LYS:HE3	1:G:406:GLU:HB2	1.47	0.94
1:H:71:ALA:HB3	1:H:86:ILE:CG1	1.98	0.94
1:I:71:ALA:HB3	1:I:86:ILE:CG1	1.98	0.94
1:J:18:ASP:CG	1:J:19:LEU:H	1.70	0.94
1:K:404:ALA:O	1:K:407:ILE:HG22	1.67	0.94
1:K:407:ILE:HD13	1:K:408:PRO:CD	1.96	0.94
1:L:19:LEU:CD2	1:L:240:TYR:CZ	2.50	0.94
1:A:19:LEU:CD2	1:A:240:TYR:CZ	2.50	0.94
1:A:28:GLU:CG	1:B:182:VAL:CG1	2.46	0.94
1:A:71:ALA:HB3	1:A:86:ILE:CG1	1.98	0.94
1:B:89:CYS:HB2	1:B:103:ASP:CG	1.87	0.94
1:B:154:ILE:O	1:B:155:GLU:HB2	1.65	0.94
1:C:339:ARG:C	1:C:341:ALA:H	1.57	0.94
1:E:18:ASP:CG	1:E:19:LEU:H	1.69	0.94
1:E:68:MET:N	1:E:69:PRO:HD3	1.82	0.94
1:E:449:GLU:OE2	1:K:465:TYR:OH	1.83	0.94
1:F:71:ALA:HB3	1:F:86:ILE:CG1	1.98	0.94
1:F:93:GLU:O	1:F:96:THR:HG22	1.68	0.94
1:F:360:PHE:H	1:F:361:PRO:HD2	1.30	0.94
1:F:404:ALA:O	1:F:407:ILE:HG22	1.67	0.94
1:H:68:MET:HE3	1:H:105:ARG:HD2	0.96	0.94
1:H:93:GLU:O	1:H:96:THR:HG22	1.67	0.94
1:I:182:VAL:CG1	1:J:28:GLU:CG	2.46	0.94
1:J:18:ASP:HA	1:J:21:PHE:CE2	2.03	0.94
1:J:71:ALA:HB3	1:J:86:ILE:CG1	1.98	0.94
1:K:15:LYS:HA	1:K:35:ALA:CB	1.96	0.94
1:K:19:LEU:CD2	1:K:240:TYR:CZ	2.50	0.94
1:K:93:GLU:HB3	1:K:94:PRO:HD2	0.96	0.94
1:K:339:ARG:O	1:K:340:SER:CB	2.12	0.94
1:K:360:PHE:H	1:K:361:PRO:HD2	1.30	0.94
1:A:18:ASP:HA	1:A:21:PHE:CE2	2.03	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:93:GLU:HB3	1:C:94:PRO:HD2	0.96	0.94
1:E:93:GLU:CB	1:E:94:PRO:HD2	1.93	0.94
1:F:76:ILE:CD1	1:F:202:MET:HE1	1.97	0.94
1:F:379:LEU:HA	1:F:382:ILE:HB	1.49	0.94
1:F:405:LYS:HG3	1:F:406:GLU:H	1.31	0.94
1:H:360:PHE:H	1:H:361:PRO:HD2	1.29	0.94
1:I:93:GLU:O	1:I:96:THR:HG22	1.68	0.94
1:K:89:CYS:CB	1:K:103:ASP:OD2	2.15	0.94
1:L:89:CYS:HB2	1:L:103:ASP:CG	1.87	0.94
1:L:379:LEU:HA	1:L:382:ILE:HB	1.49	0.94
1:A:25:LYS:CG	1:A:54:ILE:HD12	1.97	0.94
1:A:339:ARG:O	1:A:340:SER:HB3	1.68	0.94
1:C:89:CYS:CB	1:C:103:ASP:OD2	2.15	0.94
1:C:401:PRO:CA	1:C:405:LYS:HB3	1.96	0.94
1:C:465:TYR:OH	1:I:449:GLU:OE2	1.83	0.94
1:D:28:GLU:HG3	1:E:182:VAL:CG1	1.98	0.94
1:D:89:CYS:CB	1:D:103:ASP:OD2	2.15	0.94
1:G:25:LYS:CG	1:G:54:ILE:HD12	1.97	0.94
1:G:28:GLU:CG	1:L:182:VAL:CG1	2.46	0.94
1:G:339:ARG:O	1:G:340:SER:HB3	1.68	0.94
1:H:78:PRO:HB3	1:H:79:PHE:HE2	1.32	0.94
1:I:68:MET:N	1:I:69:PRO:HD3	1.82	0.94
1:J:71:ALA:HB3	1:J:86:ILE:HG12	1.49	0.94
1:J:108:ALA:O	1:J:111:ALA:HB3	1.67	0.94
1:L:18:ASP:HA	1:L:21:PHE:CE2	2.03	0.94
1:B:18:ASP:HA	1:B:21:PHE:CE2	2.03	0.93
1:D:19:LEU:O	1:D:19:LEU:HG	1.10	0.93
1:D:71:ALA:HB3	1:D:86:ILE:CG1	1.98	0.93
1:D:71:ALA:HB3	1:D:86:ILE:HG12	1.49	0.93
1:G:18:ASP:HA	1:G:21:PHE:CE2	2.03	0.93
1:G:182:VAL:CG1	1:H:28:GLU:CG	2.46	0.93
1:H:379:LEU:HA	1:H:382:ILE:HB	1.49	0.93
1:I:93:GLU:CB	1:I:94:PRO:HD2	1.93	0.93
1:I:403:GLU:HA	1:I:405:LYS:HG3	1.49	0.93
1:J:89:CYS:CB	1:J:103:ASP:OD2	2.15	0.93
1:L:154:ILE:O	1:L:155:GLU:HB2	1.66	0.93
1:C:15:LYS:HA	1:C:35:ALA:CB	1.96	0.93
1:C:28:GLU:HG3	1:D:182:VAL:CG1	1.97	0.93
1:D:108:ALA:O	1:D:111:ALA:HB3	1.67	0.93
1:E:90:ASP:O	1:E:91:ILE:C	2.07	0.93
1:F:78:PRO:HB3	1:F:79:PHE:HE2	1.32	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:404:ALA:O	1:H:407:ILE:HG22	1.67	0.93
1:I:90:ASP:O	1:I:91:ILE:C	2.07	0.93
1:I:182:VAL:CG1	1:J:28:GLU:HG3	1.98	0.93
1:K:68:MET:N	1:K:69:PRO:HD3	1.82	0.93
1:K:89:CYS:HB2	1:K:103:ASP:CG	1.87	0.93
1:A:182:VAL:CG1	1:F:28:GLU:CG	2.46	0.93
1:C:68:MET:N	1:C:69:PRO:HD3	1.82	0.93
1:D:379:LEU:HA	1:D:382:ILE:HB	1.49	0.93
1:F:19:LEU:O	1:F:19:LEU:HG	1.10	0.93
1:F:25:LYS:CG	1:F:54:ILE:HD12	1.97	0.93
1:H:405:LYS:HG3	1:H:406:GLU:H	1.31	0.93
1:J:15:LYS:O	1:J:16:PHE:HB2	1.68	0.93
1:J:379:LEU:HA	1:J:382:ILE:HB	1.49	0.93
1:K:347:VAL:HG22	1:K:348:VAL:N	1.83	0.93
1:A:315:THR:HG1	1:G:465:TYR:CB	1.76	0.93
1:B:379:LEU:HA	1:B:382:ILE:HB	1.50	0.93
1:C:89:CYS:HB2	1:C:103:ASP:CG	1.87	0.93
1:D:88:ARG:HH21	1:D:109:LYS:HZ2	0.96	0.93
1:H:347:VAL:HG22	1:H:348:VAL:N	1.83	0.93
1:I:18:ASP:HA	1:I:21:PHE:CE2	2.03	0.93
1:A:383:LYS:HE3	1:A:384:ASN:H	1.34	0.93
1:D:78:PRO:HB3	1:D:79:PHE:HE2	1.32	0.93
1:E:18:ASP:HA	1:E:21:PHE:CE2	2.03	0.93
1:E:403:GLU:HA	1:E:405:LYS:HG3	1.49	0.93
1:H:25:LYS:CG	1:H:54:ILE:HD12	1.97	0.93
1:H:71:ALA:O	1:H:86:ILE:CD1	2.17	0.93
1:J:96:THR:O	1:J:97:LEU:HG	1.69	0.93
1:L:71:ALA:HB3	1:L:86:ILE:CG1	1.98	0.93
1:B:71:ALA:HB3	1:B:86:ILE:CG1	1.98	0.93
1:D:15:LYS:O	1:D:16:PHE:HB2	1.68	0.93
1:F:71:ALA:O	1:F:86:ILE:CD1	2.17	0.93
1:F:96:THR:O	1:F:97:LEU:HG	1.69	0.93
1:F:347:VAL:HG22	1:F:348:VAL:N	1.84	0.93
1:G:28:GLU:HG3	1:L:182:VAL:CG1	1.98	0.93
1:G:383:LYS:HE3	1:G:384:ASN:H	1.34	0.93
1:J:19:LEU:O	1:J:19:LEU:HG	1.10	0.93
1:J:182:VAL:CG1	1:K:28:GLU:HG3	1.98	0.93
1:K:182:VAL:CG1	1:L:28:GLU:HG3	1.98	0.93
1:A:28:GLU:HG3	1:B:182:VAL:CG1	1.98	0.93
1:A:71:ALA:O	1:A:86:ILE:CD1	2.17	0.93
1:A:89:CYS:CB	1:A:103:ASP:OD2	2.15	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:405:LYS:HG3	1:D:406:GLU:H	1.31	0.93
1:E:405:LYS:HG3	1:E:406:GLU:H	1.31	0.93
1:G:71:ALA:O	1:G:86:ILE:CD1	2.17	0.93
1:H:96:THR:O	1:H:97:LEU:HG	1.69	0.93
1:H:182:VAL:CG1	1:I:28:GLU:HG3	1.98	0.93
1:I:71:ALA:O	1:I:86:ILE:CD1	2.17	0.93
1:B:25:LYS:CG	1:B:54:ILE:HD12	1.97	0.93
1:C:331:MET:HE3	1:C:396:LEU:HD12	1.51	0.93
1:D:65:MET:CB	1:D:67:LEU:HD23	1.99	0.93
1:D:96:THR:O	1:D:97:LEU:HG	1.69	0.93
1:E:15:LYS:HA	1:E:35:ALA:CB	1.96	0.93
1:E:28:GLU:HG3	1:F:182:VAL:CG1	1.98	0.93
1:H:90:ASP:O	1:H:91:ILE:C	2.07	0.93
1:I:15:LYS:HA	1:I:35:ALA:CB	1.96	0.93
1:J:65:MET:CB	1:J:67:LEU:HD23	1.99	0.93
1:J:78:PRO:HB3	1:J:79:PHE:HE2	1.32	0.93
1:L:25:LYS:CG	1:L:54:ILE:HD12	1.97	0.93
1:A:65:MET:HA	1:A:65:MET:HE3	1.49	0.93
1:A:182:VAL:CG1	1:F:28:GLU:HG3	1.98	0.93
1:C:18:ASP:HA	1:C:21:PHE:CE2	2.03	0.93
1:C:71:ALA:HB3	1:C:86:ILE:CG1	1.98	0.93
1:E:71:ALA:O	1:E:86:ILE:CD1	2.17	0.93
1:E:383:LYS:HE3	1:E:384:ASN:H	1.34	0.93
1:G:65:MET:HE3	1:G:65:MET:HA	1.49	0.93
1:G:89:CYS:CB	1:G:103:ASP:OD2	2.15	0.93
1:G:182:VAL:CG1	1:H:28:GLU:HG3	1.98	0.93
1:H:19:LEU:O	1:H:19:LEU:HG	1.10	0.93
1:I:383:LYS:HE3	1:I:384:ASN:H	1.34	0.93
1:G:404:ALA:O	1:G:407:ILE:HG22	1.67	0.93
1:J:71:ALA:O	1:J:86:ILE:CD1	2.17	0.93
1:J:405:LYS:HG3	1:J:406:GLU:H	1.31	0.93
1:K:88:ARG:O	1:K:89:CYS:O	1.87	0.93
1:B:28:GLU:HG3	1:C:182:VAL:CG1	1.98	0.92
1:C:88:ARG:O	1:C:89:CYS:O	1.87	0.92
1:C:403:GLU:HA	1:C:405:LYS:HG3	1.49	0.92
1:C:465:TYR:CB	1:I:315:THR:HG1	1.78	0.92
1:D:71:ALA:O	1:D:86:ILE:CD1	2.17	0.92
1:F:71:ALA:HB3	1:F:86:ILE:HG12	1.49	0.92
1:F:90:ASP:O	1:F:91:ILE:C	2.07	0.92
1:F:93:GLU:CB	1:F:94:PRO:HD2	1.93	0.92
1:F:403:GLU:HA	1:F:405:LYS:HG3	1.49	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:379:LEU:HA	1:I:382:ILE:HB	1.49	0.92
1:K:71:ALA:HB3	1:K:86:ILE:CG1	1.98	0.92
1:K:331:MET:HE3	1:K:396:LEU:HD12	1.51	0.92
1:K:383:LYS:HE3	1:K:384:ASN:H	1.34	0.92
1:A:347:VAL:HG22	1:A:348:VAL:N	1.83	0.92
1:C:347:VAL:HG22	1:C:348:VAL:N	1.83	0.92
1:C:383:LYS:HE3	1:C:384:ASN:H	1.34	0.92
1:E:339:ARG:O	1:E:340:SER:HB3	1.68	0.92
1:H:93:GLU:CB	1:H:94:PRO:HD2	1.93	0.92
1:H:339:ARG:N	1:I:58:LYS:HG3	1.84	0.92
1:K:18:ASP:HA	1:K:21:PHE:CE2	2.03	0.92
1:B:339:ARG:O	1:B:340:SER:HB3	1.68	0.92
1:B:347:VAL:HG22	1:B:348:VAL:N	1.83	0.92
1:G:347:VAL:HG22	1:G:348:VAL:N	1.83	0.92
1:I:331:MET:HE3	1:I:396:LEU:HD12	1.50	0.92
1:J:88:ARG:O	1:J:89:CYS:O	1.87	0.92
1:L:401:PRO:CA	1:L:405:LYS:HB3	1.96	0.92
1:A:404:ALA:O	1:A:407:ILE:HG22	1.67	0.92
1:B:71:ALA:O	1:B:86:ILE:CD1	2.17	0.92
1:B:88:ARG:O	1:B:89:CYS:O	1.87	0.92
1:D:58:LYS:HG3	1:E:339:ARG:N	1.84	0.92
1:D:88:ARG:O	1:D:89:CYS:O	1.87	0.92
1:E:379:LEU:HA	1:E:382:ILE:HB	1.49	0.92
1:F:18:ASP:HA	1:F:21:PHE:CE2	2.03	0.92
1:F:339:ARG:N	1:F:339:ARG:NH1	2.18	0.92
1:G:71:ALA:HB3	1:G:86:ILE:HG12	1.49	0.92
1:H:71:ALA:HB3	1:H:86:ILE:HG12	1.49	0.92
1:H:339:ARG:O	1:H:340:SER:HB3	1.67	0.92
1:I:339:ARG:O	1:I:340:SER:HB3	1.68	0.92
1:I:339:ARG:N	1:J:58:LYS:HG3	1.84	0.92
1:J:27:LYS:NZ	1:J:239:LYS:NZ	1.79	0.92
1:A:71:ALA:HB3	1:A:86:ILE:HG12	1.49	0.92
1:E:58:LYS:HG3	1:F:339:ARG:N	1.84	0.92
1:H:339:ARG:N	1:H:339:ARG:NH1	2.18	0.92
1:I:347:VAL:HG22	1:I:348:VAL:N	1.83	0.92
1:J:15:LYS:HA	1:J:35:ALA:CB	1.96	0.92
1:L:71:ALA:O	1:L:86:ILE:CD1	2.17	0.92
1:L:339:ARG:O	1:L:340:SER:HB3	1.68	0.92
1:A:154:ILE:O	1:A:155:GLU:HB2	1.66	0.92
1:B:68:MET:N	1:B:69:PRO:HD3	1.82	0.92
1:B:383:LYS:HE3	1:B:384:ASN:H	1.34	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:65:MET:CB	1:E:67:LEU:HD23	1.99	0.92
1:E:347:VAL:HG22	1:E:348:VAL:N	1.83	0.92
1:H:18:ASP:HA	1:H:21:PHE:CE2	2.03	0.92
1:H:403:GLU:HA	1:H:405:LYS:HG3	1.49	0.92
1:I:65:MET:CB	1:I:67:LEU:HD23	1.99	0.92
1:I:405:LYS:HG3	1:I:406:GLU:H	1.31	0.92
1:K:15:LYS:O	1:K:16:PHE:HB2	1.68	0.92
1:K:403:GLU:HA	1:K:405:LYS:HG3	1.49	0.92
1:L:88:ARG:O	1:L:89:CYS:O	1.87	0.92
1:L:347:VAL:HG22	1:L:348:VAL:N	1.83	0.92
1:A:339:ARG:NH1	1:A:339:ARG:N	2.18	0.92
1:C:379:LEU:HA	1:C:382:ILE:HB	1.50	0.92
1:D:15:LYS:HA	1:D:35:ALA:CB	1.96	0.92
1:E:76:ILE:HD11	1:E:202:MET:HE3	1.50	0.92
1:E:331:MET:HE2	1:E:396:LEU:HD12	1.50	0.92
1:E:339:ARG:N	1:E:339:ARG:NH1	2.18	0.92
1:F:401:PRO:CA	1:F:405:LYS:HB3	1.96	0.92
1:G:339:ARG:N	1:G:339:ARG:NH1	2.18	0.92
1:H:76:ILE:CD1	1:H:202:MET:HE1	1.99	0.92
1:I:71:ALA:HB3	1:I:86:ILE:HG12	1.49	0.92
1:J:93:GLU:O	1:J:96:THR:HG22	1.68	0.92
1:J:339:ARG:N	1:K:58:LYS:HG3	1.84	0.92
1:K:71:ALA:O	1:K:86:ILE:CD1	2.17	0.92
1:K:379:LEU:HA	1:K:382:ILE:HB	1.49	0.92
1:L:93:GLU:CB	1:L:94:PRO:HD2	1.93	0.92
1:C:15:LYS:O	1:C:16:PHE:HB2	1.68	0.92
1:C:71:ALA:O	1:C:86:ILE:CD1	2.17	0.92
1:D:93:GLU:O	1:D:96:THR:HG22	1.68	0.92
1:E:71:ALA:HB3	1:E:86:ILE:HG12	1.49	0.92
1:F:339:ARG:O	1:F:340:SER:HB3	1.68	0.92
1:A:465:TYR:CB	1:G:315:THR:HG1	1.76	0.92
1:I:76:ILE:HD11	1:I:202:MET:HE3	1.50	0.92
1:I:339:ARG:N	1:I:339:ARG:NH1	2.18	0.92
1:K:345:ILE:H	1:K:345:ILE:HD13	0.75	0.92
1:L:68:MET:N	1:L:69:PRO:HD3	1.82	0.92
1:A:68:MET:N	1:A:69:PRO:HD3	1.82	0.92
1:B:339:ARG:N	1:B:339:ARG:NH1	2.18	0.92
1:F:15:LYS:O	1:F:16:PHE:HB2	1.69	0.92
1:H:401:PRO:CA	1:H:405:LYS:HB3	1.96	0.92
1:L:383:LYS:HE3	1:L:384:ASN:H	1.34	0.92
1:B:93:GLU:CB	1:B:94:PRO:HD2	1.93	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:345:ILE:H	1:C:345:ILE:HD13	0.74	0.91
1:F:88:ARG:NH2	1:F:109:LYS:HZ2	1.56	0.91
1:G:154:ILE:O	1:G:155:GLU:HB2	1.66	0.91
1:K:65:MET:CB	1:K:67:LEU:HD23	1.99	0.91
1:C:58:LYS:HG3	1:D:339:ARG:N	1.84	0.91
1:E:15:LYS:O	1:E:16:PHE:HB2	1.68	0.91
1:H:15:LYS:O	1:H:16:PHE:HB2	1.68	0.91
1:J:339:ARG:N	1:J:339:ARG:NH1	2.18	0.91
1:K:76:ILE:CD1	1:K:202:MET:CE	2.48	0.91
1:K:339:ARG:N	1:K:339:ARG:NH1	2.18	0.91
1:L:339:ARG:NH1	1:L:339:ARG:N	2.18	0.91
1:A:339:ARG:N	1:F:58:LYS:HG3	1.84	0.91
1:C:19:LEU:O	1:C:19:LEU:HG	1.10	0.91
1:C:339:ARG:N	1:C:339:ARG:NH1	2.18	0.91
1:D:154:ILE:O	1:D:155:GLU:HB2	1.65	0.91
1:E:345:ILE:H	1:E:345:ILE:HD13	0.75	0.91
1:F:65:MET:HA	1:F:65:MET:HE3	1.51	0.91
1:F:68:MET:N	1:F:69:PRO:HD3	1.82	0.91
1:H:65:MET:HA	1:H:65:MET:HE3	1.51	0.91
1:H:331:MET:HE2	1:H:396:LEU:HD12	1.50	0.91
1:J:90:ASP:O	1:J:91:ILE:C	2.07	0.91
1:A:65:MET:CB	1:A:67:LEU:HD23	1.99	0.91
1:B:7:THR:O	1:B:10:ASN:N	2.04	0.91
1:B:40:ALA:O	1:B:41:GLU:HB2	1.71	0.91
1:C:65:MET:CB	1:C:67:LEU:HD23	1.99	0.91
1:D:339:ARG:N	1:D:339:ARG:NH1	2.18	0.91
1:G:65:MET:CB	1:G:67:LEU:HD23	1.99	0.91
1:G:339:ARG:N	1:H:58:LYS:HG3	1.84	0.91
1:I:15:LYS:O	1:I:16:PHE:HB2	1.69	0.91
1:L:7:THR:O	1:L:10:ASN:N	2.04	0.91
1:A:88:ARG:O	1:A:89:CYS:O	1.87	0.91
1:C:40:ALA:O	1:C:41:GLU:HB2	1.71	0.91
1:C:78:PRO:HB3	1:C:79:PHE:HE2	1.32	0.91
1:D:339:ARG:O	1:D:340:SER:HB3	1.68	0.91
1:F:76:ILE:CD1	1:F:76:ILE:N	2.08	0.91
1:G:68:MET:N	1:G:69:PRO:HD3	1.82	0.91
1:G:88:ARG:O	1:G:89:CYS:O	1.87	0.91
1:K:40:ALA:O	1:K:41:GLU:HB2	1.71	0.91
1:L:40:ALA:O	1:L:41:GLU:HB2	1.71	0.91
1:A:58:LYS:HG3	1:B:339:ARG:N	1.85	0.91
1:B:15:LYS:O	1:B:16:PHE:HB2	1.68	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:465:TYR:HD2	1:H:315:THR:HG21	1.01	0.91
1:D:68:MET:CE	1:D:88:ARG:HB2	2.01	0.91
1:E:88:ARG:O	1:E:89:CYS:O	1.87	0.91
1:F:88:ARG:O	1:F:89:CYS:O	1.87	0.91
1:F:315:THR:HG21	1:L:465:TYR:HD2	1.01	0.91
1:H:76:ILE:N	1:H:76:ILE:CD1	2.08	0.91
1:H:88:ARG:O	1:H:89:CYS:O	1.87	0.91
1:I:88:ARG:O	1:I:89:CYS:O	1.87	0.91
1:I:96:THR:O	1:I:97:LEU:HG	1.69	0.91
1:I:345:ILE:H	1:I:345:ILE:HD13	0.74	0.91
1:A:96:THR:O	1:A:97:LEU:HG	1.69	0.91
1:D:93:GLU:HB3	1:D:94:PRO:HD3	1.52	0.91
1:D:347:VAL:HG22	1:D:348:VAL:N	1.83	0.91
1:E:68:MET:CE	1:E:88:ARG:HB2	2.01	0.91
1:F:15:LYS:HA	1:F:35:ALA:CB	1.96	0.91
1:G:58:LYS:HG3	1:L:339:ARG:N	1.85	0.91
1:G:90:ASP:O	1:G:91:ILE:C	2.07	0.91
1:H:88:ARG:NH2	1:H:109:LYS:HZ2	1.56	0.91
1:J:154:ILE:O	1:J:155:GLU:HB2	1.65	0.91
1:K:68:MET:CE	1:K:88:ARG:HB2	2.01	0.91
1:A:345:ILE:H	1:A:345:ILE:HD13	0.74	0.91
1:C:7:THR:O	1:C:10:ASN:N	2.04	0.91
1:C:68:MET:CE	1:C:88:ARG:HB2	2.01	0.91
1:D:90:ASP:O	1:D:91:ILE:C	2.07	0.91
1:D:376:MET:HE3	1:D:433:VAL:CG1	1.99	0.91
1:E:96:THR:O	1:E:97:LEU:HG	1.69	0.91
1:G:78:PRO:HB3	1:G:79:PHE:HE2	1.32	0.91
1:G:96:THR:O	1:G:97:LEU:HG	1.69	0.91
1:G:345:ILE:H	1:G:345:ILE:HD13	0.74	0.91
1:H:68:MET:N	1:H:69:PRO:HD3	1.82	0.91
1:I:68:MET:CE	1:I:88:ARG:HB2	2.01	0.91
1:K:67:LEU:HD12	1:K:68:MET:H	1.36	0.91
1:K:96:THR:O	1:K:97:LEU:HG	1.69	0.91
1:L:15:LYS:O	1:L:16:PHE:HB2	1.69	0.91
1:A:15:LYS:O	1:A:16:PHE:HB2	1.68	0.91
1:B:96:THR:O	1:B:97:LEU:HG	1.69	0.91
1:C:96:THR:O	1:C:97:LEU:HG	1.69	0.91
1:D:7:THR:O	1:D:10:ASN:N	2.03	0.91
1:D:405:LYS:HG3	1:D:406:GLU:N	1.86	0.91
1:F:25:LYS:HG2	1:F:54:ILE:CD1	2.01	0.91
1:J:68:MET:CE	1:J:88:ARG:HB2	2.01	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:339:ARG:O	1:J:340:SER:HB3	1.68	0.91
1:J:405:LYS:HG3	1:J:406:GLU:N	1.86	0.91
1:K:68:MET:HE3	1:K:88:ARG:HB2	1.53	0.91
1:A:25:LYS:HG2	1:A:54:ILE:CD1	2.01	0.91
1:A:90:ASP:O	1:A:91:ILE:C	2.07	0.91
1:A:93:GLU:HB3	1:A:94:PRO:HD3	1.52	0.91
1:D:465:TYR:HD2	1:J:315:THR:HG21	1.00	0.91
1:E:93:GLU:HB3	1:E:94:PRO:HD3	1.52	0.91
1:F:331:MET:HE2	1:F:396:LEU:HD12	1.51	0.91
1:G:15:LYS:O	1:G:16:PHE:HB2	1.68	0.91
1:G:25:LYS:HG2	1:G:54:ILE:CD1	2.01	0.91
1:H:25:LYS:HG2	1:H:54:ILE:CD1	2.01	0.91
1:I:360:PHE:H	1:I:361:PRO:CD	1.82	0.91
1:J:7:THR:O	1:J:10:ASN:N	2.04	0.91
1:J:67:LEU:HD12	1:J:68:MET:H	1.36	0.91
1:K:7:THR:O	1:K:10:ASN:N	2.04	0.91
1:L:19:LEU:C	1:L:19:LEU:HD12	1.92	0.91
1:B:19:LEU:C	1:B:19:LEU:HD12	1.92	0.90
1:B:89:CYS:HG	1:B:103:ASP:HA	1.25	0.90
1:C:68:MET:HE3	1:C:88:ARG:HB2	1.53	0.90
1:E:360:PHE:H	1:E:361:PRO:CD	1.82	0.90
1:G:93:GLU:HB3	1:G:94:PRO:HD3	1.52	0.90
1:J:93:GLU:HB3	1:J:94:PRO:HD3	1.52	0.90
1:J:347:VAL:HG22	1:J:348:VAL:N	1.83	0.90
1:J:360:PHE:H	1:J:361:PRO:CD	1.82	0.90
1:K:78:PRO:HB3	1:K:79:PHE:HE2	1.32	0.90
1:L:96:THR:O	1:L:97:LEU:HG	1.69	0.90
1:A:405:LYS:HG3	1:A:406:GLU:N	1.86	0.90
1:C:67:LEU:HD12	1:C:68:MET:H	1.36	0.90
1:D:67:LEU:HD12	1:D:68:MET:H	1.36	0.90
1:D:360:PHE:H	1:D:361:PRO:CD	1.82	0.90
1:F:19:LEU:HD23	1:F:75:VAL:HG21	1.53	0.90
1:G:40:ALA:O	1:G:41:GLU:HB2	1.71	0.90
1:H:19:LEU:C	1:H:19:LEU:HD12	1.92	0.90
1:I:93:GLU:HB3	1:I:94:PRO:HD3	1.52	0.90
1:J:40:ALA:O	1:J:41:GLU:HB2	1.71	0.90
1:J:376:MET:HE3	1:J:433:VAL:CG1	2.00	0.90
1:L:65:MET:CB	1:L:67:LEU:HD23	1.99	0.90
1:A:40:ALA:O	1:A:41:GLU:HB2	1.71	0.90
1:B:65:MET:CB	1:B:67:LEU:HD23	1.99	0.90
1:B:345:ILE:H	1:B:345:ILE:HD13	0.75	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2:ALA:O	1:D:6:LEU:HB2	1.72	0.90
1:D:315:THR:HG21	1:J:465:TYR:HD2	1.01	0.90
1:D:383:LYS:HE3	1:D:384:ASN:H	1.34	0.90
1:G:2:ALA:O	1:G:6:LEU:HB2	1.71	0.90
1:G:405:LYS:HG3	1:G:406:GLU:N	1.86	0.90
1:J:2:ALA:O	1:J:6:LEU:HB2	1.72	0.90
1:K:339:ARG:O	1:K:340:SER:HB3	1.68	0.90
1:A:2:ALA:O	1:A:6:LEU:HB2	1.71	0.90
1:A:78:PRO:HB3	1:A:79:PHE:HE2	1.32	0.90
1:F:19:LEU:C	1:F:19:LEU:HD12	1.92	0.90
1:F:65:MET:CB	1:F:67:LEU:HD23	1.99	0.90
1:H:65:MET:CB	1:H:67:LEU:HD23	1.99	0.90
1:L:376:MET:HE3	1:L:433:VAL:CG2	2.01	0.90
1:B:405:LYS:HG3	1:B:406:GLU:N	1.86	0.90
1:C:25:LYS:HG2	1:C:54:ILE:CD1	2.01	0.90
1:C:339:ARG:O	1:C:340:SER:HB3	1.67	0.90
1:D:40:ALA:O	1:D:41:GLU:HB2	1.71	0.90
1:E:19:LEU:C	1:E:19:LEU:HD12	1.92	0.90
1:F:2:ALA:O	1:F:6:LEU:HB2	1.71	0.90
1:H:19:LEU:HD23	1:H:75:VAL:HG21	1.53	0.90
1:K:25:LYS:HG2	1:K:54:ILE:CD1	2.01	0.90
1:K:339:ARG:N	1:L:58:LYS:HG3	1.84	0.90
1:L:405:LYS:HG3	1:L:406:GLU:N	1.86	0.90
1:A:19:LEU:HD23	1:A:75:VAL:HG21	1.53	0.90
1:B:25:LYS:HD3	1:B:102:ARG:HB3	1.54	0.90
1:B:58:LYS:HG3	1:C:339:ARG:N	1.85	0.90
1:E:76:ILE:CD1	1:E:76:ILE:N	2.08	0.90
1:F:68:MET:CE	1:F:88:ARG:HB2	2.01	0.90
1:F:383:LYS:HE3	1:F:384:ASN:H	1.34	0.90
1:G:19:LEU:HD23	1:G:75:VAL:HG21	1.53	0.90
1:H:40:ALA:O	1:H:41:GLU:HB2	1.71	0.90
1:H:68:MET:CE	1:H:88:ARG:HB2	2.01	0.90
1:J:20:ARG:HH12	1:J:86:ILE:HG23	1.36	0.90
1:K:304:HIS:O	1:K:308:ILE:HG12	1.72	0.90
1:A:19:LEU:C	1:A:19:LEU:HD12	1.92	0.90
1:C:405:LYS:HG3	1:C:406:GLU:N	1.86	0.90
1:I:19:LEU:C	1:I:19:LEU:HD12	1.92	0.90
1:I:40:ALA:O	1:I:41:GLU:HB2	1.71	0.90
1:B:68:MET:CE	1:B:88:ARG:HB2	2.01	0.90
1:C:304:HIS:O	1:C:308:ILE:HG12	1.72	0.90
1:D:76:ILE:HD11	1:D:202:MET:HE3	1.51	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:315:THR:HG1	1:L:465:TYR:CB	1.76	0.90
1:H:2:ALA:O	1:H:6:LEU:HB2	1.71	0.90
1:J:383:LYS:HE3	1:J:384:ASN:H	1.34	0.90
1:K:405:LYS:HG3	1:K:406:GLU:N	1.86	0.90
1:L:68:MET:CE	1:L:88:ARG:HB2	2.01	0.90
1:L:345:ILE:H	1:L:345:ILE:HD13	0.74	0.90
1:B:304:HIS:O	1:B:308:ILE:HG12	1.72	0.90
1:D:20:ARG:HH12	1:D:86:ILE:HG23	1.36	0.90
1:F:7:THR:O	1:F:10:ASN:N	2.04	0.90
1:F:40:ALA:O	1:F:41:GLU:HB2	1.71	0.90
1:G:19:LEU:HD12	1:G:19:LEU:C	1.92	0.90
1:H:7:THR:O	1:H:10:ASN:N	2.03	0.90
1:H:383:LYS:HE3	1:H:384:ASN:H	1.34	0.90
1:I:7:THR:O	1:I:10:ASN:N	2.03	0.90
1:J:76:ILE:HD11	1:J:202:MET:HE3	1.51	0.90
1:A:120:ILE:HG21	1:A:382:ILE:HG21	0.91	0.90
1:A:460:VAL:O	1:A:463:GLU:HB2	1.72	0.90
1:C:20:ARG:HH12	1:C:86:ILE:HG23	1.36	0.90
1:D:19:LEU:C	1:D:19:LEU:HD12	1.92	0.90
1:E:7:THR:O	1:E:10:ASN:N	2.04	0.90
1:F:405:LYS:HG3	1:F:406:GLU:N	1.86	0.90
1:H:304:HIS:O	1:H:308:ILE:HG12	1.72	0.90
1:I:2:ALA:O	1:I:6:LEU:HB2	1.72	0.90
1:I:76:ILE:CD1	1:I:76:ILE:N	2.08	0.90
1:K:20:ARG:HH12	1:K:86:ILE:HG23	1.36	0.90
1:C:2:ALA:O	1:C:6:LEU:HB2	1.71	0.89
1:C:90:ASP:O	1:C:91:ILE:C	2.07	0.89
1:E:40:ALA:O	1:E:41:GLU:HB2	1.71	0.89
1:F:304:HIS:O	1:F:308:ILE:HG12	1.72	0.89
1:G:120:ILE:HG21	1:G:382:ILE:HG21	0.91	0.89
1:G:460:VAL:O	1:G:463:GLU:HB2	1.72	0.89
1:K:90:ASP:O	1:K:91:ILE:C	2.07	0.89
1:L:76:ILE:CD1	1:L:202:MET:CE	2.48	0.89
1:L:304:HIS:O	1:L:308:ILE:HG12	1.72	0.89
1:L:331:MET:HE3	1:L:396:LEU:HD12	1.53	0.89
1:B:67:LEU:HD12	1:B:68:MET:H	1.36	0.89
1:B:76:ILE:CD1	1:B:202:MET:CE	2.48	0.89
1:C:25:LYS:HD3	1:C:102:ARG:HB3	1.54	0.89
1:I:67:LEU:HD12	1:I:68:MET:H	1.36	0.89
1:J:19:LEU:C	1:J:19:LEU:HD12	1.92	0.89
1:J:304:HIS:O	1:J:308:ILE:HG12	1.72	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:25:LYS:HD3	1:K:102:ARG:HB3	1.54	0.89
1:L:25:LYS:HD3	1:L:102:ARG:HB3	1.54	0.89
1:B:120:ILE:HG21	1:B:382:ILE:HG21	0.91	0.89
1:C:76:ILE:HD11	1:C:202:MET:HE3	1.53	0.89
1:D:345:ILE:H	1:D:345:ILE:HD13	0.74	0.89
1:E:2:ALA:O	1:E:6:LEU:HB2	1.72	0.89
1:F:93:GLU:HB3	1:F:94:PRO:HD3	1.52	0.89
1:H:93:GLU:HB3	1:H:94:PRO:HD3	1.52	0.89
1:H:360:PHE:H	1:H:361:PRO:CD	1.82	0.89
1:H:405:LYS:HG3	1:H:406:GLU:N	1.86	0.89
1:J:25:LYS:HG2	1:J:54:ILE:CD1	2.01	0.89
1:L:93:GLU:HB3	1:L:94:PRO:HD3	1.52	0.89
1:L:228:MET:HE2	1:L:371:PHE:HB3	1.55	0.89
1:A:7:THR:O	1:A:10:ASN:N	2.04	0.89
1:B:93:GLU:HB3	1:B:94:PRO:HD3	1.52	0.89
1:D:25:LYS:HG2	1:D:54:ILE:CD1	2.01	0.89
1:K:2:ALA:O	1:K:6:LEU:HB2	1.71	0.89
1:L:67:LEU:HD12	1:L:68:MET:H	1.36	0.89
1:B:155:GLU:OE1	1:B:187:SER:CB	2.21	0.89
1:D:75:VAL:HG11	1:D:78:PRO:HD2	1.55	0.89
1:D:304:HIS:O	1:D:308:ILE:HG12	1.72	0.89
1:F:360:PHE:H	1:F:361:PRO:CD	1.82	0.89
1:J:75:VAL:HG11	1:J:78:PRO:HD2	1.55	0.89
1:L:120:ILE:HG21	1:L:382:ILE:HG21	0.91	0.89
1:C:120:ILE:HG21	1:C:382:ILE:HG21	0.91	0.89
1:D:376:MET:HE3	1:D:433:VAL:CG2	2.02	0.89
1:E:460:VAL:O	1:E:463:GLU:HB2	1.72	0.89
1:G:68:MET:CE	1:G:88:ARG:HB2	2.01	0.89
1:I:19:LEU:HD23	1:I:75:VAL:HG21	1.53	0.89
1:I:460:VAL:O	1:I:463:GLU:HB2	1.72	0.89
1:K:93:GLU:HB3	1:K:94:PRO:HD3	1.52	0.89
1:A:228:MET:HE2	1:A:371:PHE:HB3	1.55	0.89
1:C:19:LEU:C	1:C:19:LEU:HD12	1.92	0.89
1:C:214:ALA:O	1:C:216:ALA:N	2.06	0.89
1:D:460:VAL:O	1:D:463:GLU:HB2	1.72	0.89
1:E:67:LEU:HD12	1:E:68:MET:H	1.36	0.89
1:G:7:THR:O	1:G:10:ASN:N	2.04	0.89
1:H:120:ILE:HG21	1:H:382:ILE:HG21	0.91	0.89
1:J:345:ILE:H	1:J:345:ILE:HD13	0.74	0.89
1:J:460:VAL:O	1:J:463:GLU:HB2	1.72	0.89
1:K:75:VAL:HG11	1:K:78:PRO:HD2	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:155:GLU:OE1	1:L:187:SER:CB	2.21	0.89
1:C:75:VAL:HG11	1:C:78:PRO:HD2	1.55	0.89
1:C:360:PHE:H	1:C:361:PRO:CD	1.82	0.89
1:D:120:ILE:HG21	1:D:382:ILE:HG21	0.91	0.89
1:E:19:LEU:HD23	1:E:75:VAL:HG21	1.53	0.89
1:F:120:ILE:HG21	1:F:382:ILE:HG21	0.91	0.89
1:F:214:ALA:O	1:F:216:ALA:N	2.06	0.89
1:H:214:ALA:O	1:H:216:ALA:N	2.06	0.89
1:I:25:LYS:HG2	1:I:54:ILE:CD1	2.01	0.89
1:K:98:GLN:HG2	1:K:98:GLN:O	1.73	0.89
1:K:120:ILE:HG21	1:K:382:ILE:HG21	0.91	0.89
1:K:214:ALA:O	1:K:216:ALA:N	2.06	0.89
1:L:376:MET:HE3	1:L:433:VAL:CG1	2.02	0.89
1:A:18:ASP:HB2	1:A:31:VAL:O	1.73	0.89
1:A:68:MET:CE	1:A:88:ARG:HB2	2.01	0.89
1:E:25:LYS:HG2	1:E:54:ILE:CD1	2.01	0.89
1:G:67:LEU:HD12	1:G:68:MET:H	1.36	0.89
1:J:376:MET:HE3	1:J:433:VAL:CG2	2.02	0.89
1:K:19:LEU:HD23	1:K:75:VAL:HG21	1.53	0.89
1:K:19:LEU:HD12	1:K:19:LEU:C	1.92	0.89
1:K:360:PHE:H	1:K:361:PRO:CD	1.82	0.89
1:A:155:GLU:OE1	1:A:187:SER:CB	2.21	0.89
1:C:19:LEU:HD23	1:C:75:VAL:HG21	1.53	0.89
1:C:109:LYS:O	1:C:110:ARG:C	2.11	0.89
1:C:155:GLU:OE1	1:C:187:SER:CB	2.21	0.89
1:C:228:MET:HE2	1:C:371:PHE:HB3	1.55	0.89
1:D:98:GLN:HG2	1:D:98:GLN:O	1.73	0.89
1:F:228:MET:HE2	1:F:371:PHE:HB3	1.55	0.89
1:F:345:ILE:H	1:F:345:ILE:HD13	0.74	0.89
1:G:18:ASP:HB2	1:G:31:VAL:O	1.73	0.89
1:H:67:LEU:HD12	1:H:68:MET:H	1.36	0.89
1:J:120:ILE:HG21	1:J:382:ILE:HG21	0.91	0.89
1:K:18:ASP:HB2	1:K:31:VAL:O	1.73	0.89
1:K:76:ILE:CD1	1:K:202:MET:HE1	2.03	0.89
1:K:109:LYS:O	1:K:110:ARG:C	2.11	0.89
1:K:228:MET:HE2	1:K:371:PHE:HB3	1.55	0.89
1:L:460:VAL:O	1:L:463:GLU:HB2	1.72	0.89
1:B:109:LYS:O	1:B:110:ARG:C	2.11	0.88
1:C:98:GLN:HG2	1:C:98:GLN:O	1.73	0.88
1:D:25:LYS:HD3	1:D:102:ARG:HB3	1.54	0.88
1:E:304:HIS:O	1:E:308:ILE:HG12	1.72	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:155:GLU:OE1	1:G:187:SER:CB	2.21	0.88
1:J:25:LYS:HD3	1:J:102:ARG:HB3	1.54	0.88
1:L:376:MET:HE1	1:L:433:VAL:CG1	2.03	0.88
1:B:458:HIS:HD2	1:B:460:VAL:H	1.19	0.88
1:C:18:ASP:HB2	1:C:31:VAL:O	1.73	0.88
1:C:65:MET:O	1:C:67:LEU:N	2.07	0.88
1:D:15:LYS:N	1:D:15:LYS:HD2	1.89	0.88
1:E:65:MET:O	1:E:67:LEU:N	2.06	0.88
1:I:15:LYS:N	1:I:15:LYS:HD2	1.89	0.88
1:I:65:MET:O	1:I:67:LEU:N	2.06	0.88
1:J:98:GLN:HG2	1:J:98:GLN:O	1.73	0.88
1:J:109:LYS:O	1:J:110:ARG:C	2.11	0.88
1:K:155:GLU:OE1	1:K:187:SER:CB	2.21	0.88
1:L:109:LYS:O	1:L:110:ARG:C	2.11	0.88
1:A:109:LYS:O	1:A:110:ARG:C	2.11	0.88
1:A:214:ALA:O	1:A:216:ALA:N	2.06	0.88
1:B:20:ARG:HG2	1:B:28:GLU:OE2	1.73	0.88
1:B:460:VAL:O	1:B:463:GLU:HB2	1.72	0.88
1:C:93:GLU:HB3	1:C:94:PRO:HD3	1.52	0.88
1:E:15:LYS:N	1:E:15:LYS:HD2	1.89	0.88
1:E:189:GLN:O	1:E:192:ARG:N	2.06	0.88
1:F:153:ASP:OD1	1:F:251:LYS:NZ	2.07	0.88
1:F:460:VAL:O	1:F:463:GLU:HB2	1.72	0.88
1:H:153:ASP:OD1	1:H:251:LYS:NZ	2.07	0.88
1:I:189:GLN:O	1:I:192:ARG:N	2.06	0.88
1:J:15:LYS:HD2	1:J:15:LYS:N	1.89	0.88
1:K:54:ILE:HD11	1:K:102:ARG:HD3	1.56	0.88
1:L:18:ASP:HB2	1:L:31:VAL:O	1.73	0.88
1:A:65:MET:O	1:A:67:LEU:N	2.07	0.88
1:C:54:ILE:HD11	1:C:102:ARG:HD3	1.56	0.88
1:D:109:LYS:O	1:D:110:ARG:C	2.11	0.88
1:D:129:GLU:HG3	1:D:269:HIS:HB2	1.55	0.88
1:E:20:ARG:HG2	1:E:28:GLU:OE2	1.73	0.88
1:E:214:ALA:O	1:E:216:ALA:N	2.06	0.88
1:G:25:LYS:HD3	1:G:102:ARG:HB3	1.54	0.88
1:G:65:MET:O	1:G:67:LEU:CB	2.22	0.88
1:G:65:MET:O	1:G:67:LEU:N	2.07	0.88
1:G:109:LYS:O	1:G:110:ARG:C	2.11	0.88
1:G:214:ALA:O	1:G:216:ALA:N	2.06	0.88
1:G:228:MET:HE2	1:G:371:PHE:HB3	1.55	0.88
1:I:214:ALA:O	1:I:216:ALA:N	2.06	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:304:HIS:O	1:I:308:ILE:HG12	1.72	0.88
1:J:54:ILE:HB	1:J:101:ASP:HB2	1.56	0.88
1:J:289:GLY:O	1:J:290:LEU:HB2	1.73	0.88
1:K:65:MET:O	1:K:67:LEU:N	2.07	0.88
1:L:20:ARG:HG2	1:L:28:GLU:OE2	1.73	0.88
1:A:25:LYS:HD3	1:A:102:ARG:HB3	1.54	0.88
1:A:65:MET:O	1:A:67:LEU:CB	2.22	0.88
1:A:304:HIS:O	1:A:308:ILE:HG12	1.72	0.88
1:B:18:ASP:HB2	1:B:31:VAL:O	1.73	0.88
1:B:360:PHE:H	1:B:361:PRO:CD	1.82	0.88
1:C:26:GLY:O	1:C:27:LYS:HG2	1.74	0.88
1:D:214:ALA:O	1:D:216:ALA:N	2.06	0.88
1:F:67:LEU:HD12	1:F:68:MET:H	1.36	0.88
1:H:54:ILE:HB	1:H:101:ASP:HB2	1.56	0.88
1:H:345:ILE:H	1:H:345:ILE:HD13	0.74	0.88
1:L:214:ALA:O	1:L:216:ALA:N	2.06	0.88
1:A:67:LEU:HD12	1:A:68:MET:H	1.36	0.88
1:B:75:VAL:HG11	1:B:78:PRO:HD2	1.55	0.88
1:B:331:MET:HE2	1:B:396:LEU:HD12	1.53	0.88
1:E:153:ASP:OD1	1:E:251:LYS:NZ	2.07	0.88
1:F:15:LYS:HD2	1:F:15:LYS:N	1.89	0.88
1:H:15:LYS:N	1:H:15:LYS:HD2	1.89	0.88
1:H:460:VAL:O	1:H:463:GLU:HB2	1.72	0.88
1:I:54:ILE:HD11	1:I:102:ARG:HD3	1.55	0.88
1:I:153:ASP:OD1	1:I:251:LYS:NZ	2.07	0.88
1:K:26:GLY:O	1:K:27:LYS:HG2	1.74	0.88
1:L:19:LEU:HD23	1:L:75:VAL:HG21	1.53	0.88
1:L:25:LYS:HG2	1:L:54:ILE:CD1	2.01	0.88
1:L:189:GLN:O	1:L:192:ARG:N	2.06	0.88
1:L:360:PHE:H	1:L:361:PRO:CD	1.82	0.88
1:A:54:ILE:HB	1:A:101:ASP:HB2	1.56	0.88
1:B:2:ALA:O	1:B:6:LEU:HB2	1.72	0.88
1:B:19:LEU:HD23	1:B:75:VAL:HG21	1.53	0.88
1:B:25:LYS:HG2	1:B:54:ILE:CD1	2.01	0.88
1:D:54:ILE:HB	1:D:101:ASP:HB2	1.56	0.88
1:F:18:ASP:HB2	1:F:31:VAL:O	1.73	0.88
1:G:304:HIS:O	1:G:308:ILE:HG12	1.72	0.88
1:J:129:GLU:HG3	1:J:269:HIS:HB2	1.56	0.88
1:J:214:ALA:O	1:J:216:ALA:N	2.06	0.88
1:L:2:ALA:O	1:L:6:LEU:HB2	1.72	0.88
1:L:458:HIS:HD2	1:L:460:VAL:H	1.19	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:153:ASP:OD1	1:B:251:LYS:NZ	2.07	0.88
1:B:189:GLN:O	1:B:192:ARG:N	2.06	0.88
1:B:214:ALA:O	1:B:216:ALA:N	2.06	0.88
1:F:54:ILE:HB	1:F:101:ASP:HB2	1.56	0.88
1:G:54:ILE:HB	1:G:101:ASP:HB2	1.56	0.88
1:I:75:VAL:HG11	1:I:78:PRO:HD2	1.55	0.88
1:J:19:LEU:HD23	1:J:75:VAL:HG21	1.53	0.88
1:C:15:LYS:HD2	1:C:15:LYS:N	1.89	0.88
1:D:26:GLY:O	1:D:27:LYS:HG2	1.74	0.88
1:D:155:GLU:OE1	1:D:187:SER:CB	2.21	0.88
1:D:289:GLY:O	1:D:290:LEU:HB2	1.73	0.88
1:E:54:ILE:HB	1:E:101:ASP:HB2	1.56	0.88
1:E:65:MET:O	1:E:67:LEU:CB	2.22	0.88
1:F:20:ARG:HG2	1:F:28:GLU:OE2	1.73	0.88
1:G:153:ASP:OD1	1:G:251:LYS:NZ	2.07	0.88
1:H:20:ARG:HG2	1:H:28:GLU:OE2	1.73	0.88
1:H:88:ARG:NH2	1:H:109:LYS:HZ1	1.72	0.88
1:I:88:ARG:NH2	1:I:109:LYS:HZ2	1.58	0.88
1:K:289:GLY:O	1:K:290:LEU:HB2	1.73	0.88
1:L:350:SER:HB2	1:L:352:LYS:HB2	1.56	0.88
1:A:153:ASP:OD1	1:A:251:LYS:NZ	2.07	0.88
1:A:350:SER:HB2	1:A:352:LYS:HB2	1.56	0.88
1:A:360:PHE:H	1:A:361:PRO:CD	1.82	0.88
1:D:19:LEU:HD23	1:D:75:VAL:HG21	1.53	0.88
1:E:54:ILE:HD11	1:E:102:ARG:HD3	1.56	0.88
1:E:75:VAL:HG11	1:E:78:PRO:HD2	1.55	0.88
1:F:155:GLU:OE1	1:F:187:SER:CB	2.21	0.88
1:G:189:GLN:O	1:G:192:ARG:N	2.06	0.88
1:G:360:PHE:H	1:G:361:PRO:CD	1.82	0.88
1:I:20:ARG:HG2	1:I:28:GLU:OE2	1.73	0.88
1:K:20:ARG:CZ	1:K:86:ILE:HG23	2.04	0.88
1:K:199:MET:HG3	1:K:241:VAL:HG11	1.56	0.88
1:A:289:GLY:O	1:A:290:LEU:HB2	1.73	0.87
1:C:199:MET:HG3	1:C:241:VAL:HG11	1.56	0.87
1:D:20:ARG:HG2	1:D:28:GLU:OE2	1.73	0.87
1:F:65:MET:O	1:F:67:LEU:N	2.06	0.87
1:F:88:ARG:NH2	1:F:109:LYS:HZ1	1.72	0.87
1:G:350:SER:HB2	1:G:352:LYS:HB2	1.57	0.87
1:H:18:ASP:HB2	1:H:31:VAL:O	1.73	0.87
1:H:155:GLU:OE1	1:H:187:SER:CB	2.21	0.87
1:I:20:ARG:CZ	1:I:86:ILE:HG23	2.04	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:54:ILE:HB	1:I:101:ASP:HB2	1.56	0.87
1:I:228:MET:HE2	1:I:371:PHE:HB3	1.55	0.87
1:J:20:ARG:CZ	1:J:86:ILE:HG23	2.04	0.87
1:K:88:ARG:NH2	1:K:109:LYS:HZ1	1.72	0.87
1:K:93:GLU:CB	1:K:94:PRO:HD2	1.93	0.87
1:L:26:GLY:O	1:L:27:LYS:HG2	1.74	0.87
1:L:75:VAL:HG11	1:L:78:PRO:HD2	1.55	0.87
1:L:153:ASP:OD1	1:L:251:LYS:NZ	2.07	0.87
1:B:26:GLY:O	1:B:27:LYS:HG2	1.74	0.87
1:D:88:ARG:NH2	1:D:109:LYS:HZ2	1.56	0.87
1:E:228:MET:HE2	1:E:371:PHE:HB3	1.55	0.87
1:G:289:GLY:O	1:G:290:LEU:HB2	1.73	0.87
1:I:65:MET:O	1:I:67:LEU:CB	2.22	0.87
1:J:26:GLY:O	1:J:27:LYS:HG2	1.74	0.87
1:K:54:ILE:HB	1:K:101:ASP:HB2	1.56	0.87
1:K:460:VAL:O	1:K:463:GLU:HB2	1.72	0.87
1:L:20:ARG:CZ	1:L:86:ILE:HG23	2.04	0.87
1:L:281:LEU:HD12	1:L:281:LEU:N	1.90	0.87
1:A:120:ILE:CG2	1:A:382:ILE:CG2	2.46	0.87
1:A:189:GLN:O	1:A:192:ARG:N	2.06	0.87
1:A:458:HIS:HD2	1:A:460:VAL:H	1.19	0.87
1:B:350:SER:HB2	1:B:352:LYS:HB2	1.57	0.87
1:C:20:ARG:CZ	1:C:86:ILE:HG23	2.04	0.87
1:C:54:ILE:HB	1:C:101:ASP:HB2	1.56	0.87
1:C:129:GLU:HG3	1:C:269:HIS:HB2	1.56	0.87
1:C:289:GLY:O	1:C:290:LEU:HB2	1.73	0.87
1:D:20:ARG:CZ	1:D:86:ILE:HG23	2.04	0.87
1:E:25:LYS:HD3	1:E:102:ARG:HB3	1.54	0.87
1:E:26:GLY:O	1:E:27:LYS:HG2	1.74	0.87
1:I:25:LYS:HD3	1:I:102:ARG:HB3	1.54	0.87
1:I:458:HIS:HD2	1:I:460:VAL:H	1.19	0.87
1:J:20:ARG:HG2	1:J:28:GLU:OE2	1.73	0.87
1:J:155:GLU:OE1	1:J:187:SER:CB	2.21	0.87
1:K:189:GLN:O	1:K:192:ARG:N	2.06	0.87
1:A:76:ILE:CD1	1:A:76:ILE:N	2.08	0.87
1:B:20:ARG:CZ	1:B:86:ILE:HG23	2.04	0.87
1:B:281:LEU:HD12	1:B:281:LEU:N	1.90	0.87
1:C:93:GLU:CB	1:C:94:PRO:HD2	1.93	0.87
1:D:79:PHE:CD1	1:D:80:PHE:N	2.42	0.87
1:E:20:ARG:CZ	1:E:86:ILE:HG23	2.04	0.87
1:E:458:HIS:HD2	1:E:460:VAL:H	1.19	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:65:MET:O	1:H:67:LEU:N	2.07	0.87
1:H:189:GLN:O	1:H:192:ARG:N	2.06	0.87
1:H:350:SER:HB2	1:H:352:LYS:HB2	1.56	0.87
1:I:129:GLU:HG3	1:I:269:HIS:HB2	1.55	0.87
1:J:65:MET:O	1:J:67:LEU:N	2.07	0.87
1:J:79:PHE:CD1	1:J:80:PHE:N	2.42	0.87
1:K:129:GLU:HG3	1:K:269:HIS:HB2	1.56	0.87
1:L:90:ASP:O	1:L:91:ILE:C	2.07	0.87
1:C:153:ASP:OD1	1:C:251:LYS:NZ	2.07	0.87
1:D:65:MET:O	1:D:67:LEU:N	2.07	0.87
1:E:79:PHE:CD1	1:E:80:PHE:N	2.43	0.87
1:E:155:GLU:OE1	1:E:187:SER:CB	2.21	0.87
1:F:25:LYS:HD3	1:F:102:ARG:HB3	1.54	0.87
1:F:65:MET:O	1:F:67:LEU:CB	2.22	0.87
1:G:88:ARG:HE	1:G:109:LYS:CE	1.88	0.87
1:H:65:MET:O	1:H:67:LEU:CB	2.22	0.87
1:H:75:VAL:HG11	1:H:78:PRO:HD2	1.55	0.87
1:I:79:PHE:CD1	1:I:80:PHE:N	2.42	0.87
1:I:289:GLY:O	1:I:290:LEU:HB2	1.73	0.87
1:K:15:LYS:HD2	1:K:15:LYS:N	1.89	0.87
1:L:54:ILE:HB	1:L:101:ASP:HB2	1.56	0.87
1:A:20:ARG:HH12	1:A:86:ILE:HG23	1.36	0.87
1:B:71:ALA:CB	1:B:86:ILE:CG1	2.53	0.87
1:B:78:PRO:HB3	1:B:79:PHE:HE2	1.32	0.87
1:C:189:GLN:O	1:C:192:ARG:N	2.06	0.87
1:C:350:SER:HB2	1:C:352:LYS:HB2	1.56	0.87
1:C:460:VAL:O	1:C:463:GLU:HB2	1.72	0.87
1:D:153:ASP:OD1	1:D:251:LYS:NZ	2.07	0.87
1:E:120:ILE:HG21	1:E:382:ILE:HG21	0.91	0.87
1:E:289:GLY:O	1:E:290:LEU:HB2	1.73	0.87
1:F:109:LYS:O	1:F:110:ARG:C	2.11	0.87
1:F:189:GLN:O	1:F:192:ARG:N	2.06	0.87
1:F:350:SER:HB2	1:F:352:LYS:HB2	1.57	0.87
1:G:63:SER:O	1:G:90:ASP:CA	2.23	0.87
1:G:458:HIS:HD2	1:G:460:VAL:H	1.19	0.87
1:I:71:ALA:CB	1:I:86:ILE:CG1	2.53	0.87
1:I:155:GLU:OE1	1:I:187:SER:CB	2.21	0.87
1:J:88:ARG:NH2	1:J:109:LYS:HZ1	1.69	0.87
1:K:281:LEU:HD12	1:K:281:LEU:N	1.90	0.87
1:K:350:SER:HB2	1:K:352:LYS:HB2	1.56	0.87
1:A:20:ARG:CZ	1:A:86:ILE:HG23	2.04	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:281:LEU:HD12	1:A:281:LEU:N	1.90	0.87
1:B:54:ILE:HB	1:B:101:ASP:HB2	1.56	0.87
1:B:90:ASP:O	1:B:91:ILE:C	2.07	0.87
1:D:189:GLN:O	1:D:192:ARG:N	2.06	0.87
1:F:71:ALA:CB	1:F:86:ILE:CG1	2.53	0.87
1:G:20:ARG:HH12	1:G:86:ILE:HG23	1.36	0.87
1:G:76:ILE:CD1	1:G:76:ILE:N	2.08	0.87
1:G:79:PHE:CD1	1:G:80:PHE:N	2.42	0.87
1:G:120:ILE:CG2	1:G:382:ILE:CG2	2.46	0.87
1:I:26:GLY:O	1:I:27:LYS:HG2	1.74	0.87
1:A:63:SER:O	1:A:90:ASP:CA	2.23	0.87
1:A:79:PHE:CD1	1:A:80:PHE:N	2.42	0.87
1:B:199:MET:HG3	1:B:241:VAL:HG11	1.56	0.87
1:D:18:ASP:HB2	1:D:31:VAL:O	1.73	0.87
1:E:71:ALA:CB	1:E:86:ILE:CG1	2.53	0.87
1:F:26:GLY:O	1:F:27:LYS:HG2	1.74	0.87
1:F:338:ASN:HD21	1:F:395:ASN:H	1.21	0.87
1:G:281:LEU:HD12	1:G:281:LEU:N	1.90	0.87
1:K:65:MET:O	1:K:67:LEU:CB	2.22	0.87
1:K:153:ASP:OD1	1:K:251:LYS:NZ	2.07	0.87
1:L:71:ALA:CB	1:L:86:ILE:CG1	2.53	0.87
1:A:75:VAL:CG1	1:A:76:ILE:O	2.23	0.87
1:A:88:ARG:HE	1:A:109:LYS:CE	1.88	0.87
1:A:129:GLU:HG3	1:A:269:HIS:HB2	1.56	0.87
1:B:15:LYS:N	1:B:15:LYS:HD2	1.89	0.87
1:B:65:MET:O	1:B:67:LEU:N	2.06	0.87
1:B:75:VAL:CG1	1:B:76:ILE:O	2.23	0.87
1:C:465:TYR:HD2	1:I:315:THR:HG21	1.01	0.87
1:E:18:ASP:HB2	1:E:31:VAL:O	1.73	0.87
1:E:199:MET:HG3	1:E:241:VAL:HG11	1.57	0.87
1:E:315:THR:HG21	1:K:465:TYR:HD2	1.01	0.87
1:F:75:VAL:HG11	1:F:78:PRO:HD2	1.55	0.87
1:G:20:ARG:CZ	1:G:86:ILE:HG23	2.04	0.87
1:G:71:ALA:CB	1:G:86:ILE:CG1	2.53	0.87
1:G:75:VAL:CG1	1:G:76:ILE:O	2.23	0.87
1:H:25:LYS:HD3	1:H:102:ARG:HB3	1.54	0.87
1:H:71:ALA:CB	1:H:86:ILE:CG1	2.53	0.87
1:I:18:ASP:HB2	1:I:31:VAL:O	1.73	0.87
1:I:199:MET:HG3	1:I:241:VAL:HG11	1.56	0.87
1:J:18:ASP:HB2	1:J:31:VAL:O	1.73	0.87
1:J:153:ASP:OD1	1:J:251:LYS:NZ	2.07	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:189:GLN:O	1:J:192:ARG:N	2.06	0.87
1:K:458:HIS:HD2	1:K:460:VAL:H	1.19	0.87
1:L:65:MET:O	1:L:67:LEU:N	2.07	0.87
1:A:71:ALA:CB	1:A:86:ILE:CG1	2.53	0.86
1:C:65:MET:O	1:C:67:LEU:CB	2.22	0.86
1:C:281:LEU:HD12	1:C:281:LEU:N	1.90	0.86
1:C:458:HIS:HD2	1:C:460:VAL:H	1.19	0.86
1:D:54:ILE:HG12	1:D:102:ARG:HE	1.40	0.86
1:E:88:ARG:NH2	1:E:109:LYS:HZ2	1.59	0.86
1:E:129:GLU:HG3	1:E:269:HIS:HB2	1.56	0.86
1:H:26:GLY:O	1:H:27:LYS:HG2	1.74	0.86
1:H:109:LYS:O	1:H:110:ARG:C	2.11	0.86
1:I:120:ILE:HG21	1:I:382:ILE:HG21	0.91	0.86
1:J:54:ILE:HG12	1:J:102:ARG:HE	1.40	0.86
1:L:65:MET:O	1:L:67:LEU:CB	2.22	0.86
1:L:199:MET:HG3	1:L:241:VAL:HG11	1.56	0.86
1:A:98:GLN:HG2	1:A:98:GLN:O	1.73	0.86
1:B:65:MET:O	1:B:67:LEU:CB	2.22	0.86
1:B:71:ALA:CB	1:B:86:ILE:HG12	2.05	0.86
1:C:76:ILE:CD1	1:C:202:MET:CE	2.48	0.86
1:C:338:ASN:HD21	1:C:395:ASN:H	1.21	0.86
1:F:71:ALA:CB	1:F:86:ILE:HG12	2.05	0.86
1:G:26:GLY:O	1:G:27:LYS:HG2	1.74	0.86
1:H:75:VAL:CG1	1:H:76:ILE:O	2.23	0.86
1:I:88:ARG:HE	1:I:109:LYS:CE	1.88	0.86
1:J:75:VAL:CG1	1:J:76:ILE:O	2.23	0.86
1:J:191:ILE:O	1:J:195:MET:HG3	1.76	0.86
1:J:458:HIS:HD2	1:J:460:VAL:H	1.19	0.86
1:K:88:ARG:HE	1:K:109:LYS:CE	1.88	0.86
1:L:15:LYS:N	1:L:15:LYS:HD2	1.89	0.86
1:L:75:VAL:CG1	1:L:76:ILE:O	2.23	0.86
1:L:78:PRO:HB3	1:L:79:PHE:HE2	1.32	0.86
1:A:71:ALA:CB	1:A:86:ILE:HG12	2.06	0.86
1:A:88:ARG:HH21	1:A:109:LYS:HZ2	1.20	0.86
1:C:54:ILE:HG12	1:C:102:ARG:HE	1.40	0.86
1:C:75:VAL:CG1	1:C:76:ILE:O	2.23	0.86
1:C:90:ASP:C	1:C:91:ILE:O	2.11	0.86
1:F:20:ARG:CZ	1:F:86:ILE:HG23	2.03	0.86
1:F:281:LEU:HD12	1:F:281:LEU:N	1.90	0.86
1:G:71:ALA:CB	1:G:86:ILE:HG12	2.06	0.86
1:G:75:VAL:HG11	1:G:78:PRO:HD2	1.55	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:338:ASN:HD21	1:H:395:ASN:H	1.21	0.86
1:H:404:ALA:O	1:H:407:ILE:CG2	2.24	0.86
1:I:20:ARG:HH12	1:I:86:ILE:HG23	1.36	0.86
1:K:20:ARG:HG2	1:K:28:GLU:OE2	1.73	0.86
1:K:338:ASN:HD21	1:K:395:ASN:H	1.21	0.86
1:A:15:LYS:N	1:A:15:LYS:HD2	1.89	0.86
1:A:360:PHE:N	1:A:361:PRO:HD2	1.89	0.86
1:B:20:ARG:HH12	1:B:86:ILE:HG23	1.36	0.86
1:B:54:ILE:HD11	1:B:102:ARG:HD3	1.56	0.86
1:C:88:ARG:HE	1:C:109:LYS:CE	1.88	0.86
1:D:75:VAL:CG1	1:D:76:ILE:O	2.23	0.86
1:D:191:ILE:O	1:D:195:MET:HG3	1.76	0.86
1:E:63:SER:O	1:E:90:ASP:CA	2.23	0.86
1:F:63:SER:O	1:F:90:ASP:CA	2.23	0.86
1:F:89:CYS:CB	1:F:103:ASP:CG	2.44	0.86
1:F:404:ALA:O	1:F:407:ILE:CG2	2.24	0.86
1:G:20:ARG:HG2	1:G:28:GLU:OE2	1.73	0.86
1:G:98:GLN:HG2	1:G:98:GLN:O	1.73	0.86
1:G:129:GLU:HG3	1:G:269:HIS:HB2	1.56	0.86
1:G:360:PHE:N	1:G:361:PRO:HD2	1.89	0.86
1:H:63:SER:O	1:H:90:ASP:CA	2.23	0.86
1:H:89:CYS:CB	1:H:103:ASP:CG	2.44	0.86
1:H:281:LEU:HD12	1:H:281:LEU:N	1.90	0.86
1:L:71:ALA:CB	1:L:86:ILE:HG12	2.06	0.86
1:A:20:ARG:HG2	1:A:28:GLU:OE2	1.73	0.86
1:C:143:SER:O	1:C:145:SER:N	2.09	0.86
1:D:71:ALA:CB	1:D:86:ILE:HG12	2.05	0.86
1:D:458:HIS:HD2	1:D:460:VAL:H	1.19	0.86
1:E:20:ARG:HH12	1:E:86:ILE:HG23	1.36	0.86
1:F:54:ILE:HD11	1:F:102:ARG:HD3	1.56	0.86
1:F:92:LEU:HG	1:F:93:GLU:CB	2.06	0.86
1:G:15:LYS:HD2	1:G:15:LYS:N	1.89	0.86
1:G:404:ALA:O	1:G:407:ILE:CG2	2.24	0.86
1:H:20:ARG:CZ	1:H:86:ILE:HG23	2.04	0.86
1:H:54:ILE:HD11	1:H:102:ARG:HD3	1.56	0.86
1:K:54:ILE:HG12	1:K:102:ARG:HE	1.40	0.86
1:K:143:SER:O	1:K:145:SER:N	2.09	0.86
1:A:26:GLY:O	1:A:27:LYS:HG2	1.74	0.86
1:B:143:SER:O	1:B:145:SER:N	2.09	0.86
1:C:20:ARG:HG2	1:C:28:GLU:OE2	1.73	0.86
1:E:88:ARG:HE	1:E:109:LYS:CE	1.89	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:98:GLN:O	1:E:98:GLN:HG2	1.73	0.86
1:F:129:GLU:HG3	1:F:269:HIS:HB2	1.55	0.86
1:G:92:LEU:HG	1:G:93:GLU:CB	2.06	0.86
1:G:338:ASN:HD21	1:G:395:ASN:H	1.21	0.86
1:H:71:ALA:CB	1:H:86:ILE:HG12	2.06	0.86
1:H:92:LEU:HG	1:H:93:GLU:CB	2.06	0.86
1:I:63:SER:O	1:I:90:ASP:CA	2.23	0.86
1:I:191:ILE:O	1:I:195:MET:HG3	1.76	0.86
1:K:75:VAL:CG1	1:K:76:ILE:O	2.23	0.86
1:K:90:ASP:C	1:K:91:ILE:O	2.12	0.86
1:L:54:ILE:HD11	1:L:102:ARG:HD3	1.56	0.86
1:L:143:SER:O	1:L:145:SER:N	2.09	0.86
1:A:92:LEU:HG	1:A:93:GLU:CB	2.06	0.86
1:A:404:ALA:O	1:A:407:ILE:CG2	2.24	0.86
1:B:315:THR:HG21	1:H:465:TYR:HD2	1.01	0.86
1:D:54:ILE:HD11	1:D:102:ARG:HD3	1.56	0.86
1:G:88:ARG:HH21	1:G:109:LYS:HZ2	1.20	0.86
1:H:88:ARG:HE	1:H:109:LYS:CE	1.88	0.86
1:I:98:GLN:O	1:I:98:GLN:HG2	1.73	0.86
1:J:65:MET:O	1:J:67:LEU:CB	2.22	0.86
1:L:98:GLN:HG2	1:L:98:GLN:O	1.73	0.86
1:A:75:VAL:HG11	1:A:78:PRO:HD2	1.55	0.86
1:D:65:MET:O	1:D:67:LEU:CB	2.22	0.86
1:D:143:SER:O	1:D:145:SER:N	2.09	0.86
1:E:75:VAL:CG1	1:E:76:ILE:O	2.23	0.86
1:E:191:ILE:O	1:E:195:MET:HG3	1.76	0.86
1:H:98:GLN:HG2	1:H:98:GLN:O	1.73	0.86
1:J:71:ALA:CB	1:J:86:ILE:HG12	2.06	0.86
1:J:143:SER:O	1:J:145:SER:N	2.09	0.86
1:K:88:ARG:NH2	1:K:109:LYS:HZ2	1.56	0.86
1:L:88:ARG:NH2	1:L:109:LYS:HZ1	1.73	0.86
1:L:129:GLU:HG3	1:L:269:HIS:HB2	1.55	0.86
1:D:350:SER:HB2	1:D:352:LYS:HB2	1.57	0.86
1:E:88:ARG:NH2	1:E:109:LYS:HZ1	1.69	0.86
1:E:339:ARG:HG2	1:E:340:SER:N	1.91	0.86
1:E:350:SER:HB2	1:E:352:LYS:HB2	1.56	0.86
1:F:79:PHE:CD1	1:F:80:PHE:N	2.42	0.86
1:H:458:HIS:HD2	1:H:460:VAL:H	1.19	0.86
1:J:281:LEU:HD12	1:J:281:LEU:N	1.90	0.86
1:J:350:SER:HB2	1:J:352:LYS:HB2	1.57	0.86
1:A:18:ASP:CG	1:A:19:LEU:N	2.29	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:89:CYS:CB	1:A:103:ASP:CG	2.44	0.86
1:A:143:SER:O	1:A:145:SER:N	2.09	0.86
1:A:338:ASN:HD21	1:A:395:ASN:H	1.21	0.86
1:B:88:ARG:NH2	1:B:109:LYS:HZ1	1.74	0.86
1:B:98:GLN:HG2	1:B:98:GLN:O	1.73	0.86
1:B:183:PRO:O	1:B:184:PRO:C	2.14	0.86
1:E:29:GLN:OE1	1:F:179:TYR:O	1.94	0.86
1:E:404:ALA:O	1:E:407:ILE:CG2	2.24	0.86
1:G:18:ASP:CG	1:G:19:LEU:N	2.28	0.86
1:G:89:CYS:CB	1:G:103:ASP:CG	2.44	0.86
1:G:143:SER:O	1:G:145:SER:N	2.09	0.86
1:H:129:GLU:HG3	1:H:269:HIS:HB2	1.56	0.86
1:H:199:MET:HG3	1:H:241:VAL:HG11	1.56	0.86
1:H:228:MET:HE2	1:H:371:PHE:HB3	1.58	0.86
1:I:75:VAL:CG1	1:I:76:ILE:O	2.23	0.86
1:I:339:ARG:HG2	1:I:340:SER:N	1.91	0.86
1:I:404:ALA:O	1:I:407:ILE:CG2	2.24	0.86
1:J:71:ALA:CB	1:J:86:ILE:CG1	2.53	0.86
1:K:179:TYR:O	1:L:29:GLN:OE1	1.94	0.86
1:L:404:ALA:O	1:L:407:ILE:CG2	2.23	0.86
1:C:376:MET:HE3	1:C:433:VAL:CG2	2.06	0.85
1:D:89:CYS:CB	1:D:103:ASP:CG	2.44	0.85
1:H:79:PHE:CD1	1:H:80:PHE:N	2.42	0.85
1:H:179:TYR:O	1:I:29:GLN:OE1	1.94	0.85
1:I:89:CYS:CB	1:I:103:ASP:CG	2.44	0.85
1:I:350:SER:HB2	1:I:352:LYS:HB2	1.56	0.85
1:J:89:CYS:CB	1:J:103:ASP:CG	2.44	0.85
1:L:20:ARG:HH12	1:L:86:ILE:HG23	1.36	0.85
1:A:376:MET:HE3	1:A:433:VAL:CG2	2.05	0.85
1:B:29:GLN:OE1	1:C:179:TYR:O	1.94	0.85
1:B:129:GLU:HG3	1:B:269:HIS:HB2	1.56	0.85
1:D:63:SER:O	1:D:90:ASP:CA	2.23	0.85
1:D:71:ALA:CB	1:D:86:ILE:CG1	2.53	0.85
1:D:228:MET:HE2	1:D:371:PHE:HB3	1.58	0.85
1:D:338:ASN:HD21	1:D:395:ASN:H	1.21	0.85
1:E:89:CYS:CB	1:E:103:ASP:CG	2.44	0.85
1:E:143:SER:O	1:E:145:SER:N	2.09	0.85
1:F:88:ARG:HE	1:F:109:LYS:CE	1.88	0.85
1:F:98:GLN:HG2	1:F:98:GLN:O	1.73	0.85
1:F:199:MET:HG3	1:F:241:VAL:HG11	1.56	0.85
1:F:458:HIS:HD2	1:F:460:VAL:H	1.19	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:339:ARG:HG2	1:H:340:SER:N	1.91	0.85
1:J:54:ILE:HD11	1:J:102:ARG:HD3	1.56	0.85
1:L:79:PHE:CD1	1:L:80:PHE:N	2.42	0.85
1:L:88:ARG:HE	1:L:109:LYS:CE	1.88	0.85
1:L:183:PRO:O	1:L:184:PRO:C	2.14	0.85
1:B:88:ARG:HE	1:B:109:LYS:CE	1.89	0.85
1:C:63:SER:O	1:C:90:ASP:CA	2.23	0.85
1:C:71:ALA:CB	1:C:86:ILE:CG1	2.53	0.85
1:C:79:PHE:CD1	1:C:80:PHE:N	2.42	0.85
1:D:281:LEU:HD12	1:D:281:LEU:N	1.90	0.85
1:G:54:ILE:HD11	1:G:102:ARG:HD3	1.56	0.85
1:J:63:SER:O	1:J:90:ASP:CA	2.23	0.85
1:B:54:ILE:HG12	1:B:102:ARG:HE	1.40	0.85
1:B:79:PHE:CD1	1:B:80:PHE:N	2.42	0.85
1:B:404:ALA:O	1:B:407:ILE:CG2	2.24	0.85
1:C:191:ILE:O	1:C:195:MET:HG3	1.76	0.85
1:D:199:MET:HG3	1:D:241:VAL:HG11	1.56	0.85
1:E:92:LEU:HG	1:E:93:GLU:CB	2.05	0.85
1:F:143:SER:O	1:F:145:SER:N	2.09	0.85
1:F:339:ARG:HG2	1:F:340:SER:N	1.91	0.85
1:F:465:TYR:HD2	1:L:315:THR:HG21	1.01	0.85
1:G:29:GLN:OE1	1:L:179:TYR:O	1.94	0.85
1:I:143:SER:O	1:I:145:SER:N	2.09	0.85
1:J:228:MET:HE2	1:J:371:PHE:HB3	1.58	0.85
1:K:63:SER:O	1:K:90:ASP:CA	2.23	0.85
1:K:89:CYS:CB	1:K:103:ASP:CG	2.44	0.85
1:K:191:ILE:O	1:K:195:MET:HG3	1.76	0.85
1:L:63:SER:O	1:L:90:ASP:CA	2.23	0.85
1:A:29:GLN:OE1	1:B:179:TYR:O	1.94	0.85
1:A:54:ILE:HD11	1:A:102:ARG:HD3	1.56	0.85
1:B:289:GLY:O	1:B:290:LEU:HB2	1.73	0.85
1:C:71:ALA:CB	1:C:86:ILE:HG12	2.05	0.85
1:C:89:CYS:CB	1:C:103:ASP:CG	2.44	0.85
1:H:143:SER:O	1:H:145:SER:N	2.09	0.85
1:I:179:TYR:O	1:J:29:GLN:OE1	1.94	0.85
1:I:183:PRO:O	1:I:184:PRO:C	2.14	0.85
1:I:281:LEU:HD12	1:I:281:LEU:N	1.90	0.85
1:J:338:ASN:HD21	1:J:395:ASN:H	1.21	0.85
1:K:79:PHE:CD1	1:K:80:PHE:N	2.43	0.85
1:A:179:TYR:O	1:F:29:GLN:OE1	1.94	0.85
1:B:63:SER:O	1:B:90:ASP:CA	2.23	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:76:ILE:N	1:B:76:ILE:CD1	2.08	0.85
1:D:29:GLN:OE1	1:E:179:TYR:O	1.94	0.85
1:D:92:LEU:CG	1:D:93:GLU:HB2	2.06	0.85
1:E:183:PRO:O	1:E:184:PRO:C	2.14	0.85
1:G:179:TYR:O	1:H:29:GLN:OE1	1.94	0.85
1:H:191:ILE:O	1:H:195:MET:HG3	1.76	0.85
1:I:71:ALA:CB	1:I:86:ILE:HG12	2.06	0.85
1:I:88:ARG:NH2	1:I:109:LYS:HZ1	1.70	0.85
1:K:71:ALA:CB	1:K:86:ILE:CG1	2.53	0.85
1:L:92:LEU:HG	1:L:93:GLU:CB	2.06	0.85
1:A:93:GLU:CB	1:A:94:PRO:HD3	2.06	0.85
1:B:89:CYS:CB	1:B:103:ASP:CG	2.44	0.85
1:C:29:GLN:OE1	1:D:179:TYR:O	1.94	0.85
1:D:404:ALA:O	1:D:407:ILE:CG2	2.24	0.85
1:E:71:ALA:CB	1:E:86:ILE:HG12	2.06	0.85
1:E:281:LEU:HD12	1:E:281:LEU:N	1.90	0.85
1:G:93:GLU:CB	1:G:94:PRO:HD3	2.06	0.85
1:J:179:TYR:O	1:K:29:GLN:OE1	1.94	0.85
1:J:404:ALA:O	1:J:407:ILE:CG2	2.24	0.85
1:L:27:LYS:HZ2	1:L:239:LYS:NZ	1.71	0.85
1:L:89:CYS:CB	1:L:103:ASP:CG	2.44	0.85
1:L:289:GLY:O	1:L:290:LEU:HB2	1.73	0.85
1:B:18:ASP:CG	1:B:19:LEU:N	2.29	0.85
1:D:88:ARG:NH2	1:D:109:LYS:HZ1	1.72	0.85
1:D:88:ARG:HE	1:D:109:LYS:CE	1.88	0.85
1:F:54:ILE:HG12	1:F:102:ARG:HE	1.40	0.85
1:F:191:ILE:O	1:F:195:MET:HG3	1.76	0.85
1:J:199:MET:HG3	1:J:241:VAL:HG11	1.56	0.85
1:K:339:ARG:HG2	1:K:340:SER:N	1.91	0.85
1:K:404:ALA:O	1:K:407:ILE:CG2	2.24	0.85
1:L:18:ASP:CG	1:L:19:LEU:N	2.28	0.85
1:L:339:ARG:HG2	1:L:340:SER:N	1.91	0.85
1:A:274:LEU:CD1	1:A:282:PHE:HE1	1.90	0.85
1:B:465:TYR:HD2	1:H:315:THR:CG2	1.61	0.85
1:C:339:ARG:HG2	1:C:340:SER:N	1.91	0.85
1:E:405:LYS:HG3	1:E:406:GLU:N	1.86	0.85
1:F:67:LEU:CD1	1:F:68:MET:HG3	2.07	0.85
1:F:289:GLY:O	1:F:290:LEU:HB2	1.73	0.85
1:F:315:THR:CG2	1:L:465:TYR:HD2	1.61	0.85
1:H:289:GLY:O	1:H:290:LEU:HB2	1.73	0.85
1:I:54:ILE:HG12	1:I:102:ARG:HE	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:405:LYS:HG3	1:I:406:GLU:N	1.86	0.85
1:L:54:ILE:HG12	1:L:102:ARG:HE	1.41	0.85
1:L:403:GLU:HB3	1:L:406:GLU:CB	2.07	0.85
1:A:403:GLU:HB3	1:A:406:GLU:CB	2.07	0.84
1:B:403:GLU:HB3	1:B:406:GLU:CB	2.07	0.84
1:C:404:ALA:O	1:C:407:ILE:CG2	2.24	0.84
1:F:376:MET:HE3	1:F:433:VAL:CG2	2.06	0.84
1:G:274:LEU:CD1	1:G:282:PHE:HE1	1.90	0.84
1:G:403:GLU:HB3	1:G:406:GLU:CB	2.07	0.84
1:H:183:PRO:O	1:H:184:PRO:C	2.14	0.84
1:K:71:ALA:CB	1:K:86:ILE:HG12	2.06	0.84
1:L:76:ILE:N	1:L:76:ILE:CD1	2.08	0.84
1:A:339:ARG:HG2	1:A:340:SER:N	1.91	0.84
1:B:339:ARG:HG2	1:B:340:SER:N	1.91	0.84
1:B:360:PHE:N	1:B:361:PRO:HD2	1.89	0.84
1:F:183:PRO:O	1:F:184:PRO:C	2.14	0.84
1:G:67:LEU:CD1	1:G:68:MET:HG3	2.07	0.84
1:G:98:GLN:CG	1:G:102:ARG:O	2.25	0.84
1:G:199:MET:HG3	1:G:241:VAL:HG11	1.56	0.84
1:H:67:LEU:CD1	1:H:68:MET:HG3	2.07	0.84
1:A:54:ILE:HG12	1:A:102:ARG:HE	1.40	0.84
1:A:199:MET:HG3	1:A:241:VAL:HG11	1.56	0.84
1:B:98:GLN:CG	1:B:102:ARG:O	2.25	0.84
1:D:183:PRO:O	1:D:184:PRO:C	2.14	0.84
1:D:274:LEU:CD1	1:D:282:PHE:HE1	1.90	0.84
1:D:421:LEU:HD22	1:D:443:ILE:HD11	1.58	0.84
1:E:274:LEU:CD1	1:E:282:PHE:HE1	1.90	0.84
1:F:360:PHE:N	1:F:361:PRO:HD2	1.89	0.84
1:G:339:ARG:HG2	1:G:340:SER:N	1.91	0.84
1:H:54:ILE:HG12	1:H:102:ARG:HE	1.40	0.84
1:I:274:LEU:CD1	1:I:282:PHE:HE1	1.90	0.84
1:A:67:LEU:CD1	1:A:68:MET:HG3	2.07	0.84
1:A:98:GLN:CG	1:A:102:ARG:O	2.25	0.84
1:B:274:LEU:CD1	1:B:282:PHE:HE1	1.90	0.84
1:E:54:ILE:HG12	1:E:102:ARG:HE	1.41	0.84
1:G:54:ILE:HG12	1:G:102:ARG:HE	1.40	0.84
1:H:360:PHE:N	1:H:361:PRO:HD2	1.89	0.84
1:J:88:ARG:NH2	1:J:109:LYS:HZ2	1.59	0.84
1:J:88:ARG:HE	1:J:109:LYS:CE	1.89	0.84
1:J:421:LEU:HD22	1:J:443:ILE:HD11	1.58	0.84
1:L:98:GLN:CG	1:L:102:ARG:O	2.25	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:28:GLU:HG3	1:E:182:VAL:HG11	1.57	0.84
1:J:183:PRO:O	1:J:184:PRO:C	2.14	0.84
1:J:274:LEU:CD1	1:J:282:PHE:HE1	1.90	0.84
1:L:274:LEU:CD1	1:L:282:PHE:HE1	1.90	0.84
1:L:360:PHE:N	1:L:361:PRO:HD2	1.90	0.84
1:A:191:ILE:O	1:A:195:MET:HG3	1.76	0.84
1:B:92:LEU:HG	1:B:93:GLU:CB	2.06	0.84
1:B:191:ILE:O	1:B:195:MET:HG3	1.76	0.84
1:B:338:ASN:HD21	1:B:395:ASN:H	1.21	0.84
1:C:180:PHE:N	1:C:181:PRO:HD3	1.93	0.84
1:C:360:PHE:N	1:C:361:PRO:HD2	1.89	0.84
1:G:191:ILE:O	1:G:195:MET:HG3	1.76	0.84
1:K:180:PHE:N	1:K:181:PRO:HD3	1.93	0.84
1:A:315:THR:CG2	1:G:465:TYR:HD2	1.61	0.84
1:A:331:MET:HE3	1:A:396:LEU:HD12	1.59	0.84
1:D:93:GLU:CB	1:D:94:PRO:HD3	2.06	0.84
1:F:403:GLU:HB3	1:F:406:GLU:CB	2.07	0.84
1:F:421:LEU:HD22	1:F:443:ILE:HD11	1.58	0.84
1:H:376:MET:HE3	1:H:433:VAL:CG2	2.07	0.84
1:J:93:GLU:CB	1:J:94:PRO:HD3	2.06	0.84
1:J:339:ARG:HG2	1:J:340:SER:N	1.91	0.84
1:K:175:VAL:H	1:K:215:THR:CG2	1.86	0.84
1:L:338:ASN:HD21	1:L:395:ASN:H	1.21	0.84
1:B:28:GLU:HG3	1:C:182:VAL:HG11	1.57	0.84
1:B:67:LEU:HD12	1:B:68:MET:N	1.93	0.84
1:D:186:ASP:O	1:D:188:ALA:N	2.11	0.84
1:D:339:ARG:HG2	1:D:340:SER:N	1.91	0.84
1:E:186:ASP:O	1:E:188:ALA:N	2.11	0.84
1:F:180:PHE:N	1:F:181:PRO:HD3	1.93	0.84
1:G:180:PHE:N	1:G:181:PRO:HD3	1.93	0.84
1:I:182:VAL:HG11	1:J:28:GLU:HG3	1.57	0.84
1:K:67:LEU:HD12	1:K:68:MET:N	1.93	0.84
1:K:98:GLN:CG	1:K:102:ARG:O	2.25	0.84
1:L:23:ASP:HB3	1:L:28:GLU:HA	1.60	0.84
1:L:191:ILE:O	1:L:195:MET:HG3	1.76	0.84
1:A:421:LEU:HD22	1:A:443:ILE:HD11	1.58	0.84
1:C:67:LEU:HD12	1:C:68:MET:N	1.93	0.84
1:C:120:ILE:CG2	1:C:382:ILE:CG2	2.46	0.84
1:C:186:ASP:O	1:C:188:ALA:N	2.11	0.84
1:C:403:GLU:HB3	1:C:406:GLU:CB	2.07	0.84
1:D:120:ILE:CG2	1:D:382:ILE:CG2	2.46	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:67:LEU:CD1	1:E:68:MET:HG3	2.07	0.84
1:E:92:LEU:CG	1:E:93:GLU:HB2	2.06	0.84
1:F:120:ILE:CG2	1:F:382:ILE:CG2	2.46	0.84
1:H:403:GLU:HB3	1:H:406:GLU:CB	2.07	0.84
1:I:67:LEU:CD1	1:I:68:MET:HG3	2.07	0.84
1:I:92:LEU:CG	1:I:93:GLU:HB2	2.06	0.84
1:I:403:GLU:HB3	1:I:406:GLU:CB	2.07	0.84
1:K:339:ARG:HB3	1:L:58:LYS:HG3	1.60	0.84
1:K:403:GLU:HB3	1:K:406:GLU:CB	2.07	0.84
1:A:23:ASP:HB3	1:A:28:GLU:HA	1.60	0.84
1:A:180:PHE:N	1:A:181:PRO:HD3	1.93	0.84
1:B:23:ASP:HB3	1:B:28:GLU:HA	1.60	0.84
1:B:58:LYS:HG3	1:C:339:ARG:HB3	1.60	0.84
1:B:67:LEU:CD1	1:B:68:MET:HG3	2.07	0.84
1:C:98:GLN:CG	1:C:102:ARG:O	2.25	0.84
1:C:175:VAL:H	1:C:215:THR:CG2	1.86	0.84
1:F:274:LEU:CD1	1:F:282:PHE:HE1	1.90	0.84
1:H:75:VAL:HG23	1:H:84:THR:CG2	2.08	0.84
1:H:180:PHE:N	1:H:181:PRO:HD3	1.93	0.84
1:I:19:LEU:CD1	1:I:240:TYR:CE1	2.61	0.84
1:J:186:ASP:O	1:J:188:ALA:N	2.11	0.84
1:K:360:PHE:N	1:K:361:PRO:HD2	1.90	0.84
1:E:18:ASP:CG	1:E:19:LEU:N	2.29	0.83
1:E:109:LYS:O	1:E:110:ARG:C	2.11	0.83
1:F:75:VAL:CG1	1:F:76:ILE:O	2.23	0.83
1:G:331:MET:HE3	1:G:396:LEU:HD12	1.59	0.83
1:H:274:LEU:CD1	1:H:282:PHE:HE1	1.90	0.83
1:H:421:LEU:HD22	1:H:443:ILE:HD11	1.58	0.83
1:I:186:ASP:O	1:I:188:ALA:N	2.11	0.83
1:K:182:VAL:HG11	1:L:28:GLU:HG3	1.57	0.83
1:K:186:ASP:O	1:K:188:ALA:N	2.11	0.83
1:L:67:LEU:HD12	1:L:68:MET:N	1.93	0.83
1:L:67:LEU:CD1	1:L:68:MET:HG3	2.07	0.83
1:A:76:ILE:HD11	1:A:202:MET:HE3	1.57	0.83
1:A:465:TYR:HD2	1:G:315:THR:CG2	1.61	0.83
1:B:180:PHE:N	1:B:181:PRO:HD3	1.93	0.83
1:E:19:LEU:CD1	1:E:240:TYR:CE1	2.62	0.83
1:E:403:GLU:HB3	1:E:406:GLU:CB	2.07	0.83
1:K:120:ILE:CG2	1:K:382:ILE:CG2	2.46	0.83
1:K:421:LEU:HD22	1:K:443:ILE:HD11	1.58	0.83
1:L:180:PHE:N	1:L:181:PRO:HD3	1.93	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:466:TYR:HH	1:G:252:THR:HG21	0.74	0.83
1:B:90:ASP:C	1:B:91:ILE:O	2.12	0.83
1:C:274:LEU:CD1	1:C:282:PHE:HE1	1.90	0.83
1:D:19:LEU:CD1	1:D:240:TYR:CE1	2.61	0.83
1:D:98:GLN:CG	1:D:102:ARG:O	2.26	0.83
1:E:75:VAL:HG23	1:E:84:THR:CG2	2.08	0.83
1:F:75:VAL:HG23	1:F:84:THR:CG2	2.08	0.83
1:F:98:GLN:CG	1:F:102:ARG:O	2.25	0.83
1:G:183:PRO:O	1:G:184:PRO:C	2.13	0.83
1:G:421:LEU:HD22	1:G:443:ILE:HD11	1.58	0.83
1:J:98:GLN:CG	1:J:102:ARG:O	2.25	0.83
1:J:120:ILE:CG2	1:J:382:ILE:CG2	2.46	0.83
1:J:339:ARG:HB3	1:K:58:LYS:HG3	1.60	0.83
1:K:75:VAL:HG23	1:K:84:THR:CG2	2.08	0.83
1:A:105:ARG:NH2	1:A:233:ASP:OD1	2.12	0.83
1:C:58:LYS:HG3	1:D:339:ARG:HB3	1.60	0.83
1:C:75:VAL:HG23	1:C:84:THR:CG2	2.08	0.83
1:C:421:LEU:HD22	1:C:443:ILE:HD11	1.58	0.83
1:D:65:MET:HA	1:D:65:MET:CE	2.08	0.83
1:D:403:GLU:HB3	1:D:406:GLU:CB	2.07	0.83
1:F:90:ASP:C	1:F:91:ILE:O	2.12	0.83
1:F:306:LYS:CG	1:F:411:ALA:HB2	2.08	0.83
1:G:105:ARG:NH2	1:G:233:ASP:OD1	2.12	0.83
1:G:339:ARG:HB3	1:H:58:LYS:HG3	1.60	0.83
1:G:376:MET:HE3	1:G:433:VAL:CG2	2.07	0.83
1:H:120:ILE:CG2	1:H:382:ILE:CG2	2.46	0.83
1:I:75:VAL:HG23	1:I:84:THR:CG2	2.08	0.83
1:B:75:VAL:HG23	1:B:84:THR:CG2	2.08	0.83
1:C:18:ASP:CG	1:C:19:LEU:N	2.29	0.83
1:G:23:ASP:HB3	1:G:28:GLU:HA	1.60	0.83
1:H:98:GLN:CG	1:H:102:ARG:O	2.25	0.83
1:J:331:MET:HE1	1:J:396:LEU:HD12	1.58	0.83
1:J:403:GLU:HB3	1:J:406:GLU:CB	2.07	0.83
1:D:67:LEU:CD1	1:D:68:MET:HG3	2.07	0.83
1:E:58:LYS:HG3	1:F:339:ARG:HB3	1.60	0.83
1:F:18:ASP:CG	1:F:19:LEU:N	2.29	0.83
1:F:76:ILE:CD1	1:F:202:MET:CE	2.48	0.83
1:H:76:ILE:CD1	1:H:202:MET:CE	2.48	0.83
1:I:18:ASP:CG	1:I:19:LEU:N	2.29	0.83
1:I:27:LYS:HZ2	1:I:239:LYS:NZ	1.74	0.83
1:I:109:LYS:O	1:I:110:ARG:C	2.11	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:19:LEU:CD1	1:J:240:TYR:CE1	2.62	0.83
1:J:65:MET:HA	1:J:65:MET:CE	2.09	0.83
1:J:67:LEU:CD1	1:J:68:MET:HG3	2.07	0.83
1:K:274:LEU:CD1	1:K:282:PHE:HE1	1.90	0.83
1:L:90:ASP:C	1:L:91:ILE:O	2.12	0.83
1:C:67:LEU:CD1	1:C:68:MET:HG3	2.07	0.83
1:C:105:ARG:NH2	1:C:233:ASP:OD1	2.12	0.83
1:C:189:GLN:O	1:C:191:ILE:N	2.11	0.83
1:D:331:MET:HE1	1:D:396:LEU:HD12	1.58	0.83
1:H:18:ASP:CG	1:H:19:LEU:N	2.29	0.83
1:H:19:LEU:CD1	1:H:240:TYR:CE1	2.62	0.83
1:H:92:LEU:CG	1:H:93:GLU:HB2	2.07	0.83
1:I:360:PHE:N	1:I:361:PRO:HD2	1.89	0.83
1:K:18:ASP:CG	1:K:19:LEU:N	2.28	0.83
1:A:75:VAL:HG23	1:A:84:THR:CG2	2.08	0.83
1:A:189:GLN:O	1:A:191:ILE:N	2.11	0.83
1:A:339:ARG:HB3	1:F:58:LYS:HG3	1.60	0.83
1:C:183:PRO:O	1:C:184:PRO:C	2.14	0.83
1:D:14:VAL:C	1:D:15:LYS:HD2	1.99	0.83
1:E:65:MET:HA	1:E:65:MET:CE	2.08	0.83
1:E:360:PHE:N	1:E:361:PRO:HD2	1.89	0.83
1:F:19:LEU:CD1	1:F:240:TYR:CE1	2.62	0.83
1:F:92:LEU:CG	1:F:93:GLU:HB2	2.06	0.83
1:G:75:VAL:HG23	1:G:84:THR:CG2	2.08	0.83
1:G:189:GLN:O	1:G:191:ILE:N	2.11	0.83
1:H:90:ASP:C	1:H:91:ILE:O	2.12	0.83
1:H:339:ARG:HB3	1:I:58:LYS:HG3	1.60	0.83
1:I:65:MET:HA	1:I:65:MET:CE	2.08	0.83
1:I:98:GLN:CG	1:I:102:ARG:O	2.25	0.83
1:L:75:VAL:HG23	1:L:84:THR:CG2	2.08	0.83
1:L:105:ARG:NH2	1:L:233:ASP:OD1	2.12	0.83
1:E:180:PHE:N	1:E:181:PRO:HD3	1.93	0.83
1:I:180:PHE:N	1:I:181:PRO:HD3	1.93	0.83
1:J:14:VAL:C	1:J:15:LYS:HD2	2.00	0.83
1:K:67:LEU:CD1	1:K:68:MET:HG3	2.07	0.83
1:K:189:GLN:O	1:K:191:ILE:N	2.12	0.83
1:L:14:VAL:C	1:L:15:LYS:HD2	1.99	0.83
1:A:67:LEU:HD12	1:A:68:MET:N	1.93	0.83
1:B:105:ARG:NH2	1:B:233:ASP:OD1	2.12	0.83
1:C:14:VAL:C	1:C:15:LYS:HD2	1.99	0.83
1:D:23:ASP:HB3	1:D:28:GLU:HA	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:180:PHE:N	1:D:181:PRO:HD3	1.93	0.83
1:E:90:ASP:C	1:E:91:ILE:O	2.11	0.83
1:E:98:GLN:CG	1:E:102:ARG:O	2.26	0.83
1:F:118:THR:OG1	1:F:120:ILE:HG13	1.79	0.83
1:G:67:LEU:HD12	1:G:68:MET:N	1.93	0.83
1:H:118:THR:OG1	1:H:120:ILE:HG13	1.79	0.83
1:I:421:LEU:HD22	1:I:443:ILE:HD11	1.58	0.83
1:K:65:MET:HA	1:K:65:MET:CE	2.08	0.83
1:L:186:ASP:O	1:L:188:ALA:N	2.11	0.83
1:A:399:LEU:HD23	1:A:402:GLU:HB2	1.61	0.82
1:B:186:ASP:O	1:B:188:ALA:N	2.11	0.82
1:B:347:VAL:HG22	1:B:348:VAL:H	1.44	0.82
1:C:65:MET:HA	1:C:65:MET:CE	2.08	0.82
1:C:318:SER:O	1:C:321:ARG:HG2	1.79	0.82
1:E:421:LEU:HD22	1:E:443:ILE:HD11	1.58	0.82
1:F:20:ARG:HH12	1:F:86:ILE:HG23	1.36	0.82
1:H:67:LEU:HD12	1:H:68:MET:N	1.93	0.82
1:H:93:GLU:CB	1:H:94:PRO:HD3	2.06	0.82
1:H:186:ASP:O	1:H:188:ALA:N	2.11	0.82
1:H:399:LEU:HD23	1:H:402:GLU:HB2	1.61	0.82
1:J:23:ASP:HB3	1:J:28:GLU:HA	1.60	0.82
1:J:67:LEU:HD12	1:J:68:MET:N	1.93	0.82
1:J:360:PHE:N	1:J:361:PRO:HD2	1.89	0.82
1:K:14:VAL:C	1:K:15:LYS:HD2	1.99	0.82
1:K:183:PRO:O	1:K:184:PRO:C	2.14	0.82
1:A:183:PRO:O	1:A:184:PRO:C	2.14	0.82
1:B:14:VAL:C	1:B:15:LYS:HD2	2.00	0.82
1:D:118:THR:OG1	1:D:120:ILE:HG13	1.79	0.82
1:D:281:LEU:H	1:D:281:LEU:CD1	1.92	0.82
1:D:360:PHE:N	1:D:361:PRO:HD2	1.89	0.82
1:E:338:ASN:HD21	1:E:395:ASN:H	1.21	0.82
1:G:399:LEU:HD23	1:G:402:GLU:HB2	1.61	0.82
1:I:90:ASP:C	1:I:91:ILE:O	2.12	0.82
1:J:92:LEU:HG	1:J:93:GLU:CB	2.05	0.82
1:J:118:THR:OG1	1:J:120:ILE:HG13	1.79	0.82
1:K:105:ARG:NH2	1:K:233:ASP:OD1	2.12	0.82
1:L:306:LYS:CG	1:L:411:ALA:HB2	2.08	0.82
1:A:182:VAL:HG11	1:F:28:GLU:HG3	1.57	0.82
1:B:118:THR:OG1	1:B:120:ILE:HG13	1.79	0.82
1:D:92:LEU:HG	1:D:93:GLU:CB	2.06	0.82
1:E:118:THR:OG1	1:E:120:ILE:HG13	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:399:LEU:HD23	1:E:402:GLU:HB2	1.61	0.82
1:F:67:LEU:HD12	1:F:68:MET:N	1.93	0.82
1:G:14:VAL:C	1:G:15:LYS:HD2	1.99	0.82
1:I:14:VAL:C	1:I:15:LYS:HD2	1.99	0.82
1:I:338:ASN:HD21	1:I:395:ASN:H	1.21	0.82
1:J:18:ASP:HA	1:J:21:PHE:CZ	2.14	0.82
1:J:189:GLN:O	1:J:191:ILE:N	2.11	0.82
1:J:281:LEU:H	1:J:281:LEU:CD1	1.92	0.82
1:K:318:SER:O	1:K:321:ARG:HG2	1.79	0.82
1:L:118:THR:OG1	1:L:120:ILE:HG13	1.79	0.82
1:B:306:LYS:CG	1:B:411:ALA:HB2	2.09	0.82
1:C:23:ASP:HB3	1:C:28:GLU:HA	1.60	0.82
1:D:18:ASP:HA	1:D:21:PHE:CZ	2.15	0.82
1:E:14:VAL:C	1:E:15:LYS:HD2	2.00	0.82
1:E:318:SER:O	1:E:321:ARG:HG2	1.79	0.82
1:F:399:LEU:HD23	1:F:402:GLU:HB2	1.61	0.82
1:I:118:THR:OG1	1:I:120:ILE:HG13	1.79	0.82
1:I:189:GLN:O	1:I:191:ILE:N	2.11	0.82
1:I:318:SER:O	1:I:321:ARG:HG2	1.79	0.82
1:I:399:LEU:HD23	1:I:402:GLU:HB2	1.61	0.82
1:J:180:PHE:N	1:J:181:PRO:HD3	1.93	0.82
1:L:65:MET:HA	1:L:65:MET:CE	2.09	0.82
1:A:14:VAL:C	1:A:15:LYS:HD2	2.00	0.82
1:A:65:MET:HA	1:A:65:MET:CE	2.08	0.82
1:B:65:MET:HA	1:B:65:MET:CE	2.09	0.82
1:C:118:THR:OG1	1:C:120:ILE:HG13	1.79	0.82
1:D:67:LEU:HD12	1:D:68:MET:N	1.93	0.82
1:D:75:VAL:HG23	1:D:84:THR:CG2	2.08	0.82
1:E:105:ARG:NH2	1:E:233:ASP:OD1	2.12	0.82
1:E:189:GLN:O	1:E:191:ILE:N	2.12	0.82
1:F:93:GLU:CB	1:F:94:PRO:HD3	2.06	0.82
1:F:186:ASP:O	1:F:188:ALA:N	2.11	0.82
1:F:189:GLN:O	1:F:191:ILE:N	2.11	0.82
1:G:175:VAL:H	1:G:215:THR:CG2	1.86	0.82
1:H:19:LEU:HD12	1:H:20:ARG:N	1.95	0.82
1:H:20:ARG:HH12	1:H:86:ILE:HG23	1.36	0.82
1:H:105:ARG:NH2	1:H:233:ASP:OD1	2.12	0.82
1:J:75:VAL:HG23	1:J:84:THR:CG2	2.08	0.82
1:L:421:LEU:HD22	1:L:443:ILE:HD11	1.58	0.82
1:A:186:ASP:O	1:A:188:ALA:N	2.11	0.82
1:A:306:LYS:CG	1:A:411:ALA:HB2	2.08	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:189:GLN:O	1:D:191:ILE:N	2.12	0.82
1:E:67:LEU:HD12	1:E:68:MET:N	1.93	0.82
1:F:105:ARG:NH2	1:F:233:ASP:OD1	2.12	0.82
1:G:19:LEU:CD1	1:G:240:TYR:CE1	2.61	0.82
1:G:65:MET:HA	1:G:65:MET:CE	2.09	0.82
1:G:182:VAL:HG11	1:H:28:GLU:HG3	1.57	0.82
1:G:186:ASP:O	1:G:188:ALA:N	2.11	0.82
1:G:306:LYS:CG	1:G:411:ALA:HB2	2.08	0.82
1:I:67:LEU:HD12	1:I:68:MET:N	1.93	0.82
1:J:92:LEU:CG	1:J:93:GLU:HB2	2.06	0.82
1:K:23:ASP:HB3	1:K:28:GLU:HA	1.60	0.82
1:K:118:THR:OG1	1:K:120:ILE:HG13	1.79	0.82
1:K:376:MET:HE3	1:K:433:VAL:CG2	2.10	0.82
1:L:347:VAL:HG22	1:L:348:VAL:H	1.45	0.82
1:A:19:LEU:CD1	1:A:240:TYR:CE1	2.61	0.82
1:B:120:ILE:CG2	1:B:382:ILE:CG2	2.46	0.82
1:D:18:ASP:CG	1:D:19:LEU:N	2.28	0.82
1:E:120:ILE:CG2	1:E:382:ILE:CG2	2.46	0.82
1:F:19:LEU:HD12	1:F:20:ARG:N	1.95	0.82
1:H:189:GLN:O	1:H:191:ILE:N	2.11	0.82
1:J:105:ARG:NH2	1:J:233:ASP:OD1	2.12	0.82
1:J:318:SER:O	1:J:321:ARG:HG2	1.79	0.82
1:K:347:VAL:HG22	1:K:348:VAL:H	1.44	0.82
1:B:228:MET:HE2	1:B:371:PHE:HB3	1.61	0.82
1:B:421:LEU:HD22	1:B:443:ILE:HD11	1.58	0.82
1:D:58:LYS:HG3	1:E:339:ARG:HB3	1.60	0.82
1:D:376:MET:HE1	1:D:433:VAL:CG1	2.06	0.82
1:E:18:ASP:HA	1:E:21:PHE:CZ	2.15	0.82
1:E:23:ASP:HB3	1:E:28:GLU:HA	1.60	0.82
1:F:65:MET:HA	1:F:65:MET:CE	2.08	0.82
1:G:58:LYS:HG3	1:L:339:ARG:HB3	1.60	0.82
1:I:105:ARG:NH2	1:I:233:ASP:OD1	2.12	0.82
1:I:184:PRO:HD3	1:J:244:ASN:OD1	1.80	0.82
1:I:339:ARG:HB3	1:J:58:LYS:HG3	1.60	0.82
1:A:175:VAL:H	1:A:215:THR:CG2	1.86	0.82
1:B:244:ASN:OD1	1:C:184:PRO:HD3	1.80	0.82
1:C:9:LEU:HD12	1:C:14:VAL:HG21	1.61	0.82
1:D:244:ASN:OD1	1:E:184:PRO:HD3	1.80	0.82
1:D:318:SER:O	1:D:321:ARG:HG2	1.79	0.82
1:G:19:LEU:HD12	1:G:20:ARG:N	1.95	0.82
1:I:18:ASP:HA	1:I:21:PHE:CZ	2.15	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:9:LEU:HD12	1:K:14:VAL:HG21	1.62	0.82
1:K:184:PRO:HD3	1:L:244:ASN:OD1	1.80	0.82
1:A:19:LEU:HD12	1:A:20:ARG:N	1.95	0.82
1:C:93:GLU:CB	1:C:94:PRO:HD3	2.06	0.82
1:C:163:LYS:HZ2	1:C:163:LYS:HB2	1.45	0.82
1:C:347:VAL:HG22	1:C:348:VAL:H	1.45	0.82
1:D:105:ARG:NH2	1:D:233:ASP:OD1	2.12	0.82
1:F:318:SER:O	1:F:321:ARG:HG2	1.79	0.82
1:F:403:GLU:HB3	1:F:406:GLU:HB3	1.62	0.82
1:G:92:LEU:CG	1:G:93:GLU:HB2	2.06	0.82
1:H:65:MET:HA	1:H:65:MET:CE	2.09	0.82
1:H:403:GLU:HB3	1:H:406:GLU:HB3	1.62	0.82
1:I:23:ASP:HB3	1:I:28:GLU:HA	1.60	0.82
1:K:19:LEU:CD1	1:K:240:TYR:CE1	2.61	0.82
1:L:19:LEU:CD1	1:L:240:TYR:CE1	2.61	0.82
1:L:163:LYS:HB2	1:L:163:LYS:HZ2	1.45	0.82
1:B:19:LEU:CD1	1:B:240:TYR:CE1	2.62	0.81
1:C:19:LEU:CD1	1:C:240:TYR:CE1	2.61	0.81
1:C:466:TYR:HH	1:I:252:THR:HG21	0.74	0.81
1:E:19:LEU:HD12	1:E:20:ARG:N	1.95	0.81
1:E:276:LYS:C	1:E:276:LYS:HD2	2.00	0.81
1:G:182:VAL:CG1	1:H:28:GLU:HG2	2.10	0.81
1:I:276:LYS:C	1:I:276:LYS:HD2	2.00	0.81
1:K:18:ASP:HA	1:K:21:PHE:CZ	2.15	0.81
1:K:163:LYS:HZ2	1:K:163:LYS:HB2	1.45	0.81
1:L:120:ILE:CG2	1:L:382:ILE:CG2	2.46	0.81
1:A:58:LYS:HG3	1:B:339:ARG:HB3	1.60	0.81
1:A:92:LEU:CG	1:A:93:GLU:HB2	2.06	0.81
1:C:92:LEU:HG	1:C:93:GLU:CB	2.05	0.81
1:C:244:ASN:OD1	1:D:184:PRO:HD3	1.80	0.81
1:E:28:GLU:HG3	1:F:182:VAL:HG11	1.57	0.81
1:G:18:ASP:HA	1:G:21:PHE:CZ	2.14	0.81
1:H:19:LEU:CD1	1:H:20:ARG:HB2	2.10	0.81
1:H:318:SER:O	1:H:321:ARG:HG2	1.79	0.81
1:I:120:ILE:CG2	1:I:382:ILE:CG2	2.46	0.81
1:I:126:PHE:CD1	1:I:228:MET:HB3	2.16	0.81
1:J:18:ASP:CG	1:J:19:LEU:N	2.29	0.81
1:A:18:ASP:HA	1:A:21:PHE:CZ	2.15	0.81
1:B:281:LEU:N	1:B:281:LEU:CD1	2.43	0.81
1:C:18:ASP:HA	1:C:21:PHE:CZ	2.15	0.81
1:D:289:GLY:HA3	1:D:354:ARG:HE	1.46	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:126:PHE:CD1	1:E:228:MET:HB3	2.16	0.81
1:E:252:THR:HG21	1:K:466:TYR:HH	0.73	0.81
1:F:19:LEU:CD1	1:F:20:ARG:HB2	2.11	0.81
1:H:182:VAL:HG11	1:I:28:GLU:HG3	1.57	0.81
1:I:281:LEU:N	1:I:281:LEU:CD1	2.43	0.81
1:J:19:LEU:CD1	1:J:20:ARG:HB2	2.11	0.81
1:J:184:PRO:HD3	1:K:244:ASN:OD1	1.80	0.81
1:J:289:GLY:HA3	1:J:354:ARG:HE	1.46	0.81
1:J:376:MET:HE1	1:J:433:VAL:CG1	2.06	0.81
1:K:92:LEU:HG	1:K:93:GLU:CB	2.06	0.81
1:K:281:LEU:N	1:K:281:LEU:CD1	2.43	0.81
1:L:296:TYR:CB	1:L:382:ILE:HA	2.11	0.81
1:A:19:LEU:CD1	1:A:20:ARG:HB2	2.11	0.81
1:A:126:PHE:CD1	1:A:228:MET:HB3	2.16	0.81
1:A:182:VAL:CG1	1:F:28:GLU:HG2	2.10	0.81
1:B:58:LYS:HD3	1:B:59:GLY:N	1.95	0.81
1:B:92:LEU:N	1:B:97:LEU:H	1.79	0.81
1:B:296:TYR:CB	1:B:382:ILE:HA	2.11	0.81
1:C:281:LEU:N	1:C:281:LEU:CD1	2.44	0.81
1:D:19:LEU:HD12	1:D:20:ARG:N	1.95	0.81
1:D:19:LEU:CD1	1:D:20:ARG:HB2	2.11	0.81
1:E:281:LEU:N	1:E:281:LEU:CD1	2.44	0.81
1:F:281:LEU:N	1:F:281:LEU:CD1	2.43	0.81
1:G:126:PHE:CD1	1:G:228:MET:HB3	2.16	0.81
1:H:126:PHE:CD1	1:H:228:MET:HB3	2.16	0.81
1:H:281:LEU:N	1:H:281:LEU:CD1	2.44	0.81
1:H:296:TYR:CB	1:H:382:ILE:HA	2.11	0.81
1:I:19:LEU:HD12	1:I:20:ARG:N	1.95	0.81
1:J:76:ILE:CD1	1:J:202:MET:CE	2.48	0.81
1:L:281:LEU:N	1:L:281:LEU:CD1	2.43	0.81
1:A:118:THR:OG1	1:A:120:ILE:HG13	1.79	0.81
1:B:183:PRO:O	1:B:185:VAL:N	2.14	0.81
1:C:92:LEU:N	1:C:97:LEU:H	1.79	0.81
1:E:58:LYS:HD3	1:E:59:GLY:N	1.95	0.81
1:E:296:TYR:CB	1:E:382:ILE:HA	2.11	0.81
1:F:126:PHE:CD1	1:F:228:MET:HB3	2.16	0.81
1:F:296:TYR:CB	1:F:382:ILE:HA	2.11	0.81
1:J:19:LEU:HD12	1:J:20:ARG:N	1.95	0.81
1:J:182:VAL:CG1	1:K:28:GLU:HG2	2.10	0.81
1:L:58:LYS:HD3	1:L:59:GLY:N	1.96	0.81
1:A:318:SER:O	1:A:321:ARG:HG2	1.79	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:19:LEU:HD12	1:B:20:ARG:N	1.95	0.81
1:B:189:GLN:O	1:B:191:ILE:N	2.12	0.81
1:E:19:LEU:CD1	1:E:20:ARG:HB2	2.11	0.81
1:G:9:LEU:HD12	1:G:14:VAL:HG21	1.61	0.81
1:G:19:LEU:CD1	1:G:20:ARG:HB2	2.11	0.81
1:G:118:THR:OG1	1:G:120:ILE:HG13	1.79	0.81
1:G:175:VAL:O	1:G:177:GLY:N	2.14	0.81
1:G:244:ASN:OD1	1:L:184:PRO:HD3	1.80	0.81
1:H:14:VAL:C	1:H:15:LYS:HD2	2.00	0.81
1:H:276:LYS:HD2	1:H:276:LYS:C	2.00	0.81
1:I:19:LEU:CD1	1:I:20:ARG:HB2	2.10	0.81
1:J:136:ASP:H	1:J:153:ASP:HB2	1.46	0.81
1:J:399:LEU:HD23	1:J:402:GLU:HB2	1.61	0.81
1:L:92:LEU:N	1:L:97:LEU:H	1.79	0.81
1:A:347:VAL:HG22	1:A:348:VAL:H	1.44	0.81
1:B:9:LEU:HD12	1:B:14:VAL:HG21	1.61	0.81
1:B:103:ASP:N	1:B:104:PRO:HD3	1.96	0.81
1:B:281:LEU:H	1:B:281:LEU:CD1	1.92	0.81
1:B:289:GLY:HA3	1:B:354:ARG:HE	1.45	0.81
1:C:19:LEU:HD12	1:C:20:ARG:N	1.95	0.81
1:C:28:GLU:HG2	1:D:182:VAL:CG1	2.10	0.81
1:C:306:LYS:CG	1:C:411:ALA:HB2	2.08	0.81
1:D:90:ASP:C	1:D:91:ILE:O	2.11	0.81
1:D:136:ASP:H	1:D:153:ASP:HB2	1.46	0.81
1:D:399:LEU:HD23	1:D:402:GLU:HB2	1.61	0.81
1:F:14:VAL:C	1:F:15:LYS:HD2	2.00	0.81
1:F:289:GLY:HA3	1:F:354:ARG:HE	1.46	0.81
1:H:175:VAL:O	1:H:177:GLY:N	2.14	0.81
1:I:183:PRO:O	1:I:185:VAL:N	2.14	0.81
1:K:126:PHE:CD1	1:K:228:MET:HB3	2.16	0.81
1:K:306:LYS:CG	1:K:411:ALA:HB2	2.09	0.81
1:L:18:ASP:HA	1:L:21:PHE:CZ	2.15	0.81
1:L:19:LEU:HD12	1:L:20:ARG:N	1.95	0.81
1:L:175:VAL:H	1:L:215:THR:CG2	1.86	0.81
1:L:183:PRO:O	1:L:185:VAL:N	2.14	0.81
1:L:189:GLN:O	1:L:191:ILE:N	2.12	0.81
1:L:281:LEU:H	1:L:281:LEU:CD1	1.92	0.81
1:B:18:ASP:HA	1:B:21:PHE:CZ	2.15	0.81
1:B:175:VAL:O	1:B:177:GLY:N	2.14	0.81
1:C:126:PHE:CD1	1:C:228:MET:HB3	2.16	0.81
1:D:126:PHE:CD1	1:D:228:MET:HB3	2.16	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:175:VAL:O	1:E:177:GLY:N	2.14	0.81
1:F:276:LYS:C	1:F:276:LYS:HD2	2.00	0.81
1:H:289:GLY:HA3	1:H:354:ARG:HE	1.45	0.81
1:I:58:LYS:HD3	1:I:59:GLY:N	1.96	0.81
1:I:92:LEU:HG	1:I:93:GLU:CB	2.05	0.81
1:I:175:VAL:O	1:I:177:GLY:N	2.14	0.81
1:K:92:LEU:N	1:K:97:LEU:H	1.79	0.81
1:K:175:VAL:O	1:K:177:GLY:N	2.14	0.81
1:A:9:LEU:HD12	1:A:14:VAL:HG21	1.62	0.81
1:A:175:VAL:O	1:A:177:GLY:N	2.14	0.81
1:A:244:ASN:OD1	1:B:184:PRO:HD3	1.80	0.81
1:B:318:SER:O	1:B:321:ARG:HG2	1.79	0.81
1:B:399:LEU:HD23	1:B:402:GLU:HB2	1.61	0.81
1:C:175:VAL:O	1:C:177:GLY:N	2.14	0.81
1:D:175:VAL:O	1:D:177:GLY:N	2.14	0.81
1:F:175:VAL:O	1:F:177:GLY:N	2.14	0.81
1:G:281:LEU:H	1:G:281:LEU:CD1	1.92	0.81
1:G:403:GLU:HB3	1:G:406:GLU:HB3	1.62	0.81
1:I:182:VAL:CG1	1:J:28:GLU:HG2	2.10	0.81
1:I:296:TYR:CB	1:I:382:ILE:HA	2.11	0.81
1:L:93:GLU:CB	1:L:94:PRO:HD3	2.06	0.81
1:L:399:LEU:HD23	1:L:402:GLU:HB2	1.61	0.81
1:B:403:GLU:HB3	1:B:406:GLU:HB3	1.62	0.81
1:E:9:LEU:HD12	1:E:14:VAL:HG21	1.61	0.81
1:E:28:GLU:HG2	1:F:182:VAL:CG1	2.10	0.81
1:E:183:PRO:O	1:E:185:VAL:N	2.14	0.81
1:E:362:ASP:O	1:E:364:ALA:N	2.14	0.81
1:G:318:SER:O	1:G:321:ARG:HG2	1.79	0.81
1:G:347:VAL:HG22	1:G:348:VAL:H	1.45	0.81
1:H:23:ASP:HB3	1:H:28:GLU:HA	1.59	0.81
1:H:182:VAL:CG1	1:I:28:GLU:HG2	2.10	0.81
1:J:126:PHE:CD1	1:J:228:MET:HB3	2.16	0.81
1:K:19:LEU:HD12	1:K:20:ARG:N	1.95	0.81
1:K:276:LYS:HD2	1:K:276:LYS:C	2.00	0.81
1:K:296:TYR:CB	1:K:382:ILE:HA	2.11	0.81
1:L:9:LEU:HD12	1:L:14:VAL:HG21	1.61	0.81
1:L:103:ASP:N	1:L:104:PRO:HD3	1.96	0.81
1:L:175:VAL:O	1:L:177:GLY:N	2.14	0.81
1:L:318:SER:O	1:L:321:ARG:HG2	1.79	0.81
1:A:281:LEU:H	1:A:281:LEU:CD1	1.92	0.80
1:C:269:HIS:CD2	1:C:359:ARG:HB3	2.16	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:399:LEU:HD23	1:C:402:GLU:HB2	1.61	0.80
1:C:403:GLU:HB3	1:C:406:GLU:HB3	1.62	0.80
1:C:414:LEU:CD2	1:C:418:LEU:HG	2.12	0.80
1:D:28:GLU:HG2	1:E:182:VAL:CG1	2.10	0.80
1:D:76:ILE:CD1	1:D:202:MET:CE	2.48	0.80
1:F:18:ASP:HA	1:F:21:PHE:CZ	2.15	0.80
1:F:281:LEU:H	1:F:281:LEU:CD1	1.92	0.80
1:H:18:ASP:HA	1:H:21:PHE:CZ	2.14	0.80
1:H:269:HIS:CD2	1:H:359:ARG:HB3	2.16	0.80
1:I:9:LEU:HD12	1:I:14:VAL:HG21	1.62	0.80
1:J:90:ASP:C	1:J:91:ILE:O	2.11	0.80
1:J:175:VAL:O	1:J:177:GLY:N	2.14	0.80
1:K:269:HIS:CD2	1:K:359:ARG:HB3	2.16	0.80
1:L:126:PHE:CD1	1:L:228:MET:HB3	2.16	0.80
1:L:289:GLY:HA3	1:L:354:ARG:HE	1.46	0.80
1:A:90:ASP:C	1:A:91:ILE:O	2.12	0.80
1:A:403:GLU:HB3	1:A:406:GLU:HB3	1.62	0.80
1:B:269:HIS:CD2	1:B:359:ARG:HB3	2.16	0.80
1:C:276:LYS:HD2	1:C:276:LYS:C	2.00	0.80
1:C:289:GLY:HA3	1:C:354:ARG:HE	1.45	0.80
1:E:269:HIS:CD2	1:E:359:ARG:HB3	2.16	0.80
1:F:269:HIS:CD2	1:F:359:ARG:HB3	2.16	0.80
1:G:28:GLU:HG2	1:L:182:VAL:CG1	2.10	0.80
1:H:281:LEU:H	1:H:281:LEU:CD1	1.92	0.80
1:I:362:ASP:O	1:I:364:ALA:N	2.14	0.80
1:J:92:LEU:HB3	1:J:97:LEU:H	1.47	0.80
1:K:136:ASP:H	1:K:153:ASP:HB2	1.46	0.80
1:K:403:GLU:HB3	1:K:406:GLU:HB3	1.62	0.80
1:L:92:LEU:CG	1:L:93:GLU:HB2	2.06	0.80
1:A:28:GLU:HG2	1:B:182:VAL:CG1	2.10	0.80
1:A:92:LEU:N	1:A:97:LEU:H	1.79	0.80
1:B:93:GLU:CB	1:B:94:PRO:HD3	2.06	0.80
1:B:126:PHE:CD1	1:B:228:MET:HB3	2.16	0.80
1:B:175:VAL:H	1:B:215:THR:CG2	1.86	0.80
1:C:136:ASP:H	1:C:153:ASP:HB2	1.46	0.80
1:C:296:TYR:CB	1:C:382:ILE:HA	2.11	0.80
1:D:183:PRO:O	1:D:185:VAL:N	2.14	0.80
1:E:92:LEU:HB3	1:E:97:LEU:H	1.47	0.80
1:I:269:HIS:CD2	1:I:359:ARG:HB3	2.16	0.80
1:J:183:PRO:O	1:J:185:VAL:N	2.14	0.80
1:K:289:GLY:HA3	1:K:354:ARG:HE	1.45	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:362:ASP:O	1:A:364:ALA:N	2.14	0.80
1:B:339:ARG:C	1:B:341:ALA:N	2.35	0.80
1:C:92:LEU:HB3	1:C:97:LEU:H	1.47	0.80
1:D:76:ILE:CD1	1:D:76:ILE:N	2.08	0.80
1:E:289:GLY:HA3	1:E:354:ARG:HE	1.45	0.80
1:G:90:ASP:C	1:G:91:ILE:O	2.12	0.80
1:G:92:LEU:N	1:G:97:LEU:H	1.79	0.80
1:H:86:ILE:N	1:H:86:ILE:CD1	2.44	0.80
1:H:183:PRO:O	1:H:185:VAL:N	2.14	0.80
1:I:92:LEU:HB3	1:I:97:LEU:H	1.47	0.80
1:L:269:HIS:CD2	1:L:359:ARG:HB3	2.16	0.80
1:B:19:LEU:CD1	1:B:20:ARG:HB2	2.10	0.80
1:B:92:LEU:CG	1:B:93:GLU:HB2	2.07	0.80
1:C:58:LYS:HD3	1:C:59:GLY:N	1.95	0.80
1:D:92:LEU:HB3	1:D:97:LEU:H	1.47	0.80
1:F:92:LEU:HB3	1:F:97:LEU:H	1.47	0.80
1:F:362:ASP:O	1:F:364:ALA:N	2.14	0.80
1:G:76:ILE:HD11	1:G:202:MET:HE3	1.61	0.80
1:G:362:ASP:O	1:G:364:ALA:N	2.14	0.80
1:H:9:LEU:HD12	1:H:14:VAL:HG21	1.62	0.80
1:H:41:GLU:O	1:H:45:GLU:N	2.13	0.80
1:H:184:PRO:HD3	1:I:244:ASN:OD1	1.80	0.80
1:J:76:ILE:CD1	1:J:76:ILE:N	2.08	0.80
1:J:92:LEU:N	1:J:97:LEU:H	1.79	0.80
1:K:58:LYS:HD3	1:K:59:GLY:N	1.95	0.80
1:K:399:LEU:HD23	1:K:402:GLU:HB2	1.61	0.80
1:L:19:LEU:CD1	1:L:20:ARG:HB2	2.11	0.80
1:L:339:ARG:C	1:L:341:ALA:N	2.35	0.80
1:A:183:PRO:O	1:A:185:VAL:N	2.14	0.80
1:A:296:TYR:CB	1:A:382:ILE:HA	2.11	0.80
1:A:414:LEU:CD2	1:A:418:LEU:HG	2.12	0.80
1:E:136:ASP:H	1:E:153:ASP:HB2	1.46	0.80
1:F:9:LEU:HD12	1:F:14:VAL:HG21	1.61	0.80
1:F:23:ASP:HB3	1:F:28:GLU:HA	1.60	0.80
1:F:86:ILE:N	1:F:86:ILE:CD1	2.44	0.80
1:G:281:LEU:N	1:G:281:LEU:CD1	2.44	0.80
1:H:92:LEU:HB3	1:H:97:LEU:H	1.47	0.80
1:H:362:ASP:O	1:H:364:ALA:N	2.14	0.80
1:I:281:LEU:H	1:I:281:LEU:CD1	1.92	0.80
1:J:306:LYS:CG	1:J:411:ALA:HB2	2.09	0.80
1:L:403:GLU:HB3	1:L:406:GLU:HB3	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:276:LYS:C	1:A:276:LYS:HD2	2.00	0.80
1:B:68:MET:SD	1:B:105:ARG:NH1	2.55	0.80
1:C:76:ILE:N	1:C:76:ILE:CD1	2.08	0.80
1:C:183:PRO:O	1:C:185:VAL:N	2.14	0.80
1:D:58:LYS:HD3	1:D:59:GLY:N	1.95	0.80
1:D:68:MET:SD	1:D:105:ARG:NH1	2.55	0.80
1:D:92:LEU:N	1:D:97:LEU:H	1.79	0.80
1:D:306:LYS:CG	1:D:411:ALA:HB2	2.08	0.80
1:F:41:GLU:O	1:F:45:GLU:N	2.13	0.80
1:F:49:PHE:HD2	1:F:49:PHE:H	1.29	0.80
1:F:183:PRO:O	1:F:185:VAL:N	2.14	0.80
1:G:183:PRO:O	1:G:185:VAL:N	2.14	0.80
1:G:276:LYS:HD2	1:G:276:LYS:C	2.00	0.80
1:G:289:GLY:HA3	1:G:354:ARG:HE	1.46	0.80
1:G:414:LEU:CD2	1:G:418:LEU:HG	2.12	0.80
1:I:136:ASP:H	1:I:153:ASP:HB2	1.46	0.80
1:J:269:HIS:CD2	1:J:359:ARG:HB3	2.16	0.80
1:K:68:MET:SD	1:K:105:ARG:NH1	2.55	0.80
1:K:76:ILE:N	1:K:76:ILE:CD1	2.08	0.80
1:K:92:LEU:HB3	1:K:97:LEU:H	1.47	0.80
1:K:183:PRO:O	1:K:185:VAL:N	2.14	0.80
1:K:339:ARG:H	1:L:58:LYS:CG	1.94	0.80
1:A:281:LEU:N	1:A:281:LEU:CD1	2.44	0.80
1:C:19:LEU:CD1	1:C:20:ARG:HB2	2.11	0.80
1:C:68:MET:SD	1:C:105:ARG:NH1	2.55	0.80
1:D:403:GLU:HB3	1:D:406:GLU:HB3	1.62	0.80
1:E:244:ASN:OD1	1:F:184:PRO:HD3	1.80	0.80
1:E:281:LEU:H	1:E:281:LEU:CD1	1.92	0.80
1:F:334:TYR:OH	1:F:389:GLY:O	2.00	0.80
1:H:92:LEU:N	1:H:97:LEU:H	1.79	0.80
1:H:175:VAL:H	1:H:215:THR:CG2	1.86	0.80
1:H:334:TYR:OH	1:H:389:GLY:O	2.00	0.80
1:I:289:GLY:HA3	1:I:354:ARG:HE	1.46	0.80
1:I:339:ARG:H	1:J:58:LYS:CG	1.94	0.80
1:J:68:MET:SD	1:J:105:ARG:NH1	2.55	0.80
1:J:276:LYS:C	1:J:276:LYS:HD2	2.00	0.80
1:K:19:LEU:CD1	1:K:20:ARG:HB2	2.11	0.80
1:K:156:GLY:HA3	1:K:216:ALA:HB2	1.64	0.80
1:A:20:ARG:CG	1:A:28:GLU:OE2	2.30	0.80
1:A:28:GLU:HG3	1:B:182:VAL:HG11	1.57	0.80
1:A:289:GLY:HA3	1:A:354:ARG:HE	1.45	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:335:SER:O	1:B:336:ALA:CB	2.30	0.80
1:C:156:GLY:HA3	1:C:216:ALA:HB2	1.64	0.80
1:G:49:PHE:HD2	1:G:49:PHE:H	1.29	0.80
1:G:156:GLY:HA3	1:G:216:ALA:HB2	1.64	0.80
1:G:184:PRO:HD3	1:H:244:ASN:OD1	1.80	0.80
1:G:296:TYR:CB	1:G:382:ILE:HA	2.11	0.80
1:H:20:ARG:CG	1:H:28:GLU:OE2	2.30	0.80
1:I:67:LEU:CD1	1:I:68:MET:H	1.95	0.80
1:I:334:TYR:OH	1:I:389:GLY:O	2.00	0.80
1:J:58:LYS:HD3	1:J:59:GLY:N	1.95	0.80
1:J:92:LEU:CB	1:J:97:LEU:H	1.95	0.80
1:J:296:TYR:CB	1:J:382:ILE:HA	2.11	0.80
1:A:49:PHE:HD2	1:A:49:PHE:H	1.29	0.80
1:A:156:GLY:HA3	1:A:216:ALA:HB2	1.64	0.80
1:A:269:HIS:CD2	1:A:359:ARG:HB3	2.16	0.80
1:B:58:LYS:CG	1:C:339:ARG:H	1.94	0.80
1:B:156:GLY:HA3	1:B:216:ALA:HB2	1.64	0.80
1:B:258:LYS:HB3	1:B:317:ASN:HD21	1.47	0.80
1:D:58:LYS:CG	1:E:339:ARG:H	1.94	0.80
1:D:269:HIS:CD2	1:D:359:ARG:HB3	2.16	0.80
1:D:296:TYR:CB	1:D:382:ILE:HA	2.11	0.80
1:E:315:THR:CG2	1:K:465:TYR:HD2	1.61	0.80
1:E:403:GLU:HB3	1:E:406:GLU:HB3	1.63	0.80
1:F:20:ARG:CG	1:F:28:GLU:OE2	2.30	0.80
1:G:20:ARG:CG	1:G:28:GLU:OE2	2.30	0.80
1:H:156:GLY:HA3	1:H:216:ALA:HB2	1.64	0.80
1:L:68:MET:SD	1:L:105:ARG:NH1	2.55	0.80
1:L:156:GLY:HA3	1:L:216:ALA:HB2	1.64	0.80
1:D:276:LYS:HD2	1:D:276:LYS:C	2.00	0.79
1:E:67:LEU:CD1	1:E:68:MET:H	1.95	0.79
1:E:92:LEU:CB	1:E:97:LEU:H	1.96	0.79
1:E:334:TYR:OH	1:E:389:GLY:O	2.00	0.79
1:G:258:LYS:HB3	1:G:317:ASN:HD21	1.47	0.79
1:H:49:PHE:H	1:H:49:PHE:HD2	1.29	0.79
1:I:92:LEU:CB	1:I:97:LEU:H	1.96	0.79
1:I:403:GLU:HB3	1:I:406:GLU:HB3	1.62	0.79
1:J:403:GLU:HB3	1:J:406:GLU:HB3	1.63	0.79
1:L:335:SER:O	1:L:336:ALA:CB	2.31	0.79
1:C:465:TYR:HD2	1:I:315:THR:CG2	1.61	0.79
1:D:92:LEU:CB	1:D:97:LEU:H	1.96	0.79
1:D:362:ASP:O	1:D:364:ALA:N	2.14	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:92:LEU:N	1:F:97:LEU:H	1.79	0.79
1:G:334:TYR:OH	1:G:389:GLY:O	2.00	0.79
1:I:16:PHE:HA	1:I:33:ILE:O	1.83	0.79
1:I:68:MET:SD	1:I:105:ARG:NH1	2.55	0.79
1:I:92:LEU:N	1:I:97:LEU:H	1.79	0.79
1:I:156:GLY:HA3	1:I:216:ALA:HB2	1.64	0.79
1:J:9:LEU:HD12	1:J:14:VAL:HG21	1.61	0.79
1:J:281:LEU:N	1:J:281:LEU:CD1	2.44	0.79
1:K:335:SER:O	1:K:336:ALA:CB	2.30	0.79
1:L:27:LYS:HZ2	1:L:239:LYS:CE	1.95	0.79
1:L:258:LYS:HB3	1:L:317:ASN:HD21	1.47	0.79
1:L:362:ASP:O	1:L:364:ALA:N	2.14	0.79
1:A:92:LEU:HB3	1:A:97:LEU:H	1.47	0.79
1:A:163:LYS:HB2	1:A:163:LYS:HZ2	1.46	0.79
1:A:184:PRO:HD3	1:F:244:ASN:OD1	1.80	0.79
1:A:334:TYR:OH	1:A:389:GLY:O	2.00	0.79
1:B:376:MET:HE3	1:B:433:VAL:CG2	2.12	0.79
1:C:335:SER:O	1:C:336:ALA:CB	2.31	0.79
1:E:16:PHE:HA	1:E:33:ILE:O	1.83	0.79
1:E:68:MET:SD	1:E:105:ARG:NH1	2.55	0.79
1:E:156:GLY:HA3	1:E:216:ALA:HB2	1.64	0.79
1:G:28:GLU:HG3	1:L:182:VAL:HG11	1.57	0.79
1:H:68:MET:SD	1:H:105:ARG:NH1	2.55	0.79
1:I:68:MET:SD	1:I:105:ARG:CZ	2.71	0.79
1:I:306:LYS:CG	1:I:411:ALA:HB2	2.08	0.79
1:J:362:ASP:O	1:J:364:ALA:N	2.14	0.79
1:L:92:LEU:HB3	1:L:97:LEU:H	1.47	0.79
1:A:103:ASP:N	1:A:104:PRO:HD3	1.96	0.79
1:B:92:LEU:HB3	1:B:97:LEU:H	1.47	0.79
1:B:362:ASP:O	1:B:364:ALA:N	2.14	0.79
1:C:362:ASP:O	1:C:364:ALA:N	2.14	0.79
1:E:258:LYS:HB3	1:E:317:ASN:HD21	1.47	0.79
1:E:306:LYS:CG	1:E:411:ALA:HB2	2.09	0.79
1:F:376:MET:HE1	1:F:433:VAL:CG1	2.11	0.79
1:G:78:PRO:CB	1:G:79:PHE:CE2	2.64	0.79
1:G:92:LEU:HB3	1:G:97:LEU:H	1.47	0.79
1:G:103:ASP:N	1:G:104:PRO:HD3	1.96	0.79
1:G:269:HIS:CD2	1:G:359:ARG:HB3	2.17	0.79
1:G:335:SER:O	1:G:336:ALA:CB	2.30	0.79
1:I:258:LYS:HB3	1:I:317:ASN:HD21	1.47	0.79
1:I:414:LEU:CD2	1:I:418:LEU:HG	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:92:LEU:CG	1:K:93:GLU:HB2	2.06	0.79
1:K:383:LYS:HE3	1:K:384:ASN:N	1.98	0.79
1:A:78:PRO:CB	1:A:79:PHE:CE2	2.64	0.79
1:A:258:LYS:HB3	1:A:317:ASN:HD21	1.47	0.79
1:A:462:PHE:CD1	1:G:149:VAL:HG21	2.18	0.79
1:B:276:LYS:C	1:B:276:LYS:HD2	2.00	0.79
1:C:383:LYS:HE3	1:C:384:ASN:N	1.98	0.79
1:D:281:LEU:N	1:D:281:LEU:CD1	2.44	0.79
1:E:294:ALA:O	1:E:298:ILE:HD12	1.83	0.79
1:F:92:LEU:CB	1:F:97:LEU:H	1.95	0.79
1:F:156:GLY:HA3	1:F:216:ALA:HB2	1.64	0.79
1:F:175:VAL:H	1:F:215:THR:CG2	1.86	0.79
1:H:92:LEU:CB	1:H:97:LEU:H	1.95	0.79
1:I:294:ALA:O	1:I:298:ILE:HD12	1.83	0.79
1:K:68:MET:SD	1:K:105:ARG:CZ	2.71	0.79
1:L:276:LYS:HD2	1:L:276:LYS:C	2.00	0.79
1:A:331:MET:HE2	1:A:396:LEU:HD12	1.64	0.79
1:A:335:SER:O	1:A:336:ALA:CB	2.30	0.79
1:C:68:MET:SD	1:C:105:ARG:CZ	2.71	0.79
1:C:92:LEU:CG	1:C:93:GLU:HB2	2.06	0.79
1:D:9:LEU:HD12	1:D:14:VAL:HG21	1.62	0.79
1:E:68:MET:SD	1:E:105:ARG:CZ	2.71	0.79
1:E:414:LEU:CD2	1:E:418:LEU:HG	2.11	0.79
1:F:67:LEU:CD1	1:F:68:MET:H	1.95	0.79
1:F:68:MET:SD	1:F:105:ARG:NH1	2.55	0.79
1:G:331:MET:HE2	1:G:396:LEU:HD12	1.63	0.79
1:H:67:LEU:CD1	1:H:68:MET:H	1.95	0.79
1:J:68:MET:SD	1:J:105:ARG:CZ	2.71	0.79
1:J:156:GLY:HA3	1:J:216:ALA:HB2	1.64	0.79
1:J:383:LYS:HE3	1:J:384:ASN:N	1.98	0.79
1:L:49:PHE:H	1:L:49:PHE:HD2	1.29	0.79
1:A:149:VAL:HG21	1:G:462:PHE:CD1	2.18	0.79
1:B:149:VAL:HG21	1:H:462:PHE:CD1	2.18	0.79
1:B:315:THR:CG2	1:H:465:TYR:HD2	1.61	0.79
1:C:149:VAL:HG21	1:I:462:PHE:CD1	2.18	0.79
1:D:68:MET:SD	1:D:105:ARG:CZ	2.71	0.79
1:D:156:GLY:HA3	1:D:216:ALA:HB2	1.64	0.79
1:D:383:LYS:HE3	1:D:384:ASN:N	1.98	0.79
1:F:78:PRO:CB	1:F:79:PHE:CE2	2.64	0.79
1:F:462:PHE:CD1	1:L:149:VAL:HG21	2.18	0.79
1:G:92:LEU:CB	1:G:97:LEU:H	1.95	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:339:ARG:H	1:H:58:LYS:CG	1.94	0.79
1:J:334:TYR:OH	1:J:389:GLY:O	2.00	0.79
1:L:20:ARG:CG	1:L:28:GLU:OE2	2.30	0.79
1:A:68:MET:SD	1:A:105:ARG:NH1	2.55	0.79
1:B:28:GLU:HG2	1:C:182:VAL:CG1	2.10	0.79
1:B:462:PHE:CD1	1:H:149:VAL:HG21	2.18	0.79
1:D:334:TYR:OH	1:D:389:GLY:O	2.00	0.79
1:E:20:ARG:CG	1:E:28:GLU:OE2	2.30	0.79
1:E:462:PHE:CD1	1:K:149:VAL:HG21	2.18	0.79
1:F:149:VAL:HG21	1:L:462:PHE:CD1	2.18	0.79
1:G:68:MET:SD	1:G:105:ARG:NH1	2.55	0.79
1:H:68:MET:SD	1:H:105:ARG:CZ	2.71	0.79
1:H:78:PRO:CB	1:H:79:PHE:CE2	2.64	0.79
1:I:41:GLU:O	1:I:45:GLU:N	2.13	0.79
1:J:347:VAL:HG22	1:J:348:VAL:H	1.45	0.79
1:K:122:ASP:OD1	1:K:122:ASP:O	2.01	0.79
1:K:182:VAL:CG1	1:L:28:GLU:HG2	2.10	0.79
1:L:92:LEU:CB	1:L:97:LEU:H	1.96	0.79
1:L:136:ASP:H	1:L:153:ASP:HB2	1.46	0.79
1:B:67:LEU:O	1:B:68:MET:C	2.22	0.79
1:B:136:ASP:H	1:B:153:ASP:HB2	1.46	0.79
1:B:414:LEU:CD2	1:B:418:LEU:HG	2.12	0.79
1:C:122:ASP:OD1	1:C:122:ASP:O	2.01	0.79
1:D:335:SER:O	1:D:336:ALA:CB	2.30	0.79
1:E:92:LEU:N	1:E:97:LEU:H	1.79	0.79
1:F:383:LYS:HE3	1:F:384:ASN:N	1.98	0.79
1:I:20:ARG:CG	1:I:28:GLU:OE2	2.30	0.79
1:L:67:LEU:O	1:L:68:MET:C	2.22	0.79
1:A:92:LEU:CB	1:A:97:LEU:H	1.95	0.79
1:A:339:ARG:H	1:F:58:LYS:CG	1.94	0.79
1:B:20:ARG:CG	1:B:28:GLU:OE2	2.30	0.79
1:B:49:PHE:HD2	1:B:49:PHE:H	1.29	0.79
1:B:92:LEU:CB	1:B:97:LEU:H	1.95	0.79
1:C:16:PHE:HA	1:C:33:ILE:O	1.83	0.79
1:C:20:ARG:CG	1:C:28:GLU:OE2	2.30	0.79
1:C:465:TYR:HB2	1:I:315:THR:OG1	1.83	0.79
1:D:16:PHE:HA	1:D:33:ILE:O	1.83	0.79
1:D:347:VAL:HG22	1:D:348:VAL:H	1.45	0.79
1:F:67:LEU:O	1:F:68:MET:C	2.22	0.79
1:F:68:MET:SD	1:F:105:ARG:CZ	2.71	0.79
1:F:294:ALA:O	1:F:298:ILE:HD12	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:67:LEU:O	1:H:68:MET:C	2.22	0.79
1:H:72:SER:C	1:H:73:THR:HG22	2.04	0.79
1:I:93:GLU:CB	1:I:94:PRO:HD3	2.06	0.79
1:I:122:ASP:O	1:I:122:ASP:OD1	2.01	0.79
1:K:16:PHE:HA	1:K:33:ILE:O	1.83	0.79
1:K:20:ARG:CG	1:K:28:GLU:OE2	2.30	0.79
1:K:258:LYS:CB	1:K:317:ASN:HD21	1.96	0.79
1:K:362:ASP:O	1:K:364:ALA:N	2.14	0.79
1:L:414:LEU:CD2	1:L:418:LEU:HG	2.12	0.79
1:C:258:LYS:CB	1:C:317:ASN:HD21	1.97	0.78
1:D:258:LYS:HB3	1:D:317:ASN:HD21	1.47	0.78
1:E:41:GLU:O	1:E:45:GLU:N	2.13	0.78
1:E:122:ASP:O	1:E:122:ASP:OD1	2.01	0.78
1:E:315:THR:OG1	1:K:465:TYR:HB2	1.83	0.78
1:F:465:TYR:HD2	1:L:315:THR:CG2	1.61	0.78
1:G:122:ASP:OD1	1:G:122:ASP:O	2.01	0.78
1:H:306:LYS:CG	1:H:411:ALA:HB2	2.08	0.78
1:H:383:LYS:HE3	1:H:384:ASN:N	1.98	0.78
1:I:339:ARG:C	1:I:341:ALA:N	2.35	0.78
1:J:16:PHE:HA	1:J:33:ILE:O	1.83	0.78
1:J:41:GLU:O	1:J:45:GLU:N	2.13	0.78
1:J:335:SER:O	1:J:336:ALA:CB	2.30	0.78
1:K:258:LYS:HB3	1:K:317:ASN:HD21	1.47	0.78
1:A:72:SER:C	1:A:73:THR:HG22	2.04	0.78
1:C:258:LYS:HB3	1:C:317:ASN:HD21	1.47	0.78
1:E:339:ARG:C	1:E:341:ALA:N	2.35	0.78
1:F:3:GLU:HA	1:F:3:GLU:OE1	1.84	0.78
1:F:122:ASP:O	1:F:122:ASP:OD1	2.01	0.78
1:H:3:GLU:HA	1:H:3:GLU:OE1	1.84	0.78
1:H:122:ASP:O	1:H:122:ASP:OD1	2.01	0.78
1:J:122:ASP:O	1:J:122:ASP:OD1	2.01	0.78
1:J:258:LYS:HB3	1:J:317:ASN:HD21	1.47	0.78
1:J:294:ALA:O	1:J:298:ILE:HD12	1.83	0.78
1:K:67:LEU:CD1	1:K:68:MET:H	1.95	0.78
1:A:122:ASP:O	1:A:122:ASP:OD1	2.01	0.78
1:A:383:LYS:HE3	1:A:384:ASN:N	1.98	0.78
1:B:3:GLU:HA	1:B:3:GLU:OE1	1.84	0.78
1:B:68:MET:SD	1:B:105:ARG:CZ	2.71	0.78
1:B:280:ASN:C	1:B:282:PHE:H	1.86	0.78
1:D:41:GLU:O	1:D:45:GLU:N	2.13	0.78
1:D:122:ASP:O	1:D:122:ASP:OD1	2.01	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:315:THR:OG1	1:J:465:TYR:HB2	1.83	0.78
1:F:72:SER:C	1:F:73:THR:HG22	2.04	0.78
1:F:200:GLU:O	1:F:203:GLY:N	2.17	0.78
1:G:67:LEU:CD1	1:G:68:MET:H	1.95	0.78
1:G:383:LYS:HE3	1:G:384:ASN:N	1.98	0.78
1:H:258:LYS:HB3	1:H:317:ASN:HD21	1.47	0.78
1:H:294:ALA:O	1:H:298:ILE:HD12	1.83	0.78
1:I:72:SER:C	1:I:73:THR:HG22	2.04	0.78
1:L:3:GLU:HA	1:L:3:GLU:OE1	1.84	0.78
1:L:258:LYS:CB	1:L:317:ASN:HD21	1.96	0.78
1:L:334:TYR:OH	1:L:389:GLY:O	2.00	0.78
1:B:258:LYS:CB	1:B:317:ASN:HD21	1.97	0.78
1:B:334:TYR:OH	1:B:389:GLY:O	2.00	0.78
1:D:294:ALA:O	1:D:298:ILE:HD12	1.83	0.78
1:D:465:TYR:HB2	1:J:315:THR:OG1	1.83	0.78
1:E:93:GLU:CB	1:E:94:PRO:HD3	2.06	0.78
1:F:258:LYS:HB3	1:F:317:ASN:HD21	1.48	0.78
1:G:72:SER:C	1:G:73:THR:HG22	2.04	0.78
1:L:68:MET:SD	1:L:105:ARG:CZ	2.71	0.78
1:L:122:ASP:O	1:L:122:ASP:OD1	2.01	0.78
1:A:78:PRO:HB3	1:A:79:PHE:CD2	2.19	0.78
1:B:122:ASP:O	1:B:122:ASP:OD1	2.01	0.78
1:B:280:ASN:O	1:B:282:PHE:N	2.16	0.78
1:C:67:LEU:CD1	1:C:68:MET:H	1.95	0.78
1:C:92:LEU:CB	1:C:97:LEU:H	1.95	0.78
1:C:462:PHE:CD1	1:I:149:VAL:HG21	2.18	0.78
1:D:20:ARG:CG	1:D:28:GLU:OE2	2.30	0.78
1:D:67:LEU:O	1:D:68:MET:C	2.22	0.78
1:D:258:LYS:CB	1:D:317:ASN:HD21	1.97	0.78
1:E:149:VAL:HG21	1:K:462:PHE:CD1	2.18	0.78
1:F:16:PHE:HA	1:F:33:ILE:O	1.83	0.78
1:F:335:SER:O	1:F:336:ALA:CB	2.30	0.78
1:G:78:PRO:HB3	1:G:79:PHE:CD2	2.19	0.78
1:J:67:LEU:O	1:J:68:MET:C	2.22	0.78
1:A:67:LEU:CD1	1:A:68:MET:H	1.95	0.78
1:B:72:SER:C	1:B:73:THR:HG22	2.04	0.78
1:B:383:LYS:HE3	1:B:384:ASN:N	1.98	0.78
1:F:78:PRO:HB3	1:F:79:PHE:CD2	2.19	0.78
1:G:294:ALA:O	1:G:298:ILE:HD12	1.83	0.78
1:H:16:PHE:HA	1:H:33:ILE:O	1.83	0.78
1:H:78:PRO:HB3	1:H:79:PHE:CD2	2.19	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:200:GLU:O	1:H:203:GLY:N	2.17	0.78
1:H:335:SER:O	1:H:336:ALA:CB	2.30	0.78
1:I:280:ASN:C	1:I:282:PHE:H	1.86	0.78
1:J:258:LYS:CB	1:J:317:ASN:HD21	1.97	0.78
1:L:72:SER:C	1:L:73:THR:HG22	2.04	0.78
1:L:280:ASN:C	1:L:282:PHE:H	1.87	0.78
1:A:13:GLU:O	1:A:14:VAL:O	2.02	0.78
1:A:16:PHE:HA	1:A:33:ILE:O	1.83	0.78
1:B:414:LEU:C	1:B:414:LEU:HD23	2.04	0.78
1:D:103:ASP:N	1:D:104:PRO:HD3	1.96	0.78
1:D:149:VAL:HG21	1:J:462:PHE:CD1	2.18	0.78
1:E:67:LEU:O	1:E:68:MET:C	2.22	0.78
1:E:78:PRO:HB3	1:E:79:PHE:CD2	2.19	0.78
1:E:258:LYS:CB	1:E:317:ASN:HD21	1.96	0.78
1:F:280:ASN:C	1:F:282:PHE:H	1.86	0.78
1:G:258:LYS:CB	1:G:317:ASN:HD21	1.97	0.78
1:H:280:ASN:C	1:H:282:PHE:H	1.87	0.78
1:I:103:ASP:N	1:I:104:PRO:HD3	1.96	0.78
1:J:20:ARG:CG	1:J:28:GLU:OE2	2.30	0.78
1:J:103:ASP:N	1:J:104:PRO:HD3	1.96	0.78
1:K:92:LEU:CB	1:K:97:LEU:H	1.96	0.78
1:K:200:GLU:O	1:K:203:GLY:N	2.17	0.78
1:L:280:ASN:O	1:L:282:PHE:N	2.17	0.78
1:A:111:ALA:HA	1:A:433:VAL:HG21	1.66	0.78
1:A:200:GLU:O	1:A:203:GLY:N	2.17	0.78
1:A:294:ALA:O	1:A:298:ILE:HD12	1.83	0.78
1:B:13:GLU:O	1:B:14:VAL:O	2.02	0.78
1:B:16:PHE:HA	1:B:33:ILE:O	1.83	0.78
1:D:280:ASN:O	1:D:282:PHE:N	2.16	0.78
1:D:462:PHE:CD1	1:J:149:VAL:HG21	2.18	0.78
1:E:103:ASP:N	1:E:104:PRO:HD3	1.96	0.78
1:E:280:ASN:C	1:E:282:PHE:H	1.87	0.78
1:F:13:GLU:O	1:F:14:VAL:O	2.02	0.78
1:H:13:GLU:O	1:H:14:VAL:O	2.02	0.78
1:I:49:PHE:HD2	1:I:49:PHE:H	1.29	0.78
1:I:67:LEU:O	1:I:68:MET:C	2.22	0.78
1:I:78:PRO:HB3	1:I:79:PHE:CD2	2.19	0.78
1:J:67:LEU:CD1	1:J:68:MET:H	1.95	0.78
1:L:414:LEU:HD23	1:L:414:LEU:C	2.04	0.78
1:A:258:LYS:CB	1:A:317:ASN:HD21	1.97	0.78
1:A:315:THR:OG1	1:G:465:TYR:HB2	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:48:MET:HB2	1:C:62:GLU:O	1.84	0.78
1:C:200:GLU:O	1:C:203:GLY:N	2.17	0.78
1:C:334:TYR:OH	1:C:389:GLY:O	2.00	0.78
1:D:67:LEU:CD1	1:D:68:MET:H	1.95	0.78
1:E:3:GLU:O	1:E:6:LEU:HB2	1.84	0.78
1:F:315:THR:OG1	1:L:465:TYR:HB2	1.82	0.78
1:G:111:ALA:HA	1:G:433:VAL:HG21	1.66	0.78
1:G:414:LEU:HD23	1:G:414:LEU:C	2.04	0.78
1:I:258:LYS:CB	1:I:317:ASN:HD21	1.96	0.78
1:J:280:ASN:O	1:J:282:PHE:N	2.17	0.78
1:K:88:ARG:O	1:K:89:CYS:C	2.22	0.78
1:K:334:TYR:OH	1:K:389:GLY:O	2.00	0.78
1:L:16:PHE:HA	1:L:33:ILE:O	1.83	0.78
1:A:414:LEU:HD23	1:A:414:LEU:C	2.04	0.78
1:A:465:TYR:HB2	1:G:315:THR:OG1	1.83	0.78
1:C:72:SER:C	1:C:73:THR:HG22	2.04	0.78
1:C:88:ARG:O	1:C:89:CYS:C	2.22	0.78
1:D:48:MET:HB2	1:D:62:GLU:O	1.84	0.78
1:E:49:PHE:HD2	1:E:49:PHE:H	1.29	0.78
1:E:200:GLU:O	1:E:203:GLY:N	2.17	0.78
1:E:335:SER:O	1:E:336:ALA:CB	2.31	0.78
1:F:136:ASP:H	1:F:153:ASP:HB2	1.46	0.78
1:G:13:GLU:O	1:G:14:VAL:O	2.02	0.78
1:G:16:PHE:HA	1:G:33:ILE:O	1.83	0.78
1:G:68:MET:SD	1:G:105:ARG:CZ	2.71	0.78
1:G:200:GLU:O	1:G:203:GLY:N	2.17	0.78
1:I:200:GLU:O	1:I:203:GLY:N	2.17	0.78
1:I:335:SER:O	1:I:336:ALA:CB	2.31	0.78
1:J:200:GLU:O	1:J:203:GLY:N	2.17	0.78
1:K:48:MET:HB2	1:K:62:GLU:O	1.84	0.78
1:L:13:GLU:O	1:L:14:VAL:O	2.02	0.78
1:L:78:PRO:HB3	1:L:79:PHE:CD2	2.19	0.78
1:L:383:LYS:HE3	1:L:384:ASN:N	1.98	0.78
1:A:41:GLU:O	1:A:45:GLU:N	2.13	0.77
1:A:68:MET:SD	1:A:105:ARG:CZ	2.71	0.77
1:A:183:PRO:O	1:A:186:ASP:N	2.17	0.77
1:B:78:PRO:HB3	1:B:79:PHE:CD2	2.19	0.77
1:B:458:HIS:CD2	1:B:460:VAL:H	2.03	0.77
1:C:82:ASP:N	1:C:82:ASP:OD1	2.16	0.77
1:C:189:GLN:O	1:C:190:ASP:C	2.23	0.77
1:C:294:ALA:O	1:C:298:ILE:HD12	1.83	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:200:GLU:O	1:D:203:GLY:N	2.17	0.77
1:E:72:SER:C	1:E:73:THR:HG22	2.04	0.77
1:E:383:LYS:HE3	1:E:384:ASN:N	1.98	0.77
1:G:280:ASN:O	1:G:282:PHE:N	2.17	0.77
1:G:339:ARG:HB3	1:H:58:LYS:CG	2.15	0.77
1:H:414:LEU:HD23	1:H:414:LEU:C	2.04	0.77
1:I:13:GLU:O	1:I:14:VAL:O	2.02	0.77
1:I:383:LYS:HE3	1:I:384:ASN:N	1.98	0.77
1:K:82:ASP:N	1:K:82:ASP:OD1	2.16	0.77
1:K:294:ALA:O	1:K:298:ILE:HD12	1.83	0.77
1:L:78:PRO:CB	1:L:79:PHE:CE2	2.64	0.77
1:A:136:ASP:H	1:A:153:ASP:HB2	1.46	0.77
1:A:280:ASN:O	1:A:282:PHE:N	2.17	0.77
1:A:339:ARG:HB3	1:F:58:LYS:CG	2.15	0.77
1:B:67:LEU:CD1	1:B:68:MET:H	1.95	0.77
1:B:78:PRO:CB	1:B:79:PHE:CE2	2.65	0.77
1:B:465:TYR:HB2	1:H:315:THR:OG1	1.82	0.77
1:C:41:GLU:O	1:C:45:GLU:N	2.13	0.77
1:D:78:PRO:HB3	1:D:79:PHE:CD2	2.19	0.77
1:D:414:LEU:HD23	1:D:414:LEU:C	2.04	0.77
1:E:13:GLU:O	1:E:14:VAL:O	2.02	0.77
1:E:376:MET:HE3	1:E:433:VAL:CG2	2.13	0.77
1:F:403:GLU:CA	1:F:405:LYS:HG3	2.15	0.77
1:G:41:GLU:O	1:G:45:GLU:N	2.13	0.77
1:G:67:LEU:O	1:G:68:MET:C	2.22	0.77
1:G:183:PRO:O	1:G:186:ASP:N	2.17	0.77
1:H:403:GLU:CA	1:H:405:LYS:HG3	2.15	0.77
1:I:3:GLU:O	1:I:6:LEU:HB2	1.85	0.77
1:I:280:ASN:O	1:I:282:PHE:N	2.17	0.77
1:I:348:VAL:HG11	1:I:354:ARG:CD	2.14	0.77
1:J:3:GLU:HA	1:J:3:GLU:OE1	1.83	0.77
1:J:48:MET:HB2	1:J:62:GLU:O	1.84	0.77
1:J:72:SER:C	1:J:73:THR:HG22	2.04	0.77
1:K:189:GLN:O	1:K:190:ASP:C	2.23	0.77
1:L:458:HIS:CD2	1:L:460:VAL:H	2.03	0.77
1:A:280:ASN:C	1:A:282:PHE:H	1.86	0.77
1:A:465:TYR:CE2	1:G:315:THR:HG21	2.05	0.77
1:B:189:GLN:O	1:B:190:ASP:C	2.23	0.77
1:C:3:GLU:HA	1:C:3:GLU:OE1	1.83	0.77
1:D:75:VAL:C	1:D:76:ILE:O	2.21	0.77
1:E:348:VAL:HG11	1:E:354:ARG:CD	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:306:LYS:HG2	1:F:411:ALA:CB	2.12	0.77
1:F:465:TYR:HB2	1:L:315:THR:OG1	1.83	0.77
1:G:136:ASP:H	1:G:153:ASP:HB2	1.46	0.77
1:J:78:PRO:HB3	1:J:79:PHE:CD2	2.19	0.77
1:K:49:PHE:H	1:K:49:PHE:HD2	1.29	0.77
1:K:72:SER:C	1:K:73:THR:HG22	2.04	0.77
1:L:189:GLN:O	1:L:190:ASP:C	2.23	0.77
1:A:403:GLU:CA	1:A:405:LYS:HG3	2.15	0.77
1:B:315:THR:OG1	1:H:465:TYR:HB2	1.83	0.77
1:C:9:LEU:O	1:C:14:VAL:HG13	1.85	0.77
1:C:13:GLU:O	1:C:14:VAL:O	2.02	0.77
1:C:103:ASP:N	1:C:104:PRO:HD3	1.96	0.77
1:E:280:ASN:O	1:E:282:PHE:N	2.17	0.77
1:E:294:ALA:C	1:E:298:ILE:HD12	2.05	0.77
1:F:414:LEU:C	1:F:414:LEU:HD23	2.04	0.77
1:F:466:TYR:OH	1:L:252:THR:HG22	1.85	0.77
1:G:103:ASP:OD1	1:G:106:SER:HB2	1.85	0.77
1:G:280:ASN:C	1:G:282:PHE:H	1.86	0.77
1:H:136:ASP:H	1:H:153:ASP:HB2	1.46	0.77
1:H:163:LYS:HB2	1:H:163:LYS:HZ2	1.50	0.77
1:J:75:VAL:C	1:J:76:ILE:O	2.21	0.77
1:J:414:LEU:HD23	1:J:414:LEU:C	2.05	0.77
1:K:13:GLU:O	1:K:14:VAL:O	2.02	0.77
1:K:67:LEU:O	1:K:68:MET:C	2.22	0.77
1:K:294:ALA:C	1:K:298:ILE:HD12	2.05	0.77
1:B:88:ARG:O	1:B:89:CYS:C	2.22	0.77
1:B:111:ALA:HA	1:B:433:VAL:HG21	1.66	0.77
1:B:183:PRO:O	1:B:186:ASP:N	2.17	0.77
1:C:49:PHE:HD2	1:C:49:PHE:H	1.29	0.77
1:C:280:ASN:O	1:C:282:PHE:N	2.17	0.77
1:C:294:ALA:C	1:C:298:ILE:HD12	2.05	0.77
1:D:3:GLU:HA	1:D:3:GLU:OE1	1.84	0.77
1:D:13:GLU:O	1:D:14:VAL:O	2.02	0.77
1:D:72:SER:C	1:D:73:THR:HG22	2.04	0.77
1:F:103:ASP:OD1	1:F:106:SER:HB2	1.85	0.77
1:H:103:ASP:OD1	1:H:106:SER:HB2	1.85	0.77
1:H:306:LYS:HG2	1:H:411:ALA:CB	2.12	0.77
1:I:103:ASP:OD1	1:I:106:SER:HB2	1.85	0.77
1:I:294:ALA:C	1:I:298:ILE:HD12	2.05	0.77
1:K:9:LEU:O	1:K:14:VAL:HG13	1.85	0.77
1:K:41:GLU:O	1:K:45:GLU:N	2.13	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:103:ASP:N	1:K:104:PRO:HD3	1.96	0.77
1:K:281:LEU:H	1:K:281:LEU:CD1	1.92	0.77
1:L:48:MET:HB2	1:L:62:GLU:O	1.84	0.77
1:L:111:ALA:HA	1:L:433:VAL:HG21	1.66	0.77
1:L:183:PRO:O	1:L:186:ASP:N	2.17	0.77
1:A:3:GLU:HA	1:A:3:GLU:OE1	1.84	0.77
1:A:103:ASP:OD1	1:A:106:SER:HB2	1.85	0.77
1:A:315:THR:HG23	1:G:465:TYR:HE2	1.47	0.77
1:B:75:VAL:HG23	1:B:84:THR:HG22	1.67	0.77
1:D:75:VAL:HG23	1:D:84:THR:HG22	1.66	0.77
1:D:88:ARG:O	1:D:89:CYS:C	2.22	0.77
1:F:347:VAL:HG22	1:F:348:VAL:H	1.45	0.77
1:G:3:GLU:OE1	1:G:3:GLU:HA	1.84	0.77
1:G:48:MET:HB2	1:G:62:GLU:O	1.84	0.77
1:G:294:ALA:C	1:G:298:ILE:HD12	2.05	0.77
1:G:403:GLU:CA	1:G:405:LYS:HG3	2.15	0.77
1:I:414:LEU:C	1:I:414:LEU:HD23	2.04	0.77
1:J:13:GLU:O	1:J:14:VAL:O	2.02	0.77
1:J:88:ARG:O	1:J:89:CYS:C	2.22	0.77
1:J:280:ASN:C	1:J:282:PHE:H	1.86	0.77
1:L:67:LEU:CD1	1:L:68:MET:H	1.95	0.77
1:L:88:ARG:O	1:L:89:CYS:C	2.22	0.77
1:A:294:ALA:C	1:A:298:ILE:HD12	2.05	0.77
1:B:48:MET:HB2	1:B:62:GLU:O	1.84	0.77
1:B:294:ALA:O	1:B:298:ILE:HD12	1.83	0.77
1:C:67:LEU:O	1:C:68:MET:C	2.22	0.77
1:D:3:GLU:O	1:D:6:LEU:HB2	1.84	0.77
1:E:103:ASP:OD1	1:E:106:SER:HB2	1.85	0.77
1:E:347:VAL:HG22	1:E:348:VAL:H	1.45	0.77
1:E:414:LEU:C	1:E:414:LEU:HD23	2.04	0.77
1:F:3:GLU:O	1:F:6:LEU:HB2	1.85	0.77
1:H:111:ALA:HA	1:H:433:VAL:HG21	1.66	0.77
1:H:347:VAL:HG22	1:H:348:VAL:H	1.45	0.77
1:J:331:MET:HE2	1:J:396:LEU:HD12	1.64	0.77
1:K:3:GLU:OE1	1:K:3:GLU:HA	1.84	0.77
1:K:280:ASN:O	1:K:282:PHE:N	2.17	0.77
1:A:58:LYS:CG	1:B:339:ARG:HB3	2.15	0.77
1:A:315:THR:HG21	1:G:465:TYR:CE2	2.05	0.77
1:B:252:THR:HG22	1:H:466:TYR:OH	1.85	0.77
1:E:48:MET:HB2	1:E:62:GLU:O	1.84	0.77
1:F:111:ALA:HA	1:F:433:VAL:HG21	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:258:LYS:CB	1:F:317:ASN:HD21	1.97	0.77
1:F:458:HIS:CD2	1:F:460:VAL:H	2.03	0.77
1:H:3:GLU:O	1:H:6:LEU:HB2	1.85	0.77
1:H:258:LYS:CB	1:H:317:ASN:HD21	1.97	0.77
1:H:294:ALA:C	1:H:298:ILE:HD12	2.05	0.77
1:H:458:HIS:CD2	1:H:460:VAL:H	2.03	0.77
1:I:174:GLY:O	1:I:175:VAL:O	2.03	0.77
1:J:3:GLU:O	1:J:6:LEU:HB2	1.84	0.77
1:J:339:ARG:H	1:K:58:LYS:CG	1.94	0.77
1:K:75:VAL:HG23	1:K:84:THR:HG22	1.67	0.77
1:K:78:PRO:HB3	1:K:79:PHE:CD2	2.19	0.77
1:L:75:VAL:HG23	1:L:84:THR:HG22	1.67	0.77
1:A:48:MET:HB2	1:A:62:GLU:O	1.84	0.77
1:A:67:LEU:O	1:A:68:MET:C	2.22	0.77
1:A:465:TYR:HE2	1:G:315:THR:HG23	1.47	0.77
1:B:86:ILE:N	1:B:86:ILE:CD1	2.44	0.77
1:C:281:LEU:H	1:C:281:LEU:CD1	1.92	0.77
1:D:82:ASP:OD1	1:D:82:ASP:N	2.16	0.77
1:D:280:ASN:C	1:D:282:PHE:H	1.87	0.77
1:D:294:ALA:C	1:D:298:ILE:HD12	2.05	0.77
1:D:331:MET:HE2	1:D:396:LEU:HD12	1.64	0.77
1:E:58:LYS:CG	1:F:339:ARG:HB3	2.15	0.77
1:E:78:PRO:CB	1:E:79:PHE:CE2	2.64	0.77
1:F:294:ALA:C	1:F:298:ILE:HD12	2.05	0.77
1:G:58:LYS:CG	1:L:339:ARG:HB3	2.15	0.77
1:G:347:VAL:CG2	1:G:348:VAL:N	2.48	0.77
1:H:339:ARG:HB3	1:I:58:LYS:CG	2.15	0.77
1:I:48:MET:HB2	1:I:62:GLU:O	1.84	0.77
1:I:78:PRO:CB	1:I:79:PHE:CE2	2.64	0.77
1:J:67:LEU:HD21	1:J:88:ARG:HB3	1.67	0.77
1:J:183:PRO:O	1:J:186:ASP:N	2.17	0.77
1:K:3:GLU:O	1:K:6:LEU:HB2	1.85	0.77
1:L:103:ASP:OD1	1:L:106:SER:HB2	1.85	0.77
1:L:200:GLU:O	1:L:203:GLY:N	2.17	0.77
1:L:294:ALA:O	1:L:298:ILE:HD12	1.83	0.77
1:A:231:LYS:HA	1:A:234:GLU:HG3	1.67	0.77
1:A:347:VAL:CG2	1:A:348:VAL:N	2.48	0.77
1:B:75:VAL:C	1:B:76:ILE:O	2.21	0.77
1:B:174:GLY:O	1:B:175:VAL:O	2.03	0.77
1:B:294:ALA:C	1:B:298:ILE:HD12	2.05	0.77
1:B:347:VAL:CG2	1:B:348:VAL:N	2.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:78:PRO:HB3	1:C:79:PHE:CD2	2.19	0.77
1:C:231:LYS:HA	1:C:234:GLU:HG3	1.67	0.77
1:D:67:LEU:HD21	1:D:88:ARG:HB3	1.67	0.77
1:D:174:GLY:O	1:D:175:VAL:O	2.03	0.77
1:D:189:GLN:O	1:D:190:ASP:C	2.23	0.77
1:E:67:LEU:HD21	1:E:88:ARG:HB3	1.67	0.77
1:E:174:GLY:O	1:E:175:VAL:O	2.03	0.77
1:F:348:VAL:HG11	1:F:354:ARG:CD	2.14	0.77
1:H:348:VAL:HG11	1:H:354:ARG:CD	2.15	0.77
1:H:414:LEU:CD2	1:H:418:LEU:HG	2.12	0.77
1:I:376:MET:HE3	1:I:433:VAL:CG2	2.14	0.77
1:J:82:ASP:OD1	1:J:82:ASP:N	2.16	0.77
1:J:174:GLY:O	1:J:175:VAL:O	2.03	0.77
1:J:294:ALA:C	1:J:298:ILE:HD12	2.05	0.77
1:J:339:ARG:HB3	1:K:58:LYS:CG	2.15	0.77
1:L:75:VAL:C	1:L:76:ILE:O	2.21	0.77
1:L:294:ALA:C	1:L:298:ILE:HD12	2.05	0.77
1:B:103:ASP:OD1	1:B:106:SER:HB2	1.85	0.76
1:C:67:LEU:HD21	1:C:88:ARG:HB3	1.67	0.76
1:C:76:ILE:HG12	1:C:198:VAL:HG13	1.68	0.76
1:C:280:ASN:C	1:C:282:PHE:H	1.87	0.76
1:D:38:VAL:O	1:D:39:ASN:HB3	1.85	0.76
1:D:103:ASP:OD1	1:D:106:SER:HB2	1.85	0.76
1:E:82:ASP:OD1	1:E:82:ASP:N	2.16	0.76
1:E:403:GLU:CA	1:E:405:LYS:HG3	2.15	0.76
1:F:414:LEU:CD2	1:F:418:LEU:HG	2.12	0.76
1:G:231:LYS:HA	1:G:234:GLU:HG3	1.68	0.76
1:I:27:LYS:HZ2	1:I:239:LYS:CE	1.98	0.76
1:I:67:LEU:HD21	1:I:88:ARG:HB3	1.67	0.76
1:I:403:GLU:CA	1:I:405:LYS:HG3	2.15	0.76
1:J:189:GLN:O	1:J:190:ASP:C	2.23	0.76
1:K:76:ILE:HG12	1:K:198:VAL:HG13	1.68	0.76
1:K:280:ASN:C	1:K:282:PHE:H	1.87	0.76
1:L:174:GLY:O	1:L:175:VAL:O	2.03	0.76
1:L:347:VAL:CG2	1:L:348:VAL:N	2.48	0.76
1:B:200:GLU:O	1:B:203:GLY:N	2.17	0.76
1:B:231:LYS:HA	1:B:234:GLU:HG3	1.67	0.76
1:C:3:GLU:O	1:C:6:LEU:HB2	1.85	0.76
1:C:58:LYS:CG	1:D:339:ARG:HB3	2.15	0.76
1:C:75:VAL:HG23	1:C:84:THR:HG22	1.67	0.76
1:C:414:LEU:HD23	1:C:414:LEU:C	2.04	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:183:PRO:O	1:D:186:ASP:N	2.17	0.76
1:F:79:PHE:CG	1:F:80:PHE:N	2.53	0.76
1:I:82:ASP:OD1	1:I:82:ASP:N	2.16	0.76
1:I:175:VAL:H	1:I:215:THR:CG2	1.86	0.76
1:I:231:LYS:HA	1:I:234:GLU:HG3	1.67	0.76
1:J:38:VAL:O	1:J:39:ASN:HB3	1.85	0.76
1:J:103:ASP:OD1	1:J:106:SER:HB2	1.85	0.76
1:J:231:LYS:HA	1:J:234:GLU:HG3	1.67	0.76
1:K:93:GLU:CB	1:K:94:PRO:HD3	2.06	0.76
1:L:9:LEU:O	1:L:14:VAL:HG13	1.85	0.76
1:L:38:VAL:O	1:L:39:ASN:HB3	1.85	0.76
1:L:85:LEU:C	1:L:86:ILE:HD12	2.05	0.76
1:B:3:GLU:O	1:B:6:LEU:HB2	1.84	0.76
1:B:9:LEU:O	1:B:14:VAL:HG13	1.85	0.76
1:B:85:LEU:C	1:B:86:ILE:HD12	2.05	0.76
1:C:28:GLU:HG3	1:D:182:VAL:HG11	1.57	0.76
1:C:446:ARG:N	1:C:446:ARG:HD2	2.00	0.76
1:D:9:LEU:O	1:D:14:VAL:HG13	1.85	0.76
1:D:85:LEU:C	1:D:86:ILE:HD12	2.05	0.76
1:E:306:LYS:HG2	1:E:411:ALA:CB	2.11	0.76
1:F:48:MET:HB2	1:F:62:GLU:O	1.84	0.76
1:G:174:GLY:O	1:G:175:VAL:O	2.03	0.76
1:I:75:VAL:HG23	1:I:84:THR:HG22	1.67	0.76
1:I:306:LYS:HG2	1:I:411:ALA:CB	2.11	0.76
1:I:347:VAL:HG22	1:I:348:VAL:H	1.45	0.76
1:J:75:VAL:HG23	1:J:84:THR:HG22	1.67	0.76
1:J:79:PHE:CG	1:J:80:PHE:N	2.53	0.76
1:K:67:LEU:HD21	1:K:88:ARG:HB3	1.67	0.76
1:K:446:ARG:N	1:K:446:ARG:HD2	2.00	0.76
1:L:3:GLU:O	1:L:6:LEU:HB2	1.84	0.76
1:L:41:GLU:O	1:L:45:GLU:N	2.13	0.76
1:L:379:LEU:HD12	1:L:380:ASP:N	2.01	0.76
1:B:38:VAL:O	1:B:39:ASN:HB3	1.85	0.76
1:B:41:GLU:O	1:B:45:GLU:N	2.13	0.76
1:C:458:HIS:CD2	1:C:460:VAL:H	2.03	0.76
1:D:231:LYS:HA	1:D:234:GLU:HG3	1.68	0.76
1:F:174:GLY:O	1:F:175:VAL:O	2.03	0.76
1:G:9:LEU:O	1:G:14:VAL:HG13	1.85	0.76
1:H:48:MET:HB2	1:H:62:GLU:O	1.84	0.76
1:H:58:LYS:HD3	1:H:59:GLY:N	1.95	0.76
1:J:9:LEU:O	1:J:14:VAL:HG13	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:76:ILE:H	1:J:76:ILE:HD12	0.60	0.76
1:J:85:LEU:C	1:J:86:ILE:HD12	2.05	0.76
1:K:231:LYS:HA	1:K:234:GLU:HG3	1.68	0.76
1:K:458:HIS:CD2	1:K:460:VAL:H	2.02	0.76
1:L:231:LYS:HA	1:L:234:GLU:HG3	1.67	0.76
1:A:9:LEU:O	1:A:14:VAL:HG13	1.85	0.76
1:A:174:GLY:O	1:A:175:VAL:O	2.03	0.76
1:A:335:SER:C	1:A:345:ILE:HD11	2.06	0.76
1:B:82:ASP:OD1	1:B:82:ASP:N	2.16	0.76
1:B:89:CYS:SG	1:B:103:ASP:CG	2.64	0.76
1:C:88:ARG:NH2	1:C:109:LYS:HZ2	1.67	0.76
1:D:379:LEU:HD12	1:D:380:ASP:N	2.01	0.76
1:E:75:VAL:HG23	1:E:84:THR:HG22	1.67	0.76
1:F:58:LYS:HD3	1:F:59:GLY:N	1.96	0.76
1:F:280:ASN:O	1:F:282:PHE:N	2.16	0.76
1:F:335:SER:C	1:F:345:ILE:HD11	2.06	0.76
1:G:89:CYS:SG	1:G:103:ASP:CG	2.64	0.76
1:G:379:LEU:HD12	1:G:380:ASP:N	2.01	0.76
1:H:67:LEU:HD21	1:H:88:ARG:HB3	1.67	0.76
1:H:174:GLY:O	1:H:175:VAL:O	2.03	0.76
1:H:280:ASN:O	1:H:282:PHE:N	2.17	0.76
1:J:347:VAL:CG2	1:J:348:VAL:H	1.99	0.76
1:J:379:LEU:HD12	1:J:380:ASP:N	2.01	0.76
1:K:414:LEU:HD23	1:K:414:LEU:C	2.04	0.76
1:L:89:CYS:SG	1:L:103:ASP:CG	2.64	0.76
1:A:82:ASP:OD1	1:A:82:ASP:N	2.16	0.76
1:B:379:LEU:HD12	1:B:380:ASP:N	2.01	0.76
1:C:58:LYS:CG	1:D:339:ARG:H	1.94	0.76
1:F:67:LEU:HD21	1:F:88:ARG:HB3	1.67	0.76
1:F:85:LEU:C	1:F:86:ILE:HD12	2.05	0.76
1:F:231:LYS:HA	1:F:234:GLU:HG3	1.67	0.76
1:F:331:MET:C	1:F:332:LEU:HD12	2.06	0.76
1:G:335:SER:C	1:G:345:ILE:HD11	2.06	0.76
1:H:231:LYS:HA	1:H:234:GLU:HG3	1.67	0.76
1:J:347:VAL:CG2	1:J:348:VAL:N	2.48	0.76
1:J:446:ARG:HD2	1:J:446:ARG:N	2.01	0.76
1:L:82:ASP:OD1	1:L:82:ASP:N	2.16	0.76
1:L:103:ASP:CG	1:L:106:SER:HB2	2.06	0.76
1:A:89:CYS:SG	1:A:103:ASP:CG	2.64	0.76
1:A:379:LEU:HD12	1:A:380:ASP:N	2.01	0.76
1:A:466:TYR:OH	1:G:252:THR:HG22	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:103:ASP:CG	1:B:106:SER:HB2	2.06	0.76
1:B:403:GLU:CA	1:B:405:LYS:HG3	2.14	0.76
1:B:414:LEU:HD21	1:B:418:LEU:CG	2.14	0.76
1:C:89:CYS:SG	1:C:103:ASP:CG	2.64	0.76
1:C:111:ALA:HA	1:C:433:VAL:HG21	1.66	0.76
1:C:347:VAL:CG2	1:C:348:VAL:N	2.48	0.76
1:D:49:PHE:H	1:D:49:PHE:HD2	1.29	0.76
1:D:79:PHE:CG	1:D:80:PHE:N	2.53	0.76
1:D:414:LEU:HD21	1:D:418:LEU:CG	2.14	0.76
1:D:446:ARG:N	1:D:446:ARG:HD2	2.00	0.76
1:E:175:VAL:H	1:E:215:THR:CG2	1.86	0.76
1:E:335:SER:C	1:E:345:ILE:HD11	2.06	0.76
1:H:68:MET:O	1:H:71:ALA:N	2.19	0.76
1:H:85:LEU:C	1:H:86:ILE:HD12	2.05	0.76
1:H:103:ASP:CG	1:H:106:SER:HB2	2.06	0.76
1:H:331:MET:C	1:H:332:LEU:HD12	2.06	0.76
1:H:335:SER:C	1:H:345:ILE:HD11	2.06	0.76
1:I:335:SER:C	1:I:345:ILE:HD11	2.06	0.76
1:J:182:VAL:HG11	1:K:28:GLU:HG3	1.57	0.76
1:J:414:LEU:HD21	1:J:418:LEU:CG	2.14	0.76
1:A:3:GLU:O	1:A:6:LEU:HB2	1.85	0.76
1:C:174:GLY:O	1:C:175:VAL:O	2.03	0.76
1:D:347:VAL:CG2	1:D:348:VAL:N	2.48	0.76
1:D:347:VAL:CG2	1:D:348:VAL:H	1.99	0.76
1:E:231:LYS:HA	1:E:234:GLU:HG3	1.67	0.76
1:E:347:VAL:CG2	1:E:348:VAL:N	2.48	0.76
1:F:103:ASP:CG	1:F:106:SER:HB2	2.06	0.76
1:G:82:ASP:N	1:G:82:ASP:OD1	2.16	0.76
1:I:103:ASP:CG	1:I:106:SER:HB2	2.06	0.76
1:K:174:GLY:O	1:K:175:VAL:O	2.03	0.76
1:A:88:ARG:O	1:A:89:CYS:C	2.22	0.76
1:A:252:THR:HG22	1:G:466:TYR:OH	1.85	0.76
1:A:345:ILE:CD1	1:A:345:ILE:N	2.31	0.76
1:B:14:VAL:HA	1:B:81:ALA:HB3	1.67	0.76
1:B:68:MET:O	1:B:71:ALA:N	2.19	0.76
1:B:76:ILE:HG12	1:B:198:VAL:HG13	1.68	0.76
1:B:347:VAL:CG2	1:B:348:VAL:H	1.98	0.76
1:C:339:ARG:CG	1:C:340:SER:N	2.49	0.76
1:E:85:LEU:C	1:E:86:ILE:HD12	2.05	0.76
1:E:103:ASP:CG	1:E:106:SER:HB2	2.06	0.76
1:E:183:PRO:O	1:E:186:ASP:N	2.17	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:379:LEU:HD12	1:E:380:ASP:N	2.01	0.76
1:E:385:LYS:CG	1:E:386:ILE:H	1.98	0.76
1:F:68:MET:O	1:F:71:ALA:N	2.19	0.76
1:F:76:ILE:HG12	1:F:198:VAL:HG13	1.68	0.76
1:H:76:ILE:HG12	1:H:198:VAL:HG13	1.68	0.76
1:I:76:ILE:H	1:I:76:ILE:HD12	0.60	0.76
1:I:85:LEU:C	1:I:86:ILE:HD12	2.05	0.76
1:I:88:ARG:O	1:I:89:CYS:C	2.22	0.76
1:I:347:VAL:CG2	1:I:348:VAL:N	2.48	0.76
1:I:385:LYS:CG	1:I:386:ILE:H	1.98	0.76
1:K:89:CYS:SG	1:K:103:ASP:CG	2.64	0.76
1:K:111:ALA:HA	1:K:433:VAL:HG21	1.66	0.76
1:K:347:VAL:CG2	1:K:348:VAL:N	2.48	0.76
1:L:68:MET:O	1:L:71:ALA:N	2.19	0.76
1:A:67:LEU:HD21	1:A:88:ARG:HB3	1.67	0.76
1:A:68:MET:O	1:A:71:ALA:N	2.19	0.76
1:A:331:MET:C	1:A:332:LEU:HD12	2.07	0.76
1:B:465:TYR:HE2	1:H:315:THR:HG23	1.47	0.76
1:D:76:ILE:H	1:D:76:ILE:HD12	0.60	0.76
1:D:414:LEU:CD2	1:D:418:LEU:HG	2.12	0.76
1:E:88:ARG:O	1:E:89:CYS:C	2.22	0.76
1:G:3:GLU:O	1:G:6:LEU:HB2	1.85	0.76
1:G:68:MET:O	1:G:71:ALA:N	2.19	0.76
1:G:347:VAL:CG2	1:G:348:VAL:H	1.98	0.76
1:I:89:CYS:SG	1:I:103:ASP:CG	2.64	0.76
1:I:111:ALA:HA	1:I:433:VAL:HG21	1.66	0.76
1:I:183:PRO:O	1:I:186:ASP:N	2.17	0.76
1:I:379:LEU:HD12	1:I:380:ASP:N	2.01	0.76
1:J:49:PHE:HD2	1:J:49:PHE:H	1.29	0.76
1:J:89:CYS:SG	1:J:103:ASP:CG	2.64	0.76
1:J:414:LEU:CD2	1:J:418:LEU:HG	2.12	0.76
1:K:339:ARG:CG	1:K:340:SER:N	2.49	0.76
1:K:414:LEU:CD2	1:K:418:LEU:HG	2.12	0.76
1:L:347:VAL:CG2	1:L:348:VAL:H	1.98	0.76
1:L:414:LEU:HD21	1:L:418:LEU:CG	2.14	0.76
1:A:38:VAL:O	1:A:39:ASN:HB3	1.85	0.75
1:A:347:VAL:CG2	1:A:348:VAL:H	1.98	0.75
1:B:58:LYS:CG	1:C:339:ARG:HB3	2.15	0.75
1:B:335:SER:C	1:B:345:ILE:HD11	2.06	0.75
1:C:379:LEU:HD12	1:C:380:ASP:N	2.01	0.75
1:D:385:LYS:CG	1:D:386:ILE:H	1.98	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:403:GLU:CA	1:D:405:LYS:HG3	2.14	0.75
1:E:347:VAL:CG2	1:E:348:VAL:H	1.98	0.75
1:F:9:LEU:O	1:F:14:VAL:HG13	1.85	0.75
1:F:88:ARG:O	1:F:89:CYS:C	2.22	0.75
1:F:315:THR:HG23	1:L:465:TYR:HE2	1.48	0.75
1:G:67:LEU:HD21	1:G:88:ARG:HB3	1.67	0.75
1:G:88:ARG:O	1:G:89:CYS:C	2.22	0.75
1:H:183:PRO:O	1:H:186:ASP:N	2.17	0.75
1:H:189:GLN:O	1:H:190:ASP:C	2.23	0.75
1:J:76:ILE:HG12	1:J:198:VAL:HG13	1.68	0.75
1:K:27:LYS:HZ2	1:K:239:LYS:NZ	1.81	0.75
1:K:339:ARG:HB3	1:L:58:LYS:CG	2.14	0.75
1:L:76:ILE:HG12	1:L:198:VAL:HG13	1.68	0.75
1:L:348:VAL:HG11	1:L:354:ARG:CD	2.15	0.75
1:L:403:GLU:CA	1:L:405:LYS:HG3	2.15	0.75
1:B:228:MET:HE2	1:B:371:PHE:C	2.06	0.75
1:B:446:ARG:HD2	1:B:446:ARG:H	1.51	0.75
1:C:85:LEU:C	1:C:86:ILE:HD12	2.05	0.75
1:C:331:MET:C	1:C:332:LEU:HD12	2.07	0.75
1:D:335:SER:C	1:D:345:ILE:HD11	2.06	0.75
1:E:3:GLU:HA	1:E:3:GLU:OE1	1.84	0.75
1:E:14:VAL:HA	1:E:81:ALA:HB3	1.68	0.75
1:E:89:CYS:SG	1:E:103:ASP:CG	2.64	0.75
1:E:111:ALA:HA	1:E:433:VAL:HG21	1.66	0.75
1:F:347:VAL:CG2	1:F:348:VAL:N	2.48	0.75
1:F:347:VAL:CG2	1:F:348:VAL:H	1.99	0.75
1:F:379:LEU:HD12	1:F:380:ASP:N	2.01	0.75
1:G:103:ASP:CG	1:G:106:SER:HB2	2.06	0.75
1:G:331:MET:C	1:G:332:LEU:HD12	2.07	0.75
1:H:75:VAL:HG23	1:H:84:THR:HG22	1.67	0.75
1:H:339:ARG:C	1:H:341:ALA:N	2.35	0.75
1:H:347:VAL:CG2	1:H:348:VAL:H	1.99	0.75
1:H:379:LEU:HD12	1:H:380:ASP:N	2.01	0.75
1:I:54:ILE:CG1	1:I:102:ARG:NE	2.48	0.75
1:I:103:ASP:H	1:I:104:PRO:CD	1.99	0.75
1:J:335:SER:C	1:J:345:ILE:HD11	2.06	0.75
1:K:75:VAL:C	1:K:76:ILE:O	2.21	0.75
1:K:103:ASP:CG	1:K:106:SER:HB2	2.06	0.75
1:K:331:MET:C	1:K:332:LEU:HD12	2.07	0.75
1:K:339:ARG:C	1:K:341:ALA:N	2.35	0.75
1:K:379:LEU:HD12	1:K:380:ASP:N	2.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:14:VAL:HA	1:L:81:ALA:HB3	1.68	0.75
1:A:25:LYS:CD	1:A:102:ARG:HB3	2.16	0.75
1:A:60:ILE:HG22	1:A:100:TYR:CE2	2.21	0.75
1:B:60:ILE:HG22	1:B:100:TYR:CE2	2.21	0.75
1:B:315:THR:HG23	1:H:465:TYR:HE2	1.47	0.75
1:C:75:VAL:C	1:C:76:ILE:O	2.21	0.75
1:D:76:ILE:HG12	1:D:198:VAL:HG13	1.68	0.75
1:D:103:ASP:CG	1:D:106:SER:HB2	2.06	0.75
1:E:76:ILE:H	1:E:76:ILE:HD12	0.60	0.75
1:E:76:ILE:HG12	1:E:198:VAL:HG13	1.68	0.75
1:F:189:GLN:O	1:F:190:ASP:C	2.23	0.75
1:F:339:ARG:C	1:F:341:ALA:N	2.35	0.75
1:G:38:VAL:O	1:G:39:ASN:HB3	1.85	0.75
1:G:60:ILE:HG22	1:G:100:TYR:CE2	2.21	0.75
1:G:306:LYS:HG2	1:G:411:ALA:CB	2.11	0.75
1:H:347:VAL:CG2	1:H:348:VAL:N	2.48	0.75
1:I:14:VAL:HA	1:I:81:ALA:HB3	1.67	0.75
1:I:347:VAL:CG2	1:I:348:VAL:H	1.98	0.75
1:J:385:LYS:CG	1:J:386:ILE:H	1.98	0.75
1:K:68:MET:O	1:K:71:ALA:N	2.19	0.75
1:K:103:ASP:OD1	1:K:106:SER:HB2	1.85	0.75
1:L:27:LYS:NZ	1:L:239:LYS:HZ2	1.82	0.75
1:L:60:ILE:HG22	1:L:100:TYR:CE2	2.21	0.75
1:A:85:LEU:C	1:A:86:ILE:HD12	2.05	0.75
1:A:306:LYS:HG2	1:A:411:ALA:CB	2.11	0.75
1:B:348:VAL:HG11	1:B:354:ARG:CD	2.15	0.75
1:C:27:LYS:HZ2	1:C:239:LYS:NZ	1.81	0.75
1:C:76:ILE:HD12	1:C:76:ILE:H	0.60	0.75
1:C:339:ARG:C	1:C:341:ALA:N	2.35	0.75
1:C:403:GLU:CA	1:C:405:LYS:HG3	2.14	0.75
1:D:89:CYS:SG	1:D:103:ASP:CG	2.64	0.75
1:D:446:ARG:HD2	1:D:446:ARG:H	1.52	0.75
1:E:103:ASP:H	1:E:104:PRO:CD	1.99	0.75
1:F:25:LYS:CD	1:F:102:ARG:HB3	2.16	0.75
1:F:183:PRO:O	1:F:186:ASP:N	2.17	0.75
1:F:403:GLU:HA	1:F:405:LYS:CG	2.17	0.75
1:G:25:LYS:CD	1:G:102:ARG:HB3	2.16	0.75
1:H:9:LEU:O	1:H:14:VAL:HG13	1.85	0.75
1:H:88:ARG:O	1:H:89:CYS:C	2.22	0.75
1:I:38:VAL:O	1:I:39:ASN:HB3	1.85	0.75
1:K:85:LEU:C	1:K:86:ILE:HD12	2.05	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:335:SER:C	1:L:345:ILE:HD11	2.06	0.75
1:A:446:ARG:HD2	1:A:446:ARG:H	1.51	0.75
1:B:25:LYS:CD	1:B:102:ARG:HB3	2.16	0.75
1:C:103:ASP:CG	1:C:106:SER:HB2	2.06	0.75
1:C:103:ASP:OD1	1:C:106:SER:HB2	1.85	0.75
1:C:315:THR:OG1	1:I:465:TYR:HB2	1.83	0.75
1:E:38:VAL:O	1:E:39:ASN:HB3	1.85	0.75
1:E:54:ILE:CG1	1:E:102:ARG:NE	2.48	0.75
1:F:89:CYS:SG	1:F:103:ASP:CG	2.64	0.75
1:F:465:TYR:HE2	1:L:315:THR:HG23	1.48	0.75
1:H:60:ILE:HG22	1:H:100:TYR:CE2	2.21	0.75
1:H:76:ILE:HD12	1:H:76:ILE:H	0.60	0.75
1:I:3:GLU:HA	1:I:3:GLU:OE1	1.84	0.75
1:I:189:GLN:O	1:I:190:ASP:C	2.23	0.75
1:I:339:ARG:HB3	1:J:58:LYS:CG	2.15	0.75
1:J:111:ALA:HA	1:J:433:VAL:HG21	1.66	0.75
1:J:403:GLU:CA	1:J:405:LYS:HG3	2.15	0.75
1:J:446:ARG:HD2	1:J:446:ARG:H	1.52	0.75
1:K:403:GLU:CA	1:K:405:LYS:HG3	2.15	0.75
1:L:42:PHE:CE2	1:L:66:VAL:HG22	2.22	0.75
1:A:103:ASP:CG	1:A:106:SER:HB2	2.06	0.75
1:A:458:HIS:CD2	1:A:460:VAL:H	2.03	0.75
1:B:42:PHE:CE2	1:B:66:VAL:HG22	2.22	0.75
1:B:446:ARG:HD2	1:B:446:ARG:N	2.00	0.75
1:C:20:ARG:NH2	1:C:86:ILE:CG2	2.50	0.75
1:C:68:MET:O	1:C:71:ALA:N	2.19	0.75
1:C:347:VAL:CG2	1:C:348:VAL:H	1.98	0.75
1:C:348:VAL:HG11	1:C:354:ARG:CD	2.15	0.75
1:D:20:ARG:NH2	1:D:86:ILE:CG2	2.50	0.75
1:D:105:ARG:HH22	1:D:233:ASP:CG	1.90	0.75
1:D:315:THR:CG2	1:J:465:TYR:HD2	1.60	0.75
1:E:189:GLN:O	1:E:190:ASP:C	2.23	0.75
1:E:403:GLU:HA	1:E:405:LYS:CG	2.17	0.75
1:F:38:VAL:O	1:F:39:ASN:HB3	1.85	0.75
1:F:75:VAL:HG23	1:F:84:THR:HG22	1.67	0.75
1:F:103:ASP:N	1:F:104:PRO:HD3	1.96	0.75
1:G:58:LYS:CG	1:L:339:ARG:H	1.94	0.75
1:G:85:LEU:C	1:G:86:ILE:HD12	2.05	0.75
1:G:345:ILE:CD1	1:G:345:ILE:N	2.31	0.75
1:H:14:VAL:HA	1:H:81:ALA:HB3	1.68	0.75
1:H:42:PHE:CE2	1:H:66:VAL:HG22	2.22	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:403:GLU:HA	1:H:405:LYS:CG	2.17	0.75
1:I:403:GLU:HA	1:I:405:LYS:CG	2.17	0.75
1:K:20:ARG:NH2	1:K:86:ILE:CG2	2.50	0.75
1:K:76:ILE:HD12	1:K:76:ILE:H	0.59	0.75
1:L:20:ARG:NH2	1:L:86:ILE:CG2	2.50	0.75
1:L:446:ARG:H	1:L:446:ARG:HD2	1.52	0.75
1:A:309:ASN:O	1:A:313:ASN:HB2	1.87	0.75
1:B:20:ARG:NH2	1:B:86:ILE:CG2	2.50	0.75
1:C:78:PRO:CB	1:C:79:PHE:CE2	2.64	0.75
1:C:398:ASP:O	1:C:399:LEU:C	2.25	0.75
1:C:446:ARG:HD2	1:C:446:ARG:H	1.52	0.75
1:D:25:LYS:CD	1:D:102:ARG:HB3	2.16	0.75
1:D:58:LYS:CG	1:E:339:ARG:HB3	2.15	0.75
1:D:61:ASN:O	1:D:62:GLU:HG3	1.87	0.75
1:D:306:LYS:HG2	1:D:411:ALA:CB	2.11	0.75
1:E:9:LEU:O	1:E:14:VAL:HG13	1.85	0.75
1:E:42:PHE:CE2	1:E:66:VAL:HG22	2.22	0.75
1:E:68:MET:O	1:E:71:ALA:N	2.19	0.75
1:E:458:HIS:CD2	1:E:460:VAL:H	2.02	0.75
1:E:465:TYR:CE2	1:K:315:THR:HG21	2.05	0.75
1:F:42:PHE:CE2	1:F:66:VAL:HG22	2.22	0.75
1:G:75:VAL:HG23	1:G:84:THR:HG22	1.67	0.75
1:G:309:ASN:O	1:G:313:ASN:HB2	1.87	0.75
1:G:458:HIS:CD2	1:G:460:VAL:H	2.02	0.75
1:H:20:ARG:NH2	1:H:86:ILE:CG2	2.50	0.75
1:H:25:LYS:CD	1:H:102:ARG:HB3	2.16	0.75
1:H:38:VAL:O	1:H:39:ASN:HB3	1.85	0.75
1:H:89:CYS:SG	1:H:103:ASP:CG	2.64	0.75
1:I:9:LEU:O	1:I:14:VAL:HG13	1.85	0.75
1:I:25:LYS:CD	1:I:102:ARG:HB3	2.16	0.75
1:I:42:PHE:CE2	1:I:66:VAL:HG22	2.22	0.75
1:J:61:ASN:O	1:J:62:GLU:HG3	1.87	0.75
1:J:103:ASP:H	1:J:104:PRO:CD	1.99	0.75
1:J:339:ARG:C	1:J:341:ALA:N	2.35	0.75
1:K:78:PRO:CB	1:K:79:PHE:CE2	2.64	0.75
1:K:348:VAL:HG11	1:K:354:ARG:CD	2.15	0.75
1:K:446:ARG:HD2	1:K:446:ARG:H	1.52	0.75
1:L:398:ASP:O	1:L:399:LEU:C	2.25	0.75
1:B:67:LEU:HD21	1:B:88:ARG:HB3	1.67	0.75
1:B:398:ASP:O	1:B:399:LEU:C	2.26	0.75
1:C:128:PRO:HG2	1:C:235:ILE:HD11	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:156:GLY:N	1:C:215:THR:O	2.20	0.75
1:D:348:VAL:HG11	1:D:354:ARG:CD	2.14	0.75
1:E:25:LYS:CD	1:E:102:ARG:HB3	2.16	0.75
1:E:331:MET:C	1:E:332:LEU:HD12	2.07	0.75
1:E:446:ARG:HD2	1:E:446:ARG:N	2.00	0.75
1:F:14:VAL:HA	1:F:81:ALA:HB3	1.68	0.75
1:F:20:ARG:NH2	1:F:86:ILE:CG2	2.50	0.75
1:F:60:ILE:HG22	1:F:100:TYR:CE2	2.22	0.75
1:F:446:ARG:HD2	1:F:446:ARG:N	2.00	0.75
1:G:14:VAL:HA	1:G:81:ALA:HB3	1.68	0.75
1:G:446:ARG:H	1:G:446:ARG:HD2	1.52	0.75
1:H:103:ASP:N	1:H:104:PRO:HD3	1.96	0.75
1:I:68:MET:O	1:I:71:ALA:N	2.19	0.75
1:I:76:ILE:HG12	1:I:198:VAL:HG13	1.68	0.75
1:I:446:ARG:HD2	1:I:446:ARG:N	2.00	0.75
1:J:103:ASP:CG	1:J:106:SER:HB2	2.06	0.75
1:J:105:ARG:HH22	1:J:233:ASP:CG	1.90	0.75
1:K:128:PRO:HG2	1:K:235:ILE:HD11	1.69	0.75
1:K:347:VAL:CG2	1:K:348:VAL:H	1.98	0.75
1:K:398:ASP:O	1:K:399:LEU:C	2.25	0.75
1:L:25:LYS:CD	1:L:102:ARG:HB3	2.16	0.75
1:L:76:ILE:HD12	1:L:76:ILE:H	0.60	0.75
1:A:14:VAL:HA	1:A:81:ALA:HB3	1.68	0.75
1:A:58:LYS:HD3	1:A:59:GLY:N	1.95	0.75
1:A:348:VAL:HG11	1:A:354:ARG:CD	2.15	0.75
1:D:103:ASP:H	1:D:104:PRO:CD	1.99	0.75
1:D:111:ALA:HA	1:D:433:VAL:HG21	1.66	0.75
1:E:385:LYS:CG	1:E:386:ILE:N	2.50	0.75
1:F:76:ILE:H	1:F:76:ILE:HD12	0.60	0.75
1:G:348:VAL:HG11	1:G:354:ARG:CD	2.15	0.75
1:I:79:PHE:CG	1:I:80:PHE:N	2.53	0.75
1:I:331:MET:C	1:I:332:LEU:HD12	2.07	0.75
1:I:458:HIS:CD2	1:I:460:VAL:H	2.02	0.75
1:J:20:ARG:NH2	1:J:86:ILE:CG2	2.50	0.75
1:J:25:LYS:CD	1:J:102:ARG:HB3	2.16	0.75
1:J:306:LYS:HG2	1:J:411:ALA:CB	2.12	0.75
1:K:42:PHE:CE2	1:K:66:VAL:HG22	2.22	0.75
1:K:156:GLY:N	1:K:215:THR:O	2.20	0.75
1:K:335:SER:C	1:K:345:ILE:HD11	2.06	0.75
1:L:446:ARG:HD2	1:L:446:ARG:N	2.00	0.75
1:A:75:VAL:HG23	1:A:84:THR:HG22	1.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:331:MET:C	1:B:332:LEU:HD12	2.07	0.74
1:B:339:ARG:CG	1:B:340:SER:N	2.49	0.74
1:C:42:PHE:CE2	1:C:66:VAL:HG22	2.22	0.74
1:C:60:ILE:HG22	1:C:100:TYR:CE2	2.21	0.74
1:C:376:MET:HE1	1:C:433:VAL:CG1	2.12	0.74
1:D:331:MET:C	1:D:332:LEU:HD12	2.07	0.74
1:E:105:ARG:HH22	1:E:233:ASP:CG	1.90	0.74
1:E:465:TYR:HB2	1:K:315:THR:OG1	1.83	0.74
1:I:385:LYS:CG	1:I:386:ILE:N	2.50	0.74
1:J:128:PRO:HG2	1:J:235:ILE:HD11	1.69	0.74
1:J:331:MET:C	1:J:332:LEU:HD12	2.07	0.74
1:K:103:ASP:H	1:K:104:PRO:CD	1.99	0.74
1:L:67:LEU:HD21	1:L:88:ARG:HB3	1.67	0.74
1:L:339:ARG:CG	1:L:340:SER:N	2.49	0.74
1:B:76:ILE:HD12	1:B:76:ILE:H	0.60	0.74
1:B:466:TYR:OH	1:H:252:THR:HG22	1.85	0.74
1:C:24:THR:HG22	1:C:25:LYS:N	2.03	0.74
1:C:63:SER:OG	1:C:91:ILE:HG22	1.87	0.74
1:D:465:TYR:HD2	1:J:315:THR:CG2	1.60	0.74
1:F:61:ASN:O	1:F:62:GLU:HG3	1.87	0.74
1:F:385:LYS:CG	1:F:386:ILE:N	2.50	0.74
1:F:446:ARG:HD2	1:F:446:ARG:H	1.52	0.74
1:G:76:ILE:H	1:G:76:ILE:HD12	0.60	0.74
1:H:61:ASN:O	1:H:62:GLU:HG3	1.87	0.74
1:H:63:SER:OG	1:H:91:ILE:HG22	1.87	0.74
1:H:309:ASN:O	1:H:313:ASN:HB2	1.87	0.74
1:H:339:ARG:H	1:I:58:LYS:CG	1.94	0.74
1:I:105:ARG:HH22	1:I:233:ASP:CG	1.90	0.74
1:J:348:VAL:HG11	1:J:354:ARG:CD	2.15	0.74
1:K:60:ILE:HG22	1:K:100:TYR:CE2	2.21	0.74
1:K:183:PRO:O	1:K:186:ASP:N	2.17	0.74
1:L:128:PRO:HG2	1:L:235:ILE:HD11	1.69	0.74
1:L:331:MET:C	1:L:332:LEU:HD12	2.07	0.74
1:A:58:LYS:CG	1:B:339:ARG:H	1.94	0.74
1:A:339:ARG:CG	1:A:340:SER:N	2.49	0.74
1:A:403:GLU:HA	1:A:405:LYS:CG	2.17	0.74
1:A:407:ILE:CD1	1:A:408:PRO:HD2	2.16	0.74
1:B:128:PRO:HG2	1:B:235:ILE:HD11	1.69	0.74
1:B:385:LYS:CG	1:B:386:ILE:H	1.98	0.74
1:C:105:ARG:HH22	1:C:233:ASP:CG	1.90	0.74
1:C:111:ALA:CA	1:C:433:VAL:HG21	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:315:THR:HG21	1:I:465:TYR:CE2	2.05	0.74
1:C:335:SER:C	1:C:345:ILE:HD11	2.06	0.74
1:C:385:LYS:CG	1:C:386:ILE:H	1.98	0.74
1:C:466:TYR:OH	1:I:252:THR:HG22	1.85	0.74
1:D:68:MET:O	1:D:71:ALA:N	2.19	0.74
1:D:78:PRO:CB	1:D:79:PHE:CE2	2.65	0.74
1:D:128:PRO:HG2	1:D:235:ILE:HD11	1.69	0.74
1:F:63:SER:OG	1:F:91:ILE:HG22	1.87	0.74
1:F:93:GLU:CG	1:F:94:PRO:HD3	2.18	0.74
1:F:252:THR:HG22	1:L:466:TYR:OH	1.85	0.74
1:F:309:ASN:O	1:F:313:ASN:HB2	1.87	0.74
1:G:58:LYS:HD3	1:G:59:GLY:N	1.96	0.74
1:G:76:ILE:HG12	1:G:198:VAL:HG13	1.68	0.74
1:G:403:GLU:HA	1:G:405:LYS:CG	2.17	0.74
1:H:93:GLU:CG	1:H:94:PRO:HD3	2.18	0.74
1:H:446:ARG:H	1:H:446:ARG:HD2	1.52	0.74
1:H:446:ARG:HD2	1:H:446:ARG:N	2.00	0.74
1:I:76:ILE:CD1	1:I:202:MET:CE	2.48	0.74
1:J:68:MET:O	1:J:71:ALA:N	2.19	0.74
1:J:78:PRO:CB	1:J:79:PHE:CE2	2.64	0.74
1:K:24:THR:HG22	1:K:25:LYS:N	2.03	0.74
1:K:25:LYS:CD	1:K:102:ARG:HB3	2.16	0.74
1:K:63:SER:OG	1:K:91:ILE:HG22	1.87	0.74
1:L:156:GLY:N	1:L:215:THR:O	2.20	0.74
1:B:156:GLY:N	1:B:215:THR:O	2.20	0.74
1:C:14:VAL:HA	1:C:81:ALA:HB3	1.67	0.74
1:C:103:ASP:H	1:C:104:PRO:CD	1.99	0.74
1:C:183:PRO:O	1:C:186:ASP:N	2.17	0.74
1:C:403:GLU:HA	1:C:405:LYS:CG	2.17	0.74
1:D:63:SER:OG	1:D:91:ILE:HG22	1.87	0.74
1:D:93:GLU:CG	1:D:94:PRO:HD3	2.18	0.74
1:D:339:ARG:C	1:D:341:ALA:N	2.35	0.74
1:D:403:GLU:HA	1:D:405:LYS:CG	2.16	0.74
1:E:61:ASN:O	1:E:62:GLU:HG3	1.87	0.74
1:E:79:PHE:CG	1:E:80:PHE:N	2.53	0.74
1:E:252:THR:HG22	1:K:466:TYR:OH	1.85	0.74
1:G:339:ARG:CG	1:G:340:SER:N	2.49	0.74
1:J:27:LYS:CE	1:J:239:LYS:HZ1	2.00	0.74
1:J:93:GLU:CG	1:J:94:PRO:HD3	2.18	0.74
1:J:111:ALA:CA	1:J:433:VAL:HG21	2.18	0.74
1:K:105:ARG:HH22	1:K:233:ASP:CG	1.90	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:214:ALA:CB	1:K:263:ASP:OD2	2.36	0.74
1:A:42:PHE:CE2	1:A:66:VAL:HG22	2.22	0.74
1:A:76:ILE:H	1:A:76:ILE:HD12	0.60	0.74
1:A:414:LEU:HD21	1:A:418:LEU:CG	2.14	0.74
1:B:403:GLU:HA	1:B:405:LYS:CG	2.17	0.74
1:C:25:LYS:CD	1:C:102:ARG:HB3	2.16	0.74
1:C:68:MET:HE2	1:C:105:ARG:HD3	1.69	0.74
1:C:214:ALA:CB	1:C:263:ASP:OD2	2.36	0.74
1:D:214:ALA:CB	1:D:263:ASP:OD2	2.36	0.74
1:D:398:ASP:O	1:D:399:LEU:C	2.25	0.74
1:F:75:VAL:C	1:F:76:ILE:O	2.21	0.74
1:G:163:LYS:HZ2	1:G:163:LYS:HB2	1.51	0.74
1:H:385:LYS:CG	1:H:386:ILE:N	2.50	0.74
1:J:63:SER:OG	1:J:91:ILE:HG22	1.87	0.74
1:J:398:ASP:O	1:J:399:LEU:C	2.25	0.74
1:K:14:VAL:HA	1:K:81:ALA:HB3	1.68	0.74
1:K:68:MET:HE2	1:K:105:ARG:HD3	1.69	0.74
1:K:111:ALA:CA	1:K:433:VAL:HG21	2.18	0.74
1:K:385:LYS:CG	1:K:386:ILE:H	1.98	0.74
1:K:403:GLU:HA	1:K:405:LYS:CG	2.17	0.74
1:L:309:ASN:O	1:L:313:ASN:HB2	1.87	0.74
1:L:331:MET:HE2	1:L:396:LEU:HD12	1.70	0.74
1:L:385:LYS:CG	1:L:386:ILE:H	1.98	0.74
1:A:20:ARG:NH2	1:A:86:ILE:CG2	2.50	0.74
1:A:63:SER:OG	1:A:91:ILE:HG22	1.88	0.74
1:A:79:PHE:HB3	1:B:190:ASP:OD2	1.87	0.74
1:A:105:ARG:HH22	1:A:233:ASP:CG	1.90	0.74
1:A:398:ASP:O	1:A:399:LEU:C	2.26	0.74
1:B:214:ALA:CB	1:B:263:ASP:OD2	2.36	0.74
1:B:309:ASN:O	1:B:313:ASN:HB2	1.87	0.74
1:D:60:ILE:HG22	1:D:100:TYR:CE2	2.21	0.74
1:D:111:ALA:CA	1:D:433:VAL:HG21	2.18	0.74
1:F:27:LYS:NZ	1:F:239:LYS:CE	2.50	0.74
1:F:414:LEU:HD21	1:F:418:LEU:CG	2.14	0.74
1:G:339:ARG:C	1:G:339:ARG:HH11	1.90	0.74
1:H:27:LYS:NZ	1:H:239:LYS:CE	2.50	0.74
1:H:75:VAL:C	1:H:76:ILE:O	2.21	0.74
1:I:27:LYS:NZ	1:I:239:LYS:CE	2.50	0.74
1:I:63:SER:OG	1:I:91:ILE:HG22	1.87	0.74
1:J:24:THR:HG22	1:J:25:LYS:N	2.03	0.74
1:L:403:GLU:HA	1:L:405:LYS:CG	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:407:ILE:CD1	1:L:408:PRO:HD2	2.16	0.74
1:A:76:ILE:HG12	1:A:198:VAL:HG13	1.68	0.74
1:A:156:GLY:N	1:A:215:THR:O	2.20	0.74
1:A:339:ARG:C	1:A:339:ARG:HH11	1.91	0.74
1:B:61:ASN:O	1:B:62:GLU:HG3	1.87	0.74
1:B:79:PHE:HB3	1:C:190:ASP:OD2	1.87	0.74
1:B:407:ILE:CD1	1:B:408:PRO:HD2	2.16	0.74
1:D:385:LYS:CG	1:D:386:ILE:N	2.50	0.74
1:E:27:LYS:NZ	1:E:239:LYS:CE	2.50	0.74
1:E:75:VAL:HG23	1:E:84:THR:HB	1.70	0.74
1:G:61:ASN:O	1:G:62:GLU:HG3	1.87	0.74
1:G:128:PRO:HG2	1:G:235:ILE:HD11	1.69	0.74
1:H:214:ALA:CB	1:H:263:ASP:OD2	2.36	0.74
1:I:61:ASN:O	1:I:62:GLU:HG3	1.87	0.74
1:I:93:GLU:CG	1:I:94:PRO:HD3	2.18	0.74
1:J:42:PHE:CE2	1:J:66:VAL:HG22	2.22	0.74
1:J:214:ALA:CB	1:J:263:ASP:OD2	2.36	0.74
1:K:190:ASP:OD2	1:L:79:PHE:HB3	1.87	0.74
1:L:24:THR:HG22	1:L:25:LYS:N	2.03	0.74
1:L:214:ALA:CB	1:L:263:ASP:OD2	2.36	0.74
1:B:24:THR:HG22	1:B:25:LYS:N	2.03	0.74
1:E:20:ARG:NH2	1:E:86:ILE:CG2	2.50	0.74
1:E:58:LYS:CG	1:F:339:ARG:H	1.94	0.74
1:E:63:SER:OG	1:E:91:ILE:HG22	1.88	0.74
1:E:76:ILE:CD1	1:E:202:MET:CE	2.48	0.74
1:E:93:GLU:CG	1:E:94:PRO:HD3	2.18	0.74
1:E:214:ALA:CB	1:E:263:ASP:OD2	2.36	0.74
1:F:18:ASP:OD2	1:F:19:LEU:N	2.20	0.74
1:F:105:ARG:HH22	1:F:233:ASP:CG	1.90	0.74
1:F:214:ALA:CB	1:F:263:ASP:OD2	2.36	0.74
1:G:20:ARG:NH2	1:G:86:ILE:CG2	2.50	0.74
1:G:42:PHE:CE2	1:G:66:VAL:HG22	2.22	0.74
1:G:63:SER:OG	1:G:91:ILE:HG22	1.88	0.74
1:G:79:PHE:HB3	1:L:190:ASP:OD2	1.87	0.74
1:G:105:ARG:HH22	1:G:233:ASP:CG	1.90	0.74
1:G:156:GLY:N	1:G:215:THR:O	2.20	0.74
1:G:398:ASP:O	1:G:399:LEU:C	2.26	0.74
1:H:18:ASP:OD2	1:H:19:LEU:N	2.20	0.74
1:I:20:ARG:NH2	1:I:86:ILE:CG2	2.50	0.74
1:I:75:VAL:HG23	1:I:84:THR:HB	1.70	0.74
1:I:156:GLY:N	1:I:215:THR:O	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:60:ILE:HG22	1:J:100:TYR:CE2	2.21	0.74
1:J:156:GLY:N	1:J:215:THR:O	2.20	0.74
1:J:309:ASN:O	1:J:313:ASN:HB2	1.87	0.74
1:K:61:ASN:O	1:K:62:GLU:HG3	1.87	0.74
1:A:27:LYS:NZ	1:A:239:LYS:CE	2.50	0.74
1:A:27:LYS:CE	1:A:239:LYS:HZ1	2.01	0.74
1:A:128:PRO:HG2	1:A:235:ILE:HD11	1.69	0.74
1:B:50:ASP:O	1:B:51:GLY:O	2.06	0.74
1:C:92:LEU:N	1:C:97:LEU:N	2.36	0.74
1:D:24:THR:HG22	1:D:25:LYS:N	2.03	0.74
1:D:309:ASN:O	1:D:313:ASN:HB2	1.87	0.74
1:E:156:GLY:N	1:E:215:THR:O	2.20	0.74
1:G:27:LYS:NZ	1:G:239:LYS:CE	2.50	0.74
1:G:27:LYS:CE	1:G:239:LYS:HZ1	2.01	0.74
1:I:111:ALA:CA	1:I:433:VAL:HG21	2.18	0.74
1:J:190:ASP:OD2	1:K:79:PHE:HB3	1.87	0.74
1:J:385:LYS:CG	1:J:386:ILE:N	2.50	0.74
1:K:57:TRP:HD1	1:K:58:LYS:N	1.86	0.74
1:K:182:VAL:HG11	1:L:28:GLU:HG2	1.69	0.74
1:L:50:ASP:O	1:L:51:GLY:O	2.06	0.74
1:L:61:ASN:O	1:L:62:GLU:HG3	1.87	0.74
1:L:63:SER:OG	1:L:91:ILE:HG22	1.88	0.74
1:L:111:ALA:CA	1:L:433:VAL:HG21	2.18	0.74
1:A:28:GLU:HG2	1:B:182:VAL:HG11	1.69	0.74
1:A:61:ASN:O	1:A:62:GLU:HG3	1.87	0.74
1:A:189:GLN:O	1:A:190:ASP:C	2.23	0.74
1:B:17:VAL:HG12	1:B:33:ILE:O	1.88	0.74
1:B:19:LEU:CD2	1:B:240:TYR:CE2	2.71	0.74
1:B:63:SER:OG	1:B:91:ILE:HG22	1.88	0.74
1:B:111:ALA:CA	1:B:433:VAL:HG21	2.18	0.74
1:B:339:ARG:C	1:B:339:ARG:HH11	1.90	0.74
1:C:57:TRP:HD1	1:C:58:LYS:N	1.86	0.74
1:D:252:THR:HG22	1:J:466:TYR:OH	1.85	0.74
1:E:111:ALA:CA	1:E:433:VAL:HG21	2.18	0.74
1:E:309:ASN:O	1:E:313:ASN:HB2	1.87	0.74
1:G:28:GLU:HG2	1:L:182:VAL:HG11	1.70	0.74
1:G:314:PRO:O	1:G:318:SER:HB2	1.87	0.74
1:G:414:LEU:HD21	1:G:418:LEU:CG	2.15	0.74
1:H:50:ASP:O	1:H:51:GLY:O	2.05	0.74
1:H:314:PRO:O	1:H:318:SER:HB2	1.87	0.74
1:H:414:LEU:HD21	1:H:418:LEU:CG	2.15	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:60:ILE:HG22	1:I:100:TYR:CE2	2.22	0.74
1:I:190:ASP:OD2	1:J:79:PHE:HB3	1.87	0.74
1:I:214:ALA:CB	1:I:263:ASP:OD2	2.36	0.74
1:I:446:ARG:HD2	1:I:446:ARG:H	1.51	0.74
1:K:314:PRO:O	1:K:318:SER:HB2	1.87	0.74
1:L:17:VAL:HG12	1:L:33:ILE:O	1.88	0.74
1:B:79:PHE:CG	1:B:80:PHE:N	2.53	0.73
1:C:61:ASN:O	1:C:62:GLU:HG3	1.87	0.73
1:C:309:ASN:O	1:C:313:ASN:HB2	1.87	0.73
1:D:42:PHE:CE2	1:D:66:VAL:HG22	2.22	0.73
1:D:79:PHE:HB3	1:E:190:ASP:OD2	1.87	0.73
1:D:132:PHE:HB3	1:D:255:PHE:CE1	2.23	0.73
1:D:466:TYR:OH	1:J:252:THR:HG22	1.85	0.73
1:E:60:ILE:HG22	1:E:100:TYR:CE2	2.22	0.73
1:G:182:VAL:HG11	1:H:28:GLU:HG2	1.69	0.73
1:H:111:ALA:CA	1:H:433:VAL:HG21	2.18	0.73
1:I:24:THR:HG22	1:I:25:LYS:N	2.03	0.73
1:I:309:ASN:O	1:I:313:ASN:HB2	1.87	0.73
1:I:339:ARG:C	1:I:339:ARG:HH11	1.91	0.73
1:J:132:PHE:HB3	1:J:255:PHE:CE1	2.23	0.73
1:K:92:LEU:N	1:K:97:LEU:N	2.36	0.73
1:L:19:LEU:CD2	1:L:240:TYR:CE2	2.71	0.73
1:A:314:PRO:O	1:A:318:SER:HB2	1.87	0.73
1:C:79:PHE:HB3	1:D:190:ASP:OD2	1.87	0.73
1:C:314:PRO:O	1:C:318:SER:HB2	1.87	0.73
1:D:17:VAL:HG12	1:D:33:ILE:O	1.88	0.73
1:D:156:GLY:N	1:D:215:THR:O	2.20	0.73
1:D:314:PRO:O	1:D:318:SER:HB2	1.88	0.73
1:E:17:VAL:HG12	1:E:33:ILE:O	1.88	0.73
1:E:339:ARG:C	1:E:339:ARG:HH11	1.91	0.73
1:E:398:ASP:O	1:E:399:LEU:C	2.25	0.73
1:F:75:VAL:HG23	1:F:84:THR:HB	1.70	0.73
1:F:314:PRO:O	1:F:318:SER:HB2	1.88	0.73
1:F:339:ARG:C	1:F:339:ARG:HH11	1.91	0.73
1:G:190:ASP:OD2	1:H:79:PHE:HB3	1.87	0.73
1:H:24:THR:HG22	1:H:25:LYS:N	2.03	0.73
1:H:79:PHE:CG	1:H:80:PHE:N	2.53	0.73
1:H:105:ARG:HH22	1:H:233:ASP:CG	1.90	0.73
1:H:339:ARG:C	1:H:339:ARG:HH11	1.91	0.73
1:H:398:ASP:O	1:H:399:LEU:C	2.25	0.73
1:I:132:PHE:HB3	1:I:255:PHE:CE1	2.23	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:398:ASP:O	1:I:399:LEU:C	2.25	0.73
1:J:314:PRO:O	1:J:318:SER:HB2	1.87	0.73
1:L:27:LYS:NZ	1:L:239:LYS:CE	2.50	0.73
1:A:214:ALA:CB	1:A:263:ASP:OD2	2.36	0.73
1:B:27:LYS:NZ	1:B:239:LYS:CE	2.50	0.73
1:B:28:GLU:HG2	1:C:182:VAL:HG11	1.70	0.73
1:C:414:LEU:HD21	1:C:418:LEU:CG	2.14	0.73
1:E:24:THR:HG22	1:E:25:LYS:N	2.03	0.73
1:E:446:ARG:HD2	1:E:446:ARG:H	1.51	0.73
1:F:50:ASP:O	1:F:51:GLY:O	2.06	0.73
1:G:17:VAL:HG12	1:G:33:ILE:O	1.87	0.73
1:G:111:ALA:CA	1:G:433:VAL:HG21	2.18	0.73
1:G:189:GLN:O	1:G:190:ASP:C	2.23	0.73
1:G:214:ALA:CB	1:G:263:ASP:OD2	2.36	0.73
1:H:75:VAL:HG23	1:H:84:THR:HB	1.70	0.73
1:I:296:TYR:HD1	1:I:385:LYS:O	1.72	0.73
1:J:17:VAL:HG12	1:J:33:ILE:O	1.88	0.73
1:J:27:LYS:NZ	1:J:239:LYS:CE	2.50	0.73
1:K:17:VAL:HG12	1:K:33:ILE:O	1.88	0.73
1:K:27:LYS:NZ	1:K:239:LYS:CE	2.50	0.73
1:K:309:ASN:O	1:K:313:ASN:HB2	1.87	0.73
1:L:57:TRP:HD1	1:L:58:LYS:N	1.86	0.73
1:L:339:ARG:C	1:L:339:ARG:HH11	1.90	0.73
1:A:111:ALA:CA	1:A:433:VAL:HG21	2.18	0.73
1:C:27:LYS:NZ	1:C:239:LYS:CE	2.50	0.73
1:D:27:LYS:NZ	1:D:239:LYS:CE	2.50	0.73
1:E:132:PHE:HB3	1:E:255:PHE:CE1	2.23	0.73
1:E:314:PRO:O	1:E:318:SER:HB2	1.87	0.73
1:E:433:VAL:O	1:E:434:PHE:HB2	1.88	0.73
1:F:19:LEU:CD2	1:F:240:TYR:CE2	2.71	0.73
1:F:24:THR:HG22	1:F:25:LYS:N	2.03	0.73
1:F:111:ALA:CA	1:F:433:VAL:HG21	2.18	0.73
1:F:398:ASP:O	1:F:399:LEU:C	2.26	0.73
1:I:17:VAL:HG12	1:I:33:ILE:O	1.88	0.73
1:I:18:ASP:OD2	1:I:19:LEU:N	2.19	0.73
1:I:314:PRO:O	1:I:318:SER:HB2	1.87	0.73
1:J:403:GLU:HA	1:J:405:LYS:CG	2.17	0.73
1:J:458:HIS:CD2	1:J:460:VAL:H	2.03	0.73
1:K:38:VAL:O	1:K:39:ASN:HB3	1.85	0.73
1:K:414:LEU:HD21	1:K:418:LEU:CG	2.14	0.73
1:L:79:PHE:CG	1:L:80:PHE:N	2.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:296:TYR:HD1	1:L:385:LYS:O	1.72	0.73
1:A:17:VAL:HG12	1:A:33:ILE:O	1.88	0.73
1:A:50:ASP:O	1:A:51:GLY:O	2.06	0.73
1:A:92:LEU:N	1:A:97:LEU:N	2.36	0.73
1:B:92:LEU:N	1:B:97:LEU:N	2.36	0.73
1:B:296:TYR:HD1	1:B:385:LYS:O	1.72	0.73
1:C:17:VAL:HG12	1:C:33:ILE:O	1.88	0.73
1:C:306:LYS:HG2	1:C:411:ALA:CB	2.12	0.73
1:D:339:ARG:C	1:D:339:ARG:HH11	1.90	0.73
1:E:18:ASP:OD2	1:E:19:LEU:N	2.20	0.73
1:E:316:THR:HG22	1:K:461:GLU:CD	2.09	0.73
1:F:92:LEU:N	1:F:97:LEU:N	2.36	0.73
1:G:92:LEU:N	1:G:97:LEU:N	2.36	0.73
1:G:446:ARG:HD2	1:G:446:ARG:N	2.00	0.73
1:H:92:LEU:N	1:H:97:LEU:N	2.36	0.73
1:H:190:ASP:OD2	1:I:79:PHE:HB3	1.87	0.73
1:I:92:LEU:N	1:I:97:LEU:N	2.36	0.73
1:L:105:ARG:HH22	1:L:233:ASP:CG	1.90	0.73
1:A:190:ASP:OD2	1:F:79:PHE:HB3	1.87	0.73
1:A:446:ARG:HD2	1:A:446:ARG:N	2.00	0.73
1:B:105:ARG:HH22	1:B:233:ASP:CG	1.90	0.73
1:C:339:ARG:C	1:C:339:ARG:HH11	1.90	0.73
1:C:461:GLU:CD	1:I:316:THR:HG22	2.09	0.73
1:D:50:ASP:O	1:D:51:GLY:O	2.05	0.73
1:E:128:PRO:HG2	1:E:235:ILE:HD11	1.69	0.73
1:F:27:LYS:CE	1:F:239:LYS:HZ1	2.01	0.73
1:G:433:VAL:O	1:G:434:PHE:HB2	1.88	0.73
1:H:19:LEU:CD2	1:H:240:TYR:CE2	2.71	0.73
1:H:27:LYS:CE	1:H:239:LYS:HZ1	2.01	0.73
1:I:128:PRO:HG2	1:I:235:ILE:HD11	1.69	0.73
1:I:433:VAL:O	1:I:434:PHE:HB2	1.88	0.73
1:J:19:LEU:CD2	1:J:240:TYR:CE2	2.71	0.73
1:J:175:VAL:H	1:J:215:THR:CG2	1.86	0.73
1:K:132:PHE:HB3	1:K:255:PHE:CE1	2.23	0.73
1:K:306:LYS:HG2	1:K:411:ALA:CB	2.12	0.73
1:A:182:VAL:HG11	1:F:28:GLU:HG2	1.70	0.73
1:B:27:LYS:NZ	1:B:239:LYS:HZ2	1.83	0.73
1:B:57:TRP:HD1	1:B:58:LYS:N	1.86	0.73
1:B:126:PHE:HE1	1:B:228:MET:HE3	1.54	0.73
1:C:38:VAL:O	1:C:39:ASN:HB3	1.85	0.73
1:C:50:ASP:O	1:C:51:GLY:O	2.05	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:132:PHE:HB3	1:C:255:PHE:CE1	2.23	0.73
1:D:14:VAL:HA	1:D:81:ALA:HB3	1.68	0.73
1:D:19:LEU:CD2	1:D:240:TYR:CE2	2.71	0.73
1:D:316:THR:HG22	1:J:461:GLU:CD	2.09	0.73
1:E:27:LYS:CE	1:E:239:LYS:HZ1	2.00	0.73
1:E:79:PHE:HB3	1:F:190:ASP:OD2	1.87	0.73
1:E:92:LEU:N	1:E:97:LEU:N	2.36	0.73
1:E:163:LYS:HZ2	1:E:163:LYS:HB2	1.52	0.73
1:E:296:TYR:HD1	1:E:385:LYS:O	1.72	0.73
1:F:58:LYS:CD	1:F:59:GLY:H	1.98	0.73
1:F:156:GLY:N	1:F:215:THR:O	2.20	0.73
1:F:257:PRO:O	1:F:265:GLY:HA3	1.89	0.73
1:F:385:LYS:CG	1:F:386:ILE:H	1.97	0.73
1:G:19:LEU:CD2	1:G:240:TYR:CE2	2.71	0.73
1:I:19:LEU:CD2	1:I:240:TYR:CE2	2.71	0.73
1:I:39:ASN:C	1:I:39:ASN:HD22	1.92	0.73
1:J:50:ASP:O	1:J:51:GLY:O	2.06	0.73
1:J:339:ARG:C	1:J:339:ARG:HH11	1.91	0.73
1:K:50:ASP:O	1:K:51:GLY:O	2.05	0.73
1:A:93:GLU:CG	1:A:94:PRO:HD3	2.18	0.73
1:C:75:VAL:HG23	1:C:84:THR:HB	1.70	0.73
1:C:79:PHE:CG	1:C:80:PHE:N	2.53	0.73
1:C:465:TYR:CE2	1:I:315:THR:HG21	2.06	0.73
1:D:39:ASN:C	1:D:39:ASN:HD22	1.92	0.73
1:E:19:LEU:CD2	1:E:240:TYR:CE2	2.71	0.73
1:E:39:ASN:C	1:E:39:ASN:HD22	1.92	0.73
1:G:50:ASP:O	1:G:51:GLY:O	2.06	0.73
1:H:17:VAL:HG12	1:H:33:ILE:O	1.88	0.73
1:H:156:GLY:N	1:H:215:THR:O	2.20	0.73
1:J:14:VAL:HA	1:J:81:ALA:HB3	1.68	0.73
1:L:58:LYS:CD	1:L:59:GLY:H	1.98	0.73
1:A:15:LYS:O	1:A:16:PHE:CB	2.37	0.73
1:B:58:LYS:CD	1:B:59:GLY:H	1.98	0.73
1:B:257:PRO:O	1:B:265:GLY:HA3	1.89	0.73
1:B:331:MET:HE3	1:B:396:LEU:HD12	1.70	0.73
1:B:399:LEU:C	1:B:401:PRO:HD2	2.09	0.73
1:B:461:GLU:CD	1:H:316:THR:HG22	2.09	0.73
1:C:296:TYR:HD1	1:C:385:LYS:O	1.72	0.73
1:D:458:HIS:CD2	1:D:460:VAL:H	2.03	0.73
1:D:461:GLU:CD	1:J:316:THR:HG22	2.09	0.73
1:F:17:VAL:HG12	1:F:33:ILE:O	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:316:THR:HG22	1:L:461:GLU:CD	2.09	0.73
1:F:433:VAL:O	1:F:434:PHE:HB2	1.88	0.73
1:G:15:LYS:O	1:G:16:PHE:CB	2.37	0.73
1:G:88:ARG:HH21	1:G:109:LYS:CE	2.02	0.73
1:H:58:LYS:CD	1:H:59:GLY:H	1.98	0.73
1:H:257:PRO:O	1:H:265:GLY:HA3	1.89	0.73
1:J:75:VAL:CG2	1:J:84:THR:HB	2.19	0.73
1:K:296:TYR:HD1	1:K:385:LYS:O	1.72	0.73
1:L:92:LEU:N	1:L:97:LEU:N	2.36	0.73
1:L:257:PRO:O	1:L:265:GLY:HA3	1.89	0.73
1:A:257:PRO:O	1:A:265:GLY:HA3	1.89	0.73
1:A:433:VAL:O	1:A:434:PHE:HB2	1.88	0.73
1:B:132:PHE:HB3	1:B:255:PHE:CE1	2.23	0.73
1:C:28:GLU:HG2	1:D:182:VAL:HG11	1.70	0.73
1:E:58:LYS:CD	1:E:59:GLY:H	1.98	0.73
1:E:315:THR:HG21	1:K:465:TYR:CE2	2.05	0.73
1:F:75:VAL:CG2	1:F:84:THR:HB	2.19	0.73
1:G:257:PRO:O	1:G:265:GLY:HA3	1.89	0.73
1:H:385:LYS:CG	1:H:386:ILE:H	1.98	0.73
1:I:257:PRO:O	1:I:265:GLY:HA3	1.89	0.73
1:J:182:VAL:HG11	1:K:28:GLU:HG2	1.70	0.73
1:K:75:VAL:HG23	1:K:84:THR:HB	1.70	0.73
1:K:79:PHE:CG	1:K:80:PHE:N	2.53	0.73
1:L:88:ARG:HH21	1:L:109:LYS:CE	2.02	0.73
1:L:399:LEU:C	1:L:401:PRO:HD2	2.10	0.73
1:A:19:LEU:CD2	1:A:240:TYR:CE2	2.71	0.72
1:A:88:ARG:HH21	1:A:109:LYS:CE	2.02	0.72
1:C:257:PRO:O	1:C:265:GLY:HA3	1.89	0.72
1:F:252:THR:HG21	1:L:466:TYR:HH	1.51	0.72
1:F:289:GLY:HA3	1:F:354:ARG:NE	2.04	0.72
1:G:93:GLU:CG	1:G:94:PRO:HD3	2.18	0.72
1:G:399:LEU:C	1:G:401:PRO:HD2	2.09	0.72
1:H:75:VAL:CG2	1:H:84:THR:HB	2.19	0.72
1:H:433:VAL:O	1:H:434:PHE:HB2	1.88	0.72
1:J:92:LEU:N	1:J:97:LEU:N	2.36	0.72
1:K:339:ARG:C	1:K:339:ARG:HH11	1.91	0.72
1:K:407:ILE:CD1	1:K:408:PRO:HD2	2.16	0.72
1:A:399:LEU:C	1:A:401:PRO:HD2	2.10	0.72
1:B:27:LYS:CE	1:B:239:LYS:HZ1	2.02	0.72
1:B:88:ARG:HH21	1:B:109:LYS:CE	2.02	0.72
1:E:50:ASP:O	1:E:51:GLY:O	2.06	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:257:PRO:O	1:E:265:GLY:HA3	1.89	0.72
1:E:414:LEU:HD21	1:E:418:LEU:CG	2.14	0.72
1:F:128:PRO:HG2	1:F:235:ILE:HD11	1.69	0.72
1:G:182:VAL:HG13	1:H:28:GLU:CG	2.20	0.72
1:G:385:LYS:CG	1:G:386:ILE:N	2.50	0.72
1:H:128:PRO:HG2	1:H:235:ILE:HD11	1.69	0.72
1:H:289:GLY:HA3	1:H:354:ARG:NE	2.04	0.72
1:I:50:ASP:O	1:I:51:GLY:O	2.06	0.72
1:J:58:LYS:CD	1:J:59:GLY:H	1.98	0.72
1:J:296:TYR:HD1	1:J:385:LYS:O	1.72	0.72
1:K:27:LYS:CE	1:K:239:LYS:HZ1	2.01	0.72
1:K:93:GLU:CG	1:K:94:PRO:HD3	2.18	0.72
1:K:257:PRO:O	1:K:265:GLY:HA3	1.89	0.72
1:L:132:PHE:HB3	1:L:255:PHE:CE1	2.23	0.72
1:A:75:VAL:C	1:A:76:ILE:O	2.21	0.72
1:A:385:LYS:CG	1:A:386:ILE:N	2.50	0.72
1:B:75:VAL:HG23	1:B:84:THR:HB	1.70	0.72
1:B:306:LYS:HG2	1:B:411:ALA:CB	2.11	0.72
1:C:19:LEU:CD2	1:C:240:TYR:CE2	2.71	0.72
1:C:42:PHE:CE2	1:C:66:VAL:CG2	2.73	0.72
1:D:296:TYR:HD1	1:D:385:LYS:O	1.72	0.72
1:E:75:VAL:CG2	1:E:84:THR:HB	2.19	0.72
1:G:19:LEU:HD22	1:G:240:TYR:CE2	2.25	0.72
1:G:57:TRP:HD1	1:G:58:LYS:N	1.86	0.72
1:I:27:LYS:CE	1:I:239:LYS:HZ1	2.01	0.72
1:I:75:VAL:CG2	1:I:84:THR:HB	2.19	0.72
1:I:414:LEU:HD21	1:I:418:LEU:CG	2.14	0.72
1:L:27:LYS:CE	1:L:239:LYS:HZ1	2.02	0.72
1:L:79:PHE:CD1	1:L:80:PHE:CB	2.73	0.72
1:A:18:ASP:OD2	1:A:19:LEU:N	2.20	0.72
1:A:58:LYS:CD	1:A:59:GLY:H	1.98	0.72
1:A:182:VAL:HG13	1:F:28:GLU:CG	2.20	0.72
1:A:289:GLY:HA3	1:A:354:ARG:NE	2.04	0.72
1:A:316:THR:HG22	1:G:461:GLU:CD	2.09	0.72
1:A:385:LYS:CG	1:A:386:ILE:H	1.98	0.72
1:B:79:PHE:CD1	1:B:80:PHE:CB	2.73	0.72
1:C:27:LYS:CE	1:C:239:LYS:HZ1	2.01	0.72
1:C:93:GLU:CG	1:C:94:PRO:HD3	2.18	0.72
1:C:407:ILE:CD1	1:C:408:PRO:HD2	2.16	0.72
1:D:57:TRP:HD1	1:D:58:LYS:N	1.86	0.72
1:D:58:LYS:CD	1:D:59:GLY:H	1.98	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:75:VAL:CG2	1:D:84:THR:HB	2.20	0.72
1:D:175:VAL:H	1:D:215:THR:CG2	1.86	0.72
1:D:315:THR:HG21	1:J:465:TYR:CE2	2.05	0.72
1:D:465:TYR:CE2	1:J:315:THR:HG21	2.06	0.72
1:F:18:ASP:O	1:F:21:PHE:CD2	2.43	0.72
1:G:18:ASP:OD2	1:G:19:LEU:N	2.19	0.72
1:G:24:THR:HG22	1:G:25:LYS:N	2.03	0.72
1:G:289:GLY:HA3	1:G:354:ARG:NE	2.04	0.72
1:H:18:ASP:O	1:H:21:PHE:CD2	2.43	0.72
1:H:296:TYR:HD1	1:H:385:LYS:O	1.72	0.72
1:H:399:LEU:C	1:H:401:PRO:HD2	2.09	0.72
1:J:39:ASN:C	1:J:39:ASN:HD22	1.92	0.72
1:J:75:VAL:HG23	1:J:84:THR:HB	1.70	0.72
1:K:42:PHE:CE2	1:K:66:VAL:CG2	2.73	0.72
1:L:306:LYS:HG2	1:L:411:ALA:CB	2.11	0.72
1:A:24:THR:HG22	1:A:25:LYS:N	2.03	0.72
1:A:57:TRP:HD1	1:A:58:LYS:N	1.86	0.72
1:A:296:TYR:HD1	1:A:385:LYS:O	1.72	0.72
1:A:461:GLU:CD	1:G:316:THR:HG22	2.09	0.72
1:C:315:THR:HG23	1:I:465:TYR:HE2	1.47	0.72
1:D:18:ASP:O	1:D:21:PHE:CD2	2.43	0.72
1:D:88:ARG:HH21	1:D:109:LYS:CE	2.02	0.72
1:D:92:LEU:N	1:D:97:LEU:N	2.36	0.72
1:E:289:GLY:HA3	1:E:354:ARG:NE	2.04	0.72
1:E:465:TYR:HE2	1:K:315:THR:HG23	1.47	0.72
1:F:399:LEU:C	1:F:401:PRO:HD2	2.10	0.72
1:G:75:VAL:C	1:G:76:ILE:O	2.21	0.72
1:G:125:LEU:HD23	1:G:125:LEU:N	2.05	0.72
1:G:296:TYR:HD1	1:G:385:LYS:O	1.72	0.72
1:H:132:PHE:HB3	1:H:255:PHE:CE1	2.23	0.72
1:I:58:LYS:CD	1:I:59:GLY:H	1.98	0.72
1:J:336:ALA:N	1:J:345:ILE:HD11	2.05	0.72
1:L:93:GLU:CG	1:L:94:PRO:HD3	2.18	0.72
1:B:42:PHE:CE2	1:B:66:VAL:CG2	2.73	0.72
1:C:16:PHE:CD1	1:C:79:PHE:HE1	2.08	0.72
1:C:316:THR:HG22	1:I:461:GLU:CD	2.09	0.72
1:D:336:ALA:N	1:D:345:ILE:HD11	2.05	0.72
1:E:18:ASP:O	1:E:21:PHE:CD2	2.43	0.72
1:F:15:LYS:O	1:F:16:PHE:CB	2.37	0.72
1:F:132:PHE:HB3	1:F:255:PHE:CE1	2.23	0.72
1:F:296:TYR:HD1	1:F:385:LYS:O	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:289:GLY:HA3	1:I:354:ARG:NE	2.04	0.72
1:J:16:PHE:CD1	1:J:79:PHE:HE1	2.08	0.72
1:J:18:ASP:O	1:J:21:PHE:CD2	2.43	0.72
1:J:42:PHE:CE2	1:J:66:VAL:CG2	2.73	0.72
1:J:57:TRP:HD1	1:J:58:LYS:N	1.86	0.72
1:K:19:LEU:CD2	1:K:240:TYR:CE2	2.71	0.72
1:L:42:PHE:CE2	1:L:66:VAL:CG2	2.73	0.72
1:A:19:LEU:HD22	1:A:240:TYR:CE2	2.25	0.72
1:A:75:VAL:CG2	1:A:84:THR:HB	2.20	0.72
1:A:125:LEU:N	1:A:125:LEU:HD23	2.05	0.72
1:B:93:GLU:CG	1:B:94:PRO:HD3	2.18	0.72
1:C:75:VAL:CG2	1:C:84:THR:HB	2.20	0.72
1:E:405:LYS:CG	1:E:406:GLU:N	2.53	0.72
1:F:332:LEU:HD12	1:F:332:LEU:N	2.05	0.72
1:G:132:PHE:HB3	1:G:255:PHE:CE1	2.23	0.72
1:G:385:LYS:CG	1:G:386:ILE:H	1.98	0.72
1:L:75:VAL:HG23	1:L:84:THR:HB	1.70	0.72
1:B:15:LYS:O	1:B:16:PHE:CB	2.37	0.72
1:B:314:PRO:O	1:B:318:SER:HB2	1.88	0.72
1:C:390:GLU:CB	1:C:391:PRO:HD2	2.20	0.72
1:D:16:PHE:CD1	1:D:79:PHE:HE1	2.08	0.72
1:D:42:PHE:CE2	1:D:66:VAL:CG2	2.73	0.72
1:D:185:VAL:HG12	1:D:185:VAL:O	1.90	0.72
1:E:16:PHE:CD1	1:E:79:PHE:HE1	2.08	0.72
1:E:461:GLU:CD	1:K:316:THR:HG22	2.09	0.72
1:F:88:ARG:HH21	1:F:109:LYS:CE	2.02	0.72
1:G:18:ASP:O	1:G:21:PHE:CD2	2.43	0.72
1:G:58:LYS:CD	1:G:59:GLY:H	1.98	0.72
1:G:75:VAL:CG2	1:G:84:THR:HB	2.20	0.72
1:H:88:ARG:HH21	1:H:109:LYS:CE	2.02	0.72
1:H:332:LEU:HD12	1:H:332:LEU:N	2.05	0.72
1:H:390:GLU:CB	1:H:391:PRO:HD2	2.20	0.72
1:I:16:PHE:CD1	1:I:79:PHE:HE1	2.08	0.72
1:I:336:ALA:N	1:I:345:ILE:HD11	2.05	0.72
1:I:405:LYS:CG	1:I:406:GLU:N	2.53	0.72
1:J:88:ARG:HH21	1:J:109:LYS:CE	2.02	0.72
1:J:185:VAL:O	1:J:185:VAL:HG12	1.90	0.72
1:J:399:LEU:C	1:J:401:PRO:HD2	2.10	0.72
1:K:16:PHE:CD1	1:K:79:PHE:HE1	2.08	0.72
1:K:58:LYS:CD	1:K:59:GLY:H	1.98	0.72
1:K:75:VAL:CG2	1:K:84:THR:HB	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:79:PHE:CD1	1:K:80:PHE:CB	2.73	0.72
1:K:331:MET:HE2	1:K:396:LEU:HD12	1.72	0.72
1:L:125:LEU:N	1:L:125:LEU:HD23	2.04	0.72
1:L:314:PRO:O	1:L:318:SER:HB2	1.87	0.72
1:L:437:GLU:O	1:L:440:ASP:N	2.23	0.72
1:A:18:ASP:O	1:A:21:PHE:CD2	2.43	0.72
1:A:79:PHE:CD1	1:A:80:PHE:CB	2.73	0.72
1:A:132:PHE:HB3	1:A:255:PHE:CE1	2.23	0.72
1:B:437:GLU:O	1:B:440:ASP:N	2.23	0.72
1:C:18:ASP:O	1:C:21:PHE:CD2	2.43	0.72
1:C:19:LEU:HD22	1:C:240:TYR:CE2	2.25	0.72
1:C:58:LYS:CD	1:C:59:GLY:H	1.98	0.72
1:C:79:PHE:CD1	1:C:80:PHE:CB	2.73	0.72
1:C:88:ARG:HH21	1:C:109:LYS:CE	2.02	0.72
1:D:19:LEU:HD22	1:D:240:TYR:CE2	2.25	0.72
1:D:28:GLU:HG2	1:E:182:VAL:HG11	1.69	0.72
1:D:75:VAL:HG23	1:D:84:THR:HB	1.70	0.72
1:D:399:LEU:C	1:D:401:PRO:HD2	2.10	0.72
1:D:433:VAL:O	1:D:434:PHE:HB2	1.88	0.72
1:E:336:ALA:N	1:E:345:ILE:HD11	2.05	0.72
1:G:79:PHE:CD1	1:G:80:PHE:CB	2.73	0.72
1:H:336:ALA:N	1:H:345:ILE:HD11	2.05	0.72
1:I:18:ASP:O	1:I:21:PHE:CD2	2.43	0.72
1:I:390:GLU:CB	1:I:391:PRO:HD2	2.20	0.72
1:I:437:GLU:O	1:I:440:ASP:N	2.23	0.72
1:J:19:LEU:HD22	1:J:240:TYR:CE2	2.25	0.72
1:K:2:ALA:O	1:K:6:LEU:HD23	1.90	0.72
1:K:88:ARG:HH21	1:K:109:LYS:CE	2.02	0.72
1:C:433:VAL:O	1:C:434:PHE:HB2	1.88	0.72
1:E:437:GLU:O	1:E:440:ASP:N	2.23	0.72
1:F:325:GLY:HA3	1:F:328:ALA:HB3	1.72	0.72
1:F:336:ALA:N	1:F:345:ILE:HD11	2.05	0.72
1:H:325:GLY:HA3	1:H:328:ALA:HB3	1.72	0.72
1:I:182:VAL:HG11	1:J:28:GLU:HG2	1.69	0.72
1:K:18:ASP:O	1:K:21:PHE:CD2	2.43	0.72
1:C:2:ALA:O	1:C:6:LEU:HD23	1.91	0.71
1:C:331:MET:HE2	1:C:396:LEU:HD12	1.72	0.71
1:D:27:LYS:CE	1:D:239:LYS:HZ1	2.00	0.71
1:D:385:LYS:HG3	1:D:386:ILE:N	2.04	0.71
1:F:16:PHE:CD1	1:F:79:PHE:HE1	2.08	0.71
1:F:390:GLU:CB	1:F:391:PRO:HD2	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:385:LYS:HG3	1:J:386:ILE:N	2.04	0.71
1:J:407:ILE:CD1	1:J:408:PRO:HD2	2.16	0.71
1:J:433:VAL:O	1:J:434:PHE:HB2	1.88	0.71
1:K:399:LEU:C	1:K:401:PRO:HD2	2.09	0.71
1:A:75:VAL:HG23	1:A:84:THR:HB	1.70	0.71
1:B:336:ALA:N	1:B:345:ILE:HD11	2.05	0.71
1:C:385:LYS:CG	1:C:386:ILE:N	2.50	0.71
1:C:405:LYS:CG	1:C:406:GLU:N	2.53	0.71
1:E:28:GLU:CG	1:F:182:VAL:HG13	2.20	0.71
1:E:68:MET:N	1:E:69:PRO:CD	2.54	0.71
1:I:19:LEU:HD22	1:I:240:TYR:CE2	2.25	0.71
1:I:88:ARG:HH21	1:I:109:LYS:CE	2.02	0.71
1:I:125:LEU:HD23	1:I:125:LEU:N	2.05	0.71
1:K:182:VAL:HG13	1:L:28:GLU:CG	2.20	0.71
1:K:390:GLU:CB	1:K:391:PRO:HD2	2.20	0.71
1:A:16:PHE:CD1	1:A:79:PHE:HE1	2.08	0.71
1:A:325:GLY:HA3	1:A:328:ALA:HB3	1.72	0.71
1:B:28:GLU:CG	1:C:182:VAL:HG13	2.20	0.71
1:B:125:LEU:HD23	1:B:125:LEU:N	2.05	0.71
1:B:325:GLY:HA3	1:B:328:ALA:HB3	1.72	0.71
1:B:433:VAL:O	1:B:434:PHE:HB2	1.88	0.71
1:C:325:GLY:HA3	1:C:328:ALA:HB3	1.72	0.71
1:C:399:LEU:C	1:C:401:PRO:HD2	2.10	0.71
1:D:2:ALA:O	1:D:6:LEU:HD23	1.91	0.71
1:E:2:ALA:O	1:E:6:LEU:HD23	1.90	0.71
1:E:19:LEU:HD22	1:E:240:TYR:CE2	2.25	0.71
1:E:125:LEU:N	1:E:125:LEU:HD23	2.05	0.71
1:E:345:ILE:CD1	1:E:345:ILE:N	2.31	0.71
1:E:390:GLU:CB	1:E:391:PRO:HD2	2.20	0.71
1:F:91:ILE:C	1:F:97:LEU:O	2.29	0.71
1:F:437:GLU:O	1:F:440:ASP:N	2.23	0.71
1:G:16:PHE:CD1	1:G:79:PHE:HE1	2.08	0.71
1:G:325:GLY:HA3	1:G:328:ALA:HB3	1.72	0.71
1:H:16:PHE:CD1	1:H:79:PHE:HE1	2.08	0.71
1:H:125:LEU:N	1:H:125:LEU:HD23	2.05	0.71
1:I:68:MET:N	1:I:69:PRO:CD	2.54	0.71
1:J:15:LYS:O	1:J:16:PHE:CB	2.37	0.71
1:J:325:GLY:HA3	1:J:328:ALA:HB3	1.72	0.71
1:J:405:LYS:CG	1:J:406:GLU:N	2.53	0.71
1:K:19:LEU:HD22	1:K:240:TYR:CE2	2.25	0.71
1:K:289:GLY:HA3	1:K:354:ARG:NE	2.04	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:345:ILE:CD1	1:K:345:ILE:N	2.31	0.71
1:K:385:LYS:CG	1:K:386:ILE:N	2.50	0.71
1:K:405:LYS:CG	1:K:406:GLU:N	2.53	0.71
1:K:437:GLU:O	1:K:440:ASP:N	2.23	0.71
1:L:91:ILE:C	1:L:97:LEU:O	2.29	0.71
1:L:185:VAL:HG12	1:L:185:VAL:O	1.90	0.71
1:B:19:LEU:O	1:B:20:ARG:CB	2.39	0.71
1:B:75:VAL:CG2	1:B:84:THR:HB	2.19	0.71
1:C:156:GLY:CA	1:C:216:ALA:HB2	2.20	0.71
1:C:437:GLU:O	1:C:440:ASP:N	2.23	0.71
1:D:125:LEU:N	1:D:125:LEU:HD23	2.04	0.71
1:D:257:PRO:O	1:D:265:GLY:HA3	1.89	0.71
1:E:88:ARG:HH21	1:E:109:LYS:CE	2.02	0.71
1:E:91:ILE:C	1:E:97:LEU:O	2.29	0.71
1:E:399:LEU:C	1:E:401:PRO:HD2	2.09	0.71
1:F:42:PHE:CE2	1:F:66:VAL:CG2	2.73	0.71
1:F:331:MET:HE3	1:F:396:LEU:HD12	1.72	0.71
1:G:414:LEU:O	1:G:415:GLU:C	2.29	0.71
1:H:42:PHE:CE2	1:H:66:VAL:CG2	2.73	0.71
1:H:82:ASP:OD1	1:H:82:ASP:N	2.16	0.71
1:H:90:ASP:O	1:H:91:ILE:HG22	1.91	0.71
1:H:91:ILE:C	1:H:97:LEU:O	2.29	0.71
1:H:156:GLY:CA	1:H:216:ALA:HB2	2.20	0.71
1:H:182:VAL:HG13	1:I:28:GLU:CG	2.20	0.71
1:H:437:GLU:O	1:H:440:ASP:N	2.23	0.71
1:J:2:ALA:O	1:J:6:LEU:HD23	1.91	0.71
1:K:156:GLY:CA	1:K:216:ALA:HB2	2.20	0.71
1:K:325:GLY:HA3	1:K:328:ALA:HB3	1.72	0.71
1:L:19:LEU:O	1:L:20:ARG:CB	2.39	0.71
1:L:75:VAL:CG2	1:L:84:THR:HB	2.19	0.71
1:L:336:ALA:N	1:L:345:ILE:HD11	2.05	0.71
1:L:414:LEU:O	1:L:415:GLU:C	2.29	0.71
1:L:433:VAL:O	1:L:434:PHE:HB2	1.88	0.71
1:A:27:LYS:NZ	1:A:239:LYS:HZ2	1.87	0.71
1:A:376:MET:HE1	1:A:433:VAL:CG1	2.10	0.71
1:A:414:LEU:O	1:A:415:GLU:C	2.29	0.71
1:B:16:PHE:CD1	1:B:79:PHE:HE1	2.08	0.71
1:B:18:ASP:OD2	1:B:19:LEU:N	2.20	0.71
1:B:91:ILE:C	1:B:97:LEU:O	2.29	0.71
1:B:289:GLY:HA3	1:B:354:ARG:NE	2.04	0.71
1:B:390:GLU:CB	1:B:391:PRO:HD2	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:414:LEU:O	1:B:415:GLU:C	2.29	0.71
1:C:289:GLY:HA3	1:C:354:ARG:NE	2.04	0.71
1:C:336:ALA:N	1:C:345:ILE:HD11	2.05	0.71
1:D:15:LYS:O	1:D:16:PHE:CB	2.37	0.71
1:D:72:SER:C	1:D:73:THR:CG2	2.59	0.71
1:D:405:LYS:CG	1:D:406:GLU:N	2.53	0.71
1:D:407:ILE:CD1	1:D:408:PRO:HD2	2.16	0.71
1:E:315:THR:HG23	1:K:465:TYR:HE2	1.47	0.71
1:F:79:PHE:CD1	1:F:80:PHE:CB	2.73	0.71
1:F:385:LYS:HG3	1:F:386:ILE:N	2.04	0.71
1:G:437:GLU:O	1:G:440:ASP:N	2.23	0.71
1:H:79:PHE:CD1	1:H:80:PHE:CB	2.73	0.71
1:I:91:ILE:C	1:I:97:LEU:O	2.29	0.71
1:I:325:GLY:HA3	1:I:328:ALA:HB3	1.72	0.71
1:J:68:MET:N	1:J:69:PRO:CD	2.53	0.71
1:J:72:SER:C	1:J:73:THR:CG2	2.59	0.71
1:J:79:PHE:CD1	1:J:80:PHE:CB	2.73	0.71
1:J:257:PRO:O	1:J:265:GLY:HA3	1.89	0.71
1:K:72:SER:C	1:K:73:THR:CG2	2.59	0.71
1:K:433:VAL:O	1:K:434:PHE:HB2	1.88	0.71
1:L:16:PHE:CD1	1:L:79:PHE:HE1	2.08	0.71
1:L:18:ASP:OD2	1:L:19:LEU:N	2.19	0.71
1:L:325:GLY:HA3	1:L:328:ALA:HB3	1.73	0.71
1:A:91:ILE:C	1:A:97:LEU:O	2.29	0.71
1:A:385:LYS:HG3	1:A:386:ILE:N	2.04	0.71
1:B:19:LEU:HD22	1:B:240:TYR:CE2	2.25	0.71
1:B:185:VAL:HG12	1:B:185:VAL:O	1.90	0.71
1:B:316:THR:HG22	1:H:461:GLU:CD	2.09	0.71
1:D:19:LEU:O	1:D:20:ARG:CB	2.39	0.71
1:D:79:PHE:CD1	1:D:80:PHE:CB	2.73	0.71
1:D:437:GLU:O	1:D:440:ASP:N	2.23	0.71
1:E:28:GLU:HG2	1:F:182:VAL:HG11	1.70	0.71
1:E:75:VAL:C	1:E:76:ILE:O	2.21	0.71
1:F:125:LEU:HD23	1:F:125:LEU:N	2.05	0.71
1:G:75:VAL:HG23	1:G:84:THR:HB	1.70	0.71
1:H:103:ASP:O	1:H:106:SER:N	2.24	0.71
1:I:2:ALA:O	1:I:6:LEU:HD23	1.91	0.71
1:I:339:ARG:CG	1:I:340:SER:N	2.49	0.71
1:I:385:LYS:HG3	1:I:386:ILE:N	2.05	0.71
1:I:399:LEU:C	1:I:401:PRO:HD2	2.10	0.71
1:J:437:GLU:O	1:J:440:ASP:N	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:39:ASN:HD22	1:K:39:ASN:C	1.92	0.71
1:K:336:ALA:N	1:K:345:ILE:HD11	2.05	0.71
1:L:19:LEU:HD22	1:L:240:TYR:CE2	2.25	0.71
1:A:42:PHE:CE2	1:A:66:VAL:CG2	2.73	0.71
1:A:437:GLU:O	1:A:440:ASP:N	2.23	0.71
1:A:458:HIS:HD2	1:A:460:VAL:N	1.89	0.71
1:C:72:SER:C	1:C:73:THR:CG2	2.59	0.71
1:C:91:ILE:C	1:C:97:LEU:O	2.29	0.71
1:D:274:LEU:HD11	1:D:282:PHE:HE1	1.54	0.71
1:D:325:GLY:HA3	1:D:328:ALA:HB3	1.73	0.71
1:E:72:SER:C	1:E:73:THR:CG2	2.59	0.71
1:E:332:LEU:HD12	1:E:332:LEU:N	2.05	0.71
1:E:339:ARG:CG	1:E:340:SER:N	2.49	0.71
1:E:385:LYS:HG3	1:E:386:ILE:N	2.05	0.71
1:F:103:ASP:O	1:F:106:SER:N	2.24	0.71
1:F:163:LYS:HZ2	1:F:163:LYS:HB2	1.56	0.71
1:G:27:LYS:NZ	1:G:239:LYS:HZ2	1.87	0.71
1:G:458:HIS:HD2	1:G:460:VAL:N	1.88	0.71
1:H:2:ALA:O	1:H:6:LEU:HD23	1.91	0.71
1:H:228:MET:HE2	1:H:371:PHE:C	2.11	0.71
1:H:405:LYS:CG	1:H:406:GLU:N	2.53	0.71
1:I:72:SER:C	1:I:73:THR:CG2	2.59	0.71
1:J:156:GLY:CA	1:J:216:ALA:HB2	2.21	0.71
1:L:18:ASP:O	1:L:21:PHE:CD2	2.43	0.71
1:L:65:MET:C	1:L:87:ILE:HG23	2.11	0.71
1:A:103:ASP:H	1:A:104:PRO:CD	1.99	0.71
1:B:18:ASP:O	1:B:21:PHE:CD2	2.43	0.71
1:C:39:ASN:HD22	1:C:39:ASN:C	1.92	0.71
1:D:91:ILE:C	1:D:97:LEU:O	2.29	0.71
1:D:156:GLY:CA	1:D:216:ALA:HB2	2.21	0.71
1:D:228:MET:HE2	1:D:371:PHE:C	2.11	0.71
1:E:57:TRP:HD1	1:E:58:LYS:N	1.86	0.71
1:E:103:ASP:O	1:E:106:SER:N	2.24	0.71
1:E:325:GLY:HA3	1:E:328:ALA:HB3	1.72	0.71
1:F:2:ALA:O	1:F:6:LEU:HD23	1.91	0.71
1:F:90:ASP:O	1:F:91:ILE:HG22	1.91	0.71
1:F:156:GLY:CA	1:F:216:ALA:HB2	2.21	0.71
1:F:405:LYS:CG	1:F:406:GLU:N	2.53	0.71
1:F:461:GLU:CD	1:L:316:THR:HG22	2.09	0.71
1:G:42:PHE:CE2	1:G:66:VAL:CG2	2.73	0.71
1:G:90:ASP:O	1:G:91:ILE:HG22	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:103:ASP:H	1:G:104:PRO:CD	1.99	0.71
1:I:332:LEU:HD12	1:I:332:LEU:N	2.05	0.71
1:I:345:ILE:CD1	1:I:345:ILE:N	2.31	0.71
1:J:19:LEU:O	1:J:20:ARG:CB	2.39	0.71
1:J:289:GLY:HA3	1:J:354:ARG:NE	2.04	0.71
1:K:332:LEU:HD12	1:K:332:LEU:N	2.05	0.71
1:L:289:GLY:HA3	1:L:354:ARG:NE	2.05	0.71
1:L:385:LYS:CG	1:L:386:ILE:N	2.50	0.71
1:L:390:GLU:CB	1:L:391:PRO:HD2	2.20	0.71
1:A:28:GLU:CG	1:B:182:VAL:HG13	2.19	0.71
1:A:274:LEU:HD11	1:A:282:PHE:HE1	1.54	0.71
1:B:63:SER:HG	1:B:91:ILE:HG22	1.56	0.71
1:B:103:ASP:H	1:B:104:PRO:CD	1.99	0.71
1:B:385:LYS:CG	1:B:386:ILE:N	2.50	0.71
1:C:332:LEU:HD12	1:C:332:LEU:N	2.05	0.71
1:C:414:LEU:O	1:C:415:GLU:C	2.29	0.71
1:D:289:GLY:HA3	1:D:354:ARG:NE	2.04	0.71
1:E:42:PHE:CE1	1:E:66:VAL:HG11	2.26	0.71
1:F:39:ASN:C	1:F:39:ASN:HD22	1.92	0.71
1:F:82:ASP:OD1	1:F:82:ASP:N	2.16	0.71
1:F:458:HIS:HD2	1:F:460:VAL:N	1.89	0.71
1:G:91:ILE:C	1:G:97:LEU:O	2.29	0.71
1:G:274:LEU:HD11	1:G:282:PHE:HE1	1.54	0.71
1:G:385:LYS:HG3	1:G:386:ILE:N	2.04	0.71
1:H:39:ASN:C	1:H:39:ASN:HD22	1.92	0.71
1:H:57:TRP:HD1	1:H:58:LYS:N	1.86	0.71
1:H:182:VAL:HG11	1:I:28:GLU:HG2	1.70	0.71
1:I:90:ASP:O	1:I:91:ILE:HG22	1.91	0.71
1:I:429:LYS:HD2	1:I:436:ASP:OD1	1.91	0.71
1:J:125:LEU:HD23	1:J:125:LEU:N	2.05	0.71
1:K:91:ILE:C	1:K:97:LEU:O	2.29	0.71
1:A:336:ALA:N	1:A:345:ILE:HD11	2.05	0.71
1:B:65:MET:C	1:B:87:ILE:HG23	2.12	0.71
1:B:465:TYR:CE2	1:H:315:THR:HG21	2.06	0.71
1:C:24:THR:HG22	1:C:25:LYS:H	1.56	0.71
1:C:125:LEU:HD23	1:C:125:LEU:N	2.05	0.71
1:C:180:PHE:N	1:C:181:PRO:CD	2.54	0.71
1:C:465:TYR:HE2	1:I:315:THR:HG23	1.48	0.71
1:D:28:GLU:CG	1:E:182:VAL:HG13	2.20	0.71
1:E:42:PHE:CE2	1:E:66:VAL:CG2	2.73	0.71
1:E:90:ASP:O	1:E:91:ILE:HG22	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:274:LEU:HD11	1:E:282:PHE:HE1	1.54	0.71
1:E:429:LYS:HD2	1:E:436:ASP:OD1	1.91	0.71
1:F:42:PHE:CE1	1:F:66:VAL:HG11	2.26	0.71
1:G:39:ASN:ND2	1:G:39:ASN:C	2.44	0.71
1:G:339:ARG:C	1:G:341:ALA:N	2.35	0.71
1:H:42:PHE:CE1	1:H:66:VAL:HG11	2.26	0.71
1:H:458:HIS:HD2	1:H:460:VAL:N	1.89	0.71
1:I:57:TRP:HD1	1:I:58:LYS:N	1.86	0.71
1:I:103:ASP:O	1:I:106:SER:N	2.24	0.71
1:I:182:VAL:HG13	1:J:28:GLU:CG	2.20	0.71
1:J:91:ILE:C	1:J:97:LEU:O	2.29	0.71
1:J:228:MET:HE2	1:J:371:PHE:C	2.11	0.71
1:K:24:THR:HG22	1:K:25:LYS:H	1.56	0.71
1:K:414:LEU:O	1:K:415:GLU:C	2.29	0.71
1:L:103:ASP:H	1:L:104:PRO:CD	1.99	0.71
1:L:332:LEU:HD12	1:L:332:LEU:N	2.05	0.71
1:A:27:LYS:HZ2	1:A:239:LYS:NZ	1.87	0.70
1:A:180:PHE:N	1:A:181:PRO:CD	2.54	0.70
1:A:332:LEU:HD12	1:A:332:LEU:N	2.05	0.70
1:B:274:LEU:HD11	1:B:282:PHE:HE1	1.54	0.70
1:B:338:ASN:ND2	1:B:395:ASN:N	2.37	0.70
1:B:405:LYS:CG	1:B:406:GLU:N	2.53	0.70
1:B:458:HIS:HD2	1:B:460:VAL:N	1.89	0.70
1:D:65:MET:C	1:D:87:ILE:HG23	2.11	0.70
1:D:429:LYS:HD2	1:D:436:ASP:OD1	1.91	0.70
1:E:458:HIS:HD2	1:E:460:VAL:N	1.88	0.70
1:G:180:PHE:N	1:G:181:PRO:CD	2.55	0.70
1:G:336:ALA:N	1:G:345:ILE:HD11	2.05	0.70
1:H:65:MET:HE2	1:H:65:MET:C	2.11	0.70
1:H:385:LYS:HG3	1:H:386:ILE:N	2.05	0.70
1:I:24:THR:HG22	1:I:25:LYS:H	1.56	0.70
1:I:42:PHE:CE2	1:I:66:VAL:CG2	2.73	0.70
1:I:274:LEU:HD11	1:I:282:PHE:HE1	1.54	0.70
1:J:65:MET:C	1:J:87:ILE:HG23	2.11	0.70
1:J:274:LEU:HD11	1:J:282:PHE:HE1	1.54	0.70
1:J:390:GLU:CB	1:J:391:PRO:HD2	2.20	0.70
1:J:429:LYS:HD2	1:J:436:ASP:OD1	1.91	0.70
1:K:125:LEU:HD23	1:K:125:LEU:N	2.05	0.70
1:L:338:ASN:ND2	1:L:395:ASN:N	2.37	0.70
1:L:458:HIS:HD2	1:L:460:VAL:N	1.89	0.70
1:A:24:THR:HG22	1:A:25:LYS:H	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:39:ASN:ND2	1:A:39:ASN:C	2.44	0.70
1:A:90:ASP:O	1:A:91:ILE:HG22	1.91	0.70
1:B:2:ALA:O	1:B:6:LEU:HD23	1.91	0.70
1:B:385:LYS:HG3	1:B:386:ILE:N	2.04	0.70
1:D:19:LEU:C	1:D:19:LEU:CD1	2.49	0.70
1:E:24:THR:HG22	1:E:25:LYS:H	1.56	0.70
1:E:156:GLY:CA	1:E:216:ALA:HB2	2.21	0.70
1:F:103:ASP:OD1	1:F:106:SER:CB	2.39	0.70
1:F:315:THR:HG21	1:L:465:TYR:CE2	2.05	0.70
1:G:351:PRO:HG2	1:G:352:LYS:N	2.06	0.70
1:H:103:ASP:OD1	1:H:106:SER:CB	2.39	0.70
1:I:42:PHE:CE1	1:I:66:VAL:HG11	2.26	0.70
1:I:79:PHE:CD1	1:I:80:PHE:CB	2.73	0.70
1:I:458:HIS:HD2	1:I:460:VAL:N	1.88	0.70
1:K:180:PHE:N	1:K:181:PRO:CD	2.54	0.70
1:K:385:LYS:HG3	1:K:386:ILE:N	2.05	0.70
1:L:385:LYS:HG3	1:L:386:ILE:N	2.04	0.70
1:A:103:ASP:O	1:A:106:SER:N	2.24	0.70
1:B:156:GLY:CA	1:B:216:ALA:HB2	2.20	0.70
1:B:332:LEU:HD12	1:B:332:LEU:N	2.05	0.70
1:C:39:ASN:C	1:C:39:ASN:ND2	2.43	0.70
1:C:429:LYS:HD2	1:C:436:ASP:OD1	1.91	0.70
1:D:390:GLU:CB	1:D:391:PRO:HD2	2.20	0.70
1:D:458:HIS:HD2	1:D:460:VAL:N	1.89	0.70
1:E:79:PHE:CD1	1:E:80:PHE:CB	2.73	0.70
1:E:103:ASP:OD1	1:E:106:SER:CB	2.40	0.70
1:E:185:VAL:HG12	1:E:185:VAL:O	1.90	0.70
1:F:19:LEU:O	1:F:20:ARG:CB	2.39	0.70
1:G:24:THR:HG22	1:G:25:LYS:H	1.56	0.70
1:G:28:GLU:CG	1:L:182:VAL:HG13	2.20	0.70
1:H:19:LEU:O	1:H:20:ARG:CB	2.39	0.70
1:I:43:PHE:HE2	1:I:69:PRO:HB3	1.56	0.70
1:I:75:VAL:C	1:I:76:ILE:O	2.21	0.70
1:I:103:ASP:OD1	1:I:106:SER:CB	2.40	0.70
1:I:156:GLY:CA	1:I:216:ALA:HB2	2.20	0.70
1:I:407:ILE:CD1	1:I:408:PRO:HD2	2.16	0.70
1:K:429:LYS:HD2	1:K:436:ASP:OD1	1.91	0.70
1:L:15:LYS:O	1:L:16:PHE:CB	2.37	0.70
1:L:120:ILE:HD13	1:L:382:ILE:HG22	1.73	0.70
1:L:156:GLY:CA	1:L:216:ALA:HB2	2.20	0.70
1:L:274:LEU:HD11	1:L:282:PHE:HE1	1.54	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:405:LYS:CG	1:L:406:GLU:N	2.53	0.70
1:A:65:MET:C	1:A:87:ILE:HG23	2.11	0.70
1:A:120:ILE:HD13	1:A:382:ILE:HG22	1.73	0.70
1:C:385:LYS:HG3	1:C:386:ILE:N	2.05	0.70
1:E:43:PHE:HE2	1:E:69:PRO:HB3	1.56	0.70
1:E:461:GLU:OE1	1:K:316:THR:CG2	2.36	0.70
1:G:332:LEU:HD12	1:G:332:LEU:N	2.05	0.70
1:I:185:VAL:HG12	1:I:185:VAL:O	1.90	0.70
1:L:2:ALA:O	1:L:6:LEU:HD23	1.91	0.70
1:L:39:ASN:C	1:L:39:ASN:HD22	1.92	0.70
1:A:72:SER:C	1:A:73:THR:CG2	2.59	0.70
1:A:339:ARG:C	1:A:341:ALA:N	2.35	0.70
1:A:390:GLU:CB	1:A:391:PRO:HD2	2.20	0.70
1:C:65:MET:C	1:C:87:ILE:HG23	2.12	0.70
1:E:65:MET:C	1:E:87:ILE:HG23	2.11	0.70
1:F:57:TRP:HD1	1:F:58:LYS:N	1.86	0.70
1:F:65:MET:C	1:F:87:ILE:HG23	2.11	0.70
1:G:65:MET:C	1:G:87:ILE:HG23	2.11	0.70
1:G:103:ASP:O	1:G:106:SER:N	2.24	0.70
1:G:156:GLY:CA	1:G:216:ALA:HB2	2.20	0.70
1:H:331:MET:HE3	1:H:396:LEU:HD12	1.73	0.70
1:H:351:PRO:HG2	1:H:352:LYS:N	2.07	0.70
1:I:65:MET:C	1:I:87:ILE:HG23	2.11	0.70
1:J:18:ASP:OD2	1:J:19:LEU:N	2.19	0.70
1:K:65:MET:C	1:K:87:ILE:HG23	2.11	0.70
1:K:185:VAL:O	1:K:185:VAL:HG12	1.90	0.70
1:K:458:HIS:HD2	1:K:460:VAL:N	1.88	0.70
1:L:24:THR:HG22	1:L:25:LYS:H	1.56	0.70
1:A:42:PHE:CE1	1:A:66:VAL:HG11	2.26	0.70
1:A:351:PRO:HG2	1:A:352:LYS:N	2.07	0.70
1:B:39:ASN:C	1:B:39:ASN:HD22	1.92	0.70
1:B:120:ILE:HD13	1:B:382:ILE:HG22	1.74	0.70
1:C:27:LYS:HZ2	1:C:239:LYS:CE	2.05	0.70
1:C:316:THR:CG2	1:I:461:GLU:OE1	2.36	0.70
1:C:338:ASN:ND2	1:C:395:ASN:N	2.37	0.70
1:D:18:ASP:OD2	1:D:19:LEU:N	2.19	0.70
1:F:65:MET:C	1:F:65:MET:HE2	2.12	0.70
1:F:185:VAL:HG12	1:F:185:VAL:O	1.90	0.70
1:F:351:PRO:HG2	1:F:352:LYS:N	2.07	0.70
1:G:39:ASN:C	1:G:39:ASN:HD22	1.92	0.70
1:G:42:PHE:CE1	1:G:66:VAL:HG11	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:120:ILE:HD13	1:G:382:ILE:HG22	1.73	0.70
1:G:390:GLU:CB	1:G:391:PRO:HD2	2.20	0.70
1:H:65:MET:C	1:H:87:ILE:HG23	2.12	0.70
1:J:19:LEU:C	1:J:19:LEU:CD1	2.49	0.70
1:J:348:VAL:CG1	1:J:354:ARG:HD3	2.20	0.70
1:J:458:HIS:HD2	1:J:460:VAL:N	1.89	0.70
1:K:27:LYS:HZ2	1:K:239:LYS:CE	2.05	0.70
1:L:70:ASP:O	1:L:72:SER:N	2.25	0.70
1:A:156:GLY:CA	1:A:216:ALA:HB2	2.21	0.70
1:B:24:THR:HG22	1:B:25:LYS:H	1.56	0.70
1:B:70:ASP:O	1:B:72:SER:N	2.25	0.70
1:B:280:ASN:ND2	1:B:280:ASN:H	1.90	0.70
1:C:185:VAL:O	1:C:185:VAL:HG12	1.90	0.70
1:C:274:LEU:HD11	1:C:282:PHE:HE1	1.54	0.70
1:D:103:ASP:O	1:D:106:SER:N	2.24	0.70
1:D:339:ARG:CG	1:D:340:SER:H	1.99	0.70
1:G:72:SER:C	1:G:73:THR:CG2	2.59	0.70
1:G:274:LEU:CD1	1:G:282:PHE:CE1	2.75	0.70
1:H:223:THR:HG22	1:H:231:LYS:HZ3	1.55	0.70
1:H:429:LYS:HD2	1:H:436:ASP:OD1	1.91	0.70
1:J:43:PHE:HE2	1:J:69:PRO:HB3	1.56	0.70
1:J:182:VAL:HG13	1:K:28:GLU:CG	2.20	0.70
1:J:280:ASN:ND2	1:J:280:ASN:H	1.90	0.70
1:K:18:ASP:OD2	1:K:19:LEU:N	2.19	0.70
1:K:103:ASP:O	1:K:106:SER:N	2.24	0.70
1:K:338:ASN:ND2	1:K:395:ASN:N	2.37	0.70
1:L:376:MET:HE3	1:L:433:VAL:HG21	1.71	0.70
1:A:40:ALA:HA	1:A:43:PHE:HB2	1.74	0.70
1:A:274:LEU:CD1	1:A:282:PHE:CE1	2.75	0.70
1:B:274:LEU:CD1	1:B:282:PHE:CE1	2.75	0.70
1:C:103:ASP:O	1:C:106:SER:N	2.24	0.70
1:C:458:HIS:HD2	1:C:460:VAL:N	1.88	0.70
1:D:43:PHE:HE2	1:D:69:PRO:HB3	1.56	0.70
1:D:332:LEU:HD12	1:D:332:LEU:N	2.05	0.70
1:D:348:VAL:CG1	1:D:354:ARG:HD3	2.20	0.70
1:F:180:PHE:N	1:F:181:PRO:CD	2.54	0.70
1:F:223:THR:HG22	1:F:231:LYS:HZ3	1.55	0.70
1:G:40:ALA:HA	1:G:43:PHE:HB2	1.74	0.70
1:G:280:ASN:ND2	1:G:280:ASN:H	1.90	0.70
1:H:185:VAL:HG12	1:H:185:VAL:O	1.90	0.70
1:I:120:ILE:HD13	1:I:382:ILE:HG22	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:90:ASP:O	1:J:91:ILE:HG22	1.91	0.70
1:J:103:ASP:O	1:J:106:SER:N	2.24	0.70
1:K:39:ASN:C	1:K:39:ASN:ND2	2.44	0.70
1:L:90:ASP:O	1:L:91:ILE:HG22	1.91	0.70
1:L:351:PRO:HG2	1:L:352:LYS:N	2.07	0.70
1:A:39:ASN:C	1:A:39:ASN:HD22	1.92	0.70
1:A:43:PHE:HE2	1:A:69:PRO:HB3	1.56	0.70
1:B:39:ASN:C	1:B:39:ASN:ND2	2.43	0.70
1:B:43:PHE:HE2	1:B:69:PRO:HB3	1.57	0.70
1:B:351:PRO:HG2	1:B:352:LYS:N	2.07	0.70
1:C:18:ASP:OD2	1:C:19:LEU:N	2.20	0.70
1:D:90:ASP:O	1:D:91:ILE:HG22	1.91	0.70
1:D:280:ASN:H	1:D:280:ASN:ND2	1.90	0.70
1:E:407:ILE:CD1	1:E:408:PRO:HD2	2.16	0.70
1:F:429:LYS:HD2	1:F:436:ASP:OD1	1.91	0.70
1:H:72:SER:C	1:H:73:THR:CG2	2.59	0.70
1:L:43:PHE:HE2	1:L:69:PRO:HB3	1.56	0.70
1:L:72:SER:C	1:L:73:THR:CG2	2.59	0.70
1:L:274:LEU:CD1	1:L:282:PHE:CE1	2.75	0.70
1:L:280:ASN:ND2	1:L:280:ASN:H	1.90	0.70
1:L:429:LYS:HD2	1:L:436:ASP:OD1	1.91	0.70
1:A:280:ASN:ND2	1:A:280:ASN:H	1.90	0.70
1:B:72:SER:C	1:B:73:THR:CG2	2.59	0.70
1:B:90:ASP:O	1:B:91:ILE:HG22	1.91	0.70
1:B:126:PHE:CE1	1:B:228:MET:HE3	2.27	0.70
1:C:19:LEU:C	1:C:19:LEU:CD1	2.49	0.70
1:C:28:GLU:CG	1:D:182:VAL:HG13	2.20	0.70
1:D:120:ILE:HD13	1:D:382:ILE:HG22	1.74	0.70
1:D:339:ARG:CG	1:D:340:SER:N	2.49	0.70
1:E:15:LYS:O	1:E:16:PHE:CB	2.37	0.70
1:F:43:PHE:HE2	1:F:69:PRO:HB3	1.57	0.70
1:F:465:TYR:CE2	1:L:315:THR:HG21	2.05	0.70
1:G:2:ALA:O	1:G:6:LEU:HD23	1.91	0.70
1:G:405:LYS:CG	1:G:406:GLU:N	2.53	0.70
1:H:19:LEU:HD22	1:H:240:TYR:CE2	2.25	0.70
1:H:43:PHE:HE2	1:H:69:PRO:HB3	1.56	0.70
1:H:180:PHE:N	1:H:181:PRO:CD	2.54	0.70
1:H:309:ASN:HB2	1:H:313:ASN:HD22	1.57	0.70
1:I:15:LYS:O	1:I:16:PHE:CB	2.37	0.70
1:I:280:ASN:ND2	1:I:280:ASN:H	1.90	0.70
1:J:27:LYS:HZ2	1:J:239:LYS:NZ	1.87	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:120:ILE:HD13	1:J:382:ILE:HG22	1.73	0.70
1:J:332:LEU:HD12	1:J:332:LEU:N	2.05	0.70
1:J:339:ARG:CG	1:J:340:SER:N	2.49	0.70
1:J:414:LEU:O	1:J:415:GLU:C	2.29	0.70
1:K:3:GLU:O	1:K:6:LEU:CB	2.40	0.70
1:K:79:PHE:HD1	1:K:80:PHE:CB	2.05	0.70
1:L:39:ASN:C	1:L:39:ASN:ND2	2.44	0.70
1:A:19:LEU:O	1:A:20:ARG:CB	2.39	0.69
1:C:3:GLU:O	1:C:6:LEU:CB	2.40	0.69
1:C:79:PHE:HD1	1:C:80:PHE:CB	2.05	0.69
1:C:120:ILE:HD13	1:C:382:ILE:HG22	1.73	0.69
1:C:280:ASN:ND2	1:C:280:ASN:H	1.90	0.69
1:D:414:LEU:O	1:D:415:GLU:C	2.29	0.69
1:E:280:ASN:ND2	1:E:280:ASN:H	1.90	0.69
1:E:414:LEU:O	1:E:415:GLU:C	2.29	0.69
1:F:72:SER:C	1:F:73:THR:CG2	2.59	0.69
1:F:274:LEU:CD1	1:F:282:PHE:CE1	2.75	0.69
1:F:274:LEU:HD11	1:F:282:PHE:HE1	1.54	0.69
1:G:43:PHE:HE2	1:G:69:PRO:HB3	1.56	0.69
1:G:185:VAL:O	1:G:185:VAL:HG12	1.90	0.69
1:I:223:THR:HG22	1:I:231:LYS:HZ3	1.56	0.69
1:I:414:LEU:O	1:I:415:GLU:C	2.29	0.69
1:K:90:ASP:O	1:K:91:ILE:HG22	1.91	0.69
1:K:178:GLY:O	1:K:213:VAL:HA	1.92	0.69
1:K:274:LEU:HD11	1:K:282:PHE:HE1	1.54	0.69
1:K:280:ASN:ND2	1:K:280:ASN:H	1.90	0.69
1:A:20:ARG:HH22	1:A:86:ILE:CG2	2.06	0.69
1:A:70:ASP:O	1:A:72:SER:N	2.25	0.69
1:A:405:LYS:CG	1:A:406:GLU:N	2.53	0.69
1:A:461:GLU:OE1	1:G:316:THR:CG2	2.36	0.69
1:B:429:LYS:HD2	1:B:436:ASP:OD1	1.91	0.69
1:E:70:ASP:O	1:E:72:SER:N	2.25	0.69
1:G:20:ARG:HH22	1:G:86:ILE:CG2	2.06	0.69
1:G:65:MET:C	1:G:65:MET:HE2	2.13	0.69
1:G:70:ASP:O	1:G:72:SER:N	2.25	0.69
1:H:178:GLY:O	1:H:213:VAL:HA	1.92	0.69
1:H:339:ARG:CG	1:H:340:SER:N	2.49	0.69
1:J:11:GLU:HB3	1:J:12:HIS:CD2	2.28	0.69
1:J:42:PHE:CE1	1:J:66:VAL:HG11	2.26	0.69
1:L:79:PHE:HD1	1:L:80:PHE:CB	2.05	0.69
1:L:103:ASP:OD1	1:L:106:SER:CB	2.39	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:180:PHE:N	1:L:181:PRO:CD	2.54	0.69
1:A:2:ALA:O	1:A:6:LEU:HD23	1.91	0.69
1:A:65:MET:C	1:A:65:MET:HE2	2.13	0.69
1:A:185:VAL:HG12	1:A:185:VAL:O	1.90	0.69
1:B:79:PHE:HD1	1:B:80:PHE:CB	2.05	0.69
1:B:103:ASP:OD1	1:B:106:SER:CB	2.40	0.69
1:B:103:ASP:O	1:B:106:SER:N	2.24	0.69
1:B:315:THR:HG21	1:H:465:TYR:CE2	2.05	0.69
1:C:42:PHE:CE1	1:C:66:VAL:HG11	2.26	0.69
1:C:90:ASP:O	1:C:91:ILE:HG22	1.91	0.69
1:C:178:GLY:O	1:C:213:VAL:HA	1.92	0.69
1:D:11:GLU:HB3	1:D:12:HIS:CD2	2.28	0.69
1:D:42:PHE:CE1	1:D:66:VAL:HG11	2.26	0.69
1:D:79:PHE:HD1	1:D:80:PHE:CB	2.05	0.69
1:E:11:GLU:HB3	1:E:12:HIS:CD2	2.28	0.69
1:E:120:ILE:HD13	1:E:382:ILE:HG22	1.73	0.69
1:F:20:ARG:HH22	1:F:86:ILE:CG2	2.05	0.69
1:F:39:ASN:C	1:F:39:ASN:ND2	2.44	0.69
1:F:178:GLY:O	1:F:213:VAL:HA	1.93	0.69
1:F:309:ASN:HB2	1:F:313:ASN:HD22	1.58	0.69
1:F:339:ARG:CG	1:F:340:SER:N	2.49	0.69
1:H:274:LEU:CD1	1:H:282:PHE:CE1	2.75	0.69
1:H:274:LEU:HD11	1:H:282:PHE:HE1	1.54	0.69
1:I:11:GLU:HB3	1:I:12:HIS:CD2	2.28	0.69
1:I:70:ASP:O	1:I:72:SER:N	2.25	0.69
1:J:24:THR:HG22	1:J:25:LYS:H	1.56	0.69
1:J:79:PHE:HD1	1:J:80:PHE:CB	2.05	0.69
1:K:309:ASN:HB2	1:K:313:ASN:HD22	1.57	0.69
1:A:28:GLU:HG3	1:B:182:VAL:HG13	1.74	0.69
1:B:180:PHE:N	1:B:181:PRO:CD	2.54	0.69
1:C:43:PHE:HE2	1:C:69:PRO:HB3	1.56	0.69
1:G:103:ASP:OD1	1:G:106:SER:CB	2.39	0.69
1:G:400:PRO:HB2	1:G:401:PRO:HD3	1.75	0.69
1:H:20:ARG:HH22	1:H:86:ILE:CG2	2.05	0.69
1:H:120:ILE:HD13	1:H:382:ILE:HG22	1.74	0.69
1:I:309:ASN:HB2	1:I:313:ASN:HD22	1.57	0.69
1:I:351:PRO:HG2	1:I:352:LYS:N	2.07	0.69
1:J:178:GLY:O	1:J:213:VAL:HA	1.92	0.69
1:K:11:GLU:HB3	1:K:12:HIS:CD2	2.28	0.69
1:K:120:ILE:HD13	1:K:382:ILE:HG22	1.74	0.69
1:L:103:ASP:O	1:L:106:SER:N	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:70:ASP:O	1:C:72:SER:N	2.25	0.69
1:C:274:LEU:CD1	1:C:282:PHE:CE1	2.75	0.69
1:C:309:ASN:HB2	1:C:313:ASN:HD22	1.57	0.69
1:D:19:LEU:O	1:D:20:ARG:HB3	1.92	0.69
1:D:178:GLY:O	1:D:213:VAL:HA	1.92	0.69
1:E:178:GLY:O	1:E:213:VAL:HA	1.92	0.69
1:F:7:THR:O	1:F:9:LEU:N	2.26	0.69
1:F:11:GLU:HB3	1:F:12:HIS:CD2	2.27	0.69
1:F:120:ILE:HD13	1:F:382:ILE:HG22	1.73	0.69
1:F:414:LEU:O	1:F:415:GLU:C	2.29	0.69
1:G:19:LEU:O	1:G:20:ARG:CB	2.39	0.69
1:G:28:GLU:HG3	1:L:182:VAL:HG13	1.75	0.69
1:H:39:ASN:C	1:H:39:ASN:ND2	2.44	0.69
1:H:103:ASP:H	1:H:104:PRO:CD	1.99	0.69
1:H:414:LEU:O	1:H:415:GLU:C	2.29	0.69
1:K:19:LEU:C	1:K:19:LEU:CD1	2.49	0.69
1:K:42:PHE:CE1	1:K:66:VAL:HG11	2.26	0.69
1:K:43:PHE:HE2	1:K:69:PRO:HB3	1.57	0.69
1:K:103:ASP:OD1	1:K:106:SER:CB	2.39	0.69
1:A:316:THR:CG2	1:G:461:GLU:OE1	2.36	0.69
1:B:228:MET:HE2	1:B:371:PHE:CB	2.23	0.69
1:C:103:ASP:OD1	1:C:106:SER:CB	2.39	0.69
1:D:3:GLU:O	1:D:6:LEU:CB	2.40	0.69
1:D:24:THR:HG22	1:D:25:LYS:H	1.56	0.69
1:D:70:ASP:O	1:D:72:SER:N	2.25	0.69
1:D:400:PRO:HB2	1:D:401:PRO:HD3	1.75	0.69
1:E:223:THR:HG22	1:E:231:LYS:HZ3	1.56	0.69
1:E:309:ASN:HB2	1:E:313:ASN:HD22	1.57	0.69
1:E:351:PRO:HG2	1:E:352:LYS:N	2.07	0.69
1:E:466:TYR:OH	1:K:252:THR:HG22	1.85	0.69
1:F:40:ALA:HA	1:F:43:PHE:HB2	1.74	0.69
1:F:70:ASP:O	1:F:72:SER:N	2.25	0.69
1:G:182:VAL:HG13	1:H:28:GLU:HG3	1.75	0.69
1:G:309:ASN:HB2	1:G:313:ASN:HD22	1.57	0.69
1:H:7:THR:O	1:H:9:LEU:N	2.26	0.69
1:I:7:THR:O	1:I:9:LEU:N	2.26	0.69
1:J:70:ASP:O	1:J:72:SER:N	2.25	0.69
1:K:70:ASP:O	1:K:72:SER:N	2.25	0.69
1:K:274:LEU:CD1	1:K:282:PHE:CE1	2.75	0.69
1:K:376:MET:HE1	1:K:433:VAL:CG1	2.17	0.69
1:L:309:ASN:HB2	1:L:313:ASN:HD22	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:103:ASP:OD1	1:A:106:SER:CB	2.40	0.69
1:A:309:ASN:HB2	1:A:313:ASN:HD22	1.57	0.69
1:B:309:ASN:HB2	1:B:313:ASN:HD22	1.57	0.69
1:C:11:GLU:HB3	1:C:12:HIS:CD2	2.28	0.69
1:C:19:LEU:O	1:C:20:ARG:CB	2.39	0.69
1:C:252:THR:HG22	1:I:466:TYR:OH	1.85	0.69
1:E:7:THR:O	1:E:9:LEU:N	2.26	0.69
1:H:11:GLU:HB3	1:H:12:HIS:CD2	2.28	0.69
1:H:40:ALA:HA	1:H:43:PHE:HB2	1.74	0.69
1:H:70:ASP:O	1:H:72:SER:N	2.25	0.69
1:J:3:GLU:O	1:J:6:LEU:CB	2.40	0.69
1:J:19:LEU:O	1:J:20:ARG:HB3	1.93	0.69
1:A:68:MET:HE2	1:A:105:ARG:HD3	1.75	0.69
1:A:400:PRO:HB2	1:A:401:PRO:HD3	1.75	0.69
1:B:11:GLU:HB3	1:B:12:HIS:CD2	2.28	0.69
1:B:19:LEU:O	1:B:20:ARG:HB3	1.93	0.69
1:B:88:ARG:NH2	1:B:109:LYS:CE	2.56	0.69
1:C:68:MET:HE2	1:C:105:ARG:CD	2.20	0.69
1:C:88:ARG:NH2	1:C:109:LYS:CE	2.56	0.69
1:C:243:HIS:HB3	1:D:184:PRO:HG3	1.75	0.69
1:C:461:GLU:OE1	1:I:316:THR:CG2	2.36	0.69
1:D:7:THR:O	1:D:9:LEU:N	2.26	0.69
1:E:19:LEU:C	1:E:19:LEU:CD1	2.49	0.69
1:E:400:PRO:HB2	1:E:401:PRO:HD3	1.75	0.69
1:F:384:ASN:O	1:F:385:LYS:HG3	1.93	0.69
1:G:429:LYS:HD2	1:G:436:ASP:OD1	1.91	0.69
1:J:400:PRO:HB2	1:J:401:PRO:HD3	1.75	0.69
1:K:19:LEU:O	1:K:20:ARG:CB	2.39	0.69
1:K:68:MET:HE2	1:K:105:ARG:CD	2.21	0.69
1:L:11:GLU:HB3	1:L:12:HIS:CD2	2.28	0.69
1:L:19:LEU:O	1:L:20:ARG:HB3	1.93	0.69
1:L:88:ARG:NH2	1:L:109:LYS:CE	2.56	0.69
1:A:11:GLU:HB3	1:A:12:HIS:CD2	2.28	0.69
1:A:88:ARG:NH2	1:A:109:LYS:CE	2.56	0.69
1:A:178:GLY:O	1:A:213:VAL:HA	1.92	0.69
1:A:338:ASN:ND2	1:A:395:ASN:N	2.37	0.69
1:A:384:ASN:O	1:A:385:LYS:HG3	1.93	0.69
1:A:429:LYS:HD2	1:A:436:ASP:OD1	1.91	0.69
1:C:19:LEU:O	1:C:20:ARG:HB3	1.93	0.69
1:D:20:ARG:HH22	1:D:86:ILE:CG2	2.05	0.69
1:D:75:VAL:CG2	1:D:84:THR:CG2	2.71	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:103:ASP:OD1	1:D:106:SER:CB	2.40	0.69
1:E:331:MET:HE1	1:E:396:LEU:HD12	1.73	0.69
1:E:384:ASN:O	1:E:385:LYS:HG3	1.93	0.69
1:F:103:ASP:H	1:F:104:PRO:CD	1.99	0.69
1:G:11:GLU:HB3	1:G:12:HIS:CD2	2.28	0.69
1:G:88:ARG:NH2	1:G:109:LYS:CE	2.56	0.69
1:G:337:ARG:HG3	1:G:338:ASN:N	2.08	0.69
1:G:338:ASN:ND2	1:G:395:ASN:N	2.37	0.69
1:G:384:ASN:O	1:G:385:LYS:HG3	1.93	0.69
1:H:126:PHE:HE1	1:H:228:MET:HE3	1.57	0.69
1:H:384:ASN:O	1:H:385:LYS:HG3	1.93	0.69
1:I:178:GLY:O	1:I:213:VAL:HA	1.93	0.69
1:I:184:PRO:HG3	1:J:243:HIS:HB3	1.75	0.69
1:I:400:PRO:HB2	1:I:401:PRO:HD3	1.75	0.69
1:J:7:THR:O	1:J:9:LEU:N	2.26	0.69
1:J:103:ASP:OD1	1:J:106:SER:CB	2.39	0.69
1:J:184:PRO:HG3	1:K:243:HIS:HB3	1.75	0.69
1:K:88:ARG:NH2	1:K:109:LYS:CE	2.56	0.69
1:L:178:GLY:O	1:L:213:VAL:HA	1.92	0.69
1:L:400:PRO:HB2	1:L:401:PRO:HD3	1.75	0.69
1:A:337:ARG:HG3	1:A:338:ASN:N	2.09	0.69
1:B:24:THR:HB	1:B:26:GLY:H	1.58	0.69
1:B:33:ILE:HD13	1:B:34:PRO:HD2	1.75	0.69
1:B:178:GLY:O	1:B:213:VAL:HA	1.92	0.69
1:B:400:PRO:HB2	1:B:401:PRO:HD3	1.75	0.69
1:C:252:THR:HG21	1:I:466:TYR:HH	0.64	0.69
1:C:466:TYR:HA	1:I:256:MET:HE2	1.74	0.69
1:D:88:ARG:NH2	1:D:109:LYS:CE	2.56	0.69
1:D:243:HIS:HB3	1:E:184:PRO:HG3	1.75	0.69
1:D:384:ASN:O	1:D:385:LYS:HG3	1.93	0.69
1:E:3:GLU:O	1:E:6:LEU:CB	2.40	0.69
1:E:14:VAL:HA	1:E:81:ALA:CB	2.23	0.69
1:E:466:TYR:HH	1:K:252:THR:HG21	0.64	0.69
1:I:3:GLU:O	1:I:6:LEU:CB	2.40	0.69
1:I:39:ASN:C	1:I:39:ASN:ND2	2.44	0.69
1:I:331:MET:HE2	1:I:396:LEU:HD12	1.73	0.69
1:J:88:ARG:NH2	1:J:109:LYS:CE	2.56	0.69
1:J:384:ASN:O	1:J:385:LYS:HG3	1.93	0.69
1:K:54:ILE:CG1	1:K:102:ARG:NE	2.47	0.69
1:K:400:PRO:HB2	1:K:401:PRO:HD3	1.75	0.69
1:L:24:THR:HB	1:L:26:GLY:H	1.59	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:42:PHE:CE1	1:L:66:VAL:HG11	2.26	0.69
1:A:7:THR:O	1:A:9:LEU:N	2.26	0.68
1:A:39:ASN:O	1:A:40:ALA:HB3	1.94	0.68
1:C:400:PRO:HB2	1:C:401:PRO:HD3	1.75	0.68
1:E:180:PHE:N	1:E:181:PRO:CD	2.54	0.68
1:E:274:LEU:CD1	1:E:282:PHE:CE1	2.75	0.68
1:E:316:THR:CG2	1:K:461:GLU:OE1	2.36	0.68
1:F:3:GLU:O	1:F:6:LEU:CB	2.40	0.68
1:F:88:ARG:NH2	1:F:109:LYS:CE	2.56	0.68
1:G:7:THR:O	1:G:9:LEU:N	2.26	0.68
1:G:39:ASN:O	1:G:40:ALA:HB3	1.94	0.68
1:G:75:VAL:CG2	1:G:84:THR:CG2	2.71	0.68
1:G:178:GLY:O	1:G:213:VAL:HA	1.92	0.68
1:H:3:GLU:O	1:H:6:LEU:CB	2.40	0.68
1:I:14:VAL:HA	1:I:81:ALA:CB	2.24	0.68
1:I:88:ARG:NH2	1:I:109:LYS:CE	2.56	0.68
1:I:180:PHE:N	1:I:181:PRO:CD	2.54	0.68
1:J:20:ARG:HH22	1:J:86:ILE:CG2	2.06	0.68
1:J:75:VAL:CG2	1:J:84:THR:CG2	2.71	0.68
1:A:75:VAL:CG2	1:A:84:THR:CG2	2.71	0.68
1:B:42:PHE:CE1	1:B:66:VAL:HG11	2.26	0.68
1:B:337:ARG:HG3	1:B:338:ASN:N	2.08	0.68
1:C:33:ILE:HD13	1:C:34:PRO:HD2	1.75	0.68
1:D:228:MET:HE2	1:D:371:PHE:CB	2.22	0.68
1:E:33:ILE:HD13	1:E:34:PRO:HD2	1.75	0.68
1:E:243:HIS:HB3	1:F:184:PRO:HG3	1.75	0.68
1:F:466:TYR:HH	1:L:252:THR:HG21	0.64	0.68
1:G:68:MET:HE2	1:G:105:ARG:HD3	1.75	0.68
1:H:88:ARG:NH2	1:H:109:LYS:CE	2.56	0.68
1:H:280:ASN:ND2	1:H:280:ASN:H	1.90	0.68
1:I:33:ILE:HD13	1:I:34:PRO:HD2	1.75	0.68
1:I:274:LEU:CD1	1:I:282:PHE:CE1	2.75	0.68
1:I:384:ASN:O	1:I:385:LYS:HG3	1.93	0.68
1:J:309:ASN:HB2	1:J:313:ASN:HD22	1.57	0.68
1:K:19:LEU:O	1:K:20:ARG:HB3	1.93	0.68
1:L:3:GLU:O	1:L:6:LEU:CB	2.40	0.68
1:L:7:THR:O	1:L:9:LEU:N	2.26	0.68
1:A:436:ASP:O	1:A:439:ILE:HB	1.94	0.68
1:B:27:LYS:HZ2	1:B:239:LYS:NZ	1.86	0.68
1:B:39:ASN:O	1:B:40:ALA:HB3	1.94	0.68
1:B:223:THR:HG22	1:B:231:LYS:HZ3	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:24:THR:HB	1:D:26:GLY:H	1.58	0.68
1:D:39:ASN:O	1:D:40:ALA:HB3	1.93	0.68
1:F:280:ASN:ND2	1:F:280:ASN:H	1.90	0.68
1:F:337:ARG:HG3	1:F:338:ASN:N	2.08	0.68
1:G:3:GLU:O	1:G:6:LEU:CB	2.40	0.68
1:G:376:MET:HE1	1:G:433:VAL:CG1	2.13	0.68
1:H:400:PRO:HB2	1:H:401:PRO:HD3	1.75	0.68
1:I:67:LEU:HA	1:I:69:PRO:HG3	1.75	0.68
1:I:88:ARG:C	1:I:89:CYS:O	2.32	0.68
1:K:20:ARG:HH22	1:K:86:ILE:CG2	2.06	0.68
1:L:33:ILE:HD13	1:L:34:PRO:HD2	1.75	0.68
1:L:67:LEU:O	1:L:86:ILE:HD13	1.93	0.68
1:L:223:THR:HG22	1:L:231:LYS:HZ3	1.57	0.68
1:A:67:LEU:O	1:A:86:ILE:HD13	1.93	0.68
1:B:67:LEU:O	1:B:86:ILE:HD13	1.93	0.68
1:D:274:LEU:CD1	1:D:282:PHE:CE1	2.75	0.68
1:D:309:ASN:HB2	1:D:313:ASN:HD22	1.57	0.68
1:D:340:SER:CB	1:D:395:ASN:OD1	2.41	0.68
1:E:39:ASN:C	1:E:39:ASN:ND2	2.44	0.68
1:E:88:ARG:C	1:E:89:CYS:O	2.32	0.68
1:F:400:PRO:HB2	1:F:401:PRO:HD3	1.75	0.68
1:G:436:ASP:O	1:G:439:ILE:HB	1.94	0.68
1:H:14:VAL:HA	1:H:81:ALA:CB	2.24	0.68
1:H:27:LYS:HZ2	1:H:239:LYS:NZ	1.88	0.68
1:H:228:MET:HE2	1:H:371:PHE:CB	2.23	0.68
1:I:19:LEU:C	1:I:19:LEU:CD1	2.49	0.68
1:I:398:ASP:O	1:I:399:LEU:O	2.12	0.68
1:J:24:THR:HB	1:J:26:GLY:H	1.58	0.68
1:K:7:THR:O	1:K:9:LEU:N	2.26	0.68
1:K:384:ASN:O	1:K:385:LYS:HG3	1.93	0.68
1:L:39:ASN:O	1:L:40:ALA:HB3	1.94	0.68
1:L:75:VAL:CG2	1:L:84:THR:CG2	2.71	0.68
1:A:3:GLU:O	1:A:6:LEU:CB	2.40	0.68
1:A:33:ILE:HD13	1:A:34:PRO:HD2	1.75	0.68
1:B:3:GLU:O	1:B:6:LEU:CB	2.40	0.68
1:B:7:THR:O	1:B:9:LEU:N	2.26	0.68
1:C:7:THR:O	1:C:9:LEU:N	2.26	0.68
1:C:20:ARG:HH22	1:C:86:ILE:CG2	2.06	0.68
1:C:54:ILE:CG1	1:C:102:ARG:NE	2.47	0.68
1:C:384:ASN:O	1:C:385:LYS:HG3	1.93	0.68
1:D:126:PHE:HE1	1:D:228:MET:HE3	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:67:LEU:HA	1:E:69:PRO:HG3	1.75	0.68
1:E:88:ARG:NH2	1:E:109:LYS:CE	2.56	0.68
1:E:398:ASP:O	1:E:399:LEU:O	2.12	0.68
1:F:20:ARG:HH12	1:F:86:ILE:CG2	2.07	0.68
1:G:67:LEU:O	1:G:86:ILE:HD13	1.93	0.68
1:H:24:THR:HB	1:H:26:GLY:H	1.58	0.68
1:H:184:PRO:HG3	1:I:243:HIS:HB3	1.75	0.68
1:H:337:ARG:HG3	1:H:338:ASN:N	2.09	0.68
1:I:19:LEU:O	1:I:20:ARG:CB	2.39	0.68
1:I:20:ARG:HH22	1:I:86:ILE:CG2	2.06	0.68
1:J:39:ASN:O	1:J:40:ALA:HB3	1.93	0.68
1:J:40:ALA:HA	1:J:43:PHE:HB2	1.74	0.68
1:J:92:LEU:HG	1:J:93:GLU:N	2.08	0.68
1:J:126:PHE:HE1	1:J:228:MET:HE3	1.57	0.68
1:J:228:MET:HE2	1:J:371:PHE:CB	2.23	0.68
1:J:274:LEU:CD1	1:J:282:PHE:CE1	2.75	0.68
1:J:340:SER:CB	1:J:395:ASN:OD1	2.41	0.68
1:J:390:GLU:HB3	1:J:391:PRO:HD2	1.76	0.68
1:K:33:ILE:HD13	1:K:34:PRO:HD2	1.75	0.68
1:L:348:VAL:CG1	1:L:354:ARG:HD3	2.20	0.68
1:A:19:LEU:HD11	1:A:20:ARG:HB2	1.75	0.68
1:A:63:SER:HG	1:A:91:ILE:HG22	1.58	0.68
1:B:28:GLU:HG3	1:C:182:VAL:HG13	1.75	0.68
1:B:75:VAL:CG2	1:B:84:THR:CG2	2.71	0.68
1:B:436:ASP:O	1:B:439:ILE:HB	1.93	0.68
1:C:75:VAL:CG2	1:C:84:THR:CG2	2.71	0.68
1:D:351:PRO:HG2	1:D:352:LYS:N	2.07	0.68
1:D:398:ASP:O	1:D:399:LEU:O	2.12	0.68
1:E:19:LEU:O	1:E:20:ARG:CB	2.39	0.68
1:E:20:ARG:HH22	1:E:86:ILE:CG2	2.06	0.68
1:F:19:LEU:HD11	1:F:20:ARG:HB2	1.75	0.68
1:F:68:MET:N	1:F:69:PRO:CD	2.53	0.68
1:G:157:ALA:O	1:G:159:ASN:N	2.27	0.68
1:H:19:LEU:HD11	1:H:20:ARG:HB2	1.75	0.68
1:H:20:ARG:HH12	1:H:86:ILE:CG2	2.07	0.68
1:J:351:PRO:HG2	1:J:352:LYS:N	2.07	0.68
1:K:88:ARG:C	1:K:89:CYS:O	2.32	0.68
1:K:182:VAL:HG13	1:L:28:GLU:HG3	1.75	0.68
1:L:337:ARG:HG3	1:L:338:ASN:N	2.09	0.68
1:A:20:ARG:HH12	1:A:86:ILE:CG2	2.07	0.68
1:A:157:ALA:O	1:A:159:ASN:N	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:14:VAL:HA	1:C:81:ALA:CB	2.23	0.68
1:C:39:ASN:O	1:C:40:ALA:HB3	1.93	0.68
1:C:40:ALA:HA	1:C:43:PHE:HB2	1.74	0.68
1:C:67:LEU:O	1:C:86:ILE:HD13	1.93	0.68
1:C:315:THR:CG2	1:I:465:TYR:HD2	1.61	0.68
1:D:27:LYS:HZ2	1:D:239:LYS:NZ	1.88	0.68
1:D:28:GLU:HG3	1:E:182:VAL:HG13	1.74	0.68
1:D:40:ALA:HA	1:D:43:PHE:HB2	1.74	0.68
1:D:390:GLU:HB3	1:D:391:PRO:HD2	1.76	0.68
1:E:16:PHE:HD1	1:E:79:PHE:HE1	1.42	0.68
1:E:39:ASN:O	1:E:40:ALA:HB3	1.93	0.68
1:E:157:ALA:O	1:E:159:ASN:N	2.27	0.68
1:F:14:VAL:HA	1:F:81:ALA:CB	2.24	0.68
1:F:24:THR:HB	1:F:26:GLY:H	1.59	0.68
1:F:436:ASP:O	1:F:439:ILE:HB	1.93	0.68
1:G:19:LEU:HD11	1:G:20:ARG:HB2	1.75	0.68
1:G:33:ILE:HD13	1:G:34:PRO:HD2	1.75	0.68
1:H:33:ILE:HD13	1:H:34:PRO:HD2	1.75	0.68
1:I:157:ALA:O	1:I:159:ASN:N	2.27	0.68
1:J:398:ASP:O	1:J:399:LEU:O	2.12	0.68
1:K:40:ALA:HA	1:K:43:PHE:HB2	1.74	0.68
1:K:75:VAL:CG2	1:K:84:THR:CG2	2.71	0.68
1:L:155:GLU:C	1:L:156:GLY:O	2.32	0.68
1:L:436:ASP:O	1:L:439:ILE:HB	1.94	0.68
1:A:155:GLU:C	1:A:156:GLY:O	2.32	0.68
1:B:14:VAL:HA	1:B:81:ALA:CB	2.24	0.68
1:C:88:ARG:C	1:C:89:CYS:O	2.32	0.68
1:C:337:ARG:HG3	1:C:338:ASN:N	2.08	0.68
1:C:390:GLU:HB3	1:C:391:PRO:HD2	1.76	0.68
1:D:338:ASN:ND2	1:D:395:ASN:N	2.37	0.68
1:F:19:LEU:CD2	1:F:75:VAL:HG22	2.19	0.68
1:G:79:PHE:HB2	1:G:80:PHE:CD1	2.29	0.68
1:H:19:LEU:CD2	1:H:75:VAL:HG22	2.19	0.68
1:H:68:MET:N	1:H:69:PRO:CD	2.54	0.68
1:H:407:ILE:CD1	1:H:408:PRO:HD2	2.16	0.68
1:H:436:ASP:O	1:H:439:ILE:HB	1.93	0.68
1:I:40:ALA:HA	1:I:43:PHE:HB2	1.74	0.68
1:I:376:MET:HE3	1:I:433:VAL:HG13	1.73	0.68
1:J:19:LEU:HD11	1:J:20:ARG:HB2	1.75	0.68
1:K:67:LEU:O	1:K:86:ILE:HD13	1.93	0.68
1:K:155:GLU:C	1:K:156:GLY:O	2.32	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:14:VAL:HA	1:L:81:ALA:CB	2.24	0.68
1:B:68:MET:N	1:B:69:PRO:CD	2.53	0.68
1:B:155:GLU:C	1:B:156:GLY:O	2.33	0.68
1:B:243:HIS:HB3	1:C:184:PRO:HG3	1.75	0.68
1:B:384:ASN:O	1:B:385:LYS:HG3	1.93	0.68
1:C:155:GLU:C	1:C:156:GLY:O	2.32	0.68
1:D:14:VAL:HA	1:D:81:ALA:CB	2.24	0.68
1:D:92:LEU:HG	1:D:93:GLU:N	2.09	0.68
1:D:337:ARG:HG3	1:D:338:ASN:N	2.08	0.68
1:D:376:MET:HE3	1:D:433:VAL:HG21	1.74	0.68
1:E:75:VAL:CG2	1:E:84:THR:CG2	2.71	0.68
1:F:68:MET:CE	1:F:88:ARG:CB	2.72	0.68
1:G:20:ARG:HH12	1:G:86:ILE:CG2	2.07	0.68
1:H:68:MET:CE	1:H:88:ARG:CB	2.72	0.68
1:H:75:VAL:CG2	1:H:84:THR:CG2	2.71	0.68
1:H:398:ASP:O	1:H:399:LEU:O	2.12	0.68
1:I:16:PHE:HD1	1:I:79:PHE:HE1	1.42	0.68
1:I:75:VAL:HG11	1:I:78:PRO:CD	2.24	0.68
1:K:19:LEU:HD11	1:K:20:ARG:HB2	1.75	0.68
1:K:351:PRO:HG2	1:K:352:LYS:N	2.07	0.68
1:L:54:ILE:CG1	1:L:102:ARG:NE	2.47	0.68
1:A:19:LEU:O	1:A:20:ARG:HB3	1.93	0.68
1:A:79:PHE:HB2	1:A:80:PHE:CD1	2.29	0.68
1:A:184:PRO:HG3	1:F:243:HIS:HB3	1.75	0.68
1:B:348:VAL:CG1	1:B:354:ARG:HD3	2.20	0.68
1:C:28:GLU:HG3	1:D:182:VAL:HG13	1.74	0.68
1:D:19:LEU:HD11	1:D:20:ARG:HB2	1.75	0.68
1:F:33:ILE:HD13	1:F:34:PRO:HD2	1.75	0.68
1:F:92:LEU:HG	1:F:93:GLU:N	2.09	0.68
1:G:155:GLU:C	1:G:156:GLY:O	2.32	0.68
1:G:184:PRO:HG3	1:H:243:HIS:HB3	1.75	0.68
1:I:24:THR:HB	1:I:26:GLY:H	1.58	0.68
1:I:39:ASN:O	1:I:40:ALA:HB3	1.94	0.68
1:I:182:VAL:HG13	1:J:28:GLU:HG3	1.75	0.68
1:J:14:VAL:HA	1:J:81:ALA:CB	2.24	0.68
1:J:33:ILE:HD13	1:J:34:PRO:HD2	1.75	0.68
1:K:14:VAL:HA	1:K:81:ALA:CB	2.24	0.68
1:K:157:ALA:O	1:K:159:ASN:N	2.27	0.68
1:L:40:ALA:HA	1:L:43:PHE:HB2	1.74	0.68
1:L:384:ASN:O	1:L:385:LYS:HG3	1.93	0.68
1:A:14:VAL:HA	1:A:81:ALA:CB	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:19:LEU:HD11	1:B:20:ARG:HB2	1.75	0.67
1:C:157:ALA:O	1:C:159:ASN:N	2.27	0.67
1:D:180:PHE:N	1:D:181:PRO:CD	2.54	0.67
1:E:40:ALA:HA	1:E:43:PHE:HB2	1.74	0.67
1:E:75:VAL:HG11	1:E:78:PRO:CD	2.24	0.67
1:F:19:LEU:O	1:F:20:ARG:HB3	1.93	0.67
1:F:398:ASP:O	1:F:399:LEU:O	2.12	0.67
1:G:35:ALA:O	1:G:36:HIS:O	2.12	0.67
1:H:19:LEU:O	1:H:20:ARG:HB3	1.93	0.67
1:H:39:ASN:O	1:H:40:ALA:HB3	1.94	0.67
1:H:67:LEU:HA	1:H:69:PRO:HG3	1.75	0.67
1:H:155:GLU:C	1:H:156:GLY:O	2.32	0.67
1:I:75:VAL:CG2	1:I:84:THR:CG2	2.71	0.67
1:J:338:ASN:ND2	1:J:395:ASN:N	2.38	0.67
1:K:39:ASN:O	1:K:40:ALA:HB3	1.94	0.67
1:K:184:PRO:HG3	1:L:243:HIS:HB3	1.75	0.67
1:K:337:ARG:HG3	1:K:338:ASN:N	2.09	0.67
1:K:390:GLU:HB3	1:K:391:PRO:HD2	1.76	0.67
1:L:19:LEU:HD11	1:L:20:ARG:HB2	1.75	0.67
1:L:68:MET:N	1:L:69:PRO:CD	2.53	0.67
1:A:35:ALA:O	1:A:36:HIS:O	2.13	0.67
1:B:19:LEU:CD2	1:B:75:VAL:HG22	2.19	0.67
1:B:157:ALA:O	1:B:159:ASN:N	2.27	0.67
1:C:16:PHE:HD1	1:C:79:PHE:HE1	1.42	0.67
1:C:19:LEU:HD11	1:C:20:ARG:HB2	1.75	0.67
1:C:35:ALA:O	1:C:36:HIS:O	2.12	0.67
1:C:340:SER:CB	1:C:395:ASN:OD1	2.42	0.67
1:C:398:ASP:O	1:C:399:LEU:O	2.12	0.67
1:E:24:THR:HB	1:E:26:GLY:H	1.58	0.67
1:F:39:ASN:O	1:F:40:ALA:HB3	1.93	0.67
1:F:75:VAL:CG2	1:F:84:THR:CG2	2.71	0.67
1:F:155:GLU:C	1:F:156:GLY:O	2.33	0.67
1:G:14:VAL:HA	1:G:81:ALA:CB	2.24	0.67
1:G:24:THR:HB	1:G:26:GLY:H	1.58	0.67
1:G:68:MET:CE	1:G:88:ARG:CB	2.72	0.67
1:H:66:VAL:HA	1:H:87:ILE:HD13	1.77	0.67
1:I:348:VAL:CG1	1:I:354:ARG:HD3	2.20	0.67
1:J:182:VAL:HG13	1:K:28:GLU:HG3	1.74	0.67
1:J:337:ARG:HG3	1:J:338:ASN:N	2.09	0.67
1:K:340:SER:CB	1:K:395:ASN:OD1	2.41	0.67
1:L:88:ARG:C	1:L:89:CYS:O	2.32	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:68:MET:CE	1:A:88:ARG:CB	2.72	0.67
1:B:40:ALA:HA	1:B:43:PHE:HB2	1.74	0.67
1:B:54:ILE:CG1	1:B:102:ARG:NE	2.47	0.67
1:C:67:LEU:HA	1:C:69:PRO:HG3	1.75	0.67
1:C:348:VAL:CG1	1:C:354:ARG:HD3	2.20	0.67
1:C:351:PRO:HG2	1:C:352:LYS:N	2.07	0.67
1:C:464:LEU:HD23	1:C:465:TYR:N	2.09	0.67
1:D:67:LEU:O	1:D:86:ILE:HD13	1.93	0.67
1:D:155:GLU:C	1:D:156:GLY:O	2.33	0.67
1:E:155:GLU:C	1:E:156:GLY:O	2.32	0.67
1:E:464:LEU:HD23	1:E:465:TYR:N	2.10	0.67
1:F:35:ALA:O	1:F:36:HIS:O	2.13	0.67
1:F:66:VAL:HA	1:F:87:ILE:HD13	1.77	0.67
1:F:67:LEU:O	1:F:86:ILE:HD13	1.93	0.67
1:F:407:ILE:CD1	1:F:408:PRO:HD2	2.16	0.67
1:G:79:PHE:HD1	1:G:80:PHE:CB	2.05	0.67
1:G:92:LEU:HG	1:G:93:GLU:N	2.08	0.67
1:I:79:PHE:HD1	1:I:80:PHE:CB	2.05	0.67
1:I:155:GLU:C	1:I:156:GLY:O	2.32	0.67
1:I:390:GLU:HB3	1:I:391:PRO:HD2	1.76	0.67
1:I:464:LEU:HD23	1:I:465:TYR:N	2.09	0.67
1:J:35:ALA:O	1:J:36:HIS:O	2.12	0.67
1:J:376:MET:HE3	1:J:433:VAL:HG21	1.74	0.67
1:K:24:THR:HB	1:K:26:GLY:H	1.58	0.67
1:K:35:ALA:O	1:K:36:HIS:O	2.12	0.67
1:K:348:VAL:CG1	1:K:354:ARG:HD3	2.20	0.67
1:K:398:ASP:O	1:K:399:LEU:O	2.12	0.67
1:L:19:LEU:CD2	1:L:75:VAL:HG22	2.19	0.67
1:L:157:ALA:O	1:L:159:ASN:N	2.27	0.67
1:A:79:PHE:HD1	1:A:80:PHE:CB	2.05	0.67
1:A:92:LEU:HG	1:A:93:GLU:N	2.09	0.67
1:A:462:PHE:CE1	1:G:149:VAL:HG21	2.30	0.67
1:B:88:ARG:C	1:B:89:CYS:O	2.32	0.67
1:D:35:ALA:O	1:D:36:HIS:O	2.12	0.67
1:D:67:LEU:HA	1:D:69:PRO:HG3	1.75	0.67
1:E:376:MET:HE3	1:E:433:VAL:HG13	1.74	0.67
1:E:465:TYR:HD2	1:K:315:THR:CG2	1.61	0.67
1:F:67:LEU:HA	1:F:69:PRO:HG3	1.75	0.67
1:F:340:SER:CB	1:F:395:ASN:OD1	2.42	0.67
1:H:35:ALA:O	1:H:36:HIS:O	2.13	0.67
1:H:75:VAL:HG11	1:H:78:PRO:CD	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:92:LEU:HG	1:H:93:GLU:N	2.09	0.67
1:H:159:ASN:HB3	1:H:172:ARG:HH21	1.60	0.67
1:I:19:LEU:O	1:I:20:ARG:HB3	1.93	0.67
1:J:67:LEU:HA	1:J:69:PRO:HG3	1.75	0.67
1:J:155:GLU:C	1:J:156:GLY:O	2.33	0.67
1:J:180:PHE:N	1:J:181:PRO:CD	2.54	0.67
1:K:16:PHE:HD1	1:K:79:PHE:HE1	1.42	0.67
1:A:24:THR:HB	1:A:26:GLY:H	1.58	0.67
1:A:149:VAL:HG21	1:G:462:PHE:CE1	2.30	0.67
1:B:20:ARG:HH12	1:B:86:ILE:CG2	2.07	0.67
1:B:149:VAL:HG21	1:H:462:PHE:CE1	2.30	0.67
1:D:33:ILE:HD13	1:D:34:PRO:HD2	1.75	0.67
1:D:462:PHE:CE1	1:J:149:VAL:HG21	2.30	0.67
1:E:19:LEU:HD11	1:E:20:ARG:HB2	1.75	0.67
1:E:79:PHE:HD1	1:E:80:PHE:CB	2.06	0.67
1:F:24:THR:HG22	1:F:25:LYS:H	1.56	0.67
1:F:462:PHE:CE1	1:L:149:VAL:HG21	2.30	0.67
1:G:19:LEU:O	1:G:20:ARG:HB3	1.93	0.67
1:G:243:HIS:HB3	1:L:184:PRO:HG3	1.75	0.67
1:G:398:ASP:O	1:G:399:LEU:O	2.12	0.67
1:H:157:ALA:O	1:H:159:ASN:N	2.27	0.67
1:J:67:LEU:O	1:J:86:ILE:HD13	1.93	0.67
1:K:67:LEU:HA	1:K:69:PRO:HG3	1.75	0.67
1:K:464:LEU:HD23	1:K:465:TYR:N	2.10	0.67
1:A:398:ASP:O	1:A:399:LEU:O	2.12	0.67
1:B:68:MET:CE	1:B:88:ARG:CB	2.72	0.67
1:B:398:ASP:O	1:B:399:LEU:O	2.12	0.67
1:C:24:THR:HB	1:C:26:GLY:H	1.59	0.67
1:D:66:VAL:HA	1:D:87:ILE:HD13	1.77	0.67
1:D:233:ASP:HB2	1:D:368:TYR:OH	1.95	0.67
1:E:19:LEU:O	1:E:20:ARG:HB3	1.93	0.67
1:E:20:ARG:NH1	1:E:86:ILE:CG2	2.51	0.67
1:E:28:GLU:HG3	1:F:182:VAL:HG13	1.75	0.67
1:E:66:VAL:HA	1:E:87:ILE:HD13	1.77	0.67
1:E:67:LEU:O	1:E:86:ILE:HD13	1.93	0.67
1:E:348:VAL:CG1	1:E:354:ARG:HD3	2.20	0.67
1:F:79:PHE:HD1	1:F:80:PHE:CB	2.05	0.67
1:F:159:ASN:HB3	1:F:172:ARG:HH21	1.60	0.67
1:H:67:LEU:O	1:H:86:ILE:HD13	1.93	0.67
1:H:79:PHE:HD1	1:H:80:PHE:CB	2.05	0.67
1:H:340:SER:CB	1:H:395:ASN:OD1	2.42	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:66:VAL:HA	1:I:87:ILE:HD13	1.77	0.67
1:K:68:MET:CE	1:K:88:ARG:CB	2.72	0.67
1:K:159:ASN:HB3	1:K:172:ARG:HH21	1.60	0.67
1:L:68:MET:CE	1:L:88:ARG:CB	2.72	0.67
1:L:79:PHE:HB2	1:L:80:PHE:CD1	2.29	0.67
1:L:233:ASP:HB2	1:L:368:TYR:OH	1.95	0.67
1:A:75:VAL:HG11	1:A:78:PRO:CD	2.24	0.67
1:A:233:ASP:HB2	1:A:368:TYR:OH	1.95	0.67
1:A:243:HIS:HB3	1:B:184:PRO:HG3	1.75	0.67
1:C:68:MET:CE	1:C:88:ARG:CB	2.72	0.67
1:C:149:VAL:HG21	1:I:462:PHE:CE1	2.30	0.67
1:C:159:ASN:HB3	1:C:172:ARG:HH21	1.60	0.67
1:E:462:PHE:CE1	1:K:149:VAL:HG21	2.30	0.67
1:F:79:PHE:HB2	1:F:80:PHE:CD1	2.29	0.67
1:F:228:MET:HE2	1:F:371:PHE:CB	2.24	0.67
1:G:75:VAL:HG11	1:G:78:PRO:CD	2.24	0.67
1:H:182:VAL:HG13	1:I:28:GLU:HG3	1.75	0.67
1:I:19:LEU:HD11	1:I:20:ARG:HB2	1.75	0.67
1:I:67:LEU:O	1:I:86:ILE:HD13	1.93	0.67
1:I:337:ARG:HG3	1:I:338:ASN:N	2.09	0.67
1:J:66:VAL:HA	1:J:87:ILE:HD13	1.77	0.67
1:J:75:VAL:HG11	1:J:78:PRO:CD	2.24	0.67
1:J:233:ASP:HB2	1:J:368:TYR:OH	1.95	0.67
1:L:66:VAL:HA	1:L:87:ILE:HD13	1.77	0.67
1:B:20:ARG:HH22	1:B:86:ILE:CG2	2.06	0.67
1:B:79:PHE:HB2	1:B:80:PHE:CD1	2.29	0.67
1:D:75:VAL:HG11	1:D:78:PRO:CD	2.24	0.67
1:D:149:VAL:HG21	1:J:462:PHE:CE1	2.30	0.67
1:D:436:ASP:O	1:D:439:ILE:HB	1.94	0.67
1:E:337:ARG:HG3	1:E:338:ASN:N	2.08	0.67
1:F:75:VAL:HG11	1:F:78:PRO:CD	2.24	0.67
1:F:149:VAL:HG21	1:L:462:PHE:CE1	2.30	0.67
1:F:157:ALA:O	1:F:159:ASN:N	2.27	0.67
1:H:24:THR:HG22	1:H:25:LYS:H	1.56	0.67
1:H:233:ASP:HB2	1:H:368:TYR:OH	1.95	0.67
1:J:436:ASP:O	1:J:439:ILE:HB	1.94	0.67
1:K:71:ALA:HB1	1:K:86:ILE:HG13	1.77	0.67
1:L:40:ALA:O	1:L:41:GLU:CB	2.43	0.67
1:L:398:ASP:O	1:L:399:LEU:O	2.12	0.67
1:A:16:PHE:HD1	1:A:79:PHE:HE1	1.42	0.67
1:A:390:GLU:HB3	1:A:391:PRO:HD2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:40:ALA:O	1:B:41:GLU:CB	2.43	0.67
1:B:66:VAL:HA	1:B:87:ILE:HD13	1.77	0.67
1:B:75:VAL:HG11	1:B:78:PRO:CD	2.24	0.67
1:B:159:ASN:HB3	1:B:172:ARG:HH21	1.60	0.67
1:B:233:ASP:HB2	1:B:368:TYR:OH	1.95	0.67
1:B:390:GLU:HB3	1:B:391:PRO:HD2	1.76	0.67
1:B:462:PHE:CE1	1:H:149:VAL:HG21	2.30	0.67
1:D:159:ASN:HB3	1:D:172:ARG:HH21	1.60	0.67
1:D:464:LEU:HD23	1:D:465:TYR:N	2.09	0.67
1:F:27:LYS:HZ2	1:F:239:LYS:NZ	1.89	0.67
1:G:16:PHE:HD1	1:G:79:PHE:HE1	1.42	0.67
1:G:27:LYS:HZ3	1:G:239:LYS:HZ2	1.35	0.67
1:G:40:ALA:O	1:G:41:GLU:CB	2.43	0.67
1:G:233:ASP:HB2	1:G:368:TYR:OH	1.95	0.67
1:H:15:LYS:O	1:H:16:PHE:CB	2.37	0.67
1:H:88:ARG:C	1:H:89:CYS:O	2.32	0.67
1:I:20:ARG:NH1	1:I:86:ILE:CG2	2.51	0.67
1:I:131:GLU:HB2	1:I:266:SER:HB3	1.77	0.67
1:J:464:LEU:HD23	1:J:465:TYR:N	2.09	0.67
1:K:131:GLU:HB2	1:K:266:SER:HB3	1.77	0.67
1:L:20:ARG:HH12	1:L:86:ILE:CG2	2.07	0.67
1:L:20:ARG:HH22	1:L:86:ILE:CG2	2.05	0.67
1:A:67:LEU:HA	1:A:69:PRO:HG3	1.75	0.67
1:A:247:HIS:HA	1:A:251:LYS:O	1.95	0.67
1:B:247:HIS:HA	1:B:251:LYS:O	1.95	0.67
1:C:79:PHE:HB2	1:C:80:PHE:CD1	2.29	0.67
1:D:105:ARG:O	1:D:108:ALA:HB3	1.95	0.67
1:E:131:GLU:HB2	1:E:266:SER:HB3	1.78	0.67
1:E:390:GLU:HB3	1:E:391:PRO:HD2	1.76	0.67
1:F:362:ASP:C	1:F:364:ALA:H	1.98	0.67
1:F:464:LEU:HD23	1:F:465:TYR:N	2.09	0.67
1:G:63:SER:HG	1:G:91:ILE:HG22	1.59	0.67
1:G:247:HIS:HA	1:G:251:LYS:O	1.95	0.67
1:H:19:LEU:O	1:H:19:LEU:CD1	2.43	0.67
1:L:67:LEU:HA	1:L:69:PRO:HG3	1.75	0.67
1:B:65:MET:C	1:B:65:MET:HE2	2.15	0.66
1:C:131:GLU:HB2	1:C:266:SER:HB3	1.78	0.66
1:F:88:ARG:C	1:F:89:CYS:O	2.32	0.66
1:F:233:ASP:HB2	1:F:368:TYR:OH	1.95	0.66
1:G:390:GLU:HB3	1:G:391:PRO:HD2	1.76	0.66
1:H:79:PHE:HB2	1:H:80:PHE:CD1	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:79:PHE:HB2	1:I:80:PHE:CD1	2.29	0.66
1:J:157:ALA:O	1:J:159:ASN:N	2.27	0.66
1:J:159:ASN:HB3	1:J:172:ARG:HH21	1.60	0.66
1:K:79:PHE:HB2	1:K:80:PHE:CD1	2.29	0.66
1:L:75:VAL:HG11	1:L:78:PRO:CD	2.24	0.66
1:L:247:HIS:HA	1:L:251:LYS:O	1.95	0.66
1:B:35:ALA:O	1:B:36:HIS:O	2.12	0.66
1:C:71:ALA:HB1	1:C:86:ILE:HG13	1.77	0.66
1:D:27:LYS:NZ	1:D:239:LYS:HZ2	1.89	0.66
1:D:88:ARG:C	1:D:89:CYS:O	2.32	0.66
1:D:157:ALA:O	1:D:159:ASN:N	2.27	0.66
1:D:362:ASP:C	1:D:364:ALA:H	1.98	0.66
1:E:68:MET:CE	1:E:88:ARG:CB	2.72	0.66
1:F:19:LEU:O	1:F:19:LEU:CD1	2.44	0.66
1:F:20:ARG:NH1	1:F:86:ILE:CG2	2.51	0.66
1:F:338:ASN:ND2	1:F:395:ASN:N	2.37	0.66
1:H:16:PHE:HD1	1:H:79:PHE:HE1	1.42	0.66
1:I:71:ALA:HB1	1:I:86:ILE:HG13	1.77	0.66
1:I:86:ILE:N	1:I:86:ILE:CD1	2.44	0.66
1:J:19:LEU:O	1:J:19:LEU:CD1	2.44	0.66
1:J:88:ARG:C	1:J:89:CYS:O	2.32	0.66
1:J:105:ARG:O	1:J:108:ALA:HB3	1.95	0.66
1:L:35:ALA:O	1:L:36:HIS:O	2.12	0.66
1:L:159:ASN:HB3	1:L:172:ARG:HH21	1.60	0.66
1:L:390:GLU:HB3	1:L:391:PRO:HD2	1.76	0.66
1:B:464:LEU:HD23	1:B:465:TYR:N	2.10	0.66
1:C:19:LEU:O	1:C:19:LEU:CD1	2.44	0.66
1:C:436:ASP:O	1:C:439:ILE:HB	1.93	0.66
1:E:79:PHE:HB2	1:E:80:PHE:CD1	2.30	0.66
1:E:149:VAL:HG21	1:K:462:PHE:CE1	2.30	0.66
1:G:67:LEU:HA	1:G:69:PRO:HG3	1.75	0.66
1:G:159:ASN:HB3	1:G:172:ARG:HH21	1.60	0.66
1:H:376:MET:HE1	1:H:433:VAL:CG1	2.13	0.66
1:H:390:GLU:HB3	1:H:391:PRO:HD2	1.76	0.66
1:H:464:LEU:HD23	1:H:465:TYR:N	2.10	0.66
1:I:68:MET:CE	1:I:88:ARG:CB	2.72	0.66
1:I:214:ALA:O	1:I:215:THR:C	2.34	0.66
1:K:105:ARG:O	1:K:108:ALA:HB3	1.95	0.66
1:L:464:LEU:HD23	1:L:465:TYR:N	2.09	0.66
1:C:92:LEU:H	1:C:97:LEU:N	1.94	0.66
1:C:172:ARG:HB2	1:C:173:PRO:CD	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:462:PHE:CE1	1:I:149:VAL:HG21	2.30	0.66
1:D:19:LEU:O	1:D:19:LEU:CD1	2.44	0.66
1:F:19:LEU:C	1:F:19:LEU:CD1	2.49	0.66
1:H:338:ASN:ND2	1:H:395:ASN:N	2.38	0.66
1:J:71:ALA:HB1	1:J:86:ILE:HG13	1.77	0.66
1:J:362:ASP:C	1:J:364:ALA:H	1.98	0.66
1:K:19:LEU:O	1:K:19:LEU:CD1	2.44	0.66
1:K:92:LEU:HG	1:K:93:GLU:N	2.08	0.66
1:K:436:ASP:O	1:K:439:ILE:HB	1.94	0.66
1:A:159:ASN:HB3	1:A:172:ARG:HH21	1.60	0.66
1:B:71:ALA:HB1	1:B:86:ILE:HG13	1.77	0.66
1:C:105:ARG:O	1:C:108:ALA:HB3	1.95	0.66
1:C:233:ASP:HB2	1:C:368:TYR:OH	1.95	0.66
1:D:39:ASN:C	1:D:39:ASN:ND2	2.44	0.66
1:D:315:THR:HG23	1:J:465:TYR:HE2	1.48	0.66
1:E:19:LEU:O	1:E:19:LEU:CD1	2.44	0.66
1:E:71:ALA:HB1	1:E:86:ILE:HG13	1.77	0.66
1:E:214:ALA:O	1:E:215:THR:C	2.34	0.66
1:F:16:PHE:HD1	1:F:79:PHE:HE1	1.42	0.66
1:F:27:LYS:NZ	1:F:239:LYS:HZ2	1.87	0.66
1:H:20:ARG:NH1	1:H:86:ILE:CG2	2.51	0.66
1:H:214:ALA:O	1:H:215:THR:C	2.34	0.66
1:I:19:LEU:O	1:I:19:LEU:CD1	2.44	0.66
1:I:27:LYS:NZ	1:I:239:LYS:HZ2	1.90	0.66
1:J:20:ARG:HH12	1:J:86:ILE:CG2	2.07	0.66
1:K:362:ASP:C	1:K:364:ALA:H	1.98	0.66
1:A:19:LEU:O	1:A:19:LEU:CD1	2.44	0.66
1:A:362:ASP:C	1:A:364:ALA:H	1.98	0.66
1:B:167:GLY:O	1:B:169:LYS:HD3	1.96	0.66
1:C:92:LEU:HG	1:C:93:GLU:N	2.09	0.66
1:D:71:ALA:HB1	1:D:86:ILE:HG13	1.77	0.66
1:E:20:ARG:HH12	1:E:86:ILE:CG2	2.07	0.66
1:E:86:ILE:N	1:E:86:ILE:CD1	2.44	0.66
1:F:390:GLU:HB3	1:F:391:PRO:HD2	1.76	0.66
1:G:19:LEU:O	1:G:19:LEU:CD1	2.44	0.66
1:G:172:ARG:HB2	1:G:173:PRO:CD	2.25	0.66
1:H:172:ARG:HB2	1:H:173:PRO:CD	2.25	0.66
1:I:159:ASN:HB3	1:I:172:ARG:HH21	1.60	0.66
1:J:39:ASN:C	1:J:39:ASN:ND2	2.44	0.66
1:K:233:ASP:HB2	1:K:368:TYR:OH	1.96	0.66
1:A:167:GLY:O	1:A:169:LYS:HD3	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:172:ARG:HB2	1:A:173:PRO:CD	2.25	0.66
1:B:67:LEU:HA	1:B:69:PRO:HG3	1.76	0.66
1:B:131:GLU:HB2	1:B:266:SER:HB3	1.77	0.66
1:C:34:PRO:HG3	1:D:206:VAL:HG12	1.78	0.66
1:D:126:PHE:CE1	1:D:228:MET:HE3	2.31	0.66
1:F:19:LEU:HD22	1:F:240:TYR:CE2	2.25	0.66
1:G:34:PRO:HG3	1:L:206:VAL:HG12	1.78	0.66
1:I:35:ALA:O	1:I:36:HIS:O	2.13	0.66
1:I:105:ARG:O	1:I:108:ALA:HB3	1.95	0.66
1:J:206:VAL:HG12	1:K:34:PRO:HG3	1.78	0.66
1:K:92:LEU:H	1:K:97:LEU:N	1.94	0.66
1:L:71:ALA:HB1	1:L:86:ILE:HG13	1.77	0.66
1:L:92:LEU:H	1:L:97:LEU:N	1.94	0.66
1:L:167:GLY:O	1:L:169:LYS:HD3	1.96	0.66
1:B:376:MET:HE3	1:B:433:VAL:HG13	1.77	0.66
1:C:115:LEU:O	1:C:118:THR:HG23	1.96	0.66
1:C:228:MET:HE2	1:C:371:PHE:CB	2.24	0.66
1:D:20:ARG:HH12	1:D:86:ILE:CG2	2.07	0.66
1:D:115:LEU:O	1:D:118:THR:HG23	1.96	0.66
1:E:35:ALA:O	1:E:36:HIS:O	2.12	0.66
1:E:159:ASN:HB3	1:E:172:ARG:HH21	1.60	0.66
1:E:172:ARG:HB2	1:E:173:PRO:CD	2.25	0.66
1:E:338:ASN:ND2	1:E:395:ASN:N	2.38	0.66
1:G:228:MET:HE2	1:G:371:PHE:CB	2.24	0.66
1:I:20:ARG:HH12	1:I:86:ILE:CG2	2.07	0.66
1:I:338:ASN:ND2	1:I:395:ASN:N	2.37	0.66
1:I:436:ASP:O	1:I:439:ILE:HB	1.94	0.66
1:J:79:PHE:HB2	1:J:80:PHE:CD1	2.29	0.66
1:K:66:VAL:HA	1:K:87:ILE:HD13	1.77	0.66
1:K:192:ARG:O	1:K:193:SER:C	2.34	0.66
1:A:34:PRO:HG3	1:B:206:VAL:HG12	1.78	0.66
1:B:92:LEU:H	1:B:97:LEU:N	1.94	0.66
1:B:105:ARG:O	1:B:108:ALA:HB3	1.95	0.66
1:B:465:TYR:O	1:B:468:VAL:HG12	1.96	0.66
1:C:66:VAL:HA	1:C:87:ILE:HD13	1.77	0.66
1:C:192:ARG:O	1:C:193:SER:C	2.34	0.66
1:C:362:ASP:C	1:C:364:ALA:H	1.98	0.66
1:D:247:HIS:HA	1:D:251:LYS:O	1.95	0.66
1:D:465:TYR:HE2	1:J:315:THR:HG23	1.48	0.66
1:E:22:THR:HB	1:E:29:GLN:HB2	1.78	0.66
1:E:362:ASP:C	1:E:364:ALA:H	1.98	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:436:ASP:O	1:E:439:ILE:HB	1.94	0.66
1:F:22:THR:HB	1:F:29:GLN:HB2	1.77	0.66
1:F:172:ARG:HB2	1:F:173:PRO:CD	2.26	0.66
1:G:17:VAL:HG11	1:G:33:ILE:HG22	1.78	0.66
1:G:76:ILE:CD1	1:G:202:MET:CE	2.48	0.66
1:G:167:GLY:O	1:G:169:LYS:HD3	1.96	0.66
1:G:223:THR:HG22	1:G:231:LYS:HZ3	1.59	0.66
1:H:19:LEU:C	1:H:19:LEU:CD1	2.49	0.66
1:I:22:THR:HB	1:I:29:GLN:HB2	1.77	0.66
1:I:362:ASP:C	1:I:364:ALA:H	1.98	0.66
1:J:126:PHE:CE1	1:J:228:MET:HE3	2.31	0.66
1:J:247:HIS:HA	1:J:251:LYS:O	1.95	0.66
1:K:172:ARG:HB2	1:K:173:PRO:CD	2.26	0.66
1:L:131:GLU:HB2	1:L:266:SER:HB3	1.77	0.66
1:B:345:ILE:CD1	1:B:345:ILE:N	2.31	0.66
1:C:247:HIS:HA	1:C:251:LYS:O	1.95	0.66
1:D:79:PHE:HB2	1:D:80:PHE:CD1	2.29	0.66
1:E:247:HIS:HA	1:E:251:LYS:O	1.95	0.66
1:G:464:LEU:HD23	1:G:465:TYR:N	2.09	0.66
1:H:22:THR:HB	1:H:29:GLN:HB2	1.77	0.66
1:I:172:ARG:HB2	1:I:173:PRO:CD	2.26	0.66
1:J:67:LEU:CD2	1:J:88:ARG:HB3	2.26	0.66
1:J:115:LEU:O	1:J:118:THR:HG23	1.96	0.66
1:L:22:THR:HB	1:L:29:GLN:HB2	1.78	0.66
1:L:92:LEU:HG	1:L:93:GLU:N	2.09	0.66
1:L:465:TYR:O	1:L:468:VAL:HG12	1.96	0.66
1:A:20:ARG:NH1	1:A:86:ILE:CG2	2.51	0.65
1:A:66:VAL:HA	1:A:87:ILE:HD13	1.77	0.65
1:A:115:LEU:O	1:A:118:THR:HG23	1.96	0.65
1:A:192:ARG:O	1:A:193:SER:C	2.34	0.65
1:B:22:THR:HB	1:B:29:GLN:HB2	1.78	0.65
1:D:22:THR:HB	1:D:29:GLN:HB2	1.78	0.65
1:D:67:LEU:CD2	1:D:88:ARG:HB3	2.26	0.65
1:E:19:LEU:CD2	1:E:75:VAL:HG22	2.19	0.65
1:H:27:LYS:NZ	1:H:239:LYS:HZ2	1.87	0.65
1:I:19:LEU:CD2	1:I:75:VAL:HG22	2.19	0.65
1:I:233:ASP:HB2	1:I:368:TYR:OH	1.95	0.65
1:I:247:HIS:HA	1:I:251:LYS:O	1.95	0.65
1:J:22:THR:HB	1:J:29:GLN:HB2	1.77	0.65
1:K:75:VAL:HG11	1:K:78:PRO:CD	2.24	0.65
1:K:115:LEU:O	1:K:118:THR:HG23	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:17:VAL:HG11	1:A:33:ILE:HG22	1.79	0.65
1:A:228:MET:HE2	1:A:371:PHE:CB	2.25	0.65
1:B:92:LEU:HG	1:B:93:GLU:N	2.09	0.65
1:B:115:LEU:O	1:B:118:THR:HG23	1.96	0.65
1:B:172:ARG:HB2	1:B:173:PRO:CD	2.25	0.65
1:B:461:GLU:OE1	1:H:316:THR:CG2	2.36	0.65
1:C:114:TYR:CD1	1:C:114:TYR:C	2.70	0.65
1:C:281:LEU:HD23	1:C:293:GLN:NE2	2.12	0.65
1:D:68:MET:CE	1:D:88:ARG:CB	2.72	0.65
1:D:131:GLU:HB2	1:D:266:SER:HB3	1.77	0.65
1:F:122:ASP:HB2	1:F:276:LYS:HD3	1.78	0.65
1:F:131:GLU:HB2	1:F:266:SER:HB3	1.77	0.65
1:F:247:HIS:HA	1:F:251:LYS:O	1.95	0.65
1:G:115:LEU:O	1:G:118:THR:HG23	1.96	0.65
1:G:465:TYR:O	1:G:468:VAL:HG12	1.96	0.65
1:H:126:PHE:CE1	1:H:228:MET:HE3	2.31	0.65
1:H:131:GLU:HB2	1:H:266:SER:HB3	1.78	0.65
1:I:167:GLY:O	1:I:169:LYS:HD3	1.96	0.65
1:J:68:MET:CE	1:J:88:ARG:CB	2.72	0.65
1:J:92:LEU:H	1:J:97:LEU:N	1.94	0.65
1:J:172:ARG:HB2	1:J:173:PRO:CD	2.25	0.65
1:K:68:MET:HE1	1:K:88:ARG:HB2	1.78	0.65
1:K:228:MET:HE2	1:K:371:PHE:CB	2.24	0.65
1:L:105:ARG:O	1:L:108:ALA:HB3	1.96	0.65
1:A:76:ILE:CD1	1:A:202:MET:CE	2.48	0.65
1:B:192:ARG:O	1:B:193:SER:C	2.34	0.65
1:B:281:LEU:HD23	1:B:293:GLN:NE2	2.12	0.65
1:C:20:ARG:HH12	1:C:86:ILE:CG2	2.07	0.65
1:C:75:VAL:HG11	1:C:78:PRO:CD	2.24	0.65
1:C:424:ASP:O	1:C:426:GLU:N	2.30	0.65
1:E:105:ARG:O	1:E:108:ALA:HB3	1.96	0.65
1:E:167:GLY:O	1:E:169:LYS:HD3	1.96	0.65
1:E:233:ASP:HB2	1:E:368:TYR:OH	1.95	0.65
1:F:17:VAL:HG11	1:F:33:ILE:HG22	1.79	0.65
1:F:316:THR:CG2	1:L:461:GLU:OE1	2.36	0.65
1:G:66:VAL:HA	1:G:87:ILE:HD13	1.76	0.65
1:G:192:ARG:O	1:G:193:SER:C	2.34	0.65
1:G:340:SER:CB	1:G:395:ASN:OD1	2.41	0.65
1:G:424:ASP:O	1:G:426:GLU:N	2.30	0.65
1:H:17:VAL:HG11	1:H:33:ILE:HG22	1.78	0.65
1:H:122:ASP:HB2	1:H:276:LYS:HD3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:206:VAL:HG12	1:J:34:PRO:HG3	1.78	0.65
1:J:40:ALA:O	1:J:41:GLU:CB	2.43	0.65
1:K:114:TYR:CD1	1:K:114:TYR:C	2.70	0.65
1:K:281:LEU:HD23	1:K:293:GLN:NE2	2.12	0.65
1:L:115:LEU:O	1:L:118:THR:HG23	1.96	0.65
1:L:192:ARG:O	1:L:193:SER:C	2.34	0.65
1:L:281:LEU:HD23	1:L:293:GLN:NE2	2.12	0.65
1:A:92:LEU:H	1:A:97:LEU:N	1.94	0.65
1:A:105:ARG:O	1:A:108:ALA:HB3	1.95	0.65
1:A:340:SER:CB	1:A:395:ASN:OD1	2.41	0.65
1:A:424:ASP:O	1:A:426:GLU:N	2.30	0.65
1:A:464:LEU:HD23	1:A:465:TYR:N	2.09	0.65
1:A:465:TYR:O	1:A:468:VAL:HG12	1.96	0.65
1:B:340:SER:CB	1:B:395:ASN:OD1	2.41	0.65
1:B:403:GLU:O	1:B:406:GLU:HB3	1.96	0.65
1:B:424:ASP:O	1:B:426:GLU:N	2.30	0.65
1:D:40:ALA:O	1:D:41:GLU:CB	2.43	0.65
1:D:172:ARG:HB2	1:D:173:PRO:CD	2.26	0.65
1:F:424:ASP:O	1:F:426:GLU:N	2.30	0.65
1:G:71:ALA:HB1	1:G:86:ILE:HG13	1.77	0.65
1:G:92:LEU:H	1:G:97:LEU:N	1.94	0.65
1:I:403:GLU:O	1:I:406:GLU:HB3	1.96	0.65
1:J:112:GLU:O	1:J:115:LEU:HB3	1.97	0.65
1:J:131:GLU:HB2	1:J:266:SER:HB3	1.77	0.65
1:J:403:GLU:O	1:J:406:GLU:HB3	1.96	0.65
1:K:67:LEU:CD2	1:K:88:ARG:HB3	2.26	0.65
1:K:125:LEU:N	1:K:125:LEU:CD2	2.60	0.65
1:K:247:HIS:HA	1:K:251:LYS:O	1.95	0.65
1:K:424:ASP:O	1:K:426:GLU:N	2.30	0.65
1:L:17:VAL:HG11	1:L:33:ILE:HG22	1.79	0.65
1:L:403:GLU:O	1:L:406:GLU:HB3	1.96	0.65
1:A:27:LYS:HZ3	1:A:239:LYS:HZ2	1.36	0.65
1:A:71:ALA:HB1	1:A:86:ILE:HG13	1.77	0.65
1:B:17:VAL:HG11	1:B:33:ILE:HG22	1.79	0.65
1:B:228:MET:CE	1:B:371:PHE:C	2.65	0.65
1:C:67:LEU:CD2	1:C:88:ARG:HB3	2.26	0.65
1:C:122:ASP:HB2	1:C:276:LYS:HD3	1.78	0.65
1:C:125:LEU:N	1:C:125:LEU:CD2	2.60	0.65
1:C:228:MET:CE	1:C:371:PHE:C	2.65	0.65
1:C:280:ASN:HD22	1:C:280:ASN:N	1.95	0.65
1:C:425:ARG:NH2	1:C:440:ASP:OD1	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:68:MET:N	1:D:69:PRO:CD	2.53	0.65
1:D:112:GLU:O	1:D:115:LEU:HB3	1.97	0.65
1:D:167:GLY:O	1:D:169:LYS:HD3	1.96	0.65
1:D:403:GLU:O	1:D:406:GLU:HB3	1.96	0.65
1:D:425:ARG:NH2	1:D:440:ASP:OD1	2.30	0.65
1:E:67:LEU:CD2	1:E:88:ARG:HB3	2.26	0.65
1:E:403:GLU:O	1:E:406:GLU:HB3	1.96	0.65
1:F:71:ALA:HB1	1:F:86:ILE:HG13	1.77	0.65
1:F:99:GLY:N	1:F:103:ASP:HB2	2.12	0.65
1:F:167:GLY:O	1:F:169:LYS:HD3	1.96	0.65
1:F:316:THR:CG2	1:L:461:GLU:CD	2.65	0.65
1:G:20:ARG:NH1	1:G:86:ILE:CG2	2.51	0.65
1:G:99:GLY:N	1:G:103:ASP:HB2	2.12	0.65
1:G:105:ARG:O	1:G:108:ALA:HB3	1.95	0.65
1:H:99:GLY:N	1:H:103:ASP:HB2	2.12	0.65
1:H:247:HIS:HA	1:H:251:LYS:O	1.95	0.65
1:I:79:PHE:CG	1:I:80:PHE:CD1	2.84	0.65
1:I:115:LEU:O	1:I:118:THR:HG23	1.96	0.65
1:J:54:ILE:CG1	1:J:102:ARG:NE	2.47	0.65
1:J:167:GLY:O	1:J:169:LYS:HD3	1.96	0.65
1:K:20:ARG:HH12	1:K:86:ILE:CG2	2.07	0.65
1:K:425:ARG:NH2	1:K:440:ASP:OD1	2.30	0.65
1:L:345:ILE:CD1	1:L:345:ILE:N	2.31	0.65
1:A:68:MET:N	1:A:69:PRO:CD	2.53	0.65
1:A:99:GLY:N	1:A:103:ASP:HB2	2.12	0.65
1:A:376:MET:HE3	1:A:433:VAL:HG21	1.78	0.65
1:B:425:ARG:NH2	1:B:440:ASP:OD1	2.30	0.65
1:B:461:GLU:CD	1:H:316:THR:CG2	2.65	0.65
1:C:27:LYS:NZ	1:C:239:LYS:HZ2	1.87	0.65
1:C:465:TYR:O	1:C:468:VAL:HG12	1.96	0.65
1:D:34:PRO:HG3	1:E:206:VAL:HG12	1.78	0.65
1:D:465:TYR:O	1:D:468:VAL:HG12	1.96	0.65
1:E:192:ARG:O	1:E:193:SER:C	2.34	0.65
1:F:192:ARG:O	1:F:193:SER:C	2.34	0.65
1:H:71:ALA:HB1	1:H:86:ILE:HG13	1.77	0.65
1:H:424:ASP:O	1:H:426:GLU:N	2.30	0.65
1:I:192:ARG:O	1:I:193:SER:C	2.34	0.65
1:J:425:ARG:NH2	1:J:440:ASP:OD1	2.30	0.65
1:J:465:TYR:O	1:J:468:VAL:HG12	1.96	0.65
1:K:122:ASP:HB2	1:K:276:LYS:HD3	1.78	0.65
1:K:228:MET:CE	1:K:371:PHE:C	2.65	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:280:ASN:HD22	1:K:280:ASN:N	1.95	0.65
1:K:465:TYR:O	1:K:468:VAL:HG12	1.96	0.65
1:L:114:TYR:C	1:L:114:TYR:CD1	2.70	0.65
1:L:172:ARG:HB2	1:L:173:PRO:CD	2.26	0.65
1:L:340:SER:CB	1:L:395:ASN:OD1	2.41	0.65
1:L:424:ASP:O	1:L:426:GLU:N	2.30	0.65
1:C:19:LEU:CD2	1:C:75:VAL:HG22	2.19	0.65
1:D:16:PHE:HD1	1:D:79:PHE:HE1	1.42	0.65
1:D:92:LEU:H	1:D:97:LEU:N	1.94	0.65
1:E:17:VAL:HG11	1:E:33:ILE:HG22	1.79	0.65
1:F:338:ASN:O	1:F:339:ARG:O	2.15	0.65
1:G:407:ILE:CD1	1:G:408:PRO:HD2	2.16	0.65
1:H:192:ARG:O	1:H:193:SER:C	2.34	0.65
1:H:338:ASN:O	1:H:339:ARG:O	2.15	0.65
1:I:228:MET:HE2	1:I:371:PHE:CB	2.27	0.65
1:L:425:ARG:NH2	1:L:440:ASP:OD1	2.30	0.65
1:A:125:LEU:N	1:A:125:LEU:CD2	2.60	0.65
1:A:214:ALA:O	1:A:215:THR:C	2.34	0.65
1:A:338:ASN:O	1:A:339:ARG:O	2.15	0.65
1:B:79:PHE:CG	1:B:80:PHE:CD1	2.84	0.65
1:C:68:MET:HE1	1:C:88:ARG:HB2	1.78	0.65
1:C:461:GLU:CD	1:I:316:THR:CG2	2.65	0.65
1:E:115:LEU:O	1:E:118:THR:HG23	1.96	0.65
1:E:228:MET:HE2	1:E:371:PHE:CB	2.27	0.65
1:E:316:THR:CG2	1:K:461:GLU:CD	2.65	0.65
1:E:338:ASN:O	1:E:339:ARG:O	2.15	0.65
1:E:340:SER:CB	1:E:395:ASN:OD1	2.41	0.65
1:F:376:MET:HE3	1:F:433:VAL:HG21	1.79	0.65
1:G:338:ASN:O	1:G:339:ARG:O	2.15	0.65
1:G:348:VAL:CG1	1:G:354:ARG:HD3	2.20	0.65
1:H:167:GLY:O	1:H:169:LYS:HD3	1.96	0.65
1:I:17:VAL:HG11	1:I:33:ILE:HG22	1.79	0.65
1:I:67:LEU:CD2	1:I:88:ARG:HB3	2.27	0.65
1:I:122:ASP:HB2	1:I:276:LYS:HD3	1.78	0.65
1:I:338:ASN:O	1:I:339:ARG:O	2.15	0.65
1:J:16:PHE:HD1	1:J:79:PHE:HE1	1.42	0.65
1:K:19:LEU:CD2	1:K:75:VAL:HG22	2.19	0.65
1:K:206:VAL:HG12	1:L:34:PRO:HG3	1.78	0.65
1:L:47:LYS:O	1:L:64:ASP:N	2.30	0.65
1:L:228:MET:CE	1:L:371:PHE:C	2.65	0.65
1:A:206:VAL:HG12	1:F:34:PRO:HG3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:316:THR:CG2	1:G:461:GLU:CD	2.65	0.65
1:A:348:VAL:CG1	1:A:354:ARG:HD3	2.20	0.65
1:B:27:LYS:HZ3	1:B:239:LYS:HZ2	1.33	0.65
1:B:34:PRO:HG3	1:C:206:VAL:HG12	1.78	0.65
1:B:70:ASP:N	1:B:70:ASP:OD2	2.30	0.65
1:B:114:TYR:CD1	1:B:114:TYR:C	2.70	0.65
1:B:214:ALA:O	1:B:215:THR:C	2.34	0.65
1:C:60:ILE:HG22	1:C:100:TYR:CD2	2.32	0.65
1:C:167:GLY:O	1:C:169:LYS:HD3	1.96	0.65
1:C:214:ALA:O	1:C:215:THR:C	2.34	0.65
1:D:65:MET:CE	1:D:65:MET:CA	2.75	0.65
1:E:92:LEU:HG	1:E:93:GLU:N	2.09	0.65
1:F:381:GLY:O	1:F:385:LYS:O	2.15	0.65
1:G:67:LEU:CD2	1:G:88:ARG:HB3	2.26	0.65
1:H:65:MET:CE	1:H:65:MET:CA	2.75	0.65
1:I:424:ASP:O	1:I:426:GLU:N	2.30	0.65
1:J:47:LYS:O	1:J:64:ASP:N	2.30	0.65
1:J:122:ASP:HB2	1:J:276:LYS:HD3	1.78	0.65
1:K:214:ALA:O	1:K:215:THR:C	2.34	0.65
1:L:125:LEU:N	1:L:125:LEU:CD2	2.59	0.65
1:L:214:ALA:O	1:L:215:THR:C	2.34	0.65
1:A:67:LEU:CD2	1:A:88:ARG:HB3	2.26	0.65
1:A:68:MET:CE	1:A:105:ARG:HD3	2.27	0.65
1:A:122:ASP:HB2	1:A:276:LYS:HD3	1.78	0.65
1:A:461:GLU:CD	1:G:316:THR:CG2	2.65	0.65
1:B:47:LYS:O	1:B:64:ASP:N	2.30	0.65
1:B:99:GLY:N	1:B:103:ASP:HB2	2.12	0.65
1:B:125:LEU:N	1:B:125:LEU:CD2	2.60	0.65
1:C:316:THR:CG2	1:I:461:GLU:CD	2.65	0.65
1:D:47:LYS:O	1:D:64:ASP:N	2.30	0.65
1:D:54:ILE:CG1	1:D:102:ARG:NE	2.47	0.65
1:D:122:ASP:HB2	1:D:276:LYS:HD3	1.78	0.65
1:D:192:ARG:O	1:D:193:SER:C	2.34	0.65
1:D:316:THR:CG2	1:J:461:GLU:CD	2.65	0.65
1:E:122:ASP:HB2	1:E:276:LYS:HD3	1.78	0.65
1:E:381:GLY:O	1:E:385:LYS:O	2.15	0.65
1:F:67:LEU:CD2	1:F:88:ARG:HB3	2.26	0.65
1:F:70:ASP:N	1:F:70:ASP:OD2	2.29	0.65
1:G:68:MET:N	1:G:69:PRO:CD	2.54	0.65
1:G:122:ASP:HB2	1:G:276:LYS:HD3	1.78	0.65
1:G:125:LEU:N	1:G:125:LEU:CD2	2.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:214:ALA:O	1:G:215:THR:C	2.34	0.65
1:I:381:GLY:O	1:I:385:LYS:O	2.15	0.65
1:J:65:MET:CE	1:J:65:MET:CA	2.75	0.65
1:J:192:ARG:O	1:J:193:SER:C	2.34	0.65
1:K:167:GLY:O	1:K:169:LYS:HD3	1.96	0.65
1:L:68:MET:CE	1:L:105:ARG:HD3	2.27	0.65
1:L:70:ASP:N	1:L:70:ASP:OD2	2.29	0.65
1:L:362:ASP:C	1:L:364:ALA:H	1.98	0.65
1:A:182:VAL:HG13	1:F:28:GLU:HG3	1.75	0.64
1:A:228:MET:CE	1:A:371:PHE:C	2.65	0.64
1:A:381:GLY:O	1:A:385:LYS:O	2.16	0.64
1:C:112:GLU:O	1:C:115:LEU:HB3	1.97	0.64
1:C:258:LYS:HB3	1:C:317:ASN:ND2	2.12	0.64
1:D:228:MET:CE	1:D:371:PHE:C	2.65	0.64
1:D:461:GLU:CD	1:J:316:THR:CG2	2.65	0.64
1:E:34:PRO:HG3	1:F:206:VAL:HG12	1.78	0.64
1:E:281:LEU:HD23	1:E:293:GLN:NE2	2.12	0.64
1:E:424:ASP:O	1:E:426:GLU:N	2.30	0.64
1:E:461:GLU:CD	1:K:316:THR:CG2	2.65	0.64
1:F:47:LYS:O	1:F:64:ASP:N	2.30	0.64
1:F:65:MET:CE	1:F:65:MET:CA	2.75	0.64
1:F:105:ARG:O	1:F:108:ALA:HB3	1.95	0.64
1:G:206:VAL:HG12	1:H:34:PRO:HG3	1.78	0.64
1:G:381:GLY:O	1:G:385:LYS:O	2.15	0.64
1:H:47:LYS:O	1:H:64:ASP:N	2.30	0.64
1:H:67:LEU:CD2	1:H:88:ARG:HB3	2.26	0.64
1:H:68:MET:CE	1:H:105:ARG:HD3	2.27	0.64
1:H:70:ASP:N	1:H:70:ASP:OD2	2.29	0.64
1:H:92:LEU:H	1:H:97:LEU:N	1.94	0.64
1:H:381:GLY:O	1:H:385:LYS:O	2.16	0.64
1:H:465:TYR:O	1:H:468:VAL:HG12	1.96	0.64
1:J:86:ILE:N	1:J:86:ILE:CD1	2.44	0.64
1:J:228:MET:CE	1:J:371:PHE:C	2.65	0.64
1:K:68:MET:HE1	1:K:88:ARG:CB	2.27	0.64
1:K:258:LYS:HB3	1:K:317:ASN:ND2	2.12	0.64
1:L:19:LEU:O	1:L:19:LEU:CD1	2.44	0.64
1:L:79:PHE:CG	1:L:80:PHE:CD1	2.84	0.64
1:A:114:TYR:C	1:A:114:TYR:CD1	2.70	0.64
1:A:281:LEU:HD23	1:A:293:GLN:NE2	2.12	0.64
1:B:19:LEU:O	1:B:19:LEU:CD1	2.44	0.64
1:B:316:THR:CG2	1:H:461:GLU:CD	2.65	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:17:VAL:HG11	1:C:33:ILE:HG22	1.79	0.64
1:D:60:ILE:HG22	1:D:100:TYR:CD2	2.33	0.64
1:D:114:TYR:C	1:D:114:TYR:CD1	2.70	0.64
1:E:68:MET:CE	1:E:105:ARG:HD3	2.27	0.64
1:E:99:GLY:N	1:E:103:ASP:HB2	2.12	0.64
1:E:176:LYS:N	1:E:263:ASP:OD1	2.30	0.64
1:F:461:GLU:CD	1:L:316:THR:CG2	2.65	0.64
1:G:131:GLU:HB2	1:G:266:SER:HB3	1.77	0.64
1:G:228:MET:CE	1:G:371:PHE:C	2.65	0.64
1:G:418:LEU:HD12	1:G:447:ARG:HD3	1.79	0.64
1:H:258:LYS:HB3	1:H:317:ASN:ND2	2.13	0.64
1:H:362:ASP:C	1:H:364:ALA:H	1.98	0.64
1:I:40:ALA:O	1:I:41:GLU:CB	2.43	0.64
1:I:340:SER:CB	1:I:395:ASN:OD1	2.42	0.64
1:J:60:ILE:HG22	1:J:100:TYR:CD2	2.33	0.64
1:J:71:ALA:CB	1:J:86:ILE:HG13	2.28	0.64
1:K:71:ALA:CB	1:K:86:ILE:HG13	2.28	0.64
1:K:86:ILE:N	1:K:86:ILE:CD1	2.44	0.64
1:L:99:GLY:N	1:L:103:ASP:HB2	2.12	0.64
1:L:176:LYS:N	1:L:263:ASP:OD1	2.30	0.64
1:A:223:THR:HG22	1:A:231:LYS:HZ3	1.60	0.64
1:B:71:ALA:HB1	1:B:86:ILE:CG1	2.27	0.64
1:B:163:LYS:HB2	1:B:163:LYS:NZ	2.12	0.64
1:B:176:LYS:N	1:B:263:ASP:OD1	2.30	0.64
1:C:68:MET:HE1	1:C:88:ARG:CB	2.28	0.64
1:C:176:LYS:N	1:C:263:ASP:OD1	2.30	0.64
1:D:125:LEU:N	1:D:125:LEU:CD2	2.60	0.64
1:D:316:THR:HG21	1:J:461:GLU:CG	2.28	0.64
1:D:461:GLU:CG	1:J:316:THR:HG21	2.28	0.64
1:E:112:GLU:O	1:E:115:LEU:HB3	1.97	0.64
1:E:425:ARG:NH2	1:E:440:ASP:OD1	2.30	0.64
1:F:68:MET:CE	1:F:105:ARG:HD3	2.27	0.64
1:F:258:LYS:HB3	1:F:317:ASN:ND2	2.13	0.64
1:F:275:ALA:HA	1:F:281:LEU:HD12	1.79	0.64
1:F:280:ASN:C	1:F:282:PHE:N	2.51	0.64
1:G:68:MET:CE	1:G:105:ARG:HD3	2.27	0.64
1:G:114:TYR:CD1	1:G:114:TYR:C	2.70	0.64
1:H:206:VAL:HG12	1:I:34:PRO:HG3	1.78	0.64
1:H:348:VAL:CG1	1:H:354:ARG:HD3	2.20	0.64
1:H:418:LEU:HD12	1:H:447:ARG:HD3	1.79	0.64
1:I:92:LEU:HG	1:I:93:GLU:N	2.09	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:99:GLY:N	1:I:103:ASP:HB2	2.12	0.64
1:I:112:GLU:O	1:I:115:LEU:HB3	1.97	0.64
1:I:281:LEU:HD23	1:I:293:GLN:NE2	2.12	0.64
1:I:465:TYR:O	1:I:468:VAL:HG12	1.96	0.64
1:J:17:VAL:HG11	1:J:33:ILE:HG22	1.79	0.64
1:J:125:LEU:N	1:J:125:LEU:CD2	2.60	0.64
1:K:60:ILE:HG22	1:K:100:TYR:CD2	2.33	0.64
1:K:65:MET:CE	1:K:65:MET:CA	2.75	0.64
1:K:79:PHE:CD2	1:K:79:PHE:N	2.65	0.64
1:A:75:VAL:HG23	1:A:84:THR:CB	2.28	0.64
1:B:68:MET:CE	1:B:105:ARG:HD3	2.27	0.64
1:C:71:ALA:CB	1:C:86:ILE:HG13	2.28	0.64
1:D:17:VAL:HG11	1:D:33:ILE:HG22	1.79	0.64
1:D:163:LYS:NZ	1:D:163:LYS:HB2	2.12	0.64
1:D:176:LYS:N	1:D:263:ASP:OD1	2.30	0.64
1:D:424:ASP:O	1:D:426:GLU:N	2.30	0.64
1:E:40:ALA:O	1:E:41:GLU:CB	2.43	0.64
1:E:465:TYR:O	1:E:468:VAL:HG12	1.96	0.64
1:F:71:ALA:HB1	1:F:86:ILE:CG1	2.27	0.64
1:F:115:LEU:O	1:F:118:THR:HG23	1.96	0.64
1:F:418:LEU:HD12	1:F:447:ARG:HD3	1.79	0.64
1:G:280:ASN:C	1:G:282:PHE:N	2.51	0.64
1:H:105:ARG:O	1:H:108:ALA:HB3	1.95	0.64
1:H:115:LEU:O	1:H:118:THR:HG23	1.96	0.64
1:H:275:ALA:HA	1:H:281:LEU:HD12	1.79	0.64
1:H:280:ASN:C	1:H:282:PHE:N	2.51	0.64
1:I:176:LYS:N	1:I:263:ASP:OD1	2.30	0.64
1:J:176:LYS:N	1:J:263:ASP:OD1	2.30	0.64
1:K:112:GLU:O	1:K:115:LEU:HB3	1.97	0.64
1:A:79:PHE:CG	1:A:80:PHE:CD1	2.84	0.64
1:A:131:GLU:HB2	1:A:266:SER:HB3	1.77	0.64
1:A:176:LYS:N	1:A:263:ASP:OD1	2.30	0.64
1:A:425:ARG:NH2	1:A:440:ASP:OD1	2.30	0.64
1:B:8:MET:HA	1:B:11:GLU:HB2	1.80	0.64
1:B:75:VAL:HG23	1:B:84:THR:CB	2.27	0.64
1:B:258:LYS:HB3	1:B:317:ASN:ND2	2.12	0.64
1:B:362:ASP:C	1:B:364:ALA:H	1.98	0.64
1:C:65:MET:CE	1:C:65:MET:CA	2.75	0.64
1:C:79:PHE:CD2	1:C:79:PHE:N	2.66	0.64
1:D:214:ALA:O	1:D:215:THR:C	2.34	0.64
1:F:79:PHE:CG	1:F:80:PHE:CD1	2.84	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:461:GLU:OE1	1:L:316:THR:CG2	2.36	0.64
1:F:465:TYR:O	1:F:468:VAL:HG12	1.96	0.64
1:G:75:VAL:HG23	1:G:84:THR:CB	2.28	0.64
1:G:79:PHE:CG	1:G:80:PHE:CD1	2.84	0.64
1:G:258:LYS:HB3	1:G:317:ASN:ND2	2.12	0.64
1:G:275:ALA:HA	1:G:281:LEU:HD12	1.79	0.64
1:G:281:LEU:HD23	1:G:293:GLN:NE2	2.12	0.64
1:G:425:ARG:NH2	1:G:440:ASP:OD1	2.30	0.64
1:I:68:MET:CE	1:I:105:ARG:HD3	2.27	0.64
1:I:228:MET:CE	1:I:371:PHE:C	2.65	0.64
1:I:425:ARG:NH2	1:I:440:ASP:OD1	2.30	0.64
1:J:20:ARG:CZ	1:J:86:ILE:CG2	2.76	0.64
1:J:79:PHE:CD2	1:J:79:PHE:N	2.66	0.64
1:J:114:TYR:CD1	1:J:114:TYR:C	2.70	0.64
1:J:163:LYS:HB2	1:J:163:LYS:NZ	2.12	0.64
1:J:424:ASP:O	1:J:426:GLU:N	2.30	0.64
1:L:16:PHE:HD1	1:L:79:PHE:HE1	1.42	0.64
1:L:71:ALA:HB1	1:L:86:ILE:CG1	2.28	0.64
1:A:280:ASN:C	1:A:282:PHE:N	2.51	0.64
1:A:316:THR:HG21	1:G:461:GLU:CG	2.28	0.64
1:A:418:LEU:HD12	1:A:447:ARG:HD3	1.79	0.64
1:B:27:LYS:HZ2	1:B:239:LYS:CE	2.10	0.64
1:B:67:LEU:CD2	1:B:88:ARG:HB3	2.26	0.64
1:B:172:ARG:HB2	1:B:173:PRO:HD2	1.80	0.64
1:B:381:GLY:O	1:B:385:LYS:O	2.16	0.64
1:B:461:GLU:CG	1:H:316:THR:HG21	2.28	0.64
1:C:418:LEU:HD12	1:C:447:ARG:HD3	1.79	0.64
1:D:20:ARG:CZ	1:D:86:ILE:CG2	2.76	0.64
1:D:79:PHE:CD2	1:D:79:PHE:N	2.66	0.64
1:D:86:ILE:N	1:D:86:ILE:CD1	2.44	0.64
1:D:280:ASN:N	1:D:280:ASN:HD22	1.95	0.64
1:D:418:LEU:HD12	1:D:447:ARG:HD3	1.79	0.64
1:E:8:MET:HA	1:E:11:GLU:HB2	1.80	0.64
1:E:20:ARG:CZ	1:E:86:ILE:CG2	2.76	0.64
1:E:114:TYR:C	1:E:114:TYR:CD1	2.70	0.64
1:E:228:MET:CE	1:E:371:PHE:C	2.65	0.64
1:F:125:LEU:N	1:F:125:LEU:CD2	2.60	0.64
1:F:176:LYS:N	1:F:263:ASP:OD1	2.30	0.64
1:F:228:MET:CE	1:F:371:PHE:C	2.65	0.64
1:F:348:VAL:CG1	1:F:354:ARG:HD3	2.20	0.64
1:H:71:ALA:HB1	1:H:86:ILE:CG1	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:334:TYR:HA	1:H:343:ILE:O	1.98	0.64
1:H:403:GLU:O	1:H:406:GLU:HB3	1.96	0.64
1:J:19:LEU:CD2	1:J:75:VAL:HG22	2.19	0.64
1:J:99:GLY:N	1:J:103:ASP:HB2	2.12	0.64
1:K:17:VAL:HG11	1:K:33:ILE:HG22	1.79	0.64
1:K:176:LYS:N	1:K:263:ASP:OD1	2.30	0.64
1:L:8:MET:HA	1:L:11:GLU:HB2	1.80	0.64
1:L:67:LEU:CD2	1:L:88:ARG:HB3	2.26	0.64
1:L:75:VAL:HG23	1:L:84:THR:CB	2.28	0.64
1:L:338:ASN:O	1:L:339:ARG:O	2.15	0.64
1:L:381:GLY:O	1:L:385:LYS:O	2.16	0.64
1:A:8:MET:HA	1:A:11:GLU:HB2	1.80	0.64
1:A:258:LYS:HB3	1:A:317:ASN:ND2	2.13	0.64
1:A:275:ALA:HA	1:A:281:LEU:HD12	1.79	0.64
1:A:403:GLU:O	1:A:406:GLU:HB3	1.96	0.64
1:A:461:GLU:CG	1:G:316:THR:HG21	2.28	0.64
1:B:20:ARG:NH1	1:B:86:ILE:CG2	2.51	0.64
1:B:60:ILE:HG22	1:B:100:TYR:CD2	2.33	0.64
1:B:65:MET:CE	1:B:65:MET:CA	2.75	0.64
1:B:67:LEU:HD11	1:B:68:MET:HE3	1.80	0.64
1:B:338:ASN:O	1:B:339:ARG:O	2.15	0.64
1:C:40:ALA:O	1:C:41:GLU:CB	2.43	0.64
1:C:461:GLU:CG	1:I:316:THR:HG21	2.28	0.64
1:D:71:ALA:CB	1:D:86:ILE:HG13	2.28	0.64
1:D:99:GLY:N	1:D:103:ASP:HB2	2.12	0.64
1:D:281:LEU:HD23	1:D:293:GLN:NE2	2.12	0.64
1:E:20:ARG:CG	1:E:28:GLU:CD	2.60	0.64
1:E:60:ILE:HG22	1:E:100:TYR:CD2	2.33	0.64
1:E:275:ALA:HA	1:E:281:LEU:HD12	1.79	0.64
1:E:280:ASN:C	1:E:282:PHE:N	2.51	0.64
1:F:3:GLU:C	1:F:6:LEU:HB2	2.18	0.64
1:F:79:PHE:CD2	1:F:79:PHE:N	2.65	0.64
1:F:92:LEU:H	1:F:97:LEU:N	1.94	0.64
1:F:112:GLU:O	1:F:115:LEU:HB3	1.97	0.64
1:F:114:TYR:CD1	1:F:114:TYR:C	2.70	0.64
1:F:316:THR:HG21	1:L:461:GLU:CG	2.28	0.64
1:F:334:TYR:HA	1:F:343:ILE:O	1.98	0.64
1:F:403:GLU:O	1:F:406:GLU:HB3	1.96	0.64
1:G:176:LYS:N	1:G:263:ASP:OD1	2.30	0.64
1:H:79:PHE:CG	1:H:80:PHE:CD1	2.84	0.64
1:H:112:GLU:O	1:H:115:LEU:HB3	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:114:TYR:C	1:H:114:TYR:CD1	2.70	0.64
1:H:125:LEU:N	1:H:125:LEU:CD2	2.60	0.64
1:H:163:LYS:HB2	1:H:163:LYS:NZ	2.12	0.64
1:H:176:LYS:N	1:H:263:ASP:OD1	2.31	0.64
1:I:20:ARG:CZ	1:I:86:ILE:CG2	2.76	0.64
1:I:92:LEU:H	1:I:97:LEU:N	1.94	0.64
1:J:280:ASN:N	1:J:280:ASN:HD22	1.95	0.64
1:J:338:ASN:O	1:J:339:ARG:O	2.15	0.64
1:K:15:LYS:O	1:K:16:PHE:CB	2.37	0.64
1:K:418:LEU:HD12	1:K:447:ARG:HD3	1.79	0.64
1:L:258:LYS:HB3	1:L:317:ASN:ND2	2.13	0.64
1:L:280:ASN:N	1:L:280:ASN:HD22	1.95	0.64
1:A:19:LEU:HD12	1:A:20:ARG:HB2	1.80	0.64
1:A:22:THR:HB	1:A:29:GLN:HB2	1.78	0.64
1:B:122:ASP:HB2	1:B:276:LYS:HD3	1.78	0.64
1:B:316:THR:CG2	1:H:461:GLU:OE1	2.36	0.64
1:C:381:GLY:O	1:C:385:LYS:O	2.16	0.64
1:C:403:GLU:O	1:C:406:GLU:HB3	1.96	0.64
1:D:19:LEU:CD2	1:D:75:VAL:HG22	2.20	0.64
1:E:316:THR:HG21	1:K:461:GLU:CG	2.28	0.64
1:F:50:ASP:N	1:F:50:ASP:OD2	2.30	0.64
1:F:163:LYS:HB2	1:F:163:LYS:NZ	2.12	0.64
1:G:8:MET:HA	1:G:11:GLU:HB2	1.80	0.64
1:G:22:THR:HB	1:G:29:GLN:HB2	1.77	0.64
1:G:163:LYS:HB2	1:G:163:LYS:NZ	2.12	0.64
1:I:60:ILE:HG22	1:I:100:TYR:CD2	2.33	0.64
1:I:125:LEU:N	1:I:125:LEU:CD2	2.60	0.64
1:J:346:PRO:C	1:J:347:VAL:O	2.35	0.64
1:J:418:LEU:HD12	1:J:447:ARG:HD3	1.79	0.64
1:K:3:GLU:C	1:K:6:LEU:HB2	2.18	0.64
1:K:22:THR:HB	1:K:29:GLN:HB2	1.77	0.64
1:K:40:ALA:O	1:K:41:GLU:CB	2.43	0.64
1:K:65:MET:C	1:K:65:MET:HE2	2.18	0.64
1:K:381:GLY:O	1:K:385:LYS:O	2.15	0.64
1:K:403:GLU:O	1:K:406:GLU:HB3	1.97	0.64
1:L:60:ILE:HG22	1:L:100:TYR:CD2	2.33	0.64
1:L:65:MET:CE	1:L:65:MET:CA	2.75	0.64
1:L:112:GLU:O	1:L:115:LEU:HB3	1.97	0.64
1:L:228:MET:HE1	1:L:371:PHE:C	2.18	0.64
1:L:334:TYR:HA	1:L:343:ILE:O	1.98	0.64
1:A:334:TYR:HA	1:A:343:ILE:O	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3:GLU:C	1:B:6:LEU:HB2	2.18	0.64
1:C:3:GLU:C	1:C:6:LEU:HB2	2.18	0.64
1:C:20:ARG:CZ	1:C:86:ILE:CG2	2.76	0.64
1:C:22:THR:HB	1:C:29:GLN:HB2	1.77	0.64
1:C:86:ILE:N	1:C:86:ILE:CD1	2.44	0.64
1:D:346:PRO:C	1:D:347:VAL:O	2.35	0.64
1:E:334:TYR:HA	1:E:343:ILE:O	1.98	0.64
1:G:67:LEU:HD11	1:G:68:MET:HE3	1.80	0.64
1:H:228:MET:CE	1:H:371:PHE:C	2.65	0.64
1:I:8:MET:HA	1:I:11:GLU:HB2	1.80	0.64
1:I:47:LYS:O	1:I:64:ASP:N	2.30	0.64
1:I:114:TYR:C	1:I:114:TYR:CD1	2.70	0.64
1:I:275:ALA:HA	1:I:281:LEU:HD12	1.80	0.64
1:I:280:ASN:N	1:I:280:ASN:HD22	1.95	0.64
1:I:334:TYR:HA	1:I:343:ILE:O	1.98	0.64
1:J:214:ALA:O	1:J:215:THR:C	2.34	0.64
1:J:281:LEU:HD23	1:J:293:GLN:NE2	2.12	0.64
1:K:8:MET:HA	1:K:11:GLU:HB2	1.80	0.64
1:K:20:ARG:CZ	1:K:86:ILE:CG2	2.76	0.64
1:K:27:LYS:NZ	1:K:239:LYS:HZ2	1.88	0.64
1:K:376:MET:HE3	1:K:433:VAL:HG13	1.80	0.64
1:L:3:GLU:C	1:L:6:LEU:HB2	2.18	0.64
1:L:67:LEU:HD11	1:L:68:MET:HE3	1.80	0.64
1:L:88:ARG:CZ	1:L:109:LYS:HE3	2.28	0.64
1:L:172:ARG:HB2	1:L:173:PRO:HD2	1.80	0.64
1:A:47:LYS:O	1:A:64:ASP:N	2.30	0.64
1:A:112:GLU:O	1:A:115:LEU:HB3	1.97	0.64
1:A:163:LYS:HB2	1:A:163:LYS:NZ	2.12	0.64
1:B:16:PHE:HD1	1:B:79:PHE:HE1	1.43	0.64
1:B:280:ASN:N	1:B:280:ASN:HD22	1.95	0.64
1:B:334:TYR:HA	1:B:343:ILE:O	1.98	0.64
1:C:8:MET:HA	1:C:11:GLU:HB2	1.80	0.64
1:C:15:LYS:O	1:C:16:PHE:CB	2.37	0.64
1:C:68:MET:C	1:C:70:ASP:OD2	2.37	0.64
1:D:70:ASP:N	1:D:70:ASP:OD2	2.30	0.64
1:D:338:ASN:O	1:D:339:ARG:O	2.15	0.64
1:D:381:GLY:O	1:D:385:LYS:O	2.16	0.64
1:E:27:LYS:NZ	1:E:239:LYS:HZ2	1.92	0.64
1:E:125:LEU:N	1:E:125:LEU:CD2	2.60	0.64
1:E:461:GLU:CG	1:K:316:THR:HG21	2.28	0.64
1:F:40:ALA:O	1:F:41:GLU:CB	2.43	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:75:VAL:HG23	1:F:84:THR:CB	2.28	0.64
1:F:345:ILE:CD1	1:F:345:ILE:N	2.31	0.64
1:G:403:GLU:O	1:G:406:GLU:HB3	1.97	0.64
1:H:50:ASP:N	1:H:50:ASP:OD2	2.30	0.64
1:H:75:VAL:HG23	1:H:84:THR:CB	2.28	0.64
1:H:79:PHE:CD2	1:H:79:PHE:N	2.66	0.64
1:J:3:GLU:C	1:J:6:LEU:HB2	2.18	0.64
1:J:334:TYR:HA	1:J:343:ILE:O	1.98	0.64
1:J:381:GLY:O	1:J:385:LYS:O	2.16	0.64
1:K:68:MET:C	1:K:70:ASP:OD2	2.37	0.64
1:L:71:ALA:CB	1:L:86:ILE:HG13	2.28	0.64
1:A:50:ASP:N	1:A:50:ASP:OD2	2.30	0.63
1:A:67:LEU:HD11	1:A:68:MET:HE3	1.80	0.63
1:A:346:PRO:C	1:A:347:VAL:O	2.36	0.63
1:B:71:ALA:CB	1:B:86:ILE:HG13	2.28	0.63
1:B:88:ARG:CZ	1:B:109:LYS:HE3	2.28	0.63
1:B:112:GLU:O	1:B:115:LEU:HB3	1.97	0.63
1:C:172:ARG:HB2	1:C:173:PRO:HD2	1.80	0.63
1:D:3:GLU:C	1:D:6:LEU:HB2	2.18	0.63
1:D:334:TYR:HA	1:D:343:ILE:O	1.98	0.63
1:E:50:ASP:N	1:E:50:ASP:OD2	2.30	0.63
1:E:92:LEU:H	1:E:97:LEU:N	1.94	0.63
1:E:163:LYS:HB2	1:E:163:LYS:NZ	2.12	0.63
1:F:186:ASP:C	1:F:188:ALA:N	2.51	0.63
1:F:315:THR:CG2	1:L:465:TYR:HE2	2.04	0.63
1:G:47:LYS:O	1:G:64:ASP:N	2.30	0.63
1:G:54:ILE:CG1	1:G:102:ARG:NE	2.47	0.63
1:G:112:GLU:O	1:G:115:LEU:HB3	1.97	0.63
1:G:178:GLY:O	1:G:212:GLU:O	2.17	0.63
1:G:334:TYR:HA	1:G:343:ILE:O	1.98	0.63
1:G:346:PRO:C	1:G:347:VAL:O	2.35	0.63
1:H:3:GLU:C	1:H:6:LEU:HB2	2.18	0.63
1:H:40:ALA:O	1:H:41:GLU:CB	2.43	0.63
1:H:280:ASN:N	1:H:280:ASN:HD22	1.95	0.63
1:I:3:GLU:C	1:I:6:LEU:HB2	2.18	0.63
1:I:65:MET:CE	1:I:65:MET:CA	2.75	0.63
1:J:70:ASP:N	1:J:70:ASP:OD2	2.29	0.63
1:L:122:ASP:HB2	1:L:276:LYS:HD3	1.78	0.63
1:A:178:GLY:O	1:A:212:GLU:O	2.17	0.63
1:B:68:MET:C	1:B:70:ASP:OD2	2.37	0.63
1:B:465:TYR:HE2	1:H:315:THR:CG2	2.04	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:79:PHE:CG	1:C:80:PHE:CD1	2.84	0.63
1:C:99:GLY:N	1:C:103:ASP:HB2	2.12	0.63
1:C:316:THR:HG21	1:I:461:GLU:CG	2.28	0.63
1:D:461:GLU:OE1	1:J:316:THR:CG2	2.36	0.63
1:D:467:SER:OG	1:I:171:HIS:ND1	2.31	0.63
1:E:3:GLU:C	1:E:6:LEU:HB2	2.18	0.63
1:E:47:LYS:O	1:E:64:ASP:N	2.30	0.63
1:E:171:HIS:ND1	1:J:467:SER:OG	2.31	0.63
1:E:280:ASN:N	1:E:280:ASN:HD22	1.95	0.63
1:F:19:LEU:HD12	1:F:20:ARG:HB2	1.80	0.63
1:F:67:LEU:HD11	1:F:68:MET:HE2	1.80	0.63
1:F:425:ARG:NH2	1:F:440:ASP:OD1	2.30	0.63
1:G:19:LEU:HD12	1:G:20:ARG:HB2	1.80	0.63
1:H:19:LEU:HD12	1:H:20:ARG:HB2	1.80	0.63
1:H:186:ASP:C	1:H:188:ALA:N	2.52	0.63
1:H:281:LEU:HD23	1:H:293:GLN:NE2	2.12	0.63
1:H:425:ARG:NH2	1:H:440:ASP:OD1	2.30	0.63
1:I:50:ASP:N	1:I:50:ASP:OD2	2.30	0.63
1:J:27:LYS:HZ2	1:J:239:LYS:CE	2.12	0.63
1:J:291:SER:O	1:J:292:GLU:C	2.37	0.63
1:K:99:GLY:N	1:K:103:ASP:HB2	2.12	0.63
1:L:178:GLY:O	1:L:212:GLU:O	2.16	0.63
1:A:88:ARG:C	1:A:89:CYS:O	2.32	0.63
1:A:172:ARG:HB2	1:A:173:PRO:HD2	1.80	0.63
1:B:163:LYS:HB2	1:B:163:LYS:HZ2	1.64	0.63
1:C:345:ILE:CD1	1:C:345:ILE:N	2.31	0.63
1:D:291:SER:O	1:D:292:GLU:C	2.37	0.63
1:E:19:LEU:HD21	1:E:240:TYR:CE2	2.34	0.63
1:E:79:PHE:CD2	1:E:79:PHE:N	2.66	0.63
1:F:281:LEU:HD23	1:F:293:GLN:NE2	2.12	0.63
1:G:50:ASP:N	1:G:50:ASP:OD2	2.30	0.63
1:G:60:ILE:HG22	1:G:100:TYR:CD2	2.33	0.63
1:G:79:PHE:CD2	1:G:79:PHE:N	2.65	0.63
1:G:88:ARG:C	1:G:89:CYS:O	2.32	0.63
1:G:362:ASP:C	1:G:364:ALA:H	1.98	0.63
1:H:60:ILE:HG22	1:H:100:TYR:CD2	2.33	0.63
1:H:376:MET:HE3	1:H:433:VAL:HG21	1.80	0.63
1:I:19:LEU:HD21	1:I:240:TYR:CE2	2.34	0.63
1:I:79:PHE:CD2	1:I:79:PHE:N	2.65	0.63
1:K:75:VAL:HG23	1:K:84:THR:CB	2.28	0.63
1:L:20:ARG:NH1	1:L:86:ILE:CG2	2.51	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:54:ILE:CD1	1:A:102:ARG:CD	2.73	0.63
1:A:79:PHE:CD2	1:A:79:PHE:N	2.66	0.63
1:B:50:ASP:N	1:B:50:ASP:OD2	2.30	0.63
1:B:79:PHE:CD2	1:B:79:PHE:N	2.65	0.63
1:B:252:THR:HG21	1:H:466:TYR:HH	1.54	0.63
1:B:316:THR:HG21	1:H:461:GLU:CG	2.28	0.63
1:C:47:LYS:O	1:C:64:ASP:N	2.30	0.63
1:C:75:VAL:HG23	1:C:84:THR:CB	2.28	0.63
1:C:88:ARG:CZ	1:C:109:LYS:HE3	2.28	0.63
1:C:275:ALA:HA	1:C:281:LEU:HD12	1.80	0.63
1:E:258:LYS:HB3	1:E:317:ASN:ND2	2.12	0.63
1:F:280:ASN:N	1:F:280:ASN:HD22	1.95	0.63
1:G:172:ARG:HB2	1:G:173:PRO:HD2	1.80	0.63
1:H:119:GLY:C	1:H:121:ALA:N	2.51	0.63
1:H:178:GLY:O	1:H:212:GLU:O	2.16	0.63
1:H:291:SER:O	1:H:292:GLU:C	2.37	0.63
1:I:20:ARG:CG	1:I:28:GLU:CD	2.60	0.63
1:I:418:LEU:HD12	1:I:447:ARG:HD3	1.79	0.63
1:J:50:ASP:OD2	1:J:50:ASP:N	2.30	0.63
1:J:258:LYS:HB3	1:J:317:ASN:ND2	2.12	0.63
1:K:47:LYS:O	1:K:64:ASP:N	2.30	0.63
1:K:79:PHE:CG	1:K:80:PHE:CD1	2.84	0.63
1:K:88:ARG:CZ	1:K:109:LYS:HE3	2.28	0.63
1:K:275:ALA:HA	1:K:281:LEU:HD12	1.80	0.63
1:K:338:ASN:O	1:K:339:ARG:O	2.15	0.63
1:L:79:PHE:CD2	1:L:79:PHE:N	2.65	0.63
1:A:54:ILE:CG1	1:A:102:ARG:NE	2.47	0.63
1:A:60:ILE:HG22	1:A:100:TYR:CD2	2.33	0.63
1:A:88:ARG:CZ	1:A:109:LYS:HE3	2.28	0.63
1:B:178:GLY:O	1:B:212:GLU:O	2.17	0.63
1:C:163:LYS:HB2	1:C:163:LYS:NZ	2.12	0.63
1:C:280:ASN:C	1:C:282:PHE:N	2.51	0.63
1:C:338:ASN:O	1:C:339:ARG:O	2.15	0.63
1:D:50:ASP:N	1:D:50:ASP:OD2	2.30	0.63
1:D:163:LYS:HB2	1:D:163:LYS:HZ2	1.64	0.63
1:F:60:ILE:HG22	1:F:100:TYR:CD2	2.33	0.63
1:F:119:GLY:C	1:F:121:ALA:N	2.51	0.63
1:F:178:GLY:O	1:F:212:GLU:O	2.17	0.63
1:F:291:SER:O	1:F:292:GLU:C	2.37	0.63
1:H:8:MET:HA	1:H:11:GLU:HB2	1.80	0.63
1:H:67:LEU:HD11	1:H:68:MET:HE2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:163:LYS:HB2	1:K:163:LYS:NZ	2.12	0.63
1:L:68:MET:C	1:L:70:ASP:OD2	2.37	0.63
1:L:379:LEU:HD12	1:L:379:LEU:C	2.19	0.63
1:A:27:LYS:HZ2	1:A:239:LYS:CE	2.11	0.63
1:A:65:MET:CE	1:A:65:MET:CA	2.75	0.63
1:B:379:LEU:HD12	1:B:379:LEU:C	2.19	0.63
1:D:316:THR:CG2	1:J:461:GLU:OE1	2.36	0.63
1:E:65:MET:HB3	1:E:67:LEU:CD2	2.10	0.63
1:E:75:VAL:HG23	1:E:84:THR:CB	2.27	0.63
1:E:291:SER:O	1:E:292:GLU:C	2.37	0.63
1:F:461:GLU:CG	1:L:316:THR:HG21	2.28	0.63
1:G:88:ARG:CZ	1:G:109:LYS:HE3	2.28	0.63
1:G:399:LEU:O	1:G:401:PRO:C	2.37	0.63
1:H:454:ARG:HH11	1:H:454:ARG:HG2	1.63	0.63
1:I:75:VAL:HG23	1:I:84:THR:CB	2.27	0.63
1:I:258:LYS:HB3	1:I:317:ASN:ND2	2.13	0.63
1:J:68:MET:C	1:J:70:ASP:OD2	2.37	0.63
1:K:172:ARG:HB2	1:K:173:PRO:HD2	1.81	0.63
1:K:223:THR:HG22	1:K:231:LYS:HZ3	1.63	0.63
1:B:186:ASP:C	1:B:188:ALA:N	2.52	0.63
1:B:418:LEU:HD12	1:B:447:ARG:HD3	1.79	0.63
1:C:50:ASP:N	1:C:50:ASP:OD2	2.30	0.63
1:C:71:ALA:HB1	1:C:86:ILE:CG1	2.27	0.63
1:C:403:GLU:H	1:C:405:LYS:HG2	1.64	0.63
1:D:68:MET:C	1:D:70:ASP:OD2	2.37	0.63
1:D:258:LYS:HB3	1:D:317:ASN:ND2	2.13	0.63
1:D:275:ALA:HA	1:D:281:LEU:HD12	1.79	0.63
1:D:418:LEU:HD13	1:D:443:ILE:HG23	1.81	0.63
1:E:70:ASP:N	1:E:70:ASP:OD2	2.30	0.63
1:F:8:MET:HA	1:F:11:GLU:HB2	1.80	0.63
1:F:68:MET:C	1:F:70:ASP:OD2	2.37	0.63
1:G:399:LEU:HB3	1:G:402:GLU:HB2	1.81	0.63
1:H:68:MET:C	1:H:70:ASP:OD2	2.37	0.63
1:H:202:MET:HE2	1:H:202:MET:CA	2.29	0.63
1:I:163:LYS:HB2	1:I:163:LYS:NZ	2.13	0.63
1:I:454:ARG:HH11	1:I:454:ARG:HG2	1.64	0.63
1:J:75:VAL:HG23	1:J:84:THR:CB	2.28	0.63
1:J:172:ARG:HB2	1:J:173:PRO:HD2	1.80	0.63
1:J:418:LEU:HD13	1:J:443:ILE:HG23	1.81	0.63
1:J:454:ARG:HH11	1:J:454:ARG:HG2	1.63	0.63
1:K:71:ALA:HB1	1:K:86:ILE:CG1	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:403:GLU:H	1:K:405:LYS:HG2	1.64	0.63
1:L:50:ASP:N	1:L:50:ASP:OD2	2.30	0.63
1:L:163:LYS:HB2	1:L:163:LYS:NZ	2.12	0.63
1:A:3:GLU:C	1:A:6:LEU:HB2	2.18	0.63
1:A:399:LEU:O	1:A:401:PRO:C	2.37	0.63
1:A:399:LEU:HB3	1:A:402:GLU:HB2	1.81	0.63
1:D:54:ILE:CD1	1:D:102:ARG:CD	2.73	0.63
1:D:75:VAL:HG23	1:D:84:THR:CB	2.28	0.63
1:E:418:LEU:HD12	1:E:447:ARG:HD3	1.79	0.63
1:E:418:LEU:HD13	1:E:443:ILE:HG23	1.81	0.63
1:F:96:THR:O	1:F:97:LEU:CG	2.46	0.63
1:G:3:GLU:C	1:G:6:LEU:HB2	2.18	0.63
1:G:54:ILE:CD1	1:G:102:ARG:CD	2.73	0.63
1:G:65:MET:CE	1:G:65:MET:CA	2.75	0.63
1:G:376:MET:HE3	1:G:433:VAL:HG21	1.81	0.63
1:H:345:ILE:CD1	1:H:345:ILE:N	2.31	0.63
1:I:291:SER:O	1:I:292:GLU:C	2.37	0.63
1:I:418:LEU:HD13	1:I:443:ILE:HG23	1.81	0.63
1:K:50:ASP:N	1:K:50:ASP:OD2	2.30	0.63
1:L:186:ASP:C	1:L:188:ALA:N	2.52	0.63
1:A:233:ASP:CB	1:A:368:TYR:OH	2.47	0.63
1:D:172:ARG:HB2	1:D:173:PRO:HD2	1.80	0.63
1:D:399:LEU:O	1:D:401:PRO:C	2.37	0.63
1:D:454:ARG:HH11	1:D:454:ARG:HG2	1.63	0.63
1:E:65:MET:C	1:E:65:MET:HE2	2.18	0.63
1:E:454:ARG:HH11	1:E:454:ARG:HG2	1.64	0.63
1:F:403:GLU:H	1:F:405:LYS:HG2	1.64	0.63
1:F:454:ARG:HH11	1:F:454:ARG:HG2	1.63	0.63
1:G:280:ASN:HD22	1:G:280:ASN:N	1.95	0.63
1:I:65:MET:C	1:I:65:MET:HE2	2.18	0.63
1:I:70:ASP:N	1:I:70:ASP:OD2	2.29	0.63
1:I:346:PRO:C	1:I:347:VAL:O	2.36	0.63
1:J:19:LEU:HD12	1:J:20:ARG:HB2	1.80	0.63
1:K:334:TYR:HA	1:K:343:ILE:O	1.98	0.63
1:A:19:LEU:C	1:A:19:LEU:CD1	2.49	0.62
1:A:291:SER:O	1:A:292:GLU:C	2.37	0.62
1:C:346:PRO:C	1:C:347:VAL:O	2.36	0.62
1:D:19:LEU:HD12	1:D:20:ARG:HB2	1.80	0.62
1:D:19:LEU:HD21	1:D:240:TYR:CE2	2.34	0.62
1:E:346:PRO:C	1:E:347:VAL:O	2.35	0.62
1:E:399:LEU:O	1:E:401:PRO:C	2.37	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:19:LEU:HD21	1:F:240:TYR:CE2	2.34	0.62
1:G:19:LEU:C	1:G:19:LEU:CD1	2.49	0.62
1:G:169:LYS:O	1:H:252:THR:OG1	2.17	0.62
1:G:233:ASP:CB	1:G:368:TYR:OH	2.47	0.62
1:G:291:SER:O	1:G:292:GLU:C	2.37	0.62
1:H:403:GLU:H	1:H:405:LYS:HG2	1.64	0.62
1:J:19:LEU:HD21	1:J:240:TYR:CE2	2.34	0.62
1:J:54:ILE:CD1	1:J:102:ARG:CD	2.73	0.62
1:J:275:ALA:HA	1:J:281:LEU:HD12	1.80	0.62
1:K:346:PRO:C	1:K:347:VAL:O	2.36	0.62
1:L:11:GLU:HA	1:L:11:GLU:OE1	1.99	0.62
1:L:418:LEU:HD12	1:L:447:ARG:HD3	1.79	0.62
1:A:68:MET:C	1:A:70:ASP:OD2	2.37	0.62
1:A:169:LYS:O	1:F:252:THR:OG1	2.17	0.62
1:A:252:THR:OG1	1:B:169:LYS:O	2.17	0.62
1:A:280:ASN:N	1:A:280:ASN:HD22	1.95	0.62
1:B:403:GLU:C	1:B:406:GLU:H	2.02	0.62
1:C:178:GLY:O	1:C:212:GLU:O	2.16	0.62
1:C:334:TYR:HA	1:C:343:ILE:O	1.98	0.62
1:C:399:LEU:O	1:C:401:PRO:C	2.37	0.62
1:D:8:MET:HA	1:D:11:GLU:HB2	1.80	0.62
1:D:88:ARG:CZ	1:D:109:LYS:HE3	2.28	0.62
1:E:68:MET:C	1:E:70:ASP:OD2	2.37	0.62
1:G:68:MET:C	1:G:70:ASP:OD2	2.37	0.62
1:G:403:GLU:H	1:G:405:LYS:HG2	1.64	0.62
1:H:88:ARG:CZ	1:H:109:LYS:HE3	2.28	0.62
1:H:96:THR:O	1:H:97:LEU:CG	2.46	0.62
1:H:379:LEU:HD12	1:H:379:LEU:C	2.19	0.62
1:I:399:LEU:O	1:I:401:PRO:C	2.37	0.62
1:J:71:ALA:HB1	1:J:86:ILE:CG1	2.27	0.62
1:J:399:LEU:O	1:J:401:PRO:C	2.37	0.62
1:K:186:ASP:C	1:K:188:ALA:N	2.51	0.62
1:L:5:VAL:HG11	1:L:43:PHE:CZ	2.34	0.62
1:L:20:ARG:CG	1:L:28:GLU:CD	2.60	0.62
1:L:126:PHE:HD1	1:L:228:MET:HB3	1.64	0.62
1:L:275:ALA:HA	1:L:281:LEU:HD12	1.79	0.62
1:L:399:LEU:O	1:L:401:PRO:C	2.37	0.62
1:A:126:PHE:HD1	1:A:228:MET:HB3	1.65	0.62
1:B:20:ARG:CG	1:B:28:GLU:CD	2.60	0.62
1:B:233:ASP:CB	1:B:368:TYR:OH	2.47	0.62
1:B:275:ALA:HA	1:B:281:LEU:HD12	1.79	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:16:PHE:HB2	1:C:82:ASP:HB3	1.82	0.62
1:C:186:ASP:C	1:C:188:ALA:N	2.52	0.62
1:D:16:PHE:HB2	1:D:82:ASP:HB3	1.82	0.62
1:D:71:ALA:HB1	1:D:86:ILE:CG1	2.27	0.62
1:E:403:GLU:H	1:E:405:LYS:HG2	1.64	0.62
1:F:88:ARG:CZ	1:F:109:LYS:HE3	2.28	0.62
1:F:379:LEU:HD12	1:F:379:LEU:C	2.19	0.62
1:F:399:LEU:O	1:F:401:PRO:C	2.37	0.62
1:F:418:LEU:HD13	1:F:443:ILE:HG23	1.81	0.62
1:G:454:ARG:HG2	1:G:454:ARG:HH11	1.63	0.62
1:I:19:LEU:HD12	1:I:20:ARG:HB2	1.80	0.62
1:I:71:ALA:HB1	1:I:86:ILE:CG1	2.27	0.62
1:I:88:ARG:CZ	1:I:109:LYS:HE3	2.28	0.62
1:J:8:MET:HA	1:J:11:GLU:HB2	1.80	0.62
1:J:88:ARG:CZ	1:J:109:LYS:HE3	2.28	0.62
1:K:5:VAL:HG11	1:K:43:PHE:CZ	2.34	0.62
1:K:16:PHE:HB2	1:K:82:ASP:HB3	1.82	0.62
1:K:67:LEU:HD11	1:K:68:MET:HE3	1.81	0.62
1:L:233:ASP:CB	1:L:368:TYR:OH	2.48	0.62
1:L:399:LEU:HB3	1:L:402:GLU:HB2	1.81	0.62
1:A:11:GLU:HA	1:A:11:GLU:OE1	1.99	0.62
1:A:287:TYR:O	1:A:290:LEU:HD12	2.00	0.62
1:A:403:GLU:H	1:A:405:LYS:HG2	1.64	0.62
1:B:11:GLU:HA	1:B:11:GLU:OE1	2.00	0.62
1:B:63:SER:OG	1:B:90:ASP:O	2.16	0.62
1:B:126:PHE:HD1	1:B:228:MET:HB3	1.65	0.62
1:B:252:THR:OG1	1:C:169:LYS:O	2.17	0.62
1:C:67:LEU:HD11	1:C:68:MET:HE3	1.81	0.62
1:C:202:MET:HG2	1:C:237:ILE:HG21	1.82	0.62
1:C:291:SER:O	1:C:292:GLU:C	2.37	0.62
1:E:11:GLU:HA	1:E:11:GLU:OE1	1.99	0.62
1:E:71:ALA:CB	1:E:86:ILE:HG13	2.28	0.62
1:E:71:ALA:HB1	1:E:86:ILE:CG1	2.28	0.62
1:F:71:ALA:CB	1:F:86:ILE:HG13	2.28	0.62
1:F:214:ALA:O	1:F:215:THR:C	2.34	0.62
1:G:75:VAL:CG1	1:G:78:PRO:CD	2.70	0.62
1:G:126:PHE:HD1	1:G:228:MET:HB3	1.65	0.62
1:G:252:THR:OG1	1:L:169:LYS:O	2.17	0.62
1:H:19:LEU:HD21	1:H:240:TYR:CE2	2.34	0.62
1:H:71:ALA:CB	1:H:86:ILE:HG13	2.28	0.62
1:H:233:ASP:CB	1:H:368:TYR:OH	2.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:287:TYR:O	1:H:290:LEU:HD12	2.00	0.62
1:H:418:LEU:HD13	1:H:443:ILE:HG23	1.81	0.62
1:I:287:TYR:O	1:I:290:LEU:HD12	2.00	0.62
1:J:16:PHE:HB2	1:J:82:ASP:HB3	1.82	0.62
1:J:403:GLU:H	1:J:405:LYS:HG2	1.64	0.62
1:K:169:LYS:O	1:L:252:THR:OG1	2.17	0.62
1:B:291:SER:O	1:B:292:GLU:C	2.37	0.62
1:B:346:PRO:C	1:B:347:VAL:O	2.36	0.62
1:C:5:VAL:HG11	1:C:43:PHE:CZ	2.34	0.62
1:C:65:MET:C	1:C:65:MET:HE2	2.20	0.62
1:C:68:MET:N	1:C:69:PRO:CD	2.53	0.62
1:D:67:LEU:HD11	1:D:68:MET:HE3	1.80	0.62
1:D:68:MET:CE	1:D:105:ARG:HD3	2.27	0.62
1:D:403:GLU:H	1:D:405:LYS:HG2	1.64	0.62
1:F:233:ASP:CB	1:F:368:TYR:OH	2.47	0.62
1:F:287:TYR:O	1:F:290:LEU:HD12	2.00	0.62
1:G:287:TYR:O	1:G:290:LEU:HD12	2.00	0.62
1:G:403:GLU:C	1:G:406:GLU:H	2.03	0.62
1:I:11:GLU:HA	1:I:11:GLU:OE1	1.99	0.62
1:I:68:MET:C	1:I:70:ASP:OD2	2.37	0.62
1:I:172:ARG:HB2	1:I:173:PRO:HD2	1.80	0.62
1:I:202:MET:HG2	1:I:237:ILE:HG21	1.82	0.62
1:J:67:LEU:HD11	1:J:68:MET:HE3	1.80	0.62
1:J:68:MET:CE	1:J:105:ARG:HD3	2.27	0.62
1:J:202:MET:HG2	1:J:237:ILE:HG21	1.82	0.62
1:K:178:GLY:O	1:K:212:GLU:O	2.17	0.62
1:K:202:MET:HG2	1:K:237:ILE:HG21	1.82	0.62
1:K:399:LEU:O	1:K:401:PRO:C	2.37	0.62
1:K:399:LEU:HB3	1:K:402:GLU:HB2	1.81	0.62
1:L:27:LYS:HZ2	1:L:239:LYS:HE3	1.64	0.62
1:L:63:SER:OG	1:L:90:ASP:O	2.16	0.62
1:L:202:MET:HG2	1:L:237:ILE:HG21	1.82	0.62
1:L:228:MET:HE2	1:L:371:PHE:CB	2.27	0.62
1:L:291:SER:O	1:L:292:GLU:C	2.37	0.62
1:L:346:PRO:C	1:L:347:VAL:O	2.36	0.62
1:A:75:VAL:CG1	1:A:78:PRO:CD	2.70	0.62
1:A:86:ILE:N	1:A:86:ILE:CD1	2.44	0.62
1:A:403:GLU:C	1:A:406:GLU:H	2.03	0.62
1:A:454:ARG:HH11	1:A:454:ARG:HG2	1.63	0.62
1:B:5:VAL:HG11	1:B:43:PHE:CZ	2.34	0.62
1:B:399:LEU:O	1:B:401:PRO:C	2.37	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:19:LEU:HD13	1:C:240:TYR:CD1	2.34	0.62
1:C:202:MET:HG2	1:C:237:ILE:CG2	2.30	0.62
1:C:399:LEU:HB3	1:C:402:GLU:HB2	1.81	0.62
1:D:5:VAL:HG11	1:D:43:PHE:CZ	2.34	0.62
1:D:178:GLY:O	1:D:212:GLU:O	2.17	0.62
1:E:178:GLY:O	1:E:212:GLU:O	2.17	0.62
1:E:202:MET:HG2	1:E:237:ILE:HG21	1.82	0.62
1:E:287:TYR:O	1:E:290:LEU:HD12	2.00	0.62
1:F:20:ARG:CZ	1:F:86:ILE:CG2	2.75	0.62
1:F:63:SER:OG	1:F:90:ASP:O	2.16	0.62
1:F:202:MET:HE2	1:F:202:MET:CA	2.30	0.62
1:G:19:LEU:HD13	1:G:240:TYR:CD1	2.34	0.62
1:G:126:PHE:HE1	1:G:228:MET:HE3	1.65	0.62
1:H:399:LEU:O	1:H:401:PRO:C	2.37	0.62
1:J:178:GLY:O	1:J:212:GLU:O	2.17	0.62
1:K:68:MET:N	1:K:69:PRO:CD	2.54	0.62
1:K:202:MET:HG2	1:K:237:ILE:CG2	2.30	0.62
1:K:403:GLU:C	1:K:406:GLU:H	2.03	0.62
1:L:65:MET:C	1:L:65:MET:HE2	2.20	0.62
1:L:202:MET:HG2	1:L:237:ILE:CG2	2.30	0.62
1:L:403:GLU:C	1:L:406:GLU:H	2.03	0.62
1:A:40:ALA:O	1:A:41:GLU:CB	2.43	0.62
1:B:202:MET:HG2	1:B:237:ILE:CG2	2.30	0.62
1:B:399:LEU:HB3	1:B:402:GLU:HB2	1.81	0.62
1:C:223:THR:HG22	1:C:231:LYS:HZ3	1.64	0.62
1:C:403:GLU:C	1:C:406:GLU:H	2.03	0.62
1:C:418:LEU:HD13	1:C:443:ILE:HG23	1.81	0.62
1:D:202:MET:HG2	1:D:237:ILE:CG2	2.30	0.62
1:D:233:ASP:CB	1:D:368:TYR:OH	2.47	0.62
1:E:19:LEU:HD12	1:E:20:ARG:HB2	1.80	0.62
1:E:88:ARG:CZ	1:E:109:LYS:HE3	2.29	0.62
1:E:172:ARG:HB2	1:E:173:PRO:HD2	1.80	0.62
1:G:11:GLU:OE1	1:G:11:GLU:HA	2.00	0.62
1:G:418:LEU:HD13	1:G:443:ILE:HG23	1.81	0.62
1:H:63:SER:OG	1:H:90:ASP:O	2.16	0.62
1:I:178:GLY:O	1:I:212:GLU:O	2.17	0.62
1:I:202:MET:HG2	1:I:237:ILE:CG2	2.30	0.62
1:J:119:GLY:C	1:J:121:ALA:N	2.51	0.62
1:J:202:MET:HG2	1:J:237:ILE:CG2	2.30	0.62
1:J:403:GLU:C	1:J:406:GLU:H	2.03	0.62
1:K:291:SER:O	1:K:292:GLU:C	2.37	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:16:PHE:HB2	1:L:82:ASP:HB3	1.81	0.62
1:A:19:LEU:HD13	1:A:240:TYR:CD1	2.34	0.62
1:C:454:ARG:HH11	1:C:454:ARG:HG2	1.63	0.62
1:D:11:GLU:HA	1:D:11:GLU:OE1	1.99	0.62
1:D:119:GLY:C	1:D:121:ALA:N	2.51	0.62
1:D:202:MET:HG2	1:D:237:ILE:HG21	1.82	0.62
1:E:228:MET:HE1	1:E:371:PHE:C	2.20	0.62
1:E:252:THR:OG1	1:F:169:LYS:O	2.17	0.62
1:F:39:ASN:ND2	1:F:42:PHE:CB	2.63	0.62
1:F:399:LEU:HB3	1:F:402:GLU:HB2	1.81	0.62
1:G:39:ASN:ND2	1:G:42:PHE:CB	2.63	0.62
1:G:79:PHE:CG	1:G:80:PHE:N	2.53	0.62
1:H:39:ASN:ND2	1:H:42:PHE:CB	2.63	0.62
1:I:228:MET:HE1	1:I:371:PHE:C	2.20	0.62
1:J:5:VAL:HG11	1:J:43:PHE:CZ	2.34	0.62
1:J:11:GLU:HA	1:J:11:GLU:OE1	1.99	0.62
1:J:92:LEU:HB3	1:J:97:LEU:N	2.15	0.62
1:J:233:ASP:CB	1:J:368:TYR:OH	2.47	0.62
1:K:418:LEU:HD13	1:K:443:ILE:HG23	1.81	0.62
1:L:202:MET:CA	1:L:202:MET:HE2	2.29	0.62
1:L:454:ARG:HH11	1:L:454:ARG:HG2	1.63	0.62
1:A:71:ALA:CB	1:A:86:ILE:HG13	2.28	0.62
1:A:418:LEU:HD13	1:A:443:ILE:HG23	1.81	0.62
1:B:202:MET:HG2	1:B:237:ILE:HG21	1.82	0.62
1:E:16:PHE:HB2	1:E:82:ASP:HB3	1.82	0.62
1:E:202:MET:HG2	1:E:237:ILE:CG2	2.30	0.62
1:F:403:GLU:C	1:F:406:GLU:H	2.03	0.62
1:G:71:ALA:HB1	1:G:86:ILE:CG1	2.28	0.62
1:H:11:GLU:HA	1:H:11:GLU:OE1	1.99	0.62
1:H:20:ARG:CZ	1:H:86:ILE:CG2	2.76	0.62
1:H:169:LYS:O	1:I:252:THR:OG1	2.17	0.62
1:H:202:MET:HG2	1:H:237:ILE:HG21	1.82	0.62
1:H:403:GLU:C	1:H:406:GLU:H	2.03	0.62
1:I:16:PHE:HB2	1:I:82:ASP:HB3	1.81	0.62
1:I:403:GLU:H	1:I:405:LYS:HG2	1.64	0.62
1:K:96:THR:O	1:K:97:LEU:CG	2.46	0.62
1:K:454:ARG:HG2	1:K:454:ARG:HH11	1.64	0.62
1:A:39:ASN:ND2	1:A:42:PHE:CB	2.63	0.62
1:A:120:ILE:CD1	1:A:382:ILE:HG22	2.30	0.62
1:A:449:GLU:OE1	1:G:465:TYR:CE2	2.53	0.62
1:B:16:PHE:HB2	1:B:82:ASP:HB3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:202:MET:HE2	1:B:202:MET:CA	2.29	0.62
1:B:454:ARG:HH11	1:B:454:ARG:HG2	1.63	0.62
1:C:63:SER:OG	1:C:90:ASP:O	2.16	0.62
1:C:96:THR:O	1:C:97:LEU:CG	2.46	0.62
1:D:338:ASN:C	1:D:339:ARG:NH1	2.54	0.62
1:D:403:GLU:C	1:D:406:GLU:H	2.03	0.62
1:D:465:TYR:CE2	1:J:449:GLU:OE1	2.53	0.62
1:F:11:GLU:HA	1:F:11:GLU:OE1	1.99	0.62
1:F:126:PHE:HE1	1:F:228:MET:HE3	1.65	0.62
1:F:449:GLU:OE1	1:L:465:TYR:CE2	2.53	0.62
1:G:86:ILE:N	1:G:86:ILE:CD1	2.44	0.62
1:G:120:ILE:CD1	1:G:382:ILE:HG22	2.30	0.62
1:K:19:LEU:HD21	1:K:240:TYR:CE2	2.34	0.62
1:L:68:MET:HE2	1:L:105:ARG:HD3	1.82	0.62
1:A:71:ALA:HB1	1:A:86:ILE:CG1	2.28	0.61
1:A:202:MET:HG2	1:A:237:ILE:HG21	1.82	0.61
1:A:465:TYR:CE2	1:G:449:GLU:OE1	2.53	0.61
1:B:39:ASN:ND2	1:B:42:PHE:CB	2.63	0.61
1:B:403:GLU:H	1:B:405:LYS:HG2	1.64	0.61
1:C:19:LEU:HD21	1:C:240:TYR:CE2	2.34	0.61
1:C:70:ASP:OD2	1:C:70:ASP:N	2.29	0.61
1:C:252:THR:OG1	1:D:169:LYS:O	2.17	0.61
1:C:449:GLU:OE1	1:I:465:TYR:CE2	2.53	0.61
1:E:5:VAL:HG11	1:E:43:PHE:CZ	2.34	0.61
1:E:67:LEU:HD11	1:E:68:MET:HE3	1.80	0.61
1:E:379:LEU:HD12	1:E:379:LEU:C	2.19	0.61
1:G:71:ALA:CB	1:G:86:ILE:HG13	2.28	0.61
1:G:106:SER:O	1:G:107:ILE:C	2.38	0.61
1:H:172:ARG:HB2	1:H:173:PRO:HD2	1.80	0.61
1:H:399:LEU:HB3	1:H:402:GLU:HB2	1.81	0.61
1:I:5:VAL:HG11	1:I:43:PHE:CZ	2.34	0.61
1:I:92:LEU:HB3	1:I:97:LEU:N	2.15	0.61
1:I:403:GLU:C	1:I:406:GLU:H	2.03	0.61
1:J:169:LYS:O	1:K:252:THR:OG1	2.17	0.61
1:K:11:GLU:HA	1:K:11:GLU:OE1	1.99	0.61
1:L:39:ASN:ND2	1:L:42:PHE:CB	2.63	0.61
1:A:106:SER:O	1:A:107:ILE:C	2.38	0.61
1:A:315:THR:CG2	1:G:465:TYR:HE2	2.04	0.61
1:A:338:ASN:C	1:A:339:ARG:NH1	2.54	0.61
1:B:19:LEU:HD12	1:B:20:ARG:HB2	1.80	0.61
1:B:465:TYR:CE2	1:H:449:GLU:OE1	2.53	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:399:LEU:CD2	1:D:402:GLU:HB2	2.30	0.61
1:E:39:ASN:ND2	1:E:42:PHE:CB	2.63	0.61
1:E:338:ASN:C	1:E:339:ARG:NH1	2.54	0.61
1:E:399:LEU:HB3	1:E:402:GLU:HB2	1.81	0.61
1:F:126:PHE:HD1	1:F:228:MET:HB3	1.65	0.61
1:F:172:ARG:HB2	1:F:173:PRO:HD2	1.80	0.61
1:F:202:MET:HG2	1:F:237:ILE:HG21	1.82	0.61
1:G:202:MET:HG2	1:G:237:ILE:HG21	1.82	0.61
1:I:39:ASN:ND2	1:I:42:PHE:CB	2.63	0.61
1:I:179:TYR:CA	1:I:181:PRO:HD3	2.30	0.61
1:I:233:ASP:CB	1:I:368:TYR:OH	2.47	0.61
1:I:338:ASN:C	1:I:339:ARG:NH1	2.54	0.61
1:I:379:LEU:HD12	1:I:379:LEU:C	2.19	0.61
1:J:338:ASN:C	1:J:339:ARG:NH1	2.54	0.61
1:J:399:LEU:CD2	1:J:402:GLU:HB2	2.30	0.61
1:K:425:ARG:CD	1:K:439:ILE:HG21	2.31	0.61
1:L:19:LEU:HD12	1:L:20:ARG:HB2	1.80	0.61
1:L:120:ILE:CD1	1:L:382:ILE:HG22	2.30	0.61
1:A:79:PHE:CG	1:A:80:PHE:N	2.53	0.61
1:A:168:ASN:C	1:A:169:LYS:HG2	2.20	0.61
1:A:179:TYR:CA	1:A:181:PRO:HD3	2.31	0.61
1:B:120:ILE:CD1	1:B:382:ILE:HG22	2.30	0.61
1:C:20:ARG:NH1	1:C:86:ILE:CG2	2.51	0.61
1:C:376:MET:HE3	1:C:433:VAL:HG21	1.79	0.61
1:C:399:LEU:CD2	1:C:402:GLU:HB2	2.30	0.61
1:D:39:ASN:ND2	1:D:42:PHE:CB	2.63	0.61
1:D:90:ASP:OD2	1:D:90:ASP:N	2.18	0.61
1:D:92:LEU:HB3	1:D:97:LEU:N	2.15	0.61
1:D:449:GLU:OE1	1:J:465:TYR:CE2	2.54	0.61
1:E:92:LEU:HB3	1:E:97:LEU:N	2.15	0.61
1:E:179:TYR:CA	1:E:181:PRO:HD3	2.31	0.61
1:E:233:ASP:CB	1:E:368:TYR:OH	2.47	0.61
1:E:449:GLU:OE1	1:K:465:TYR:CE2	2.53	0.61
1:G:27:LYS:HZ2	1:G:239:LYS:CE	2.13	0.61
1:G:168:ASN:C	1:G:169:LYS:HG2	2.20	0.61
1:G:179:TYR:CA	1:G:181:PRO:HD3	2.31	0.61
1:G:338:ASN:C	1:G:339:ARG:NH1	2.54	0.61
1:H:126:PHE:HD1	1:H:228:MET:HB3	1.65	0.61
1:I:67:LEU:HD11	1:I:68:MET:HE3	1.80	0.61
1:J:39:ASN:ND2	1:J:42:PHE:CB	2.63	0.61
1:J:163:LYS:HB2	1:J:163:LYS:HZ2	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:63:SER:OG	1:K:90:ASP:O	2.16	0.61
1:K:70:ASP:OD2	1:K:70:ASP:N	2.30	0.61
1:K:287:TYR:O	1:K:290:LEU:HD12	2.00	0.61
1:L:27:LYS:HZ3	1:L:239:LYS:HZ1	0.63	0.61
1:A:16:PHE:HB2	1:A:82:ASP:HB3	1.82	0.61
1:B:68:MET:HE2	1:B:105:ARG:HD3	1.83	0.61
1:B:128:PRO:HD2	1:B:231:LYS:HD3	1.83	0.61
1:B:179:TYR:CA	1:B:181:PRO:HD3	2.30	0.61
1:C:92:LEU:HD23	1:C:96:THR:H	1.65	0.61
1:C:233:ASP:CB	1:C:368:TYR:OH	2.48	0.61
1:C:287:TYR:O	1:C:290:LEU:HD12	2.00	0.61
1:C:425:ARG:CD	1:C:439:ILE:HG21	2.31	0.61
1:C:465:TYR:CE2	1:I:449:GLU:OE1	2.53	0.61
1:D:252:THR:OG1	1:E:169:LYS:O	2.17	0.61
1:E:68:MET:HE2	1:E:105:ARG:HD3	1.81	0.61
1:E:202:MET:HE2	1:E:202:MET:CA	2.31	0.61
1:E:403:GLU:C	1:E:406:GLU:H	2.03	0.61
1:E:465:TYR:CE2	1:K:449:GLU:OE1	2.53	0.61
1:E:467:SER:OG	1:J:171:HIS:ND1	2.31	0.61
1:F:120:ILE:CD1	1:F:382:ILE:HG22	2.30	0.61
1:G:280:ASN:H	1:G:280:ASN:HD22	1.49	0.61
1:I:202:MET:HE2	1:I:202:MET:CA	2.31	0.61
1:I:399:LEU:HB3	1:I:402:GLU:HB2	1.81	0.61
1:J:359:ARG:HH22	1:K:58:LYS:HE3	1.66	0.61
1:K:233:ASP:CB	1:K:368:TYR:OH	2.48	0.61
1:L:418:LEU:HD13	1:L:443:ILE:HG23	1.81	0.61
1:A:5:VAL:HG11	1:A:43:PHE:CZ	2.34	0.61
1:A:198:VAL:HA	1:A:201:GLN:HB3	1.83	0.61
1:A:280:ASN:H	1:A:280:ASN:HD22	1.49	0.61
1:B:19:LEU:HD21	1:B:240:TYR:CE2	2.34	0.61
1:C:11:GLU:OE1	1:C:11:GLU:HA	2.00	0.61
1:C:19:LEU:HD12	1:C:20:ARG:HB2	1.80	0.61
1:C:58:LYS:HE3	1:D:359:ARG:HH22	1.66	0.61
1:D:79:PHE:CD1	1:D:80:PHE:HB2	2.36	0.61
1:D:179:TYR:CA	1:D:181:PRO:HD3	2.30	0.61
1:D:186:ASP:C	1:D:188:ALA:N	2.52	0.61
1:E:186:ASP:C	1:E:188:ALA:N	2.52	0.61
1:F:5:VAL:HG11	1:F:43:PHE:CZ	2.34	0.61
1:F:16:PHE:HB2	1:F:82:ASP:HB3	1.82	0.61
1:G:5:VAL:HG11	1:G:43:PHE:CZ	2.34	0.61
1:G:16:PHE:HB2	1:G:82:ASP:HB3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:198:VAL:HA	1:G:201:GLN:HB3	1.83	0.61
1:G:407:ILE:HD13	1:G:408:PRO:N	2.15	0.61
1:I:169:LYS:O	1:J:252:THR:OG1	2.17	0.61
1:J:186:ASP:C	1:J:188:ALA:N	2.52	0.61
1:K:20:ARG:NH1	1:K:86:ILE:CG2	2.51	0.61
1:K:92:LEU:HD23	1:K:96:THR:H	1.66	0.61
1:K:380:ASP:HA	1:K:383:LYS:HB2	1.82	0.61
1:K:399:LEU:CD2	1:K:402:GLU:HB2	2.30	0.61
1:L:128:PRO:HD2	1:L:231:LYS:HD3	1.83	0.61
1:L:198:VAL:HA	1:L:201:GLN:HB3	1.83	0.61
1:A:20:ARG:CZ	1:A:86:ILE:CG2	2.76	0.61
1:A:128:PRO:HD2	1:A:231:LYS:HD3	1.83	0.61
1:A:202:MET:HG2	1:A:237:ILE:CG2	2.30	0.61
1:A:407:ILE:HD13	1:A:408:PRO:N	2.15	0.61
1:A:465:TYR:HE2	1:G:315:THR:CG2	2.04	0.61
1:B:287:TYR:O	1:B:290:LEU:HD12	2.00	0.61
1:B:315:THR:CG2	1:H:465:TYR:HE2	2.04	0.61
1:C:92:LEU:HB3	1:C:97:LEU:N	2.15	0.61
1:D:4:HIS:O	1:D:7:THR:N	2.34	0.61
1:D:407:ILE:HD13	1:D:408:PRO:N	2.15	0.61
1:E:42:PHE:CD2	1:E:66:VAL:HG21	2.36	0.61
1:F:1:SER:OG	1:F:2:ALA:N	2.34	0.61
1:F:106:SER:O	1:F:107:ILE:C	2.39	0.61
1:F:407:ILE:HD13	1:F:408:PRO:N	2.14	0.61
1:G:20:ARG:CZ	1:G:86:ILE:CG2	2.76	0.61
1:G:128:PRO:HD2	1:G:231:LYS:HD3	1.83	0.61
1:G:202:MET:HG2	1:G:237:ILE:CG2	2.30	0.61
1:H:106:SER:O	1:H:107:ILE:C	2.38	0.61
1:H:120:ILE:CD1	1:H:382:ILE:HG22	2.30	0.61
1:H:128:PRO:HD2	1:H:231:LYS:HD3	1.83	0.61
1:H:202:MET:HG2	1:H:237:ILE:CG2	2.30	0.61
1:I:186:ASP:C	1:I:188:ALA:N	2.52	0.61
1:J:65:MET:C	1:J:65:MET:HE2	2.20	0.61
1:K:4:HIS:O	1:K:7:THR:N	2.34	0.61
1:K:19:LEU:HD12	1:K:20:ARG:HB2	1.80	0.61
1:K:79:PHE:CD1	1:K:80:PHE:HB2	2.36	0.61
1:K:92:LEU:HB3	1:K:97:LEU:N	2.15	0.61
1:K:126:PHE:HD1	1:K:228:MET:HB3	1.65	0.61
1:L:19:LEU:HD21	1:L:240:TYR:CE2	2.34	0.61
1:L:92:LEU:HD23	1:L:96:THR:H	1.65	0.61
1:L:179:TYR:CA	1:L:181:PRO:HD3	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:403:GLU:H	1:L:405:LYS:HG2	1.64	0.61
1:B:54:ILE:CD1	1:B:102:ARG:CD	2.73	0.61
1:B:92:LEU:HD23	1:B:96:THR:H	1.65	0.61
1:B:425:ARG:CD	1:B:439:ILE:HG21	2.31	0.61
1:C:4:HIS:O	1:C:7:THR:N	2.34	0.61
1:C:126:PHE:HD1	1:C:228:MET:HB3	1.64	0.61
1:C:186:ASP:O	1:C:187:SER:C	2.39	0.61
1:C:407:ILE:HD13	1:C:408:PRO:N	2.15	0.61
1:D:65:MET:C	1:D:65:MET:HE2	2.20	0.61
1:D:168:ASN:C	1:D:169:LYS:HG2	2.21	0.61
1:D:425:ARG:CD	1:D:439:ILE:HG21	2.31	0.61
1:E:4:HIS:O	1:E:7:THR:N	2.34	0.61
1:F:128:PRO:HD2	1:F:231:LYS:HD3	1.83	0.61
1:F:198:VAL:HA	1:F:201:GLN:HB3	1.83	0.61
1:F:202:MET:HG2	1:F:237:ILE:CG2	2.30	0.61
1:F:228:MET:HE2	1:F:371:PHE:C	2.21	0.61
1:G:339:ARG:O	1:G:340:SER:HB2	1.99	0.61
1:H:5:VAL:HG11	1:H:43:PHE:CZ	2.35	0.61
1:H:16:PHE:HB2	1:H:82:ASP:HB3	1.82	0.61
1:H:27:LYS:HZ2	1:H:239:LYS:CE	2.13	0.61
1:I:4:HIS:O	1:I:7:THR:N	2.34	0.61
1:I:42:PHE:CD2	1:I:66:VAL:HG21	2.36	0.61
1:I:68:MET:HE2	1:I:105:ARG:HD3	1.81	0.61
1:I:71:ALA:CB	1:I:86:ILE:HG13	2.28	0.61
1:J:4:HIS:O	1:J:7:THR:N	2.34	0.61
1:J:79:PHE:CD1	1:J:80:PHE:HB2	2.36	0.61
1:J:168:ASN:C	1:J:169:LYS:HG2	2.21	0.61
1:J:399:LEU:HB3	1:J:402:GLU:HB2	1.81	0.61
1:J:407:ILE:HD13	1:J:408:PRO:N	2.14	0.61
1:K:186:ASP:O	1:K:187:SER:C	2.39	0.61
1:K:407:ILE:HD13	1:K:408:PRO:N	2.14	0.61
1:L:287:TYR:O	1:L:290:LEU:HD12	2.00	0.61
1:A:126:PHE:HE1	1:A:228:MET:HE3	1.66	0.61
1:A:339:ARG:O	1:A:340:SER:HB2	1.99	0.61
1:B:418:LEU:HD13	1:B:443:ILE:HG23	1.81	0.61
1:C:39:ASN:ND2	1:C:42:PHE:CB	2.63	0.61
1:C:380:ASP:HA	1:C:383:LYS:HB2	1.83	0.61
1:D:19:LEU:HD13	1:D:240:TYR:CD1	2.34	0.61
1:D:42:PHE:CD2	1:D:66:VAL:HG21	2.36	0.61
1:E:186:ASP:O	1:E:187:SER:C	2.39	0.61
1:F:425:ARG:CD	1:F:439:ILE:HG21	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:465:TYR:HE2	1:L:315:THR:CG2	2.04	0.61
1:G:119:GLY:C	1:G:121:ALA:N	2.51	0.61
1:H:1:SER:OG	1:H:2:ALA:N	2.34	0.61
1:H:168:ASN:C	1:H:169:LYS:HG2	2.20	0.61
1:H:346:PRO:C	1:H:347:VAL:O	2.36	0.61
1:H:380:ASP:HA	1:H:383:LYS:HB2	1.82	0.61
1:H:425:ARG:CD	1:H:439:ILE:HG21	2.31	0.61
1:I:119:GLY:C	1:I:121:ALA:N	2.51	0.61
1:I:128:PRO:HD2	1:I:231:LYS:HD3	1.83	0.61
1:I:425:ARG:CD	1:I:439:ILE:HG21	2.31	0.61
1:J:42:PHE:CD2	1:J:66:VAL:HG21	2.36	0.61
1:J:179:TYR:CA	1:J:181:PRO:HD3	2.31	0.61
1:J:377:ALA:O	1:J:380:ASP:N	2.34	0.61
1:J:425:ARG:CD	1:J:439:ILE:HG21	2.31	0.61
1:K:39:ASN:ND2	1:K:42:PHE:CB	2.63	0.61
1:K:126:PHE:HE1	1:K:228:MET:HE3	1.65	0.61
1:K:198:VAL:HA	1:K:201:GLN:HB3	1.83	0.61
1:L:425:ARG:CD	1:L:439:ILE:HG21	2.31	0.61
1:A:42:PHE:CD2	1:A:66:VAL:HG21	2.36	0.61
1:B:198:VAL:HA	1:B:201:GLN:HB3	1.83	0.61
1:C:54:ILE:CD1	1:C:102:ARG:CD	2.73	0.61
1:C:126:PHE:HE1	1:C:228:MET:HE3	1.65	0.61
1:C:191:ILE:H	1:C:191:ILE:HD12	1.66	0.61
1:C:198:VAL:HA	1:C:201:GLN:HB3	1.83	0.61
1:D:20:ARG:CG	1:D:28:GLU:CD	2.60	0.61
1:D:58:LYS:HE3	1:E:359:ARG:HH22	1.66	0.61
1:D:377:ALA:O	1:D:380:ASP:N	2.34	0.61
1:D:380:ASP:HA	1:D:383:LYS:HB2	1.82	0.61
1:E:119:GLY:C	1:E:121:ALA:N	2.52	0.61
1:E:128:PRO:HD2	1:E:231:LYS:HD3	1.83	0.61
1:E:377:ALA:O	1:E:380:ASP:N	2.34	0.61
1:E:399:LEU:CD2	1:E:402:GLU:HB2	2.30	0.61
1:E:425:ARG:CD	1:E:439:ILE:HG21	2.31	0.61
1:G:42:PHE:CD2	1:G:66:VAL:HG21	2.36	0.61
1:G:379:LEU:HD12	1:G:379:LEU:C	2.19	0.61
1:H:42:PHE:CD2	1:H:66:VAL:HG21	2.36	0.61
1:H:198:VAL:HA	1:H:201:GLN:HB3	1.83	0.61
1:H:407:ILE:HD13	1:H:408:PRO:N	2.15	0.61
1:J:19:LEU:HD13	1:J:240:TYR:CD1	2.35	0.61
1:J:120:ILE:CD1	1:J:382:ILE:HG22	2.30	0.61
1:K:338:ASN:C	1:K:339:ARG:NH1	2.54	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4:HIS:O	1:A:7:THR:N	2.34	0.61
1:A:68:MET:HE2	1:A:105:ARG:CD	2.27	0.61
1:A:70:ASP:OD2	1:A:70:ASP:N	2.29	0.61
1:A:379:LEU:HD12	1:A:379:LEU:C	2.20	0.61
1:C:79:PHE:CD1	1:C:80:PHE:HB2	2.36	0.61
1:C:128:PRO:HD2	1:C:231:LYS:HD3	1.83	0.61
1:C:168:ASN:C	1:C:169:LYS:HG2	2.21	0.61
1:D:79:PHE:CG	1:D:80:PHE:CD1	2.84	0.61
1:D:120:ILE:CD1	1:D:382:ILE:HG22	2.30	0.61
1:D:287:TYR:O	1:D:290:LEU:HD12	2.00	0.61
1:D:399:LEU:HB3	1:D:402:GLU:HB2	1.81	0.61
1:E:407:ILE:HD13	1:E:408:PRO:N	2.14	0.61
1:F:168:ASN:C	1:F:169:LYS:HG2	2.21	0.61
1:F:338:ASN:C	1:F:339:ARG:NH1	2.53	0.61
1:F:377:ALA:O	1:F:380:ASP:N	2.34	0.61
1:F:380:ASP:HA	1:F:383:LYS:HB2	1.82	0.61
1:G:228:MET:HE2	1:G:371:PHE:C	2.21	0.61
1:I:186:ASP:O	1:I:187:SER:C	2.40	0.61
1:I:359:ARG:HH22	1:J:58:LYS:HE3	1.66	0.61
1:I:399:LEU:CD2	1:I:402:GLU:HB2	2.30	0.61
1:J:90:ASP:OD2	1:J:90:ASP:N	2.18	0.61
1:J:198:VAL:HA	1:J:201:GLN:HB3	1.83	0.61
1:K:168:ASN:C	1:K:169:LYS:HG2	2.21	0.61
1:K:379:LEU:HD12	1:K:379:LEU:C	2.19	0.61
1:L:54:ILE:CD1	1:L:102:ARG:CD	2.73	0.61
1:A:19:LEU:HD21	1:A:240:TYR:CE2	2.34	0.60
1:A:119:GLY:C	1:A:121:ALA:N	2.51	0.60
1:A:147:SER:O	1:A:148:HIS:HB3	2.01	0.60
1:B:4:HIS:O	1:B:7:THR:N	2.34	0.60
1:B:96:THR:O	1:B:97:LEU:CG	2.46	0.60
1:B:165:GLU:C	1:B:167:GLY:N	2.55	0.60
1:C:120:ILE:CD1	1:C:382:ILE:HG22	2.30	0.60
1:C:338:ASN:C	1:C:339:ARG:NH1	2.54	0.60
1:D:345:ILE:CD1	1:D:345:ILE:N	2.31	0.60
1:E:20:ARG:HD2	1:E:237:ILE:HD13	1.83	0.60
1:E:283:SER:O	1:E:291:SER:CB	2.45	0.60
1:F:42:PHE:CD2	1:F:66:VAL:HG21	2.36	0.60
1:F:86:ILE:C	1:F:87:ILE:HG12	2.21	0.60
1:F:346:PRO:C	1:F:347:VAL:O	2.36	0.60
1:H:86:ILE:C	1:H:87:ILE:HG12	2.21	0.60
1:I:198:VAL:HA	1:I:201:GLN:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:283:SER:O	1:I:291:SER:CB	2.45	0.60
1:I:377:ALA:O	1:I:380:ASP:N	2.34	0.60
1:I:407:ILE:HD13	1:I:408:PRO:N	2.15	0.60
1:J:92:LEU:HD23	1:J:96:THR:H	1.65	0.60
1:J:287:TYR:O	1:J:290:LEU:HD12	2.00	0.60
1:K:20:ARG:HD2	1:K:237:ILE:HD13	1.84	0.60
1:K:54:ILE:CD1	1:K:102:ARG:CD	2.73	0.60
1:K:128:PRO:HD2	1:K:231:LYS:HD3	1.83	0.60
1:L:4:HIS:O	1:L:7:THR:N	2.34	0.60
1:L:20:ARG:CZ	1:L:86:ILE:CG2	2.75	0.60
1:A:425:ARG:CD	1:A:439:ILE:HG21	2.31	0.60
1:B:407:ILE:HD13	1:B:408:PRO:N	2.15	0.60
1:C:20:ARG:HD2	1:C:237:ILE:HD13	1.84	0.60
1:C:171:HIS:ND1	1:H:467:SER:OG	2.31	0.60
1:C:379:LEU:HD12	1:C:379:LEU:C	2.20	0.60
1:D:92:LEU:HD23	1:D:96:THR:H	1.65	0.60
1:D:96:THR:O	1:D:97:LEU:CG	2.46	0.60
1:D:147:SER:O	1:D:148:HIS:HB3	2.01	0.60
1:D:198:VAL:HA	1:D:201:GLN:HB3	1.83	0.60
1:E:198:VAL:HA	1:E:201:GLN:HB3	1.83	0.60
1:F:92:LEU:HB3	1:F:97:LEU:N	2.15	0.60
1:G:4:HIS:O	1:G:7:THR:N	2.34	0.60
1:G:19:LEU:HD21	1:G:240:TYR:CE2	2.34	0.60
1:G:70:ASP:OD2	1:G:70:ASP:N	2.29	0.60
1:G:103:ASP:CB	1:G:106:SER:HB2	2.32	0.60
1:G:147:SER:O	1:G:148:HIS:HB3	2.01	0.60
1:G:186:ASP:C	1:G:188:ALA:N	2.52	0.60
1:G:425:ARG:CD	1:G:439:ILE:HG21	2.31	0.60
1:H:92:LEU:HB3	1:H:97:LEU:N	2.15	0.60
1:I:168:ASN:C	1:I:169:LYS:HG2	2.20	0.60
1:J:79:PHE:CG	1:J:80:PHE:CD1	2.84	0.60
1:J:223:THR:HG22	1:J:231:LYS:HZ3	1.65	0.60
1:J:280:ASN:C	1:J:282:PHE:N	2.51	0.60
1:J:380:ASP:HA	1:J:383:LYS:HB2	1.83	0.60
1:K:120:ILE:CD1	1:K:382:ILE:HG22	2.30	0.60
1:L:407:ILE:HD13	1:L:408:PRO:N	2.14	0.60
1:A:1:SER:OG	1:A:2:ALA:N	2.34	0.60
1:B:380:ASP:HA	1:B:383:LYS:HB2	1.82	0.60
1:C:119:GLY:C	1:C:121:ALA:N	2.51	0.60
1:C:179:TYR:CA	1:C:181:PRO:HD3	2.30	0.60
1:C:268:MET:N	1:C:363:PRO:HD3	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1:SER:OG	1:G:2:ALA:N	2.34	0.60
1:G:86:ILE:C	1:G:87:ILE:HG12	2.21	0.60
1:H:54:ILE:CG1	1:H:102:ARG:NE	2.47	0.60
1:H:179:TYR:CA	1:H:181:PRO:HD3	2.30	0.60
1:H:338:ASN:C	1:H:339:ARG:NH1	2.54	0.60
1:H:339:ARG:O	1:H:340:SER:HB2	1.99	0.60
1:I:1:SER:OG	1:I:2:ALA:N	2.34	0.60
1:I:20:ARG:HD2	1:I:237:ILE:HD13	1.83	0.60
1:I:79:PHE:CD1	1:I:80:PHE:HB2	2.36	0.60
1:J:96:THR:O	1:J:97:LEU:CG	2.46	0.60
1:J:223:THR:HG22	1:J:231:LYS:NZ	2.16	0.60
1:K:179:TYR:CA	1:K:181:PRO:HD3	2.31	0.60
1:K:268:MET:N	1:K:363:PRO:HD3	2.17	0.60
1:K:280:ASN:C	1:K:282:PHE:N	2.51	0.60
1:K:359:ARG:HH22	1:L:58:LYS:HE3	1.66	0.60
1:L:96:THR:O	1:L:97:LEU:CG	2.46	0.60
1:L:191:ILE:HD12	1:L:191:ILE:H	1.66	0.60
1:L:380:ASP:HA	1:L:383:LYS:HB2	1.82	0.60
1:L:399:LEU:CD2	1:L:402:GLU:HB2	2.30	0.60
1:A:103:ASP:CB	1:A:106:SER:HB2	2.32	0.60
1:A:223:THR:HG22	1:A:231:LYS:NZ	2.16	0.60
1:B:42:PHE:CD2	1:B:66:VAL:HG21	2.36	0.60
1:B:58:LYS:HE3	1:C:359:ARG:HH22	1.66	0.60
1:B:92:LEU:HB3	1:B:97:LEU:N	2.15	0.60
1:B:191:ILE:H	1:B:191:ILE:HD12	1.66	0.60
1:B:399:LEU:CD2	1:B:402:GLU:HB2	2.30	0.60
1:B:449:GLU:OE1	1:H:465:TYR:CE2	2.53	0.60
1:C:42:PHE:CD2	1:C:66:VAL:HG21	2.36	0.60
1:D:128:PRO:HD2	1:D:231:LYS:HD3	1.83	0.60
1:D:223:THR:HG22	1:D:231:LYS:NZ	2.16	0.60
1:D:280:ASN:C	1:D:282:PHE:N	2.51	0.60
1:E:79:PHE:CD1	1:E:80:PHE:HB2	2.36	0.60
1:F:178:GLY:O	1:F:179:TYR:CD1	2.54	0.60
1:G:92:LEU:HD23	1:G:96:THR:H	1.65	0.60
1:G:179:TYR:C	1:G:181:PRO:CD	2.66	0.60
1:G:223:THR:HG22	1:G:231:LYS:NZ	2.16	0.60
1:H:20:ARG:HD2	1:H:237:ILE:HD13	1.83	0.60
1:H:377:ALA:O	1:H:380:ASP:N	2.34	0.60
1:J:128:PRO:HD2	1:J:231:LYS:HD3	1.83	0.60
1:J:147:SER:O	1:J:148:HIS:HB3	2.02	0.60
1:K:191:ILE:H	1:K:191:ILE:HD12	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:79:PHE:CD1	1:L:80:PHE:HB2	2.36	0.60
1:L:92:LEU:HB3	1:L:97:LEU:N	2.15	0.60
1:L:120:ILE:HD13	1:L:382:ILE:CG2	2.32	0.60
1:L:280:ASN:H	1:L:280:ASN:HD22	1.49	0.60
1:A:86:ILE:C	1:A:87:ILE:HG12	2.21	0.60
1:B:20:ARG:CZ	1:B:86:ILE:CG2	2.76	0.60
1:B:120:ILE:HD13	1:B:382:ILE:CG2	2.32	0.60
1:B:280:ASN:H	1:B:280:ASN:HD22	1.49	0.60
1:B:377:ALA:O	1:B:380:ASP:N	2.34	0.60
1:D:186:ASP:O	1:D:187:SER:C	2.39	0.60
1:E:86:ILE:C	1:E:87:ILE:HG12	2.22	0.60
1:E:120:ILE:CD1	1:E:382:ILE:HG22	2.30	0.60
1:E:165:GLU:C	1:E:167:GLY:N	2.55	0.60
1:F:20:ARG:HD2	1:F:237:ILE:HD13	1.83	0.60
1:F:103:ASP:CB	1:F:106:SER:HB2	2.32	0.60
1:F:339:ARG:O	1:F:340:SER:HB2	1.99	0.60
1:F:465:TYR:CE2	1:L:449:GLU:OE1	2.53	0.60
1:F:467:SER:OG	1:K:171:HIS:ND1	2.31	0.60
1:G:68:MET:HE2	1:G:105:ARG:CD	2.27	0.60
1:H:103:ASP:CB	1:H:106:SER:HB2	2.32	0.60
1:H:157:ALA:H	1:H:215:THR:CG2	2.08	0.60
1:H:178:GLY:O	1:H:179:TYR:CD1	2.54	0.60
1:I:86:ILE:C	1:I:87:ILE:HG12	2.22	0.60
1:I:178:GLY:O	1:I:179:TYR:CD1	2.54	0.60
1:J:20:ARG:CG	1:J:28:GLU:CD	2.60	0.60
1:J:179:TYR:C	1:J:181:PRO:CD	2.66	0.60
1:K:42:PHE:CD2	1:K:66:VAL:HG21	2.36	0.60
1:K:119:GLY:C	1:K:121:ALA:N	2.51	0.60
1:K:202:MET:HE2	1:K:202:MET:CA	2.28	0.60
1:L:42:PHE:CD2	1:L:66:VAL:HG21	2.36	0.60
1:L:106:SER:O	1:L:107:ILE:C	2.38	0.60
1:L:268:MET:N	1:L:363:PRO:HD3	2.17	0.60
1:A:178:GLY:O	1:A:179:TYR:CD1	2.54	0.60
1:B:79:PHE:CD1	1:B:80:PHE:HB2	2.36	0.60
1:B:106:SER:O	1:B:107:ILE:C	2.38	0.60
1:B:268:MET:N	1:B:363:PRO:HD3	2.17	0.60
1:B:338:ASN:C	1:B:339:ARG:NH1	2.54	0.60
1:C:103:ASP:CB	1:C:106:SER:HB2	2.32	0.60
1:C:178:GLY:O	1:C:179:TYR:CD1	2.54	0.60
1:C:377:ALA:O	1:C:380:ASP:N	2.34	0.60
1:D:191:ILE:HD12	1:D:191:ILE:H	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1:SER:OG	1:E:2:ALA:N	2.34	0.60
1:E:168:ASN:C	1:E:169:LYS:HG2	2.20	0.60
1:F:92:LEU:HD23	1:F:96:THR:H	1.65	0.60
1:G:65:MET:HB3	1:G:67:LEU:CD2	2.10	0.60
1:I:120:ILE:CD1	1:I:382:ILE:HG22	2.30	0.60
1:J:165:GLU:C	1:J:167:GLY:N	2.55	0.60
1:J:268:MET:N	1:J:363:PRO:HD3	2.17	0.60
1:K:103:ASP:CB	1:K:106:SER:HB2	2.32	0.60
1:L:92:LEU:CG	1:L:93:GLU:N	2.63	0.60
1:L:223:THR:HG22	1:L:231:LYS:NZ	2.16	0.60
1:A:92:LEU:HD23	1:A:96:THR:H	1.65	0.60
1:A:179:TYR:C	1:A:181:PRO:CD	2.66	0.60
1:B:178:GLY:O	1:B:179:TYR:CD1	2.54	0.60
1:B:223:THR:HG22	1:B:231:LYS:NZ	2.16	0.60
1:C:2:ALA:O	1:C:6:LEU:CB	2.49	0.60
1:C:174:GLY:C	1:C:175:VAL:O	2.40	0.60
1:D:165:GLU:C	1:D:167:GLY:N	2.55	0.60
1:D:178:GLY:O	1:D:179:TYR:CD1	2.54	0.60
1:D:268:MET:N	1:D:363:PRO:HD3	2.17	0.60
1:E:178:GLY:O	1:E:179:TYR:CD1	2.54	0.60
1:E:280:ASN:ND2	1:E:280:ASN:N	2.49	0.60
1:E:380:ASP:HA	1:E:383:LYS:HB2	1.82	0.60
1:G:186:ASP:O	1:G:187:SER:C	2.39	0.60
1:I:19:LEU:HD13	1:I:240:TYR:CD1	2.34	0.60
1:I:280:ASN:ND2	1:I:280:ASN:N	2.49	0.60
1:J:174:GLY:C	1:J:175:VAL:O	2.40	0.60
1:J:178:GLY:O	1:J:179:TYR:CD1	2.54	0.60
1:J:191:ILE:H	1:J:191:ILE:HD12	1.66	0.60
1:K:174:GLY:C	1:K:175:VAL:O	2.40	0.60
1:K:178:GLY:O	1:K:179:TYR:CD1	2.54	0.60
1:K:377:ALA:O	1:K:380:ASP:N	2.34	0.60
1:L:65:MET:HB3	1:L:67:LEU:CD2	2.10	0.60
1:L:165:GLU:C	1:L:167:GLY:N	2.55	0.60
1:L:178:GLY:O	1:L:179:TYR:CD1	2.54	0.60
1:L:377:ALA:O	1:L:380:ASP:N	2.34	0.60
1:A:94:PRO:O	1:A:96:THR:HG23	2.02	0.60
1:A:186:ASP:O	1:A:187:SER:C	2.39	0.60
1:D:103:ASP:CB	1:D:106:SER:HB2	2.32	0.60
1:D:174:GLY:C	1:D:175:VAL:O	2.40	0.60
1:E:65:MET:CE	1:E:65:MET:CA	2.75	0.60
1:E:126:PHE:HD1	1:E:228:MET:HB3	1.64	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:147:SER:O	1:E:148:HIS:HB3	2.02	0.60
1:F:27:LYS:HZ2	1:F:239:LYS:CE	2.14	0.60
1:F:157:ALA:H	1:F:215:THR:CG2	2.09	0.60
1:F:179:TYR:CA	1:F:181:PRO:HD3	2.31	0.60
1:G:92:LEU:HB3	1:G:97:LEU:N	2.15	0.60
1:G:178:GLY:O	1:G:179:TYR:CD1	2.54	0.60
1:H:399:LEU:CD2	1:H:402:GLU:HB2	2.30	0.60
1:I:27:LYS:HZ2	1:I:239:LYS:HE3	1.66	0.60
1:I:147:SER:O	1:I:148:HIS:HB3	2.01	0.60
1:I:179:TYR:C	1:I:181:PRO:CD	2.66	0.60
1:I:380:ASP:HA	1:I:383:LYS:HB2	1.83	0.60
1:K:2:ALA:O	1:K:6:LEU:CB	2.49	0.60
1:K:20:ARG:CG	1:K:28:GLU:CD	2.60	0.60
1:L:20:ARG:HD2	1:L:237:ILE:HD13	1.83	0.60
1:L:20:ARG:H	1:L:30:HIS:HB3	1.67	0.60
1:L:174:GLY:C	1:L:175:VAL:O	2.40	0.60
1:L:338:ASN:C	1:L:339:ARG:NH1	2.54	0.60
1:A:92:LEU:HB3	1:A:97:LEU:N	2.15	0.60
1:B:92:LEU:CG	1:B:93:GLU:N	2.63	0.60
1:B:103:ASP:CB	1:B:106:SER:HB2	2.32	0.60
1:B:119:GLY:C	1:B:121:ALA:N	2.51	0.60
1:B:174:GLY:C	1:B:175:VAL:O	2.40	0.60
1:D:179:TYR:C	1:D:181:PRO:CD	2.66	0.60
1:F:4:HIS:O	1:F:7:THR:N	2.34	0.60
1:F:280:ASN:H	1:F:280:ASN:HD22	1.49	0.60
1:F:399:LEU:CD2	1:F:402:GLU:HB2	2.30	0.60
1:G:399:LEU:CD2	1:G:402:GLU:HB2	2.30	0.60
1:H:4:HIS:O	1:H:7:THR:N	2.34	0.60
1:H:359:ARG:HH22	1:I:58:LYS:HE3	1.66	0.60
1:I:126:PHE:HD1	1:I:228:MET:HB3	1.64	0.60
1:I:165:GLU:C	1:I:167:GLY:N	2.55	0.60
1:I:223:THR:HG22	1:I:231:LYS:NZ	2.16	0.60
1:J:103:ASP:CB	1:J:106:SER:HB2	2.32	0.60
1:J:186:ASP:O	1:J:187:SER:C	2.39	0.60
1:J:345:ILE:CD1	1:J:345:ILE:N	2.31	0.60
1:K:350:SER:C	1:K:352:LYS:N	2.55	0.60
1:L:103:ASP:CB	1:L:106:SER:HB2	2.32	0.60
1:A:191:ILE:H	1:A:191:ILE:HD12	1.66	0.60
1:A:399:LEU:CD2	1:A:402:GLU:HB2	2.30	0.60
1:B:20:ARG:HD2	1:B:237:ILE:HD13	1.84	0.60
1:C:20:ARG:CG	1:C:28:GLU:CD	2.60	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:63:SER:OG	1:D:90:ASP:O	2.16	0.60
1:E:58:LYS:HE3	1:F:359:ARG:HH22	1.66	0.60
1:E:179:TYR:C	1:E:181:PRO:CD	2.66	0.60
1:E:223:THR:HG22	1:E:231:LYS:NZ	2.16	0.60
1:F:54:ILE:CG1	1:F:102:ARG:NE	2.47	0.60
1:G:20:ARG:H	1:G:30:HIS:HB3	1.67	0.60
1:G:94:PRO:O	1:G:96:THR:HG23	2.02	0.60
1:H:92:LEU:HD23	1:H:96:THR:H	1.66	0.60
1:H:280:ASN:H	1:H:280:ASN:HD22	1.49	0.60
1:I:92:LEU:HD23	1:I:96:THR:H	1.65	0.60
1:L:86:ILE:C	1:L:87:ILE:HG12	2.21	0.60
1:A:20:ARG:H	1:A:30:HIS:HB3	1.67	0.59
1:A:120:ILE:HD13	1:A:382:ILE:CG2	2.32	0.59
1:A:174:GLY:C	1:A:175:VAL:O	2.40	0.59
1:A:268:MET:N	1:A:363:PRO:HD3	2.17	0.59
1:A:377:ALA:O	1:A:380:ASP:N	2.34	0.59
1:B:20:ARG:H	1:B:30:HIS:HB3	1.67	0.59
1:B:65:MET:HB3	1:B:67:LEU:CD2	2.10	0.59
1:B:86:ILE:C	1:B:87:ILE:HG12	2.21	0.59
1:B:214:ALA:HA	1:B:263:ASP:OD2	2.02	0.59
1:C:147:SER:O	1:C:148:HIS:HB3	2.01	0.59
1:C:350:SER:C	1:C:352:LYS:N	2.55	0.59
1:D:20:ARG:H	1:D:30:HIS:HB3	1.67	0.59
1:D:68:MET:HE2	1:D:105:ARG:HD3	1.83	0.59
1:D:350:SER:C	1:D:352:LYS:N	2.55	0.59
1:E:92:LEU:HD23	1:E:96:THR:H	1.66	0.59
1:E:103:ASP:CB	1:E:106:SER:HB2	2.32	0.59
1:G:165:GLU:C	1:G:167:GLY:N	2.55	0.59
1:G:174:GLY:C	1:G:175:VAL:O	2.40	0.59
1:G:377:ALA:O	1:G:380:ASP:N	2.34	0.59
1:H:147:SER:O	1:H:148:HIS:HB3	2.01	0.59
1:J:68:MET:HE2	1:J:105:ARG:HD3	1.83	0.59
1:J:86:ILE:C	1:J:87:ILE:HG12	2.21	0.59
1:J:106:SER:O	1:J:107:ILE:C	2.38	0.59
1:J:280:ASN:ND2	1:J:280:ASN:N	2.49	0.59
1:K:296:TYR:CD2	1:K:296:TYR:N	2.70	0.59
1:L:296:TYR:N	1:L:296:TYR:CD2	2.70	0.59
1:L:339:ARG:O	1:L:340:SER:HB2	1.99	0.59
1:A:65:MET:HB3	1:A:67:LEU:CD2	2.10	0.59
1:A:79:PHE:CD1	1:A:80:PHE:HB2	2.36	0.59
1:A:165:GLU:C	1:A:167:GLY:N	2.55	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:94:PRO:O	1:B:96:THR:HG23	2.02	0.59
1:B:296:TYR:CD2	1:B:296:TYR:N	2.70	0.59
1:C:214:ALA:HA	1:C:263:ASP:OD2	2.02	0.59
1:C:296:TYR:CD2	1:C:296:TYR:N	2.70	0.59
1:C:331:MET:HE3	1:C:396:LEU:CD1	2.30	0.59
1:D:86:ILE:C	1:D:87:ILE:HG12	2.21	0.59
1:D:214:ALA:HA	1:D:263:ASP:OD2	2.03	0.59
1:E:19:LEU:HD13	1:E:240:TYR:CD1	2.35	0.59
1:F:79:PHE:CD1	1:F:80:PHE:HB2	2.36	0.59
1:F:223:THR:HG22	1:F:231:LYS:NZ	2.16	0.59
1:G:79:PHE:CD1	1:G:80:PHE:HB2	2.36	0.59
1:G:191:ILE:H	1:G:191:ILE:HD12	1.66	0.59
1:H:20:ARG:H	1:H:30:HIS:HB3	1.67	0.59
1:H:79:PHE:CD1	1:H:80:PHE:HB2	2.36	0.59
1:I:103:ASP:CB	1:I:106:SER:HB2	2.32	0.59
1:I:379:LEU:HD12	1:I:380:ASP:H	1.68	0.59
1:J:20:ARG:H	1:J:30:HIS:HB3	1.67	0.59
1:J:350:SER:C	1:J:352:LYS:N	2.55	0.59
1:K:102:ARG:HB2	1:K:104:PRO:CD	2.11	0.59
1:K:147:SER:O	1:K:148:HIS:HB3	2.01	0.59
1:K:228:MET:HE2	1:K:371:PHE:C	2.21	0.59
1:L:19:LEU:HD13	1:L:240:TYR:CD1	2.35	0.59
1:L:94:PRO:O	1:L:96:THR:HG23	2.02	0.59
1:L:119:GLY:C	1:L:121:ALA:N	2.51	0.59
1:L:168:ASN:C	1:L:169:LYS:HG2	2.20	0.59
1:A:228:MET:HE2	1:A:371:PHE:C	2.23	0.59
1:B:147:SER:O	1:B:148:HIS:HB3	2.01	0.59
1:B:331:MET:HE3	1:B:396:LEU:HB2	1.84	0.59
1:C:94:PRO:O	1:C:96:THR:HG23	2.02	0.59
1:C:228:MET:HE2	1:C:371:PHE:C	2.21	0.59
1:D:126:PHE:HD1	1:D:228:MET:HB3	1.64	0.59
1:E:350:SER:C	1:E:352:LYS:N	2.55	0.59
1:E:379:LEU:HD12	1:E:380:ASP:H	1.68	0.59
1:F:20:ARG:H	1:F:30:HIS:HB3	1.67	0.59
1:F:179:TYR:C	1:F:181:PRO:CD	2.66	0.59
1:F:186:ASP:O	1:F:187:SER:C	2.39	0.59
1:G:268:MET:N	1:G:363:PRO:HD3	2.17	0.59
1:G:359:ARG:HH22	1:H:58:LYS:HE3	1.66	0.59
1:H:179:TYR:C	1:H:181:PRO:CD	2.66	0.59
1:H:223:THR:HG22	1:H:231:LYS:NZ	2.16	0.59
1:I:163:LYS:HB2	1:I:163:LYS:HZ2	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:268:MET:N	1:I:363:PRO:HD3	2.17	0.59
1:I:350:SER:C	1:I:352:LYS:N	2.55	0.59
1:J:63:SER:OG	1:J:90:ASP:O	2.16	0.59
1:J:126:PHE:HD1	1:J:228:MET:HB3	1.65	0.59
1:K:94:PRO:O	1:K:96:THR:HG23	2.02	0.59
1:K:331:MET:HE3	1:K:396:LEU:CD1	2.30	0.59
1:L:179:TYR:C	1:L:181:PRO:CD	2.66	0.59
1:L:186:ASP:O	1:L:187:SER:C	2.39	0.59
1:A:63:SER:OG	1:A:90:ASP:O	2.16	0.59
1:A:337:ARG:O	1:A:338:ASN:C	2.41	0.59
1:A:359:ARG:HH22	1:F:58:LYS:HE3	1.66	0.59
1:B:19:LEU:HD13	1:B:240:TYR:CD1	2.34	0.59
1:B:105:ARG:NH2	1:B:233:ASP:CG	2.55	0.59
1:B:186:ASP:O	1:B:187:SER:C	2.39	0.59
1:B:350:SER:C	1:B:352:LYS:N	2.55	0.59
1:D:1:SER:OG	1:D:2:ALA:N	2.34	0.59
1:D:2:ALA:O	1:D:6:LEU:CB	2.49	0.59
1:D:280:ASN:ND2	1:D:280:ASN:N	2.49	0.59
1:E:18:ASP:O	1:E:20:ARG:O	2.21	0.59
1:E:105:ARG:NH2	1:E:233:ASP:CG	2.55	0.59
1:F:120:ILE:HD13	1:F:382:ILE:CG2	2.32	0.59
1:F:337:ARG:O	1:F:338:ASN:C	2.41	0.59
1:G:120:ILE:HD13	1:G:382:ILE:CG2	2.32	0.59
1:G:337:ARG:O	1:G:338:ASN:C	2.41	0.59
1:G:380:ASP:HA	1:G:383:LYS:HB2	1.83	0.59
1:H:186:ASP:O	1:H:187:SER:C	2.39	0.59
1:I:18:ASP:O	1:I:20:ARG:O	2.21	0.59
1:I:106:SER:O	1:I:107:ILE:C	2.38	0.59
1:J:2:ALA:O	1:J:6:LEU:CB	2.49	0.59
1:J:214:ALA:HA	1:J:263:ASP:OD2	2.03	0.59
1:J:359:ARG:O	1:J:360:PHE:HB3	2.02	0.59
1:K:365:ALA:O	1:K:367:PRO:HD3	2.03	0.59
1:L:147:SER:O	1:L:148:HIS:HB3	2.01	0.59
1:L:214:ALA:HA	1:L:263:ASP:OD2	2.03	0.59
1:A:380:ASP:HA	1:A:383:LYS:HB2	1.83	0.59
1:B:339:ARG:O	1:B:340:SER:HB2	1.99	0.59
1:C:365:ALA:O	1:C:367:PRO:HD3	2.03	0.59
1:D:171:HIS:ND1	1:I:467:SER:OG	2.31	0.59
1:D:296:TYR:N	1:D:296:TYR:CD2	2.70	0.59
1:E:106:SER:O	1:E:107:ILE:C	2.39	0.59
1:E:268:MET:N	1:E:363:PRO:HD3	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:147:SER:O	1:F:148:HIS:HB3	2.02	0.59
1:F:165:GLU:C	1:F:167:GLY:N	2.55	0.59
1:G:68:MET:HE1	1:G:88:ARG:CB	2.32	0.59
1:H:120:ILE:HD13	1:H:382:ILE:CG2	2.32	0.59
1:H:165:GLU:C	1:H:167:GLY:N	2.55	0.59
1:H:379:LEU:HD12	1:H:380:ASP:H	1.67	0.59
1:I:120:ILE:HD13	1:I:382:ILE:CG2	2.31	0.59
1:J:1:SER:OG	1:J:2:ALA:N	2.34	0.59
1:J:65:MET:HB3	1:J:67:LEU:CD2	2.10	0.59
1:J:296:TYR:CD2	1:J:296:TYR:N	2.70	0.59
1:K:20:ARG:H	1:K:30:HIS:HB3	1.67	0.59
1:L:105:ARG:NH2	1:L:233:ASP:CG	2.55	0.59
1:L:350:SER:C	1:L:352:LYS:N	2.55	0.59
1:A:6:LEU:O	1:A:7:THR:C	2.41	0.59
1:B:18:ASP:O	1:B:20:ARG:O	2.21	0.59
1:B:168:ASN:C	1:B:169:LYS:HG2	2.20	0.59
1:C:86:ILE:C	1:C:87:ILE:HG12	2.21	0.59
1:C:280:ASN:ND2	1:C:280:ASN:N	2.49	0.59
1:C:465:TYR:CD2	1:I:315:THR:HG23	1.94	0.59
1:D:359:ARG:O	1:D:360:PHE:HB3	2.02	0.59
1:D:379:LEU:HD12	1:D:380:ASP:H	1.68	0.59
1:E:464:LEU:HD23	1:E:465:TYR:H	1.67	0.59
1:G:6:LEU:O	1:G:7:THR:C	2.40	0.59
1:G:18:ASP:O	1:G:20:ARG:O	2.21	0.59
1:G:398:ASP:O	1:G:402:GLU:HB3	2.03	0.59
1:H:92:LEU:CG	1:H:93:GLU:N	2.63	0.59
1:H:296:TYR:HD1	1:H:385:LYS:C	2.06	0.59
1:H:337:ARG:O	1:H:338:ASN:C	2.41	0.59
1:I:105:ARG:NH2	1:I:233:ASP:CG	2.55	0.59
1:I:191:ILE:H	1:I:191:ILE:HD12	1.66	0.59
1:J:379:LEU:HD12	1:J:380:ASP:H	1.68	0.59
1:K:280:ASN:ND2	1:K:280:ASN:N	2.49	0.59
1:L:18:ASP:O	1:L:20:ARG:O	2.21	0.59
1:A:18:ASP:O	1:A:20:ARG:O	2.21	0.59
1:A:214:ALA:HA	1:A:263:ASP:OD2	2.03	0.59
1:A:398:ASP:O	1:A:402:GLU:HB3	2.03	0.59
1:C:223:THR:HG22	1:C:231:LYS:NZ	2.16	0.59
1:D:18:ASP:O	1:D:20:ARG:O	2.21	0.59
1:D:65:MET:HB3	1:D:67:LEU:CD2	2.10	0.59
1:D:299:GLY:HA3	1:D:386:ILE:HG23	1.85	0.59
1:D:365:ALA:O	1:D:367:PRO:HD3	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:454:ARG:HG2	1:D:454:ARG:NH1	2.18	0.59
1:D:466:TYR:HA	1:J:256:MET:HE2	1.84	0.59
1:E:191:ILE:H	1:E:191:ILE:HD12	1.66	0.59
1:F:18:ASP:O	1:F:20:ARG:O	2.21	0.59
1:F:125:LEU:HD12	1:F:225:PHE:CD2	2.38	0.59
1:F:191:ILE:H	1:F:191:ILE:HD12	1.66	0.59
1:F:296:TYR:HD1	1:F:385:LYS:C	2.06	0.59
1:G:27:LYS:HZ2	1:G:239:LYS:NZ	1.88	0.59
1:G:63:SER:OG	1:G:90:ASP:O	2.16	0.59
1:G:365:ALA:O	1:G:367:PRO:HD3	2.03	0.59
1:H:283:SER:O	1:H:291:SER:CB	2.45	0.59
1:I:299:GLY:HA3	1:I:386:ILE:HG23	1.85	0.59
1:I:427:PHE:CE2	1:I:428:LEU:HD22	2.38	0.59
1:I:464:LEU:HD23	1:I:465:TYR:H	1.67	0.59
1:J:379:LEU:O	1:J:383:LYS:N	2.20	0.59
1:J:454:ARG:HG2	1:J:454:ARG:NH1	2.18	0.59
1:A:68:MET:HE1	1:A:88:ARG:CB	2.32	0.59
1:A:96:THR:O	1:A:97:LEU:CG	2.46	0.59
1:A:296:TYR:N	1:A:296:TYR:CD2	2.70	0.59
1:A:365:ALA:O	1:A:367:PRO:HD3	2.03	0.59
1:B:68:MET:HE3	1:B:88:ARG:CB	2.25	0.59
1:B:179:TYR:C	1:B:181:PRO:CD	2.66	0.59
1:B:359:ARG:O	1:B:360:PHE:HB3	2.02	0.59
1:C:20:ARG:H	1:C:30:HIS:HB3	1.67	0.59
1:D:20:ARG:HD2	1:D:237:ILE:HD13	1.83	0.59
1:E:296:TYR:HD1	1:E:385:LYS:C	2.06	0.59
1:E:299:GLY:HA3	1:E:386:ILE:HG23	1.85	0.59
1:E:427:PHE:CE2	1:E:428:LEU:HD22	2.38	0.59
1:F:92:LEU:CG	1:F:93:GLU:N	2.63	0.59
1:F:283:SER:O	1:F:291:SER:CB	2.45	0.59
1:F:365:ALA:O	1:F:367:PRO:HD3	2.03	0.59
1:G:214:ALA:HA	1:G:263:ASP:OD2	2.03	0.59
1:G:296:TYR:CD2	1:G:296:TYR:N	2.70	0.59
1:G:454:ARG:HG2	1:G:454:ARG:NH1	2.18	0.59
1:H:18:ASP:O	1:H:20:ARG:O	2.21	0.59
1:H:191:ILE:HD12	1:H:191:ILE:H	1.66	0.59
1:I:20:ARG:H	1:I:30:HIS:HB3	1.67	0.59
1:I:214:ALA:HA	1:I:263:ASP:OD2	2.02	0.59
1:I:296:TYR:HD1	1:I:385:LYS:C	2.06	0.59
1:I:359:ARG:O	1:I:360:PHE:HB3	2.02	0.59
1:J:18:ASP:O	1:J:20:ARG:O	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:20:ARG:HD2	1:J:237:ILE:HD13	1.84	0.59
1:J:398:ASP:O	1:J:402:GLU:HB3	2.03	0.59
1:K:214:ALA:HA	1:K:263:ASP:OD2	2.03	0.59
1:K:223:THR:HG22	1:K:231:LYS:NZ	2.16	0.59
1:K:398:ASP:O	1:K:402:GLU:HB3	2.03	0.59
1:K:454:ARG:HG2	1:K:454:ARG:NH1	2.18	0.59
1:L:359:ARG:O	1:L:360:PHE:HB3	2.02	0.59
1:A:359:ARG:O	1:A:360:PHE:HB3	2.02	0.59
1:B:1:SER:OG	1:B:2:ALA:N	2.34	0.59
1:C:359:ARG:O	1:C:360:PHE:HB3	2.03	0.59
1:E:20:ARG:H	1:E:30:HIS:HB3	1.67	0.59
1:E:120:ILE:HD13	1:E:382:ILE:CG2	2.32	0.59
1:E:125:LEU:HD12	1:E:225:PHE:CD2	2.38	0.59
1:E:359:ARG:O	1:E:360:PHE:HB3	2.03	0.59
1:F:268:MET:N	1:F:363:PRO:HD3	2.17	0.59
1:H:331:MET:HE3	1:H:396:LEU:HB2	1.84	0.59
1:H:365:ALA:O	1:H:367:PRO:HD3	2.03	0.59
1:I:125:LEU:HD12	1:I:225:PHE:CD2	2.38	0.59
1:I:309:ASN:HB2	1:I:313:ASN:ND2	2.18	0.59
1:J:365:ALA:O	1:J:367:PRO:HD3	2.03	0.59
1:K:86:ILE:C	1:K:87:ILE:HG12	2.21	0.59
1:K:120:ILE:HD13	1:K:382:ILE:CG2	2.32	0.59
1:L:1:SER:OG	1:L:2:ALA:N	2.34	0.59
1:B:171:HIS:ND1	1:G:467:SER:OG	2.31	0.59
1:B:398:ASP:O	1:B:402:GLU:HB3	2.03	0.59
1:C:120:ILE:HD13	1:C:382:ILE:CG2	2.32	0.59
1:C:398:ASP:O	1:C:402:GLU:HB3	2.03	0.59
1:D:309:ASN:HB2	1:D:313:ASN:ND2	2.18	0.59
1:D:376:MET:CE	1:D:433:VAL:HG21	2.33	0.59
1:D:398:ASP:O	1:D:402:GLU:HB3	2.03	0.59
1:E:315:THR:HG23	1:K:465:TYR:CD2	1.94	0.59
1:F:299:GLY:HA3	1:F:386:ILE:HG23	1.85	0.59
1:F:331:MET:HE3	1:F:396:LEU:HB2	1.84	0.59
1:F:379:LEU:HD12	1:F:380:ASP:H	1.68	0.59
1:H:125:LEU:HD12	1:H:225:PHE:CD2	2.38	0.59
1:H:296:TYR:CD2	1:H:296:TYR:N	2.70	0.59
1:H:399:LEU:O	1:H:402:GLU:HB3	2.03	0.59
1:I:280:ASN:H	1:I:280:ASN:HD22	1.49	0.59
1:J:309:ASN:HB2	1:J:313:ASN:ND2	2.18	0.59
1:K:296:TYR:HD1	1:K:385:LYS:C	2.06	0.59
1:L:309:ASN:HB2	1:L:313:ASN:ND2	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:337:ARG:O	1:L:338:ASN:C	2.41	0.59
1:L:398:ASP:O	1:L:402:GLU:HB3	2.03	0.59
1:A:454:ARG:HG2	1:A:454:ARG:NH1	2.18	0.58
1:A:467:SER:OG	1:L:171:HIS:ND1	2.31	0.58
1:B:309:ASN:HB2	1:B:313:ASN:ND2	2.18	0.58
1:C:18:ASP:O	1:C:20:ARG:O	2.21	0.58
1:C:65:MET:HE3	1:C:65:MET:CA	2.28	0.58
1:C:280:ASN:H	1:C:280:ASN:HD22	1.48	0.58
1:D:283:SER:O	1:D:291:SER:CB	2.45	0.58
1:E:309:ASN:HB2	1:E:313:ASN:ND2	2.18	0.58
1:F:214:ALA:HA	1:F:263:ASP:OD2	2.03	0.58
1:F:296:TYR:CD2	1:F:296:TYR:N	2.70	0.58
1:F:338:ASN:ND2	1:F:395:ASN:H	1.98	0.58
1:F:359:ARG:O	1:F:360:PHE:HB3	2.02	0.58
1:G:58:LYS:HE3	1:L:359:ARG:HH22	1.66	0.58
1:G:296:TYR:HD1	1:G:385:LYS:C	2.06	0.58
1:G:338:ASN:ND2	1:G:395:ASN:H	1.99	0.58
1:G:359:ARG:O	1:G:360:PHE:HB3	2.02	0.58
1:G:376:MET:CE	1:G:433:VAL:HG21	2.33	0.58
1:H:19:LEU:HD13	1:H:240:TYR:CD1	2.34	0.58
1:H:214:ALA:HA	1:H:263:ASP:OD2	2.02	0.58
1:H:268:MET:N	1:H:363:PRO:HD3	2.17	0.58
1:H:299:GLY:HA3	1:H:386:ILE:HG23	1.85	0.58
1:J:283:SER:O	1:J:291:SER:CB	2.45	0.58
1:K:280:ASN:H	1:K:280:ASN:HD22	1.49	0.58
1:K:359:ARG:O	1:K:360:PHE:HB3	2.03	0.58
1:L:365:ALA:O	1:L:367:PRO:HD3	2.03	0.58
1:A:58:LYS:HE3	1:B:359:ARG:HH22	1.66	0.58
1:A:296:TYR:HD1	1:A:385:LYS:C	2.06	0.58
1:A:338:ASN:ND2	1:A:395:ASN:H	1.99	0.58
1:B:296:TYR:HD1	1:B:385:LYS:C	2.06	0.58
1:B:337:ARG:O	1:B:338:ASN:C	2.41	0.58
1:C:106:SER:O	1:C:107:ILE:C	2.38	0.58
1:C:296:TYR:HD1	1:C:385:LYS:C	2.06	0.58
1:D:27:LYS:HZ2	1:D:239:LYS:CE	2.13	0.58
1:D:120:ILE:HD13	1:D:382:ILE:CG2	2.32	0.58
1:D:379:LEU:O	1:D:383:LYS:N	2.20	0.58
1:D:427:PHE:CE2	1:D:428:LEU:HD22	2.38	0.58
1:E:94:PRO:O	1:E:96:THR:HG23	2.02	0.58
1:E:337:ARG:O	1:E:338:ASN:C	2.41	0.58
1:F:94:PRO:O	1:F:96:THR:HG23	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:167:GLY:O	1:F:169:LYS:CD	2.52	0.58
1:G:20:ARG:HD2	1:G:237:ILE:HD13	1.83	0.58
1:G:96:THR:O	1:G:97:LEU:CG	2.46	0.58
1:H:167:GLY:O	1:H:169:LYS:CD	2.52	0.58
1:H:174:GLY:C	1:H:175:VAL:O	2.40	0.58
1:H:414:LEU:O	1:H:417:ALA:N	2.36	0.58
1:H:435:THR:HG22	1:H:436:ASP:N	2.19	0.58
1:I:157:ALA:H	1:I:215:THR:CG2	2.08	0.58
1:I:337:ARG:O	1:I:338:ASN:C	2.41	0.58
1:J:299:GLY:HA3	1:J:386:ILE:HG23	1.85	0.58
1:K:18:ASP:O	1:K:20:ARG:O	2.21	0.58
1:K:65:MET:HB3	1:K:67:LEU:CD2	2.10	0.58
1:K:376:MET:CE	1:K:433:VAL:HG21	2.33	0.58
1:L:68:MET:HE3	1:L:88:ARG:CB	2.25	0.58
1:L:296:TYR:HD1	1:L:385:LYS:C	2.06	0.58
1:L:427:PHE:CE2	1:L:428:LEU:HD22	2.38	0.58
1:A:92:LEU:CG	1:A:93:GLU:N	2.63	0.58
1:A:163:LYS:HA	1:F:139:ARG:HD2	1.85	0.58
1:A:461:GLU:OE1	1:G:317:ASN:HA	2.04	0.58
1:B:427:PHE:CE2	1:B:428:LEU:HD22	2.38	0.58
1:C:376:MET:CE	1:C:433:VAL:HG21	2.33	0.58
1:D:125:LEU:HD12	1:D:225:PHE:CD2	2.38	0.58
1:D:202:MET:HE2	1:D:202:MET:CA	2.31	0.58
1:E:167:GLY:O	1:E:169:LYS:CD	2.52	0.58
1:E:280:ASN:H	1:E:280:ASN:HD22	1.49	0.58
1:F:19:LEU:HD13	1:F:240:TYR:CD1	2.35	0.58
1:F:280:ASN:ND2	1:F:280:ASN:N	2.49	0.58
1:F:399:LEU:O	1:F:402:GLU:HB3	2.04	0.58
1:F:414:LEU:O	1:F:417:ALA:N	2.37	0.58
1:F:461:GLU:OE1	1:L:317:ASN:HA	2.04	0.58
1:G:163:LYS:HA	1:H:139:ARG:HD2	1.85	0.58
1:G:379:LEU:HD12	1:G:380:ASP:H	1.67	0.58
1:H:94:PRO:O	1:H:96:THR:HG23	2.02	0.58
1:H:280:ASN:ND2	1:H:280:ASN:N	2.49	0.58
1:H:338:ASN:ND2	1:H:395:ASN:H	1.99	0.58
1:H:359:ARG:O	1:H:360:PHE:HB3	2.03	0.58
1:I:94:PRO:O	1:I:96:THR:HG23	2.02	0.58
1:I:167:GLY:O	1:I:169:LYS:CD	2.52	0.58
1:I:339:ARG:O	1:I:340:SER:HB2	1.99	0.58
1:J:120:ILE:HD13	1:J:382:ILE:CG2	2.32	0.58
1:J:376:MET:CE	1:J:433:VAL:HG21	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:427:PHE:CE2	1:J:428:LEU:HD22	2.38	0.58
1:K:379:LEU:HD12	1:K:380:ASP:H	1.67	0.58
1:L:63:SER:HG	1:L:91:ILE:HG22	1.68	0.58
1:A:20:ARG:HD2	1:A:237:ILE:HD13	1.83	0.58
1:A:299:GLY:HA3	1:A:386:ILE:HG23	1.85	0.58
1:A:414:LEU:O	1:A:417:ALA:N	2.37	0.58
1:A:451:ASP:O	1:A:452:ARG:C	2.42	0.58
1:B:365:ALA:O	1:B:367:PRO:HD3	2.03	0.58
1:C:39:ASN:HD22	1:C:40:ALA:N	2.01	0.58
1:D:199:MET:HB3	1:D:204:LEU:HD12	1.86	0.58
1:E:57:TRP:HD1	1:E:58:LYS:H	1.51	0.58
1:E:214:ALA:HA	1:E:263:ASP:OD2	2.03	0.58
1:E:325:GLY:C	1:E:326:TYR:HD2	2.07	0.58
1:E:339:ARG:O	1:E:340:SER:HB2	1.99	0.58
1:E:365:ALA:O	1:E:367:PRO:HD3	2.03	0.58
1:E:376:MET:CE	1:E:433:VAL:HG21	2.33	0.58
1:F:54:ILE:CD1	1:F:102:ARG:CD	2.73	0.58
1:F:174:GLY:C	1:F:175:VAL:O	2.40	0.58
1:F:317:ASN:HA	1:L:461:GLU:OE1	2.04	0.58
1:F:379:LEU:O	1:F:383:LYS:N	2.20	0.58
1:F:398:ASP:O	1:F:402:GLU:HB3	2.03	0.58
1:G:92:LEU:CG	1:G:93:GLU:N	2.63	0.58
1:G:102:ARG:HB2	1:G:104:PRO:CD	2.11	0.58
1:G:299:GLY:HA3	1:G:386:ILE:HG23	1.85	0.58
1:G:414:LEU:O	1:G:417:ALA:N	2.37	0.58
1:G:451:ASP:O	1:G:452:ARG:C	2.42	0.58
1:G:464:LEU:HD23	1:G:465:TYR:H	1.67	0.58
1:H:72:SER:O	1:H:73:THR:HG22	2.04	0.58
1:H:398:ASP:O	1:H:402:GLU:HB3	2.03	0.58
1:I:57:TRP:HD1	1:I:58:LYS:H	1.51	0.58
1:I:325:GLY:C	1:I:326:TYR:HD2	2.07	0.58
1:I:376:MET:CE	1:I:433:VAL:HG21	2.33	0.58
1:J:75:VAL:CG1	1:J:78:PRO:CD	2.70	0.58
1:J:125:LEU:HD12	1:J:225:PHE:CD2	2.38	0.58
1:J:202:MET:HE2	1:J:202:MET:CA	2.31	0.58
1:J:280:ASN:H	1:J:280:ASN:HD22	1.49	0.58
1:J:325:GLY:C	1:J:326:TYR:HD2	2.07	0.58
1:K:39:ASN:HD22	1:K:40:ALA:N	2.01	0.58
1:A:102:ARG:HB2	1:A:104:PRO:CD	2.11	0.58
1:A:317:ASN:HA	1:G:461:GLU:OE1	2.04	0.58
1:A:464:LEU:HD23	1:A:465:TYR:H	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:280:ASN:C	1:B:282:PHE:N	2.51	0.58
1:B:317:ASN:HA	1:H:461:GLU:OE1	2.04	0.58
1:B:464:LEU:HD23	1:B:465:TYR:H	1.67	0.58
1:C:65:MET:HB3	1:C:67:LEU:CD2	2.10	0.58
1:C:71:ALA:HB3	1:C:86:ILE:CD1	2.33	0.58
1:C:202:MET:HE2	1:C:202:MET:CA	2.32	0.58
1:C:337:ARG:O	1:C:338:ASN:C	2.41	0.58
1:D:106:SER:O	1:D:107:ILE:C	2.38	0.58
1:D:464:LEU:HD23	1:D:465:TYR:H	1.67	0.58
1:E:23:ASP:CB	1:E:28:GLU:HA	2.34	0.58
1:E:72:SER:O	1:E:73:THR:HG22	2.04	0.58
1:E:398:ASP:O	1:E:402:GLU:HB3	2.03	0.58
1:E:414:LEU:O	1:E:417:ALA:N	2.36	0.58
1:F:19:LEU:CD1	1:F:240:TYR:CD1	2.87	0.58
1:H:19:LEU:CD1	1:H:240:TYR:CD1	2.87	0.58
1:H:54:ILE:CD1	1:H:102:ARG:CD	2.73	0.58
1:H:379:LEU:O	1:H:383:LYS:N	2.20	0.58
1:I:19:LEU:CD1	1:I:240:TYR:CD1	2.87	0.58
1:I:72:SER:O	1:I:73:THR:HG22	2.04	0.58
1:I:398:ASP:O	1:I:402:GLU:HB3	2.03	0.58
1:K:71:ALA:HB3	1:K:86:ILE:CD1	2.33	0.58
1:K:106:SER:O	1:K:107:ILE:C	2.39	0.58
1:L:280:ASN:C	1:L:282:PHE:N	2.51	0.58
1:L:335:SER:N	1:L:345:ILE:HD11	2.19	0.58
1:L:379:LEU:HD12	1:L:380:ASP:H	1.67	0.58
1:A:139:ARG:HD2	1:B:163:LYS:HA	1.85	0.58
1:A:202:MET:CA	1:A:202:MET:HE2	2.34	0.58
1:A:376:MET:CE	1:A:433:VAL:HG21	2.33	0.58
1:B:461:GLU:OE1	1:H:317:ASN:HA	2.04	0.58
1:C:1:SER:OG	1:C:2:ALA:N	2.34	0.58
1:C:296:TYR:HB3	1:C:381:GLY:C	2.24	0.58
1:C:339:ARG:O	1:C:340:SER:HB2	1.99	0.58
1:C:427:PHE:CE2	1:C:428:LEU:HD22	2.38	0.58
1:C:432:GLY:O	1:C:434:PHE:N	2.37	0.58
1:C:461:GLU:CG	1:I:316:THR:CG2	2.82	0.58
1:D:39:ASN:HD22	1:D:40:ALA:N	2.01	0.58
1:D:75:VAL:CG1	1:D:78:PRO:CD	2.71	0.58
1:D:451:ASP:O	1:D:452:ARG:C	2.42	0.58
1:E:19:LEU:CD1	1:E:240:TYR:CD1	2.87	0.58
1:E:68:MET:HE2	1:E:105:ARG:CD	2.33	0.58
1:E:317:ASN:HA	1:K:461:GLU:OE1	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:72:SER:O	1:F:73:THR:HG22	2.04	0.58
1:F:350:SER:C	1:F:352:LYS:N	2.55	0.58
1:F:435:THR:HG22	1:F:436:ASP:N	2.19	0.58
1:H:296:TYR:HB3	1:H:381:GLY:C	2.24	0.58
1:H:325:GLY:C	1:H:326:TYR:HD2	2.07	0.58
1:H:350:SER:C	1:H:352:LYS:N	2.55	0.58
1:H:432:GLY:O	1:H:434:PHE:N	2.37	0.58
1:I:23:ASP:CB	1:I:28:GLU:HA	2.34	0.58
1:I:296:TYR:HB3	1:I:381:GLY:C	2.24	0.58
1:I:365:ALA:O	1:I:367:PRO:HD3	2.03	0.58
1:I:414:LEU:O	1:I:417:ALA:N	2.37	0.58
1:I:437:GLU:O	1:I:438:ALA:C	2.42	0.58
1:J:335:SER:N	1:J:345:ILE:HD11	2.19	0.58
1:J:437:GLU:O	1:J:438:ALA:C	2.42	0.58
1:J:464:LEU:HD23	1:J:465:TYR:H	1.67	0.58
1:K:427:PHE:CE2	1:K:428:LEU:HD22	2.38	0.58
1:L:464:LEU:HD23	1:L:465:TYR:H	1.67	0.58
1:A:68:MET:HE1	1:A:88:ARG:HB2	1.84	0.58
1:A:167:GLY:O	1:A:169:LYS:CD	2.52	0.58
1:A:335:SER:N	1:A:345:ILE:HD11	2.19	0.58
1:C:19:LEU:CD1	1:C:240:TYR:CD1	2.87	0.58
1:C:299:GLY:HA3	1:C:386:ILE:HG23	1.85	0.58
1:C:379:LEU:HD12	1:C:380:ASP:H	1.68	0.58
1:D:167:GLY:O	1:D:169:LYS:CD	2.52	0.58
1:D:280:ASN:H	1:D:280:ASN:HD22	1.49	0.58
1:D:325:GLY:C	1:D:326:TYR:HD2	2.07	0.58
1:D:335:SER:N	1:D:345:ILE:HD11	2.19	0.58
1:D:337:ARG:O	1:D:338:ASN:C	2.41	0.58
1:D:437:GLU:O	1:D:438:ALA:C	2.42	0.58
1:E:157:ALA:H	1:E:215:THR:CG2	2.09	0.58
1:E:296:TYR:HB3	1:E:381:GLY:C	2.24	0.58
1:E:316:THR:CG2	1:K:461:GLU:CG	2.82	0.58
1:E:437:GLU:O	1:E:438:ALA:C	2.42	0.58
1:F:325:GLY:C	1:F:326:TYR:HD2	2.07	0.58
1:F:464:LEU:HD23	1:F:465:TYR:H	1.67	0.58
1:H:427:PHE:CE2	1:H:428:LEU:HD22	2.38	0.58
1:H:454:ARG:HG2	1:H:454:ARG:NH1	2.18	0.58
1:I:335:SER:N	1:I:345:ILE:HD11	2.19	0.58
1:I:454:ARG:HG2	1:I:454:ARG:NH1	2.18	0.58
1:J:167:GLY:O	1:J:169:LYS:CD	2.52	0.58
1:J:199:MET:HB3	1:J:204:LEU:HD12	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:337:ARG:O	1:K:338:ASN:C	2.41	0.58
1:K:432:GLY:O	1:K:434:PHE:N	2.37	0.58
1:K:435:THR:HG22	1:K:436:ASP:N	2.19	0.58
1:L:296:TYR:HB3	1:L:381:GLY:C	2.24	0.58
1:A:19:LEU:CD2	1:A:75:VAL:HG22	2.19	0.58
1:A:379:LEU:HD12	1:A:380:ASP:H	1.68	0.58
1:B:19:LEU:C	1:B:19:LEU:CD1	2.49	0.58
1:B:67:LEU:HD11	1:B:88:ARG:HB2	1.86	0.58
1:B:296:TYR:HB3	1:B:381:GLY:C	2.24	0.58
1:B:335:SER:N	1:B:345:ILE:HD11	2.19	0.58
1:C:167:GLY:O	1:C:169:LYS:CD	2.52	0.58
1:D:19:LEU:CD1	1:D:240:TYR:CD1	2.87	0.58
1:D:94:PRO:O	1:D:96:THR:HG23	2.02	0.58
1:D:296:TYR:HD1	1:D:385:LYS:C	2.06	0.58
1:E:454:ARG:HG2	1:E:454:ARG:NH1	2.18	0.58
1:F:296:TYR:HB3	1:F:381:GLY:C	2.24	0.58
1:F:427:PHE:CE2	1:F:428:LEU:HD22	2.38	0.58
1:F:432:GLY:O	1:F:434:PHE:N	2.37	0.58
1:F:454:ARG:HG2	1:F:454:ARG:NH1	2.18	0.58
1:G:19:LEU:CD1	1:G:240:TYR:CD1	2.87	0.58
1:G:139:ARG:HD2	1:L:163:LYS:HA	1.86	0.58
1:G:167:GLY:O	1:G:169:LYS:CD	2.52	0.58
1:G:335:SER:N	1:G:345:ILE:HD11	2.19	0.58
1:H:464:LEU:HD23	1:H:465:TYR:H	1.67	0.58
1:I:68:MET:HE2	1:I:105:ARG:CD	2.33	0.58
1:J:19:LEU:CD1	1:J:240:TYR:CD1	2.87	0.58
1:J:94:PRO:O	1:J:96:THR:HG23	2.02	0.58
1:J:128:PRO:CD	1:J:231:LYS:HD3	2.34	0.58
1:J:337:ARG:O	1:J:338:ASN:C	2.41	0.58
1:J:379:LEU:HD12	1:J:379:LEU:C	2.20	0.58
1:J:451:ASP:O	1:J:452:ARG:C	2.42	0.58
1:K:1:SER:OG	1:K:2:ALA:N	2.34	0.58
1:K:19:LEU:CD1	1:K:240:TYR:CD1	2.87	0.58
1:K:299:GLY:HA3	1:K:386:ILE:HG23	1.85	0.58
1:K:339:ARG:O	1:K:340:SER:HB2	1.99	0.58
1:L:19:LEU:C	1:L:19:LEU:CD1	2.49	0.58
1:L:67:LEU:HD11	1:L:88:ARG:HB2	1.86	0.58
1:L:125:LEU:HD12	1:L:225:PHE:CD2	2.38	0.58
1:L:414:LEU:O	1:L:417:ALA:N	2.36	0.58
1:L:435:THR:HG22	1:L:436:ASP:N	2.19	0.58
1:A:19:LEU:CD1	1:A:240:TYR:CD1	2.87	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:316:THR:CG2	1:G:461:GLU:CG	2.82	0.58
1:A:461:GLU:CG	1:G:316:THR:CG2	2.82	0.58
1:B:299:GLY:HA3	1:B:386:ILE:HG23	1.85	0.58
1:C:139:ARG:HG3	1:D:168:ASN:HB2	1.86	0.58
1:C:317:ASN:HA	1:I:461:GLU:OE1	2.04	0.58
1:D:128:PRO:CD	1:D:231:LYS:HD3	2.34	0.58
1:D:223:THR:HG22	1:D:231:LYS:HZ3	1.68	0.58
1:E:79:PHE:CG	1:E:80:PHE:CD1	2.84	0.58
1:F:171:HIS:ND1	1:K:467:SER:OG	2.31	0.58
1:G:296:TYR:HB3	1:G:381:GLY:C	2.24	0.58
1:G:460:VAL:O	1:G:463:GLU:N	2.37	0.58
1:H:451:ASP:O	1:H:452:ARG:C	2.42	0.58
1:J:39:ASN:HD22	1:J:40:ALA:N	2.02	0.58
1:J:296:TYR:HB3	1:J:381:GLY:C	2.24	0.58
1:K:167:GLY:O	1:K:169:LYS:CD	2.52	0.58
1:K:296:TYR:HB3	1:K:381:GLY:C	2.24	0.58
1:K:309:ASN:HB2	1:K:313:ASN:ND2	2.18	0.58
1:K:460:VAL:O	1:K:463:GLU:N	2.37	0.58
1:L:19:LEU:CD1	1:L:240:TYR:CD1	2.87	0.58
1:L:102:ARG:HB2	1:L:104:PRO:CD	2.11	0.58
1:L:299:GLY:HA3	1:L:386:ILE:HG23	1.85	0.58
1:A:125:LEU:HD12	1:A:225:PHE:CD2	2.38	0.58
1:A:309:ASN:HB2	1:A:313:ASN:ND2	2.18	0.58
1:A:427:PHE:CE2	1:A:428:LEU:HD22	2.38	0.58
1:A:460:VAL:O	1:A:463:GLU:N	2.37	0.58
1:B:19:LEU:CD1	1:B:240:TYR:CD1	2.87	0.58
1:B:125:LEU:HD12	1:B:225:PHE:CD2	2.38	0.58
1:B:167:GLY:O	1:B:169:LYS:CD	2.52	0.58
1:B:214:ALA:CA	1:B:263:ASP:OD2	2.52	0.58
1:B:379:LEU:HD12	1:B:380:ASP:H	1.67	0.58
1:B:435:THR:HG22	1:B:436:ASP:N	2.19	0.58
1:C:314:PRO:O	1:C:315:THR:C	2.42	0.58
1:D:296:TYR:HB3	1:D:381:GLY:C	2.24	0.58
1:D:399:LEU:O	1:D:402:GLU:HB3	2.03	0.58
1:E:335:SER:N	1:E:345:ILE:HD11	2.19	0.58
1:E:451:ASP:O	1:E:452:ARG:C	2.42	0.58
1:F:451:ASP:O	1:F:452:ARG:C	2.42	0.58
1:G:19:LEU:CD2	1:G:75:VAL:HG22	2.19	0.58
1:G:68:MET:HE1	1:G:88:ARG:HB2	1.84	0.58
1:G:214:ALA:CA	1:G:263:ASP:OD2	2.52	0.58
1:G:309:ASN:HB2	1:G:313:ASN:ND2	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:214:ALA:CA	1:H:263:ASP:OD2	2.52	0.58
1:I:103:ASP:N	1:I:104:PRO:CD	2.60	0.58
1:I:168:ASN:HB2	1:J:139:ARG:HG3	1.86	0.58
1:I:451:ASP:O	1:I:452:ARG:C	2.42	0.58
1:K:314:PRO:O	1:K:315:THR:C	2.42	0.58
1:L:39:ASN:HD21	1:L:42:PHE:H	1.52	0.58
1:L:283:SER:O	1:L:291:SER:CB	2.45	0.58
1:L:376:MET:CE	1:L:433:VAL:HG21	2.33	0.58
1:A:17:VAL:HG13	1:A:33:ILE:HB	1.86	0.57
1:A:228:MET:HE1	1:A:371:PHE:C	2.25	0.57
1:A:296:TYR:HB3	1:A:381:GLY:C	2.24	0.57
1:A:432:GLY:O	1:A:434:PHE:N	2.37	0.57
1:B:39:ASN:HD21	1:B:42:PHE:H	1.52	0.57
1:B:71:ALA:HB3	1:B:86:ILE:CD1	2.33	0.57
1:B:314:PRO:O	1:B:315:THR:C	2.42	0.57
1:C:125:LEU:HD12	1:C:225:PHE:CD2	2.38	0.57
1:C:214:ALA:CA	1:C:263:ASP:OD2	2.52	0.57
1:C:309:ASN:HB2	1:C:313:ASN:ND2	2.18	0.57
1:C:435:THR:HG22	1:C:436:ASP:N	2.19	0.57
1:C:461:GLU:OE1	1:I:317:ASN:HA	2.04	0.57
1:D:105:ARG:NH2	1:D:233:ASP:CG	2.55	0.57
1:D:139:ARG:HG3	1:E:168:ASN:HB2	1.86	0.57
1:D:379:LEU:HD12	1:D:379:LEU:C	2.20	0.57
1:D:427:PHE:CZ	1:D:428:LEU:HD22	2.39	0.57
1:D:458:HIS:HE1	1:J:456:THR:O	1.87	0.57
1:D:461:GLU:OE1	1:J:317:ASN:HA	2.04	0.57
1:F:456:THR:O	1:L:458:HIS:HE1	1.87	0.57
1:G:125:LEU:HD12	1:G:225:PHE:CD2	2.38	0.57
1:G:399:LEU:O	1:G:402:GLU:HB3	2.03	0.57
1:H:168:ASN:HB2	1:I:139:ARG:HG3	1.86	0.57
1:H:376:MET:CE	1:H:433:VAL:HG21	2.33	0.57
1:I:435:THR:HG22	1:I:436:ASP:N	2.18	0.57
1:J:71:ALA:HB3	1:J:86:ILE:CD1	2.33	0.57
1:J:168:ASN:HB2	1:K:139:ARG:HG3	1.86	0.57
1:K:39:ASN:HD21	1:K:42:PHE:H	1.52	0.57
1:K:125:LEU:HD12	1:K:225:PHE:CD2	2.38	0.57
1:K:128:PRO:CD	1:K:231:LYS:HD3	2.34	0.57
1:L:167:GLY:O	1:L:169:LYS:CD	2.52	0.57
1:L:314:PRO:O	1:L:315:THR:C	2.42	0.57
1:A:71:ALA:HB3	1:A:86:ILE:CD1	2.33	0.57
1:A:72:SER:O	1:A:73:THR:HG22	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:214:ALA:CA	1:A:263:ASP:OD2	2.52	0.57
1:A:348:VAL:HB	1:A:354:ARG:NH1	2.19	0.57
1:B:139:ARG:HG3	1:C:168:ASN:HB2	1.86	0.57
1:B:348:VAL:HB	1:B:354:ARG:NH1	2.19	0.57
1:B:414:LEU:O	1:B:417:ALA:N	2.37	0.57
1:C:39:ASN:HD21	1:C:42:PHE:H	1.52	0.57
1:C:128:PRO:CD	1:C:231:LYS:HD3	2.34	0.57
1:C:139:ARG:HD2	1:D:163:LYS:HA	1.85	0.57
1:C:460:VAL:O	1:C:463:GLU:N	2.37	0.57
1:D:256:MET:HE2	1:J:466:TYR:HA	1.85	0.57
1:D:316:THR:CG2	1:J:461:GLU:CG	2.82	0.57
1:D:432:GLY:O	1:D:434:PHE:N	2.37	0.57
1:D:456:THR:O	1:J:458:HIS:HE1	1.87	0.57
1:E:139:ARG:HD2	1:F:163:LYS:HA	1.85	0.57
1:E:139:ARG:HG3	1:F:168:ASN:HB2	1.86	0.57
1:E:461:GLU:OE1	1:K:317:ASN:HA	2.04	0.57
1:F:199:MET:HB3	1:F:204:LEU:HD12	1.86	0.57
1:F:214:ALA:CA	1:F:263:ASP:OD2	2.52	0.57
1:F:376:MET:CE	1:F:433:VAL:HG21	2.33	0.57
1:F:460:VAL:O	1:F:463:GLU:N	2.37	0.57
1:G:17:VAL:HG13	1:G:33:ILE:HB	1.86	0.57
1:H:163:LYS:HA	1:I:139:ARG:HD2	1.85	0.57
1:I:199:MET:HB3	1:I:204:LEU:HD12	1.86	0.57
1:J:72:SER:O	1:J:73:THR:HG22	2.04	0.57
1:J:157:ALA:H	1:J:215:THR:CG2	2.09	0.57
1:J:399:LEU:O	1:J:402:GLU:HB3	2.04	0.57
1:J:414:LEU:O	1:J:417:ALA:N	2.36	0.57
1:J:427:PHE:CZ	1:J:428:LEU:HD22	2.40	0.57
1:K:168:ASN:HB2	1:L:139:ARG:HG3	1.86	0.57
1:K:199:MET:HB3	1:K:204:LEU:HD12	1.86	0.57
1:K:335:SER:N	1:K:345:ILE:HD11	2.19	0.57
1:K:451:ASP:O	1:K:452:ARG:C	2.42	0.57
1:L:214:ALA:CA	1:L:263:ASP:OD2	2.52	0.57
1:A:105:ARG:NH2	1:A:233:ASP:CG	2.55	0.57
1:B:102:ARG:HB2	1:B:104:PRO:CD	2.11	0.57
1:B:283:SER:O	1:B:291:SER:CB	2.45	0.57
1:C:335:SER:N	1:C:345:ILE:HD11	2.19	0.57
1:C:456:THR:O	1:I:458:HIS:HE1	1.87	0.57
1:C:458:HIS:HE1	1:I:456:THR:O	1.87	0.57
1:D:71:ALA:HB3	1:D:86:ILE:CD1	2.33	0.57
1:E:214:ALA:CA	1:E:263:ASP:OD2	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:432:GLY:O	1:E:434:PHE:N	2.37	0.57
1:E:435:THR:HG22	1:E:436:ASP:N	2.19	0.57
1:E:458:HIS:HE1	1:K:456:THR:O	1.87	0.57
1:E:460:VAL:O	1:E:463:GLU:N	2.37	0.57
1:F:402:GLU:C	1:F:404:ALA:H	2.08	0.57
1:G:67:LEU:HD11	1:G:88:ARG:HB2	1.86	0.57
1:G:71:ALA:HB3	1:G:86:ILE:CD1	2.33	0.57
1:G:105:ARG:NH2	1:G:233:ASP:CG	2.55	0.57
1:G:427:PHE:CE2	1:G:428:LEU:HD22	2.38	0.57
1:G:435:THR:HG22	1:G:436:ASP:N	2.19	0.57
1:H:348:VAL:HB	1:H:354:ARG:NH1	2.19	0.57
1:H:402:GLU:C	1:H:404:ALA:H	2.08	0.57
1:H:460:VAL:O	1:H:463:GLU:N	2.37	0.57
1:I:174:GLY:C	1:I:175:VAL:O	2.40	0.57
1:I:214:ALA:CA	1:I:263:ASP:OD2	2.52	0.57
1:J:163:LYS:HA	1:K:139:ARG:HD2	1.85	0.57
1:J:296:TYR:HD1	1:J:385:LYS:C	2.06	0.57
1:J:432:GLY:O	1:J:434:PHE:N	2.37	0.57
1:K:67:LEU:HD11	1:K:88:ARG:HB2	1.86	0.57
1:K:76:ILE:CD1	1:K:202:MET:HE3	2.24	0.57
1:K:92:LEU:CG	1:K:93:GLU:N	2.63	0.57
1:K:214:ALA:CA	1:K:263:ASP:OD2	2.52	0.57
1:L:17:VAL:HG13	1:L:33:ILE:HB	1.86	0.57
1:A:325:GLY:C	1:A:326:TYR:HD2	2.07	0.57
1:A:325:GLY:CA	1:A:328:ALA:HB3	2.34	0.57
1:A:399:LEU:O	1:A:402:GLU:HB3	2.04	0.57
1:A:435:THR:HG22	1:A:436:ASP:N	2.19	0.57
1:B:17:VAL:HG13	1:B:33:ILE:HB	1.86	0.57
1:B:257:PRO:O	1:B:265:GLY:CA	2.53	0.57
1:B:376:MET:CE	1:B:433:VAL:HG21	2.33	0.57
1:B:399:LEU:O	1:B:402:GLU:HB3	2.04	0.57
1:B:427:PHE:CZ	1:B:428:LEU:HD22	2.40	0.57
1:B:437:GLU:O	1:B:438:ALA:C	2.42	0.57
1:C:348:VAL:HB	1:C:354:ARG:NH1	2.19	0.57
1:C:467:SER:OG	1:H:171:HIS:ND1	2.31	0.57
1:D:49:PHE:N	1:D:49:PHE:CD2	2.71	0.57
1:D:72:SER:O	1:D:73:THR:HG22	2.04	0.57
1:D:92:LEU:CG	1:D:93:GLU:N	2.63	0.57
1:D:214:ALA:CA	1:D:263:ASP:OD2	2.52	0.57
1:D:461:GLU:CG	1:J:316:THR:CG2	2.82	0.57
1:E:96:THR:O	1:E:97:LEU:CG	2.46	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:199:MET:HB3	1:E:204:LEU:HD12	1.86	0.57
1:E:456:THR:O	1:K:458:HIS:HE1	1.87	0.57
1:F:335:SER:N	1:F:345:ILE:HD11	2.19	0.57
1:F:348:VAL:HB	1:F:354:ARG:NH1	2.19	0.57
1:G:39:ASN:HD22	1:G:40:ALA:N	2.01	0.57
1:G:72:SER:O	1:G:73:THR:HG22	2.04	0.57
1:G:199:MET:HB3	1:G:204:LEU:HD12	1.86	0.57
1:G:325:GLY:CA	1:G:328:ALA:HB3	2.34	0.57
1:G:348:VAL:HB	1:G:354:ARG:NH1	2.19	0.57
1:G:432:GLY:O	1:G:434:PHE:N	2.37	0.57
1:I:16:PHE:CD1	1:I:79:PHE:CE1	2.92	0.57
1:I:39:ASN:HD22	1:I:40:ALA:N	2.01	0.57
1:K:348:VAL:HB	1:K:354:ARG:NH1	2.19	0.57
1:L:71:ALA:HB3	1:L:86:ILE:CD1	2.34	0.57
1:L:432:GLY:O	1:L:434:PHE:N	2.37	0.57
1:L:437:GLU:O	1:L:438:ALA:C	2.42	0.57
1:A:67:LEU:HD11	1:A:88:ARG:HB2	1.86	0.57
1:B:316:THR:CG2	1:H:461:GLU:CG	2.82	0.57
1:B:432:GLY:O	1:B:434:PHE:N	2.37	0.57
1:B:461:GLU:CG	1:H:316:THR:CG2	2.82	0.57
1:C:67:LEU:HD11	1:C:88:ARG:HB2	1.86	0.57
1:C:427:PHE:CZ	1:C:428:LEU:HD22	2.40	0.57
1:C:451:ASP:O	1:C:452:ARG:C	2.42	0.57
1:D:414:LEU:O	1:D:417:ALA:N	2.37	0.57
1:D:460:VAL:O	1:D:463:GLU:N	2.37	0.57
1:E:16:PHE:CD1	1:E:79:PHE:CE1	2.92	0.57
1:E:17:VAL:HG13	1:E:33:ILE:HB	1.86	0.57
1:E:174:GLY:C	1:E:175:VAL:O	2.40	0.57
1:F:6:LEU:O	1:F:7:THR:C	2.40	0.57
1:G:325:GLY:C	1:G:326:TYR:HD2	2.07	0.57
1:H:238:TYR:O	1:H:242:VAL:HG23	2.05	0.57
1:H:335:SER:N	1:H:345:ILE:HD11	2.19	0.57
1:I:17:VAL:HG13	1:I:33:ILE:HB	1.86	0.57
1:I:432:GLY:O	1:I:434:PHE:N	2.37	0.57
1:J:49:PHE:N	1:J:49:PHE:CD2	2.71	0.57
1:J:105:ARG:NH2	1:J:233:ASP:CG	2.55	0.57
1:K:156:GLY:HA2	1:K:215:THR:HB	1.86	0.57
1:K:267:GLY:HA2	1:K:363:PRO:HD2	1.87	0.57
1:K:427:PHE:CZ	1:K:428:LEU:HD22	2.40	0.57
1:L:257:PRO:O	1:L:265:GLY:CA	2.53	0.57
1:L:348:VAL:HB	1:L:354:ARG:NH1	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:186:ASP:C	1:A:188:ALA:N	2.52	0.57
1:A:199:MET:HB3	1:A:204:LEU:HD12	1.86	0.57
1:A:283:SER:O	1:A:291:SER:CB	2.45	0.57
1:B:39:ASN:HD22	1:B:40:ALA:N	2.01	0.57
1:B:335:SER:CA	1:B:345:ILE:HD11	2.35	0.57
1:B:418:LEU:HD11	1:B:446:ARG:HB2	1.87	0.57
1:B:454:ARG:HG2	1:B:454:ARG:NH1	2.18	0.57
1:B:458:HIS:HE1	1:H:456:THR:O	1.87	0.57
1:C:27:LYS:HZ2	1:C:239:LYS:HE3	1.70	0.57
1:C:92:LEU:CG	1:C:93:GLU:N	2.63	0.57
1:C:199:MET:HB3	1:C:204:LEU:HD12	1.86	0.57
1:C:414:LEU:O	1:C:417:ALA:N	2.37	0.57
1:E:103:ASP:N	1:E:104:PRO:CD	2.60	0.57
1:E:315:THR:CG2	1:K:465:TYR:HE2	2.04	0.57
1:F:20:ARG:CG	1:F:28:GLU:CD	2.60	0.57
1:F:68:MET:HE1	1:F:105:ARG:HD3	1.86	0.57
1:F:71:ALA:HB3	1:F:86:ILE:CD1	2.33	0.57
1:F:238:TYR:O	1:F:242:VAL:HG23	2.05	0.57
1:F:461:GLU:CG	1:L:316:THR:CG2	2.82	0.57
1:G:283:SER:O	1:G:291:SER:CB	2.45	0.57
1:H:17:VAL:HG13	1:H:33:ILE:HB	1.86	0.57
1:H:68:MET:HE1	1:H:105:ARG:HD3	1.86	0.57
1:H:437:GLU:O	1:H:438:ALA:C	2.42	0.57
1:I:71:ALA:HB3	1:I:86:ILE:CD1	2.33	0.57
1:I:399:LEU:O	1:I:402:GLU:HB3	2.03	0.57
1:I:427:PHE:CZ	1:I:428:LEU:HD22	2.40	0.57
1:I:460:VAL:O	1:I:463:GLU:N	2.37	0.57
1:J:92:LEU:CG	1:J:93:GLU:N	2.63	0.57
1:J:103:ASP:N	1:J:104:PRO:CD	2.60	0.57
1:J:339:ARG:O	1:J:340:SER:HB2	1.99	0.57
1:J:460:VAL:O	1:J:463:GLU:N	2.37	0.57
1:K:27:LYS:HZ2	1:K:239:LYS:HE3	1.70	0.57
1:L:427:PHE:CZ	1:L:428:LEU:HD22	2.40	0.57
1:A:39:ASN:HD22	1:A:40:ALA:N	2.02	0.57
1:A:39:ASN:HD21	1:A:42:PHE:H	1.52	0.57
1:A:168:ASN:HB2	1:F:139:ARG:HG3	1.86	0.57
1:C:16:PHE:CD1	1:C:79:PHE:CE1	2.92	0.57
1:C:72:SER:O	1:C:73:THR:HG22	2.04	0.57
1:C:156:GLY:HA2	1:C:215:THR:HB	1.87	0.57
1:C:238:TYR:O	1:C:242:VAL:HG23	2.05	0.57
1:C:437:GLU:O	1:C:438:ALA:C	2.42	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:20:ARG:NH1	1:D:86:ILE:CG2	2.51	0.57
1:D:157:ALA:H	1:D:215:THR:CG2	2.09	0.57
1:D:317:ASN:HA	1:J:461:GLU:OE1	2.04	0.57
1:E:39:ASN:HD22	1:E:40:ALA:N	2.01	0.57
1:E:71:ALA:HB3	1:E:86:ILE:CD1	2.33	0.57
1:E:295:LEU:H	1:E:295:LEU:HD12	1.70	0.57
1:E:399:LEU:O	1:E:402:GLU:HB3	2.04	0.57
1:E:402:GLU:C	1:E:404:ALA:H	2.08	0.57
1:E:427:PHE:CZ	1:E:428:LEU:HD22	2.40	0.57
1:F:314:PRO:O	1:F:315:THR:C	2.42	0.57
1:F:316:THR:CG2	1:L:461:GLU:CG	2.82	0.57
1:F:335:SER:CA	1:F:345:ILE:HD11	2.35	0.57
1:F:437:GLU:O	1:F:438:ALA:C	2.42	0.57
1:G:39:ASN:HD21	1:G:42:PHE:H	1.52	0.57
1:H:71:ALA:HB3	1:H:86:ILE:CD1	2.34	0.57
1:I:67:LEU:CD1	1:I:88:ARG:HH11	2.18	0.57
1:I:402:GLU:C	1:I:404:ALA:H	2.08	0.57
1:J:109:LYS:O	1:J:110:ARG:O	2.23	0.57
1:J:214:ALA:CA	1:J:263:ASP:OD2	2.52	0.57
1:J:348:VAL:HB	1:J:354:ARG:NH1	2.19	0.57
1:K:67:LEU:CD1	1:K:88:ARG:HH11	2.18	0.57
1:K:238:TYR:O	1:K:242:VAL:HG23	2.05	0.57
1:K:414:LEU:O	1:K:417:ALA:N	2.37	0.57
1:L:72:SER:O	1:L:73:THR:HG22	2.03	0.57
1:L:335:SER:CA	1:L:345:ILE:HD11	2.35	0.57
1:L:399:LEU:O	1:L:402:GLU:HB3	2.04	0.57
1:L:418:LEU:HD11	1:L:446:ARG:HB2	1.87	0.57
1:A:402:GLU:C	1:A:404:ALA:H	2.08	0.57
1:C:335:SER:CA	1:C:345:ILE:HD11	2.35	0.57
1:C:465:TYR:HE2	1:I:315:THR:CG2	2.04	0.57
1:D:139:ARG:HD2	1:E:163:LYS:HA	1.85	0.57
1:E:27:LYS:HZ3	1:E:239:LYS:HZ2	1.34	0.57
1:E:67:LEU:CD1	1:E:88:ARG:HH11	2.18	0.57
1:F:17:VAL:HG13	1:F:33:ILE:HB	1.86	0.57
1:G:168:ASN:HB2	1:H:139:ARG:HG3	1.86	0.57
1:H:6:LEU:O	1:H:7:THR:C	2.40	0.57
1:H:42:PHE:CE2	1:H:66:VAL:HG21	2.40	0.57
1:I:96:THR:O	1:I:97:LEU:CG	2.46	0.57
1:I:295:LEU:H	1:I:295:LEU:HD12	1.70	0.57
1:I:435:THR:HG21	1:I:437:GLU:HG2	1.87	0.57
1:J:39:ASN:HD21	1:J:42:PHE:H	1.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:325:GLY:CA	1:J:328:ALA:HB3	2.34	0.57
1:K:335:SER:CA	1:K:345:ILE:HD11	2.35	0.57
1:C:57:TRP:HD1	1:C:58:LYS:H	1.51	0.57
1:C:67:LEU:CD1	1:C:88:ARG:HH11	2.18	0.57
1:D:325:GLY:CA	1:D:328:ALA:HB3	2.34	0.57
1:D:339:ARG:O	1:D:340:SER:HB2	1.99	0.57
1:D:348:VAL:HB	1:D:354:ARG:NH1	2.20	0.57
1:E:92:LEU:CG	1:E:93:GLU:N	2.63	0.57
1:E:325:GLY:CA	1:E:328:ALA:HB3	2.34	0.57
1:E:376:MET:HE1	1:E:433:VAL:CG1	2.22	0.57
1:F:85:LEU:C	1:F:85:LEU:HD12	2.25	0.57
1:F:109:LYS:O	1:F:110:ARG:O	2.23	0.57
1:F:257:PRO:O	1:F:265:GLY:CA	2.53	0.57
1:G:202:MET:HE2	1:G:202:MET:CA	2.35	0.57
1:H:109:LYS:O	1:H:110:ARG:O	2.23	0.57
1:H:156:GLY:HA2	1:H:215:THR:HB	1.86	0.57
1:H:257:PRO:O	1:H:265:GLY:CA	2.53	0.57
1:I:85:LEU:C	1:I:85:LEU:HD12	2.25	0.57
1:I:163:LYS:HA	1:J:139:ARG:HD2	1.86	0.57
1:I:325:GLY:CA	1:I:328:ALA:HB3	2.34	0.57
1:J:6:LEU:O	1:J:7:THR:C	2.40	0.57
1:J:295:LEU:H	1:J:295:LEU:HD12	1.70	0.57
1:K:16:PHE:CD1	1:K:79:PHE:CE1	2.92	0.57
1:K:57:TRP:HD1	1:K:58:LYS:H	1.51	0.57
1:K:72:SER:O	1:K:73:THR:HG22	2.04	0.57
1:K:399:LEU:O	1:K:402:GLU:HB3	2.04	0.57
1:K:437:GLU:O	1:K:438:ALA:C	2.42	0.57
1:L:39:ASN:HD22	1:L:40:ALA:N	2.02	0.57
1:L:454:ARG:HG2	1:L:454:ARG:NH1	2.18	0.57
1:A:128:PRO:CD	1:A:231:LYS:HD3	2.34	0.57
1:A:437:GLU:O	1:A:438:ALA:C	2.42	0.57
1:B:67:LEU:CD1	1:B:88:ARG:HH11	2.18	0.57
1:C:267:GLY:HA2	1:C:363:PRO:HD2	1.87	0.57
1:C:399:LEU:O	1:C:402:GLU:HB3	2.04	0.57
1:C:418:LEU:HD11	1:C:446:ARG:HB2	1.86	0.57
1:D:39:ASN:HD21	1:D:42:PHE:H	1.53	0.57
1:D:67:LEU:CD1	1:D:88:ARG:HH11	2.18	0.57
1:D:103:ASP:N	1:D:104:PRO:CD	2.60	0.57
1:E:85:LEU:C	1:E:85:LEU:HD12	2.26	0.57
1:E:128:PRO:CD	1:E:231:LYS:HD3	2.34	0.57
1:E:435:THR:HG21	1:E:437:GLU:HG2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:42:PHE:CE2	1:F:66:VAL:HG21	2.40	0.57
1:F:156:GLY:HA2	1:F:215:THR:HB	1.86	0.57
1:G:128:PRO:CD	1:G:231:LYS:HD3	2.34	0.57
1:H:16:PHE:CD1	1:H:79:PHE:CE1	2.92	0.57
1:H:90:ASP:O	1:H:91:ILE:O	2.21	0.57
1:H:102:ARG:HB2	1:H:104:PRO:CD	2.11	0.57
1:H:314:PRO:O	1:H:315:THR:C	2.42	0.57
1:H:335:SER:CA	1:H:345:ILE:HD11	2.35	0.57
1:I:92:LEU:CG	1:I:93:GLU:N	2.63	0.57
1:I:128:PRO:CD	1:I:231:LYS:HD3	2.34	0.57
1:I:315:THR:O	1:I:318:SER:N	2.37	0.57
1:J:435:THR:HG22	1:J:436:ASP:N	2.19	0.57
1:K:19:LEU:HD13	1:K:240:TYR:CD1	2.35	0.57
1:K:325:GLY:C	1:K:326:TYR:HD2	2.07	0.57
1:K:418:LEU:HD11	1:K:446:ARG:HB2	1.87	0.57
1:A:238:TYR:O	1:A:242:VAL:HG23	2.05	0.56
1:A:315:THR:O	1:A:318:SER:N	2.37	0.56
1:B:72:SER:O	1:B:73:THR:HG22	2.04	0.56
1:B:128:PRO:CD	1:B:231:LYS:HD3	2.34	0.56
1:C:68:MET:HE1	1:C:88:ARG:HA	1.87	0.56
1:C:325:GLY:C	1:C:326:TYR:HD2	2.07	0.56
1:C:464:LEU:HD23	1:C:465:TYR:H	1.67	0.56
1:D:85:LEU:C	1:D:85:LEU:HD12	2.25	0.56
1:D:109:LYS:O	1:D:110:ARG:O	2.23	0.56
1:D:156:GLY:HA2	1:D:215:THR:HB	1.86	0.56
1:D:295:LEU:H	1:D:295:LEU:HD12	1.70	0.56
1:E:109:LYS:O	1:E:110:ARG:O	2.23	0.56
1:E:348:VAL:HB	1:E:354:ARG:NH1	2.19	0.56
1:F:16:PHE:CD1	1:F:79:PHE:CE1	2.92	0.56
1:G:67:LEU:CD1	1:G:88:ARG:HH11	2.17	0.56
1:G:315:THR:O	1:G:318:SER:N	2.37	0.56
1:G:350:SER:C	1:G:352:LYS:N	2.55	0.56
1:G:402:GLU:C	1:G:404:ALA:H	2.08	0.56
1:G:437:GLU:O	1:G:438:ALA:C	2.42	0.56
1:I:63:SER:HG	1:I:91:ILE:HG22	1.70	0.56
1:I:79:PHE:CE1	1:I:80:PHE:HB2	2.40	0.56
1:I:156:GLY:HA2	1:I:215:THR:HB	1.86	0.56
1:I:296:TYR:N	1:I:296:TYR:CD2	2.70	0.56
1:J:20:ARG:NH1	1:J:86:ILE:CG2	2.51	0.56
1:J:67:LEU:CD1	1:J:88:ARG:HH11	2.18	0.56
1:J:85:LEU:C	1:J:85:LEU:HD12	2.25	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:156:GLY:HA2	1:J:215:THR:HB	1.86	0.56
1:K:17:VAL:HG13	1:K:33:ILE:HB	1.86	0.56
1:K:126:PHE:CE1	1:K:228:MET:HE3	2.40	0.56
1:K:163:LYS:HA	1:L:139:ARG:HD2	1.85	0.56
1:L:67:LEU:CD1	1:L:88:ARG:HH11	2.18	0.56
1:L:85:LEU:C	1:L:85:LEU:HD12	2.25	0.56
1:L:460:VAL:O	1:L:463:GLU:N	2.37	0.56
1:A:114:TYR:CD1	1:A:115:LEU:N	2.74	0.56
1:A:139:ARG:HG3	1:B:168:ASN:HB2	1.86	0.56
1:A:314:PRO:O	1:A:315:THR:C	2.42	0.56
1:A:427:PHE:CZ	1:A:428:LEU:HD22	2.40	0.56
1:B:85:LEU:C	1:B:85:LEU:HD12	2.26	0.56
1:B:224:ARG:O	1:B:231:LYS:NZ	2.39	0.56
1:B:238:TYR:O	1:B:242:VAL:HG23	2.05	0.56
1:C:103:ASP:HB3	1:C:106:SER:HB2	1.88	0.56
1:C:126:PHE:CE1	1:C:228:MET:HE3	2.40	0.56
1:C:165:GLU:C	1:C:167:GLY:N	2.55	0.56
1:C:295:LEU:HD12	1:C:295:LEU:H	1.70	0.56
1:C:316:THR:CG2	1:I:461:GLU:CG	2.82	0.56
1:D:17:VAL:HG13	1:D:33:ILE:HB	1.86	0.56
1:D:435:THR:HG22	1:D:436:ASP:N	2.19	0.56
1:E:63:SER:HG	1:E:91:ILE:HG22	1.70	0.56
1:E:315:THR:O	1:E:318:SER:N	2.37	0.56
1:F:2:ALA:O	1:F:6:LEU:CB	2.49	0.56
1:F:39:ASN:HD22	1:F:40:ALA:N	2.01	0.56
1:G:114:TYR:CD1	1:G:115:LEU:N	2.74	0.56
1:G:139:ARG:HG3	1:L:168:ASN:HB2	1.86	0.56
1:G:314:PRO:O	1:G:315:THR:C	2.42	0.56
1:G:427:PHE:CZ	1:G:428:LEU:HD22	2.40	0.56
1:H:20:ARG:CG	1:H:28:GLU:CD	2.60	0.56
1:H:85:LEU:C	1:H:85:LEU:HD12	2.26	0.56
1:H:128:PRO:CD	1:H:231:LYS:HD3	2.34	0.56
1:H:199:MET:HB3	1:H:204:LEU:HD12	1.86	0.56
1:H:309:ASN:HB2	1:H:313:ASN:ND2	2.18	0.56
1:I:89:CYS:HB2	1:I:103:ASP:OD1	2.05	0.56
1:I:348:VAL:HB	1:I:354:ARG:NH1	2.20	0.56
1:J:17:VAL:HG13	1:J:33:ILE:HB	1.86	0.56
1:J:67:LEU:HD11	1:J:88:ARG:HB2	1.86	0.56
1:J:267:GLY:HA2	1:J:363:PRO:HD2	1.87	0.56
1:K:165:GLU:C	1:K:167:GLY:N	2.55	0.56
1:L:114:TYR:HD1	1:L:115:LEU:N	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:238:TYR:O	1:L:242:VAL:HG23	2.05	0.56
1:L:399:LEU:CB	1:L:402:GLU:HB2	2.36	0.56
1:A:57:TRP:HD1	1:A:58:LYS:H	1.51	0.56
1:A:109:LYS:O	1:A:110:ARG:O	2.23	0.56
1:A:171:HIS:ND1	1:L:467:SER:OG	2.31	0.56
1:A:257:PRO:O	1:A:265:GLY:CA	2.53	0.56
1:A:335:SER:CA	1:A:345:ILE:HD11	2.35	0.56
1:B:139:ARG:HD2	1:C:163:LYS:HA	1.86	0.56
1:B:156:GLY:HA2	1:B:215:THR:HB	1.86	0.56
1:B:267:GLY:HA2	1:B:363:PRO:HD2	1.87	0.56
1:B:399:LEU:CB	1:B:402:GLU:HB2	2.36	0.56
1:B:402:GLU:C	1:B:404:ALA:H	2.08	0.56
1:B:456:THR:O	1:H:458:HIS:HE1	1.87	0.56
1:B:460:VAL:O	1:B:463:GLU:N	2.37	0.56
1:C:17:VAL:HG13	1:C:33:ILE:HB	1.86	0.56
1:C:114:TYR:HD1	1:C:115:LEU:N	2.04	0.56
1:C:192:ARG:O	1:C:195:MET:N	2.38	0.56
1:C:199:MET:HE2	1:C:238:TYR:CD2	2.40	0.56
1:D:6:LEU:O	1:D:7:THR:C	2.41	0.56
1:D:67:LEU:HD11	1:D:88:ARG:HB2	1.86	0.56
1:D:103:ASP:HB3	1:D:106:SER:HB2	1.88	0.56
1:D:192:ARG:O	1:D:195:MET:N	2.38	0.56
1:D:305:ALA:HA	1:D:308:ILE:HG13	1.88	0.56
1:D:335:SER:CA	1:D:345:ILE:HD11	2.35	0.56
1:E:42:PHE:CE2	1:E:66:VAL:HG21	2.40	0.56
1:E:63:SER:OG	1:E:90:ASP:O	2.16	0.56
1:E:79:PHE:CE1	1:E:80:PHE:HB2	2.40	0.56
1:E:89:CYS:HB2	1:E:103:ASP:OD1	2.05	0.56
1:E:156:GLY:HA2	1:E:215:THR:HB	1.86	0.56
1:E:296:TYR:N	1:E:296:TYR:CD2	2.70	0.56
1:E:461:GLU:CG	1:K:316:THR:CG2	2.82	0.56
1:F:19:LEU:HD22	1:F:240:TYR:HH	1.69	0.56
1:F:90:ASP:O	1:F:91:ILE:O	2.21	0.56
1:F:102:ARG:HB2	1:F:104:PRO:CD	2.11	0.56
1:F:114:TYR:HD1	1:F:115:LEU:N	2.04	0.56
1:F:295:LEU:H	1:F:295:LEU:HD12	1.70	0.56
1:G:79:PHE:CE1	1:G:80:PHE:HB2	2.40	0.56
1:G:109:LYS:O	1:G:110:ARG:O	2.23	0.56
1:G:238:TYR:O	1:G:242:VAL:HG23	2.05	0.56
1:G:257:PRO:O	1:G:265:GLY:CA	2.53	0.56
1:G:335:SER:CA	1:G:345:ILE:HD11	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:2:ALA:O	1:H:6:LEU:CB	2.49	0.56
1:H:39:ASN:HD22	1:H:40:ALA:N	2.02	0.56
1:H:65:MET:HB3	1:H:67:LEU:CD2	2.10	0.56
1:H:79:PHE:CE1	1:H:80:PHE:HB2	2.40	0.56
1:H:435:THR:HG21	1:H:437:GLU:HG2	1.87	0.56
1:I:42:PHE:CE2	1:I:66:VAL:HG21	2.40	0.56
1:I:90:ASP:OD2	1:I:99:GLY:HA3	2.05	0.56
1:I:109:LYS:O	1:I:110:ARG:O	2.23	0.56
1:I:224:ARG:O	1:I:231:LYS:NZ	2.39	0.56
1:I:238:TYR:O	1:I:242:VAL:HG23	2.05	0.56
1:I:403:GLU:HB3	1:I:406:GLU:HB2	1.87	0.56
1:K:68:MET:HE1	1:K:88:ARG:HA	1.88	0.56
1:K:103:ASP:HB3	1:K:106:SER:HB2	1.88	0.56
1:K:114:TYR:HD1	1:K:115:LEU:N	2.03	0.56
1:K:192:ARG:O	1:K:195:MET:N	2.38	0.56
1:K:199:MET:HE2	1:K:238:TYR:CD2	2.40	0.56
1:K:295:LEU:HD12	1:K:295:LEU:H	1.70	0.56
1:L:128:PRO:CD	1:L:231:LYS:HD3	2.34	0.56
1:L:224:ARG:O	1:L:231:LYS:NZ	2.39	0.56
1:L:402:GLU:C	1:L:404:ALA:H	2.08	0.56
1:A:67:LEU:CD1	1:A:88:ARG:HH11	2.18	0.56
1:A:79:PHE:CE1	1:A:80:PHE:HB2	2.40	0.56
1:A:350:SER:C	1:A:352:LYS:N	2.55	0.56
1:A:458:HIS:HE1	1:G:456:THR:O	1.87	0.56
1:C:257:PRO:O	1:C:265:GLY:CA	2.53	0.56
1:C:305:ALA:HA	1:C:308:ILE:HG13	1.88	0.56
1:D:79:PHE:CE1	1:D:80:PHE:HB2	2.40	0.56
1:E:90:ASP:OD2	1:E:99:GLY:HA3	2.05	0.56
1:E:103:ASP:HB3	1:E:106:SER:HB2	1.88	0.56
1:E:224:ARG:O	1:E:231:LYS:NZ	2.39	0.56
1:E:238:TYR:O	1:E:242:VAL:HG23	2.05	0.56
1:E:267:GLY:HA2	1:E:363:PRO:HD2	1.87	0.56
1:E:335:SER:CA	1:E:345:ILE:HD11	2.35	0.56
1:F:128:PRO:CD	1:F:231:LYS:HD3	2.34	0.56
1:F:309:ASN:HB2	1:F:313:ASN:ND2	2.18	0.56
1:F:435:THR:HG21	1:F:437:GLU:HG2	1.87	0.56
1:F:458:HIS:HE1	1:L:456:THR:O	1.87	0.56
1:G:173:PRO:O	1:G:215:THR:HA	2.06	0.56
1:G:228:MET:HE1	1:G:371:PHE:C	2.26	0.56
1:H:67:LEU:HD11	1:H:88:ARG:HB2	1.86	0.56
1:H:114:TYR:HD1	1:H:115:LEU:N	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:103:ASP:HB3	1:I:106:SER:HB2	1.88	0.56
1:I:418:LEU:HD11	1:I:446:ARG:HB2	1.87	0.56
1:J:192:ARG:O	1:J:195:MET:N	2.38	0.56
1:J:305:ALA:HA	1:J:308:ILE:HG13	1.88	0.56
1:J:335:SER:CA	1:J:345:ILE:HD11	2.35	0.56
1:K:305:ALA:HA	1:K:308:ILE:HG13	1.88	0.56
1:L:114:TYR:CD1	1:L:115:LEU:N	2.73	0.56
1:L:156:GLY:HA2	1:L:215:THR:HB	1.86	0.56
1:A:58:LYS:HG3	1:B:339:ARG:CB	2.35	0.56
1:A:173:PRO:O	1:A:215:THR:HA	2.06	0.56
1:B:9:LEU:CD1	1:B:14:VAL:HG21	2.34	0.56
1:B:114:TYR:CD1	1:B:115:LEU:N	2.74	0.56
1:B:114:TYR:HD1	1:B:115:LEU:N	2.04	0.56
1:B:325:GLY:C	1:B:326:TYR:HD2	2.07	0.56
1:B:403:GLU:HA	1:B:405:LYS:HE3	1.88	0.56
1:B:467:SER:OG	1:G:171:HIS:ND1	2.31	0.56
1:C:125:LEU:HA	1:C:226:ASN:O	2.06	0.56
1:C:228:MET:HE1	1:C:371:PHE:C	2.26	0.56
1:C:325:GLY:CA	1:C:328:ALA:HB3	2.34	0.56
1:C:402:GLU:C	1:C:404:ALA:H	2.08	0.56
1:D:267:GLY:HA2	1:D:363:PRO:HD2	1.87	0.56
1:D:418:LEU:HD11	1:D:446:ARG:HB2	1.86	0.56
1:E:114:TYR:HD1	1:E:115:LEU:N	2.04	0.56
1:E:403:GLU:HB3	1:E:406:GLU:HB2	1.87	0.56
1:E:418:LEU:HD11	1:E:446:ARG:HB2	1.87	0.56
1:F:79:PHE:CE1	1:F:80:PHE:HB2	2.40	0.56
1:F:114:TYR:CD1	1:F:115:LEU:N	2.73	0.56
1:F:173:PRO:O	1:F:215:THR:HA	2.06	0.56
1:F:196:CYS:O	1:F:197:LEU:C	2.44	0.56
1:F:325:GLY:CA	1:F:328:ALA:HB3	2.34	0.56
1:G:58:LYS:HG3	1:L:339:ARG:CB	2.35	0.56
1:G:126:PHE:CE1	1:G:228:MET:HE3	2.40	0.56
1:G:418:LEU:HD11	1:G:446:ARG:HB2	1.87	0.56
1:H:89:CYS:HB2	1:H:103:ASP:OD1	2.05	0.56
1:H:295:LEU:H	1:H:295:LEU:HD12	1.70	0.56
1:H:317:ASN:O	1:H:318:SER:C	2.44	0.56
1:I:63:SER:OG	1:I:90:ASP:O	2.16	0.56
1:I:305:ALA:HA	1:I:308:ILE:HG13	1.87	0.56
1:I:335:SER:CA	1:I:345:ILE:HD11	2.35	0.56
1:J:79:PHE:CE1	1:J:80:PHE:HB2	2.40	0.56
1:J:103:ASP:HB3	1:J:106:SER:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:179:TYR:C	1:K:181:PRO:CD	2.66	0.56
1:K:257:PRO:O	1:K:265:GLY:CA	2.53	0.56
1:K:464:LEU:HD23	1:K:465:TYR:H	1.67	0.56
1:L:9:LEU:CD1	1:L:14:VAL:HG21	2.34	0.56
1:L:90:ASP:O	1:L:91:ILE:O	2.21	0.56
1:A:114:TYR:HD1	1:A:115:LEU:N	2.04	0.56
1:A:418:LEU:HD11	1:A:446:ARG:HB2	1.87	0.56
1:A:456:THR:O	1:G:458:HIS:HE1	1.87	0.56
1:B:305:ALA:HA	1:B:308:ILE:HG13	1.88	0.56
1:C:157:ALA:H	1:C:215:THR:CG2	2.08	0.56
1:D:224:ARG:O	1:D:231:LYS:NZ	2.39	0.56
1:E:114:TYR:CD1	1:E:115:LEU:N	2.73	0.56
1:E:125:LEU:HA	1:E:226:ASN:O	2.06	0.56
1:E:315:THR:HG23	1:E:449:GLU:OE1	2.06	0.56
1:E:317:ASN:O	1:E:318:SER:C	2.44	0.56
1:E:351:PRO:CG	1:E:352:LYS:N	2.69	0.56
1:E:465:TYR:HE2	1:K:315:THR:CG2	2.04	0.56
1:F:67:LEU:HD11	1:F:88:ARG:HB2	1.86	0.56
1:F:89:CYS:HB2	1:F:103:ASP:OD1	2.05	0.56
1:F:427:PHE:CZ	1:F:428:LEU:HD22	2.40	0.56
1:G:57:TRP:HD1	1:G:58:LYS:H	1.52	0.56
1:G:114:TYR:HD1	1:G:115:LEU:N	2.04	0.56
1:G:192:ARG:O	1:G:195:MET:N	2.38	0.56
1:G:399:LEU:CB	1:G:402:GLU:HB2	2.35	0.56
1:H:114:TYR:CD1	1:H:115:LEU:N	2.74	0.56
1:H:173:PRO:O	1:H:215:THR:HA	2.06	0.56
1:H:403:GLU:HA	1:H:405:LYS:HE3	1.88	0.56
1:I:114:TYR:CD1	1:I:115:LEU:N	2.74	0.56
1:I:125:LEU:HA	1:I:226:ASN:O	2.06	0.56
1:J:16:PHE:CD1	1:J:79:PHE:CE1	2.93	0.56
1:J:224:ARG:O	1:J:231:LYS:NZ	2.39	0.56
1:K:125:LEU:HA	1:K:226:ASN:O	2.06	0.56
1:K:399:LEU:CB	1:K:402:GLU:HB2	2.35	0.56
1:K:402:GLU:C	1:K:404:ALA:H	2.08	0.56
1:L:305:ALA:HA	1:L:308:ILE:HG13	1.88	0.56
1:L:325:GLY:C	1:L:326:TYR:HD2	2.07	0.56
1:A:90:ASP:O	1:A:91:ILE:O	2.21	0.56
1:A:192:ARG:O	1:A:195:MET:N	2.38	0.56
1:A:399:LEU:CB	1:A:402:GLU:HB2	2.36	0.56
1:B:2:ALA:O	1:B:6:LEU:CB	2.50	0.56
1:B:6:LEU:O	1:B:7:THR:C	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:90:ASP:O	1:B:91:ILE:O	2.21	0.56
1:C:173:PRO:O	1:C:215:THR:HA	2.06	0.56
1:D:16:PHE:CD1	1:D:79:PHE:CE1	2.93	0.56
1:D:257:PRO:O	1:D:265:GLY:CA	2.53	0.56
1:D:331:MET:HE2	1:D:396:LEU:HB2	1.86	0.56
1:D:435:THR:HG21	1:D:437:GLU:HG2	1.87	0.56
1:E:305:ALA:HA	1:E:308:ILE:HG13	1.88	0.56
1:F:399:LEU:CB	1:F:402:GLU:HB2	2.35	0.56
1:F:403:GLU:HA	1:F:405:LYS:HE3	1.88	0.56
1:G:90:ASP:O	1:G:91:ILE:O	2.21	0.56
1:H:90:ASP:OD2	1:H:99:GLY:HA3	2.05	0.56
1:H:325:GLY:CA	1:H:328:ALA:HB3	2.34	0.56
1:I:67:LEU:HD11	1:I:88:ARG:HB2	1.86	0.56
1:J:114:TYR:CD1	1:J:115:LEU:N	2.73	0.56
1:J:435:THR:HG21	1:J:437:GLU:HG2	1.87	0.56
1:K:49:PHE:N	1:K:49:PHE:CD2	2.71	0.56
1:K:90:ASP:OD2	1:K:99:GLY:HA3	2.05	0.56
1:K:157:ALA:H	1:K:215:THR:CG2	2.08	0.56
1:K:228:MET:HE1	1:K:371:PHE:C	2.26	0.56
1:K:325:GLY:CA	1:K:328:ALA:HB3	2.34	0.56
1:K:379:LEU:O	1:K:383:LYS:N	2.20	0.56
1:L:345:ILE:HG12	1:L:345:ILE:O	2.06	0.56
1:L:403:GLU:HA	1:L:405:LYS:HE3	1.88	0.56
1:A:85:LEU:C	1:A:85:LEU:HD12	2.25	0.56
1:A:156:GLY:HA2	1:A:215:THR:HB	1.86	0.56
1:B:157:ALA:H	1:B:215:THR:CG2	2.08	0.56
1:B:173:PRO:O	1:B:215:THR:HA	2.06	0.56
1:B:345:ILE:O	1:B:345:ILE:HG12	2.06	0.56
1:B:366:ASN:C	1:B:368:TYR:N	2.57	0.56
1:C:85:LEU:C	1:C:85:LEU:HD12	2.25	0.56
1:C:196:CYS:O	1:C:197:LEU:C	2.44	0.56
1:C:399:LEU:CB	1:C:402:GLU:HB2	2.36	0.56
1:C:403:GLU:HA	1:C:405:LYS:HE3	1.88	0.56
1:D:90:ASP:OD2	1:D:99:GLY:HA3	2.06	0.56
1:D:114:TYR:CD1	1:D:115:LEU:N	2.74	0.56
1:D:114:TYR:HD1	1:D:115:LEU:N	2.03	0.56
1:D:351:PRO:CG	1:D:352:LYS:N	2.69	0.56
1:D:402:GLU:C	1:D:404:ALA:H	2.08	0.56
1:D:425:ARG:O	1:D:428:LEU:HB2	2.06	0.56
1:E:67:LEU:HD11	1:E:88:ARG:HB2	1.86	0.56
1:E:173:PRO:O	1:E:215:THR:HA	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:336:ALA:N	1:E:345:ILE:CD1	2.69	0.56
1:F:65:MET:HB3	1:F:67:LEU:CD2	2.10	0.56
1:F:67:LEU:CD1	1:F:88:ARG:HH11	2.18	0.56
1:F:68:MET:HE1	1:F:109:LYS:HE3	1.87	0.56
1:F:228:MET:HE1	1:F:371:PHE:C	2.26	0.56
1:G:156:GLY:HA2	1:G:215:THR:HB	1.86	0.56
1:G:403:GLU:HA	1:G:405:LYS:HE3	1.88	0.56
1:H:19:LEU:HD22	1:H:240:TYR:HH	1.69	0.56
1:H:39:ASN:HD21	1:H:42:PHE:H	1.52	0.56
1:H:196:CYS:O	1:H:197:LEU:C	2.44	0.56
1:H:427:PHE:CZ	1:H:428:LEU:HD22	2.40	0.56
1:I:39:ASN:HD21	1:I:42:PHE:H	1.52	0.56
1:I:54:ILE:CD1	1:I:102:ARG:CD	2.73	0.56
1:I:173:PRO:O	1:I:215:THR:HA	2.06	0.56
1:I:209:HIS:CE1	1:J:32:THR:HB	2.41	0.56
1:I:315:THR:HG23	1:I:449:GLU:OE1	2.06	0.56
1:I:336:ALA:N	1:I:345:ILE:CD1	2.69	0.56
1:I:351:PRO:CG	1:I:352:LYS:N	2.69	0.56
1:J:238:TYR:O	1:J:242:VAL:HG23	2.05	0.56
1:J:257:PRO:O	1:J:265:GLY:CA	2.53	0.56
1:J:336:ALA:N	1:J:345:ILE:CD1	2.69	0.56
1:J:418:LEU:HD11	1:J:446:ARG:HB2	1.87	0.56
1:J:425:ARG:O	1:J:428:LEU:HB2	2.06	0.56
1:K:173:PRO:O	1:K:215:THR:HA	2.06	0.56
1:K:196:CYS:O	1:K:197:LEU:C	2.44	0.56
1:L:157:ALA:H	1:L:215:THR:CG2	2.09	0.56
1:L:199:MET:HB3	1:L:204:LEU:HD12	1.86	0.56
1:L:267:GLY:HA2	1:L:363:PRO:HD2	1.87	0.56
1:B:68:MET:HE2	1:B:109:LYS:HE3	1.87	0.56
1:B:199:MET:HB3	1:B:204:LEU:HD12	1.86	0.56
1:B:325:GLY:CA	1:B:328:ALA:HB3	2.34	0.56
1:C:42:PHE:CE2	1:C:66:VAL:HG21	2.40	0.56
1:C:315:THR:CG2	1:I:465:TYR:HE2	2.04	0.56
1:D:32:THR:HB	1:E:209:HIS:CE1	2.41	0.56
1:D:57:TRP:HD1	1:D:58:LYS:H	1.51	0.56
1:D:336:ALA:N	1:D:345:ILE:CD1	2.69	0.56
1:E:39:ASN:HD21	1:E:42:PHE:H	1.52	0.56
1:E:42:PHE:CE1	1:E:66:VAL:CG1	2.89	0.56
1:F:39:ASN:HD21	1:F:42:PHE:H	1.53	0.56
1:F:90:ASP:OD2	1:F:99:GLY:HA3	2.05	0.56
1:F:418:LEU:HD11	1:F:446:ARG:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:224:ARG:O	1:G:231:LYS:NZ	2.39	0.56
1:H:67:LEU:CD1	1:H:88:ARG:HH11	2.18	0.56
1:H:68:MET:HE1	1:H:109:LYS:HE3	1.87	0.56
1:H:399:LEU:CB	1:H:402:GLU:HB2	2.36	0.56
1:I:114:TYR:HD1	1:I:115:LEU:N	2.04	0.56
1:I:192:ARG:O	1:I:195:MET:N	2.39	0.56
1:I:317:ASN:O	1:I:318:SER:C	2.44	0.56
1:J:90:ASP:OD2	1:J:99:GLY:HA3	2.06	0.56
1:J:396:LEU:HD23	1:J:397:TYR:N	2.21	0.56
1:K:79:PHE:CE1	1:K:80:PHE:HB2	2.40	0.56
1:K:85:LEU:C	1:K:85:LEU:HD12	2.25	0.56
1:K:403:GLU:HA	1:K:405:LYS:HE3	1.88	0.56
1:K:425:ARG:O	1:K:428:LEU:HB2	2.06	0.56
1:L:2:ALA:O	1:L:6:LEU:CB	2.49	0.56
1:L:6:LEU:O	1:L:7:THR:C	2.41	0.56
1:L:86:ILE:N	1:L:86:ILE:CD1	2.44	0.56
1:L:90:ASP:OD2	1:L:99:GLY:HA3	2.05	0.56
1:L:173:PRO:O	1:L:215:THR:HA	2.06	0.56
1:L:325:GLY:CA	1:L:328:ALA:HB3	2.34	0.56
1:L:451:ASP:O	1:L:452:ARG:C	2.42	0.56
1:A:224:ARG:O	1:A:231:LYS:NZ	2.39	0.56
1:A:348:VAL:HB	1:A:354:ARG:HH11	1.71	0.56
1:A:351:PRO:CG	1:A:352:LYS:N	2.69	0.56
1:A:403:GLU:HA	1:A:405:LYS:HE3	1.88	0.56
1:B:89:CYS:HB2	1:B:103:ASP:OD1	2.05	0.56
1:B:90:ASP:OD2	1:B:99:GLY:HA3	2.06	0.56
1:B:125:LEU:HA	1:B:226:ASN:O	2.06	0.56
1:B:351:PRO:CG	1:B:352:LYS:N	2.69	0.56
1:B:396:LEU:HD23	1:B:397:TYR:N	2.21	0.56
1:B:451:ASP:O	1:B:452:ARG:C	2.42	0.56
1:C:49:PHE:N	1:C:49:PHE:CD2	2.71	0.56
1:C:79:PHE:CE1	1:C:80:PHE:HB2	2.40	0.56
1:C:90:ASP:OD2	1:C:99:GLY:HA3	2.05	0.56
1:C:179:TYR:C	1:C:181:PRO:CD	2.66	0.56
1:D:214:ALA:HB1	1:D:263:ASP:OD2	2.06	0.56
1:D:396:LEU:HD23	1:D:397:TYR:N	2.21	0.56
1:D:425:ARG:HB3	1:D:429:LYS:HD3	1.88	0.56
1:E:54:ILE:CD1	1:E:102:ARG:CD	2.73	0.56
1:E:67:LEU:O	1:E:69:PRO:N	2.39	0.56
1:E:118:THR:OG1	1:E:119:GLY:N	2.39	0.56
1:E:399:LEU:CB	1:E:402:GLU:HB2	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:425:ARG:O	1:E:428:LEU:HB2	2.06	0.56
1:F:126:PHE:CE1	1:F:228:MET:HE3	2.40	0.56
1:F:224:ARG:O	1:F:231:LYS:NZ	2.38	0.56
1:G:209:HIS:CE1	1:H:32:THR:HB	2.41	0.56
1:G:351:PRO:CG	1:G:352:LYS:N	2.69	0.56
1:H:267:GLY:HA2	1:H:363:PRO:HD2	1.87	0.56
1:H:418:LEU:HD11	1:H:446:ARG:HB2	1.87	0.56
1:H:425:ARG:O	1:H:428:LEU:HB2	2.06	0.56
1:I:6:LEU:O	1:I:7:THR:C	2.40	0.56
1:I:54:ILE:CB	1:I:101:ASP:HB2	2.34	0.56
1:I:67:LEU:O	1:I:69:PRO:N	2.39	0.56
1:I:118:THR:OG1	1:I:119:GLY:N	2.39	0.56
1:I:267:GLY:HA2	1:I:363:PRO:HD2	1.87	0.56
1:J:114:TYR:HD1	1:J:115:LEU:N	2.04	0.56
1:J:264:ASN:O	1:J:265:GLY:C	2.44	0.56
1:J:331:MET:HE2	1:J:396:LEU:HB2	1.87	0.56
1:J:351:PRO:CG	1:J:352:LYS:N	2.69	0.56
1:K:42:PHE:CE2	1:K:66:VAL:HG21	2.40	0.56
1:K:376:MET:HE3	1:K:433:VAL:HG21	1.85	0.56
1:L:16:PHE:CD1	1:L:79:PHE:CE1	2.93	0.56
1:L:351:PRO:CG	1:L:352:LYS:N	2.69	0.56
1:L:396:LEU:HD23	1:L:397:TYR:N	2.21	0.56
1:A:16:PHE:CD1	1:A:79:PHE:CE1	2.92	0.55
1:A:196:CYS:O	1:A:197:LEU:C	2.44	0.55
1:A:209:HIS:CE1	1:F:32:THR:HB	2.41	0.55
1:A:315:THR:HG23	1:A:449:GLU:OE1	2.06	0.55
1:A:396:LEU:HD23	1:A:397:TYR:N	2.21	0.55
1:B:16:PHE:CD1	1:B:79:PHE:CE1	2.93	0.55
1:C:17:VAL:HA	1:C:83:SER:O	2.07	0.55
1:C:114:TYR:CD1	1:C:115:LEU:N	2.74	0.55
1:C:425:ARG:O	1:C:428:LEU:HB2	2.06	0.55
1:D:66:VAL:N	1:D:87:ILE:HG23	2.21	0.55
1:D:89:CYS:HB2	1:D:103:ASP:OD1	2.05	0.55
1:D:196:CYS:O	1:D:197:LEU:C	2.44	0.55
1:D:345:ILE:HG12	1:D:345:ILE:O	2.06	0.55
1:E:6:LEU:O	1:E:7:THR:C	2.41	0.55
1:E:17:VAL:HA	1:E:83:SER:O	2.06	0.55
1:E:68:MET:HE2	1:E:109:LYS:HE3	1.87	0.55
1:E:192:ARG:O	1:E:195:MET:N	2.39	0.55
1:F:351:PRO:CG	1:F:352:LYS:N	2.69	0.55
1:G:16:PHE:CD1	1:G:79:PHE:CE1	2.92	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:85:LEU:C	1:G:85:LEU:HD12	2.25	0.55
1:G:315:THR:HG23	1:G:449:GLU:OE1	2.06	0.55
1:H:224:ARG:O	1:H:231:LYS:NZ	2.39	0.55
1:H:336:ALA:N	1:H:345:ILE:CD1	2.69	0.55
1:H:351:PRO:CG	1:H:352:LYS:N	2.69	0.55
1:I:42:PHE:CE1	1:I:66:VAL:CG1	2.90	0.55
1:I:68:MET:HE2	1:I:109:LYS:HE3	1.87	0.55
1:I:196:CYS:O	1:I:197:LEU:C	2.44	0.55
1:I:314:PRO:O	1:I:315:THR:C	2.42	0.55
1:J:66:VAL:N	1:J:87:ILE:HG23	2.21	0.55
1:J:125:LEU:HA	1:J:226:ASN:O	2.06	0.55
1:J:196:CYS:O	1:J:197:LEU:C	2.44	0.55
1:J:399:LEU:CB	1:J:402:GLU:HB2	2.35	0.55
1:J:402:GLU:C	1:J:404:ALA:H	2.08	0.55
1:K:114:TYR:CD1	1:K:115:LEU:N	2.73	0.55
1:K:283:SER:O	1:K:291:SER:CB	2.45	0.55
1:L:89:CYS:HB2	1:L:103:ASP:OD1	2.05	0.55
1:L:109:LYS:O	1:L:110:ARG:O	2.23	0.55
1:L:228:MET:HE1	1:L:372:ALA:HA	1.88	0.55
1:A:295:LEU:H	1:A:295:LEU:HD12	1.70	0.55
1:A:435:THR:HG21	1:A:437:GLU:HG2	1.87	0.55
1:B:336:ALA:N	1:B:345:ILE:CD1	2.69	0.55
1:C:283:SER:O	1:C:291:SER:CB	2.45	0.55
1:C:351:PRO:CG	1:C:352:LYS:N	2.69	0.55
1:D:42:PHE:CE2	1:D:66:VAL:HG21	2.40	0.55
1:D:42:PHE:CE1	1:D:66:VAL:CG1	2.89	0.55
1:D:125:LEU:HA	1:D:226:ASN:O	2.06	0.55
1:D:264:ASN:O	1:D:265:GLY:C	2.45	0.55
1:E:54:ILE:CB	1:E:101:ASP:HB2	2.34	0.55
1:E:392:MET:CE	1:E:392:MET:HA	2.23	0.55
1:F:125:LEU:HA	1:F:226:ASN:O	2.06	0.55
1:F:267:GLY:HA2	1:F:363:PRO:HD2	1.87	0.55
1:F:348:VAL:HB	1:F:354:ARG:HH11	1.71	0.55
1:G:125:LEU:HA	1:G:226:ASN:O	2.06	0.55
1:G:196:CYS:O	1:G:197:LEU:C	2.44	0.55
1:G:348:VAL:HB	1:G:354:ARG:HH11	1.72	0.55
1:H:28:GLU:C	1:H:29:GLN:HG2	2.27	0.55
1:I:392:MET:CE	1:I:392:MET:HA	2.23	0.55
1:I:399:LEU:CB	1:I:402:GLU:HB2	2.36	0.55
1:I:425:ARG:O	1:I:428:LEU:HB2	2.06	0.55
1:J:42:PHE:CE1	1:J:66:VAL:CG1	2.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:214:ALA:HB1	1:J:263:ASP:OD2	2.06	0.55
1:J:403:GLU:HA	1:J:405:LYS:HE3	1.88	0.55
1:J:425:ARG:HB3	1:J:429:LYS:HD3	1.89	0.55
1:K:6:LEU:O	1:K:7:THR:C	2.41	0.55
1:K:17:VAL:HA	1:K:83:SER:O	2.07	0.55
1:K:209:HIS:CE1	1:L:32:THR:HB	2.41	0.55
1:L:125:LEU:HA	1:L:226:ASN:O	2.06	0.55
1:L:288:ALA:HB3	1:L:290:LEU:HD12	1.88	0.55
1:L:315:THR:O	1:L:318:SER:N	2.37	0.55
1:A:90:ASP:OD2	1:A:99:GLY:HA3	2.05	0.55
1:A:264:ASN:O	1:A:265:GLY:C	2.44	0.55
1:A:288:ALA:HB3	1:A:290:LEU:HD12	1.89	0.55
1:B:32:THR:HB	1:C:209:HIS:CE1	2.41	0.55
1:B:79:PHE:CE1	1:B:80:PHE:HB2	2.40	0.55
1:B:109:LYS:O	1:B:110:ARG:O	2.23	0.55
1:C:379:LEU:O	1:C:383:LYS:N	2.20	0.55
1:C:425:ARG:HB3	1:C:429:LYS:HD3	1.88	0.55
1:D:36:HIS:C	1:D:38:VAL:H	1.99	0.55
1:D:68:MET:HE2	1:D:109:LYS:HE3	1.87	0.55
1:D:399:LEU:CB	1:D:402:GLU:HB2	2.36	0.55
1:E:196:CYS:O	1:E:197:LEU:C	2.44	0.55
1:E:314:PRO:O	1:E:315:THR:C	2.42	0.55
1:E:396:LEU:HD23	1:E:397:TYR:N	2.21	0.55
1:E:403:GLU:HA	1:E:405:LYS:HE3	1.88	0.55
1:F:336:ALA:N	1:F:345:ILE:CD1	2.69	0.55
1:F:425:ARG:O	1:F:428:LEU:HB2	2.06	0.55
1:G:288:ALA:HB3	1:G:290:LEU:HD12	1.89	0.55
1:G:396:LEU:HD23	1:G:397:TYR:N	2.21	0.55
1:G:435:THR:HG21	1:G:437:GLU:HG2	1.87	0.55
1:H:348:VAL:HB	1:H:354:ARG:HH11	1.72	0.55
1:I:2:ALA:O	1:I:6:LEU:CB	2.49	0.55
1:I:257:PRO:O	1:I:265:GLY:CA	2.53	0.55
1:I:396:LEU:HD23	1:I:397:TYR:N	2.21	0.55
1:J:42:PHE:CE2	1:J:66:VAL:HG21	2.40	0.55
1:J:57:TRP:HD1	1:J:58:LYS:H	1.52	0.55
1:J:89:CYS:HB2	1:J:103:ASP:OD1	2.05	0.55
1:J:345:ILE:O	1:J:345:ILE:HG12	2.06	0.55
1:J:403:GLU:HB3	1:J:406:GLU:HB2	1.87	0.55
1:K:351:PRO:CG	1:K:352:LYS:N	2.69	0.55
1:K:376:MET:HE3	1:K:433:VAL:CB	2.37	0.55
1:K:425:ARG:HB3	1:K:429:LYS:HD3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:79:PHE:CE1	1:L:80:PHE:HB2	2.40	0.55
1:L:336:ALA:N	1:L:345:ILE:CD1	2.69	0.55
1:L:379:LEU:O	1:L:383:LYS:N	2.20	0.55
1:L:435:THR:HG21	1:L:437:GLU:HG2	1.87	0.55
1:A:42:PHE:CE2	1:A:66:VAL:HG21	2.40	0.55
1:A:89:CYS:HB2	1:A:103:ASP:OD1	2.05	0.55
1:A:425:ARG:O	1:A:428:LEU:HB2	2.06	0.55
1:B:42:PHE:CE1	1:B:66:VAL:CG1	2.89	0.55
1:B:57:TRP:HD1	1:B:58:LYS:H	1.52	0.55
1:B:103:ASP:HB3	1:B:106:SER:HB2	1.88	0.55
1:C:89:CYS:HB2	1:C:103:ASP:OD1	2.05	0.55
1:C:105:ARG:NH2	1:C:233:ASP:CG	2.55	0.55
1:C:118:THR:OG1	1:C:119:GLY:N	2.39	0.55
1:C:224:ARG:O	1:C:231:LYS:NZ	2.39	0.55
1:C:315:THR:HG23	1:C:449:GLU:OE1	2.06	0.55
1:C:348:VAL:HB	1:C:354:ARG:HH11	1.72	0.55
1:C:396:LEU:HD23	1:C:397:TYR:N	2.21	0.55
1:E:2:ALA:O	1:E:6:LEU:CB	2.49	0.55
1:E:21:PHE:CE1	1:E:31:VAL:O	2.60	0.55
1:E:68:MET:HE1	1:E:88:ARG:CB	2.36	0.55
1:F:28:GLU:C	1:F:29:GLN:HG2	2.27	0.55
1:F:105:ARG:NH2	1:F:233:ASP:CG	2.55	0.55
1:F:118:THR:OG1	1:F:119:GLY:N	2.39	0.55
1:G:295:LEU:HD12	1:G:295:LEU:H	1.70	0.55
1:H:67:LEU:O	1:H:69:PRO:N	2.39	0.55
1:H:118:THR:OG1	1:H:119:GLY:N	2.39	0.55
1:I:403:GLU:HA	1:I:405:LYS:HE3	1.88	0.55
1:J:68:MET:HE2	1:J:109:LYS:HE3	1.87	0.55
1:K:103:ASP:N	1:K:104:PRO:CD	2.60	0.55
1:K:109:LYS:O	1:K:110:ARG:O	2.23	0.55
1:K:118:THR:OG1	1:K:119:GLY:N	2.39	0.55
1:K:224:ARG:O	1:K:231:LYS:NZ	2.39	0.55
1:K:348:VAL:HB	1:K:354:ARG:HH11	1.72	0.55
1:L:42:PHE:CE1	1:L:66:VAL:CG1	2.89	0.55
1:L:57:TRP:HD1	1:L:58:LYS:H	1.52	0.55
1:L:192:ARG:O	1:L:195:MET:N	2.38	0.55
1:L:315:THR:HG23	1:L:449:GLU:OE1	2.06	0.55
1:L:348:VAL:HB	1:L:354:ARG:HH11	1.72	0.55
1:A:28:GLU:C	1:A:29:GLN:HG2	2.27	0.55
1:A:103:ASP:N	1:A:104:PRO:CD	2.60	0.55
1:B:28:GLU:C	1:B:29:GLN:HG2	2.27	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:76:ILE:HD11	1:B:202:MET:SD	2.47	0.55
1:B:118:THR:OG1	1:B:119:GLY:N	2.39	0.55
1:B:288:ALA:HB3	1:B:290:LEU:HD12	1.89	0.55
1:B:315:THR:HG23	1:B:449:GLU:OE1	2.06	0.55
1:B:315:THR:O	1:B:318:SER:N	2.37	0.55
1:B:348:VAL:HB	1:B:354:ARG:HH11	1.72	0.55
1:B:379:LEU:O	1:B:383:LYS:N	2.20	0.55
1:C:109:LYS:O	1:C:110:ARG:O	2.23	0.55
1:D:175:VAL:O	1:D:176:LYS:C	2.45	0.55
1:D:207:GLU:O	1:D:208:ALA:HB2	2.07	0.55
1:D:238:TYR:O	1:D:242:VAL:HG23	2.05	0.55
1:D:403:GLU:HB3	1:D:406:GLU:HB2	1.87	0.55
1:E:66:VAL:N	1:E:87:ILE:HG23	2.21	0.55
1:E:257:PRO:O	1:E:265:GLY:CA	2.53	0.55
1:E:403:GLU:HA	1:E:406:GLU:HB2	1.89	0.55
1:F:67:LEU:O	1:F:69:PRO:N	2.39	0.55
1:F:78:PRO:CB	1:F:79:PHE:CD2	2.89	0.55
1:G:42:PHE:CE2	1:G:66:VAL:HG21	2.40	0.55
1:G:264:ASN:O	1:G:265:GLY:C	2.45	0.55
1:G:305:ALA:HA	1:G:308:ILE:HG13	1.87	0.55
1:H:103:ASP:HB3	1:H:106:SER:HB2	1.88	0.55
1:H:125:LEU:HA	1:H:226:ASN:O	2.06	0.55
1:H:345:ILE:HG12	1:H:345:ILE:O	2.06	0.55
1:I:17:VAL:HA	1:I:83:SER:O	2.07	0.55
1:J:175:VAL:O	1:J:176:LYS:C	2.45	0.55
1:K:13:GLU:C	1:K:14:VAL:HG13	2.27	0.55
1:K:89:CYS:HB2	1:K:103:ASP:OD1	2.05	0.55
1:K:207:GLU:O	1:K:208:ALA:HB2	2.07	0.55
1:K:315:THR:HG23	1:K:449:GLU:OE1	2.06	0.55
1:L:42:PHE:CE2	1:L:66:VAL:HG21	2.40	0.55
1:L:76:ILE:HD11	1:L:202:MET:SD	2.47	0.55
1:A:125:LEU:HA	1:A:226:ASN:O	2.06	0.55
1:A:267:GLY:HA2	1:A:363:PRO:HD2	1.87	0.55
1:B:17:VAL:HA	1:B:83:SER:O	2.07	0.55
1:B:192:ARG:O	1:B:195:MET:N	2.38	0.55
1:C:21:PHE:CE1	1:C:31:VAL:O	2.60	0.55
1:C:42:PHE:CE1	1:C:66:VAL:CG1	2.89	0.55
1:C:76:ILE:HD11	1:C:202:MET:SD	2.47	0.55
1:C:207:GLU:O	1:C:208:ALA:HB2	2.07	0.55
1:D:13:GLU:C	1:D:14:VAL:HG13	2.27	0.55
1:D:298:ILE:HG12	1:D:356:ILE:HD11	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:315:THR:HG23	1:D:449:GLU:OE1	2.06	0.55
1:D:403:GLU:HA	1:D:405:LYS:HE3	1.88	0.55
1:F:296:TYR:CB	1:F:382:ILE:CA	2.84	0.55
1:G:28:GLU:C	1:G:29:GLN:HG2	2.27	0.55
1:G:89:CYS:HB2	1:G:103:ASP:OD1	2.05	0.55
1:G:90:ASP:OD2	1:G:99:GLY:HA3	2.06	0.55
1:G:267:GLY:HA2	1:G:363:PRO:HD2	1.87	0.55
1:G:379:LEU:O	1:G:383:LYS:N	2.20	0.55
1:G:425:ARG:O	1:G:428:LEU:HB2	2.06	0.55
1:H:17:VAL:HA	1:H:83:SER:O	2.06	0.55
1:H:78:PRO:CB	1:H:79:PHE:CD2	2.89	0.55
1:H:192:ARG:O	1:H:195:MET:N	2.38	0.55
1:I:21:PHE:CE1	1:I:31:VAL:O	2.60	0.55
1:I:68:MET:HE1	1:I:88:ARG:CB	2.37	0.55
1:I:126:PHE:HE1	1:I:228:MET:HE3	1.71	0.55
1:I:425:ARG:HB3	1:I:429:LYS:HD3	1.88	0.55
1:J:13:GLU:C	1:J:14:VAL:HG13	2.27	0.55
1:J:317:ASN:O	1:J:318:SER:C	2.44	0.55
1:J:348:VAL:HB	1:J:354:ARG:HH11	1.72	0.55
1:K:66:VAL:N	1:K:87:ILE:HG23	2.21	0.55
1:K:396:LEU:HD23	1:K:397:TYR:N	2.21	0.55
1:K:435:THR:HG21	1:K:437:GLU:HG2	1.87	0.55
1:L:17:VAL:HA	1:L:83:SER:O	2.06	0.55
1:L:68:MET:HE2	1:L:109:LYS:HE3	1.87	0.55
1:L:103:ASP:HB3	1:L:106:SER:HB2	1.88	0.55
1:L:118:THR:OG1	1:L:119:GLY:N	2.39	0.55
1:A:13:GLU:C	1:A:14:VAL:HG13	2.27	0.55
1:A:78:PRO:CB	1:A:79:PHE:CD2	2.89	0.55
1:A:126:PHE:CE1	1:A:228:MET:HE3	2.42	0.55
1:A:207:GLU:O	1:A:208:ALA:HB2	2.07	0.55
1:B:23:ASP:CB	1:B:28:GLU:HA	2.34	0.55
1:B:66:VAL:N	1:B:87:ILE:HG23	2.21	0.55
1:B:295:LEU:H	1:B:295:LEU:HD12	1.70	0.55
1:B:435:THR:HG21	1:B:437:GLU:HG2	1.87	0.55
1:C:6:LEU:O	1:C:7:THR:C	2.40	0.55
1:C:13:GLU:C	1:C:14:VAL:HG13	2.27	0.55
1:C:66:VAL:N	1:C:87:ILE:HG23	2.21	0.55
1:C:175:VAL:O	1:C:176:LYS:C	2.45	0.55
1:C:403:GLU:HB3	1:C:406:GLU:HB2	1.87	0.55
1:C:435:THR:HG21	1:C:437:GLU:HG2	1.87	0.55
1:D:17:VAL:HA	1:D:83:SER:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:67:LEU:O	1:D:69:PRO:N	2.39	0.55
1:D:122:ASP:HB2	1:D:276:LYS:CD	2.37	0.55
1:E:38:VAL:HG22	1:E:42:PHE:CE1	2.42	0.55
1:E:47:LYS:O	1:E:64:ASP:HB2	2.07	0.55
1:E:126:PHE:HE1	1:E:228:MET:HE3	1.71	0.55
1:E:425:ARG:HB3	1:E:429:LYS:HD3	1.89	0.55
1:F:17:VAL:HA	1:F:83:SER:O	2.07	0.55
1:F:103:ASP:HB3	1:F:106:SER:HB2	1.88	0.55
1:F:345:ILE:O	1:F:345:ILE:HG12	2.06	0.55
1:G:67:LEU:O	1:G:69:PRO:N	2.39	0.55
1:G:118:THR:OG1	1:G:119:GLY:N	2.39	0.55
1:G:175:VAL:O	1:G:176:LYS:C	2.45	0.55
1:H:42:PHE:CE1	1:H:66:VAL:CG1	2.90	0.55
1:H:296:TYR:CB	1:H:382:ILE:CA	2.84	0.55
1:H:403:GLU:HA	1:H:406:GLU:HB2	1.89	0.55
1:I:38:VAL:HG22	1:I:42:PHE:CE1	2.42	0.55
1:I:66:VAL:N	1:I:87:ILE:HG23	2.21	0.55
1:I:403:GLU:HA	1:I:406:GLU:HB2	1.89	0.55
1:J:67:LEU:O	1:J:69:PRO:N	2.39	0.55
1:J:207:GLU:O	1:J:208:ALA:HB2	2.07	0.55
1:J:209:HIS:CE1	1:K:32:THR:HB	2.41	0.55
1:J:298:ILE:HG12	1:J:356:ILE:HD11	1.89	0.55
1:J:315:THR:HG23	1:J:449:GLU:OE1	2.06	0.55
1:K:21:PHE:CE1	1:K:31:VAL:O	2.60	0.55
1:K:42:PHE:CE1	1:K:66:VAL:CG1	2.89	0.55
1:K:76:ILE:HD11	1:K:202:MET:SD	2.47	0.55
1:K:175:VAL:O	1:K:176:LYS:C	2.45	0.55
1:L:23:ASP:CB	1:L:28:GLU:HA	2.34	0.55
1:L:66:VAL:N	1:L:87:ILE:HG23	2.21	0.55
1:L:67:LEU:O	1:L:69:PRO:N	2.39	0.55
1:L:126:PHE:HE1	1:L:228:MET:HE3	1.72	0.55
1:L:258:LYS:N	1:L:317:ASN:HD21	2.05	0.55
1:L:425:ARG:O	1:L:428:LEU:HB2	2.06	0.55
1:A:17:VAL:HA	1:A:83:SER:O	2.07	0.55
1:A:20:ARG:CG	1:A:28:GLU:CD	2.60	0.55
1:A:32:THR:HB	1:B:209:HIS:CE1	2.41	0.55
1:A:40:ALA:H	1:A:43:PHE:HD1	1.54	0.55
1:A:42:PHE:CE1	1:A:66:VAL:CG1	2.89	0.55
1:A:47:LYS:O	1:A:64:ASP:HB2	2.07	0.55
1:A:118:THR:OG1	1:A:119:GLY:N	2.39	0.55
1:A:142:ALA:HA	1:A:147:SER:HA	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:175:VAL:O	1:A:176:LYS:C	2.45	0.55
1:A:258:LYS:N	1:A:317:ASN:HD21	2.05	0.55
1:A:317:ASN:O	1:A:318:SER:C	2.44	0.55
1:A:336:ALA:N	1:A:345:ILE:CD1	2.69	0.55
1:B:46:GLY:HA2	1:B:66:VAL:HG23	1.89	0.55
1:B:67:LEU:O	1:B:69:PRO:N	2.39	0.55
1:B:175:VAL:O	1:B:176:LYS:C	2.45	0.55
1:B:207:GLU:O	1:B:208:ALA:HB2	2.07	0.55
1:B:258:LYS:N	1:B:317:ASN:HD21	2.05	0.55
1:C:32:THR:HB	1:D:209:HIS:CE1	2.41	0.55
1:C:78:PRO:CB	1:C:79:PHE:CD2	2.89	0.55
1:C:103:ASP:N	1:C:104:PRO:CD	2.60	0.55
1:D:68:MET:HE3	1:D:88:ARG:CB	2.25	0.55
1:E:32:THR:HB	1:F:209:HIS:CE1	2.41	0.55
1:E:122:ASP:HB2	1:E:276:LYS:CD	2.37	0.55
1:E:348:VAL:HB	1:E:354:ARG:HH11	1.72	0.55
1:E:379:LEU:O	1:E:383:LYS:N	2.20	0.55
1:F:21:PHE:CE1	1:F:31:VAL:O	2.60	0.55
1:F:42:PHE:CE1	1:F:66:VAL:CG1	2.89	0.55
1:F:192:ARG:O	1:F:195:MET:N	2.38	0.55
1:F:392:MET:HA	1:F:392:MET:CE	2.23	0.55
1:G:17:VAL:HA	1:G:83:SER:O	2.07	0.55
1:G:32:THR:HB	1:L:209:HIS:CE1	2.41	0.55
1:G:78:PRO:CB	1:G:79:PHE:CD2	2.89	0.55
1:G:103:ASP:N	1:G:104:PRO:CD	2.60	0.55
1:G:103:ASP:HB3	1:G:106:SER:HB2	1.87	0.55
1:G:207:GLU:O	1:G:208:ALA:HB2	2.07	0.55
1:H:21:PHE:CE1	1:H:31:VAL:O	2.60	0.55
1:H:66:VAL:N	1:H:87:ILE:HG23	2.21	0.55
1:H:396:LEU:HD23	1:H:397:TYR:N	2.21	0.55
1:I:47:LYS:O	1:I:64:ASP:HB2	2.07	0.55
1:I:122:ASP:HB2	1:I:276:LYS:CD	2.37	0.55
1:I:379:LEU:O	1:I:383:LYS:N	2.20	0.55
1:J:36:HIS:C	1:J:38:VAL:H	2.00	0.55
1:J:122:ASP:HB2	1:J:276:LYS:CD	2.37	0.55
1:K:403:GLU:HB3	1:K:406:GLU:HB2	1.87	0.55
1:L:28:GLU:C	1:L:29:GLN:HG2	2.27	0.55
1:L:207:GLU:O	1:L:208:ALA:HB2	2.07	0.55
1:L:295:LEU:H	1:L:295:LEU:HD12	1.70	0.55
1:A:67:LEU:O	1:A:69:PRO:N	2.39	0.55
1:B:42:PHE:CE2	1:B:66:VAL:HG21	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:58:LYS:HG3	1:C:339:ARG:CB	2.35	0.55
1:C:264:ASN:O	1:C:265:GLY:C	2.44	0.55
1:C:435:THR:HB	1:C:437:GLU:HB2	1.89	0.55
1:D:47:LYS:O	1:D:64:ASP:HB2	2.07	0.55
1:D:317:ASN:O	1:D:318:SER:C	2.44	0.55
1:E:78:PRO:CB	1:E:79:PHE:CD2	2.89	0.55
1:E:214:ALA:HB1	1:E:263:ASP:OD2	2.06	0.55
1:F:66:VAL:N	1:F:87:ILE:HG23	2.21	0.55
1:F:305:ALA:HA	1:F:308:ILE:HG13	1.88	0.55
1:F:403:GLU:HA	1:F:406:GLU:HB2	1.89	0.55
1:G:13:GLU:C	1:G:14:VAL:HG13	2.27	0.55
1:G:40:ALA:H	1:G:43:PHE:HD1	1.54	0.55
1:G:47:LYS:O	1:G:64:ASP:HB2	2.07	0.55
1:G:336:ALA:N	1:G:345:ILE:CD1	2.69	0.55
1:H:105:ARG:NH2	1:H:233:ASP:CG	2.56	0.55
1:H:209:HIS:CE1	1:I:32:THR:HB	2.41	0.55
1:I:9:LEU:CD1	1:I:14:VAL:HG21	2.34	0.55
1:K:78:PRO:CB	1:K:79:PHE:CD2	2.89	0.55
1:K:339:ARG:CB	1:L:58:LYS:HG3	2.34	0.55
1:L:175:VAL:O	1:L:176:LYS:C	2.45	0.55
1:A:103:ASP:HB3	1:A:106:SER:HB2	1.88	0.55
1:A:214:ALA:HB1	1:A:263:ASP:OD2	2.06	0.55
1:A:298:ILE:HG12	1:A:356:ILE:HD11	1.89	0.55
1:A:305:ALA:HA	1:A:308:ILE:HG13	1.88	0.55
1:A:379:LEU:O	1:A:383:LYS:N	2.20	0.55
1:B:47:LYS:O	1:B:64:ASP:HB2	2.07	0.55
1:B:165:GLU:C	1:B:167:GLY:H	2.08	0.55
1:B:256:MET:CE	1:H:466:TYR:HA	2.37	0.55
1:B:298:ILE:HG12	1:B:356:ILE:HD11	1.89	0.55
1:B:425:ARG:O	1:B:428:LEU:HB2	2.06	0.55
1:E:90:ASP:O	1:E:91:ILE:O	2.21	0.55
1:E:298:ILE:HG12	1:E:356:ILE:HD11	1.89	0.55
1:F:47:LYS:O	1:F:64:ASP:HB2	2.07	0.55
1:F:288:ALA:HB3	1:F:290:LEU:HD12	1.89	0.55
1:F:298:ILE:HG12	1:F:356:ILE:HD11	1.89	0.55
1:F:317:ASN:O	1:F:318:SER:C	2.44	0.55
1:F:396:LEU:HD23	1:F:397:TYR:N	2.21	0.55
1:G:42:PHE:CE1	1:G:66:VAL:CG1	2.89	0.55
1:G:214:ALA:HB1	1:G:263:ASP:OD2	2.06	0.55
1:G:296:TYR:CB	1:G:382:ILE:CA	2.84	0.55
1:G:298:ILE:HG12	1:G:356:ILE:HD11	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:317:ASN:O	1:G:318:SER:C	2.44	0.55
1:H:298:ILE:HG12	1:H:356:ILE:HD11	1.89	0.55
1:H:392:MET:HA	1:H:392:MET:CE	2.23	0.55
1:I:78:PRO:CB	1:I:79:PHE:CD2	2.89	0.55
1:I:90:ASP:O	1:I:91:ILE:O	2.21	0.55
1:I:298:ILE:HG12	1:I:356:ILE:HD11	1.89	0.55
1:K:75:VAL:CG1	1:K:78:PRO:CD	2.71	0.55
1:K:214:ALA:HB1	1:K:263:ASP:OD2	2.06	0.55
1:K:298:ILE:HG12	1:K:356:ILE:HD11	1.89	0.55
1:K:336:ALA:N	1:K:345:ILE:CD1	2.69	0.55
1:K:435:THR:HB	1:K:437:GLU:HB2	1.89	0.55
1:L:47:LYS:O	1:L:64:ASP:HB2	2.07	0.55
1:L:296:TYR:CB	1:L:382:ILE:CA	2.84	0.55
1:L:298:ILE:HG12	1:L:356:ILE:HD11	1.89	0.55
1:L:337:ARG:O	1:L:339:ARG:N	2.40	0.55
1:A:296:TYR:CB	1:A:382:ILE:CA	2.84	0.54
1:B:13:GLU:C	1:B:14:VAL:HG13	2.27	0.54
1:B:21:PHE:CE1	1:B:31:VAL:O	2.60	0.54
1:B:297:TYR:O	1:B:301:VAL:HG23	2.07	0.54
1:C:258:LYS:N	1:C:317:ASN:HD21	2.05	0.54
1:C:297:TYR:O	1:C:301:VAL:HG23	2.07	0.54
1:C:298:ILE:HG12	1:C:356:ILE:HD11	1.89	0.54
1:D:21:PHE:CE1	1:D:31:VAL:O	2.60	0.54
1:D:348:VAL:HB	1:D:354:ARG:HH11	1.72	0.54
1:E:9:LEU:CD1	1:E:14:VAL:HG21	2.34	0.54
1:E:207:GLU:O	1:E:208:ALA:HB2	2.07	0.54
1:F:465:TYR:HD2	1:L:315:THR:OG1	1.81	0.54
1:G:2:ALA:O	1:G:6:LEU:CB	2.49	0.54
1:G:49:PHE:HD2	1:G:49:PHE:N	2.02	0.54
1:G:142:ALA:HA	1:G:147:SER:HA	1.89	0.54
1:G:258:LYS:N	1:G:317:ASN:HD21	2.05	0.54
1:H:288:ALA:HB3	1:H:290:LEU:HD12	1.89	0.54
1:H:305:ALA:HA	1:H:308:ILE:HG13	1.88	0.54
1:I:13:GLU:C	1:I:14:VAL:HG13	2.27	0.54
1:I:214:ALA:HB1	1:I:263:ASP:OD2	2.06	0.54
1:I:348:VAL:HB	1:I:354:ARG:HH11	1.72	0.54
1:J:17:VAL:HA	1:J:83:SER:O	2.07	0.54
1:J:47:LYS:O	1:J:64:ASP:HB2	2.07	0.54
1:K:28:GLU:C	1:K:29:GLN:HG2	2.27	0.54
1:K:105:ARG:NH2	1:K:233:ASP:CG	2.55	0.54
1:K:258:LYS:N	1:K:317:ASN:HD21	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:264:ASN:O	1:K:265:GLY:C	2.45	0.54
1:K:345:ILE:HG12	1:K:345:ILE:O	2.06	0.54
1:L:46:GLY:HA2	1:L:66:VAL:HG23	1.89	0.54
1:A:2:ALA:O	1:A:6:LEU:CB	2.49	0.54
1:A:89:CYS:HB3	1:A:103:ASP:OD2	2.07	0.54
1:A:256:MET:CE	1:G:466:TYR:HA	2.38	0.54
1:A:297:TYR:O	1:A:301:VAL:HG23	2.08	0.54
1:A:414:LEU:CD2	1:A:414:LEU:C	2.76	0.54
1:A:435:THR:HB	1:A:437:GLU:HB2	1.89	0.54
1:B:296:TYR:CB	1:B:382:ILE:CA	2.84	0.54
1:B:403:GLU:HA	1:B:406:GLU:HB2	1.89	0.54
1:C:9:LEU:CD1	1:C:14:VAL:HG21	2.34	0.54
1:C:75:VAL:CG1	1:C:78:PRO:CD	2.70	0.54
1:C:122:ASP:HB2	1:C:276:LYS:CD	2.37	0.54
1:C:214:ALA:HB1	1:C:263:ASP:OD2	2.06	0.54
1:C:336:ALA:N	1:C:345:ILE:CD1	2.69	0.54
1:C:366:ASN:C	1:C:368:TYR:N	2.57	0.54
1:C:403:GLU:HA	1:C:406:GLU:HB2	1.89	0.54
1:D:173:PRO:O	1:D:215:THR:HA	2.06	0.54
1:E:297:TYR:O	1:E:301:VAL:HG23	2.08	0.54
1:E:435:THR:HB	1:E:437:GLU:HB2	1.89	0.54
1:F:13:GLU:C	1:F:14:VAL:HG13	2.27	0.54
1:F:16:PHE:H	1:F:35:ALA:N	2.06	0.54
1:F:121:ALA:HB1	1:F:275:ALA:O	2.08	0.54
1:F:315:THR:HG23	1:F:449:GLU:OE1	2.06	0.54
1:G:9:LEU:CD1	1:G:14:VAL:HG21	2.34	0.54
1:G:36:HIS:C	1:G:38:VAL:N	2.60	0.54
1:G:46:GLY:HA2	1:G:66:VAL:HG23	1.89	0.54
1:G:297:TYR:O	1:G:301:VAL:HG23	2.08	0.54
1:G:331:MET:HE3	1:G:396:LEU:HB2	1.89	0.54
1:G:414:LEU:CD2	1:G:414:LEU:C	2.76	0.54
1:G:435:THR:HB	1:G:437:GLU:HB2	1.89	0.54
1:H:47:LYS:O	1:H:64:ASP:HB2	2.07	0.54
1:H:214:ALA:HB1	1:H:263:ASP:OD2	2.06	0.54
1:I:207:GLU:O	1:I:208:ALA:HB2	2.07	0.54
1:I:297:TYR:O	1:I:301:VAL:HG23	2.07	0.54
1:J:21:PHE:CE1	1:J:31:VAL:O	2.60	0.54
1:J:78:PRO:CB	1:J:79:PHE:CD2	2.89	0.54
1:K:38:VAL:HG22	1:K:42:PHE:CE1	2.42	0.54
1:K:403:GLU:HA	1:K:406:GLU:HB2	1.89	0.54
1:L:21:PHE:CE1	1:L:31:VAL:O	2.60	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:75:VAL:CG1	1:L:78:PRO:CD	2.71	0.54
1:L:122:ASP:HB2	1:L:276:LYS:CD	2.37	0.54
1:L:297:TYR:O	1:L:301:VAL:HG23	2.08	0.54
1:L:403:GLU:HA	1:L:406:GLU:HB2	1.89	0.54
1:L:425:ARG:HB3	1:L:429:LYS:HD3	1.88	0.54
1:A:9:LEU:CD1	1:A:14:VAL:HG21	2.34	0.54
1:A:46:GLY:HA2	1:A:66:VAL:HG23	1.89	0.54
1:B:38:VAL:HG22	1:B:42:PHE:CE1	2.42	0.54
1:B:122:ASP:HB2	1:B:276:LYS:CD	2.37	0.54
1:B:337:ARG:O	1:B:339:ARG:N	2.41	0.54
1:C:28:GLU:C	1:C:29:GLN:HG2	2.27	0.54
1:C:317:ASN:O	1:C:318:SER:C	2.44	0.54
1:C:322:LEU:HD21	1:C:360:PHE:HB2	1.90	0.54
1:C:449:GLU:CD	1:I:465:TYR:CE2	2.81	0.54
1:C:465:TYR:CE2	1:I:449:GLU:CD	2.81	0.54
1:D:40:ALA:H	1:D:43:PHE:HD1	1.54	0.54
1:D:78:PRO:CB	1:D:79:PHE:CD2	2.89	0.54
1:E:13:GLU:C	1:E:14:VAL:HG13	2.27	0.54
1:E:264:ASN:O	1:E:265:GLY:C	2.44	0.54
1:F:40:ALA:H	1:F:43:PHE:HD1	1.54	0.54
1:F:68:MET:HE2	1:F:88:ARG:CB	2.23	0.54
1:G:20:ARG:CG	1:G:28:GLU:CD	2.60	0.54
1:G:89:CYS:HB3	1:G:103:ASP:OD2	2.07	0.54
1:G:122:ASP:HB2	1:G:276:LYS:CD	2.37	0.54
1:G:322:LEU:HD21	1:G:360:PHE:HB2	1.90	0.54
1:H:40:ALA:H	1:H:43:PHE:HD1	1.54	0.54
1:H:121:ALA:HB1	1:H:275:ALA:O	2.08	0.54
1:I:16:PHE:H	1:I:35:ALA:N	2.06	0.54
1:I:264:ASN:O	1:I:265:GLY:C	2.44	0.54
1:J:68:MET:HE3	1:J:88:ARG:CB	2.25	0.54
1:J:118:THR:OG1	1:J:119:GLY:N	2.39	0.54
1:J:297:TYR:O	1:J:301:VAL:HG23	2.07	0.54
1:K:9:LEU:CD1	1:K:14:VAL:HG21	2.34	0.54
1:K:317:ASN:O	1:K:318:SER:C	2.44	0.54
1:K:322:LEU:HD21	1:K:360:PHE:HB2	1.90	0.54
1:K:366:ASN:C	1:K:368:TYR:N	2.57	0.54
1:L:13:GLU:C	1:L:14:VAL:HG13	2.27	0.54
1:L:38:VAL:HG22	1:L:42:PHE:CE1	2.42	0.54
1:L:403:GLU:HB3	1:L:406:GLU:HB2	1.87	0.54
1:A:66:VAL:N	1:A:87:ILE:HG23	2.21	0.54
1:A:228:MET:HE1	1:A:372:ALA:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:337:ARG:O	1:A:339:ARG:N	2.41	0.54
1:B:75:VAL:CG1	1:B:78:PRO:CD	2.70	0.54
1:B:196:CYS:O	1:B:197:LEU:C	2.44	0.54
1:B:315:THR:OG1	1:H:465:TYR:HD2	1.81	0.54
1:B:322:LEU:HD21	1:B:360:PHE:HB2	1.90	0.54
1:B:425:ARG:HB3	1:B:429:LYS:HD3	1.88	0.54
1:C:57:TRP:CD1	1:C:57:TRP:C	2.81	0.54
1:C:288:ALA:HB3	1:C:290:LEU:HD12	1.88	0.54
1:C:337:ARG:O	1:C:339:ARG:N	2.41	0.54
1:C:345:ILE:HG12	1:C:345:ILE:O	2.06	0.54
1:D:118:THR:OG1	1:D:119:GLY:N	2.39	0.54
1:D:121:ALA:HB1	1:D:275:ALA:O	2.08	0.54
1:D:297:TYR:O	1:D:301:VAL:HG23	2.08	0.54
1:E:449:GLU:CD	1:K:465:TYR:CE2	2.81	0.54
1:E:466:TYR:HA	1:K:256:MET:CE	2.38	0.54
1:F:175:VAL:O	1:F:176:LYS:C	2.45	0.54
1:F:214:ALA:HB1	1:F:263:ASP:OD2	2.06	0.54
1:F:366:ASN:C	1:F:368:TYR:N	2.57	0.54
1:F:425:ARG:HB3	1:F:429:LYS:HD3	1.88	0.54
1:F:435:THR:HB	1:F:437:GLU:HB2	1.89	0.54
1:G:362:ASP:C	1:G:364:ALA:N	2.61	0.54
1:H:13:GLU:C	1:H:14:VAL:HG13	2.27	0.54
1:H:38:VAL:HG22	1:H:42:PHE:CE1	2.42	0.54
1:H:54:ILE:CB	1:H:101:ASP:HB2	2.34	0.54
1:H:57:TRP:CD1	1:H:57:TRP:C	2.81	0.54
1:H:315:THR:HG23	1:H:449:GLU:OE1	2.06	0.54
1:H:366:ASN:C	1:H:368:TYR:N	2.57	0.54
1:H:435:THR:HB	1:H:437:GLU:HB2	1.89	0.54
1:I:28:GLU:C	1:I:29:GLN:HG2	2.27	0.54
1:I:435:THR:HB	1:I:437:GLU:HB2	1.89	0.54
1:J:40:ALA:H	1:J:43:PHE:HD1	1.54	0.54
1:J:142:ALA:HA	1:J:147:SER:HA	1.89	0.54
1:J:173:PRO:O	1:J:215:THR:HA	2.06	0.54
1:K:54:ILE:CB	1:K:101:ASP:HB2	2.34	0.54
1:K:67:LEU:O	1:K:69:PRO:N	2.39	0.54
1:K:297:TYR:O	1:K:301:VAL:HG23	2.08	0.54
1:K:337:ARG:O	1:K:339:ARG:N	2.41	0.54
1:L:360:PHE:CG	1:L:361:PRO:HD3	2.43	0.54
1:A:23:ASP:CB	1:A:28:GLU:HA	2.34	0.54
1:A:38:VAL:O	1:A:39:ASN:CB	2.56	0.54
1:A:322:LEU:HD21	1:A:360:PHE:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:331:MET:HE3	1:A:396:LEU:HB2	1.90	0.54
1:A:345:ILE:HG12	1:A:345:ILE:O	2.06	0.54
1:B:264:ASN:O	1:B:265:GLY:C	2.44	0.54
1:B:360:PHE:CG	1:B:361:PRO:HD3	2.43	0.54
1:C:38:VAL:HG22	1:C:42:PHE:CE1	2.42	0.54
1:C:111:ALA:O	1:C:114:TYR:HB3	2.08	0.54
1:C:256:MET:CE	1:I:466:TYR:HA	2.38	0.54
1:D:28:GLU:C	1:D:29:GLN:HG2	2.27	0.54
1:D:63:SER:HG	1:D:91:ILE:HG22	1.73	0.54
1:D:142:ALA:HA	1:D:147:SER:HA	1.89	0.54
1:D:337:ARG:O	1:D:339:ARG:N	2.40	0.54
1:E:16:PHE:H	1:E:35:ALA:N	2.06	0.54
1:E:28:GLU:C	1:E:29:GLN:HG2	2.27	0.54
1:E:46:GLY:HA2	1:E:66:VAL:HG23	1.89	0.54
1:E:256:MET:CE	1:K:466:TYR:HA	2.38	0.54
1:E:465:TYR:CE2	1:K:449:GLU:CD	2.81	0.54
1:F:38:VAL:HG22	1:F:42:PHE:CE1	2.42	0.54
1:F:54:ILE:CD1	1:F:102:ARG:HD3	2.35	0.54
1:F:103:ASP:N	1:F:104:PRO:CD	2.60	0.54
1:F:207:GLU:O	1:F:208:ALA:HB2	2.07	0.54
1:F:258:LYS:N	1:F:317:ASN:HD21	2.05	0.54
1:F:466:TYR:HA	1:L:256:MET:CE	2.38	0.54
1:G:16:PHE:H	1:G:35:ALA:N	2.06	0.54
1:G:38:VAL:O	1:G:39:ASN:CB	2.56	0.54
1:G:345:ILE:HG12	1:G:345:ILE:O	2.06	0.54
1:H:16:PHE:H	1:H:35:ALA:N	2.06	0.54
1:J:16:PHE:H	1:J:35:ALA:N	2.06	0.54
1:K:47:LYS:O	1:K:64:ASP:HB2	2.07	0.54
1:K:57:TRP:CD1	1:K:57:TRP:C	2.81	0.54
1:K:122:ASP:HB2	1:K:276:LYS:CD	2.37	0.54
1:K:288:ALA:HB3	1:K:290:LEU:HD12	1.89	0.54
1:L:264:ASN:O	1:L:265:GLY:C	2.44	0.54
1:L:317:ASN:O	1:L:318:SER:C	2.44	0.54
1:L:338:ASN:HD21	1:L:395:ASN:CA	2.20	0.54
1:A:122:ASP:HB2	1:A:276:LYS:CD	2.37	0.54
1:A:466:TYR:HA	1:G:256:MET:CE	2.38	0.54
1:B:317:ASN:O	1:B:318:SER:C	2.44	0.54
1:C:40:ALA:H	1:C:43:PHE:HD1	1.54	0.54
1:C:46:GLY:HA2	1:C:66:VAL:HG23	1.89	0.54
1:C:54:ILE:CB	1:C:101:ASP:HB2	2.34	0.54
1:C:67:LEU:O	1:C:69:PRO:N	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:360:PHE:CG	1:C:361:PRO:HD3	2.43	0.54
1:C:376:MET:HE3	1:C:433:VAL:CB	2.38	0.54
1:D:58:LYS:HG3	1:E:339:ARG:CB	2.35	0.54
1:E:6:LEU:O	1:E:7:THR:O	2.25	0.54
1:F:57:TRP:CD1	1:F:57:TRP:C	2.81	0.54
1:F:67:LEU:HG	1:F:88:ARG:CB	2.38	0.54
1:F:122:ASP:HB2	1:F:276:LYS:CD	2.37	0.54
1:G:337:ARG:O	1:G:339:ARG:N	2.41	0.54
1:H:103:ASP:N	1:H:104:PRO:CD	2.60	0.54
1:H:122:ASP:HB2	1:H:276:LYS:CD	2.37	0.54
1:H:175:VAL:O	1:H:176:LYS:C	2.45	0.54
1:H:425:ARG:HB3	1:H:429:LYS:HD3	1.88	0.54
1:I:46:GLY:HA2	1:I:66:VAL:HG23	1.89	0.54
1:I:339:ARG:CB	1:J:58:LYS:HG3	2.35	0.54
1:I:376:MET:HE3	1:I:433:VAL:CB	2.37	0.54
1:J:28:GLU:C	1:J:29:GLN:HG2	2.27	0.54
1:J:121:ALA:HB1	1:J:275:ALA:O	2.08	0.54
1:J:322:LEU:HD21	1:J:360:PHE:HB2	1.90	0.54
1:J:337:ARG:O	1:J:339:ARG:N	2.41	0.54
1:J:403:GLU:HA	1:J:406:GLU:HB2	1.89	0.54
1:K:16:PHE:H	1:K:35:ALA:N	2.06	0.54
1:K:46:GLY:HA2	1:K:66:VAL:HG23	1.89	0.54
1:K:337:ARG:HB2	1:L:57:TRP:HE1	1.73	0.54
1:L:16:PHE:H	1:L:35:ALA:N	2.06	0.54
1:L:121:ALA:HB1	1:L:275:ALA:O	2.08	0.54
1:L:322:LEU:HD21	1:L:360:PHE:HB2	1.90	0.54
1:A:68:MET:HE1	1:A:88:ARG:HA	1.90	0.54
1:A:362:ASP:C	1:A:364:ALA:N	2.61	0.54
1:A:449:GLU:CD	1:G:465:TYR:CE2	2.81	0.54
1:A:465:TYR:CE2	1:G:449:GLU:CD	2.81	0.54
1:B:36:HIS:C	1:B:38:VAL:H	1.99	0.54
1:B:78:PRO:CB	1:B:79:PHE:CD2	2.89	0.54
1:B:111:ALA:O	1:B:114:TYR:HB3	2.08	0.54
1:B:121:ALA:HB1	1:B:275:ALA:O	2.08	0.54
1:B:338:ASN:HD21	1:B:395:ASN:CA	2.21	0.54
1:B:465:TYR:CE2	1:H:449:GLU:CD	2.81	0.54
1:B:466:TYR:HA	1:H:256:MET:CE	2.38	0.54
1:C:108:ALA:HB1	1:C:229:THR:OG1	2.08	0.54
1:D:322:LEU:HD21	1:D:360:PHE:HB2	1.90	0.54
1:D:414:LEU:C	1:D:414:LEU:CD2	2.76	0.54
1:D:435:THR:HB	1:D:437:GLU:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:58:LYS:HG3	1:F:339:ARG:CB	2.35	0.54
1:E:376:MET:HE3	1:E:433:VAL:CB	2.36	0.54
1:E:376:MET:HE3	1:E:433:VAL:HG21	1.90	0.54
1:F:46:GLY:HA2	1:F:66:VAL:HG23	1.89	0.54
1:F:54:ILE:CB	1:F:101:ASP:HB2	2.34	0.54
1:F:111:ALA:O	1:F:114:TYR:HB3	2.08	0.54
1:F:256:MET:CE	1:L:466:TYR:HA	2.37	0.54
1:F:449:GLU:CD	1:L:465:TYR:CE2	2.81	0.54
1:G:21:PHE:CE1	1:G:31:VAL:O	2.60	0.54
1:G:66:VAL:N	1:G:87:ILE:HG23	2.21	0.54
1:G:228:MET:HE1	1:G:372:ALA:HA	1.90	0.54
1:H:67:LEU:HG	1:H:88:ARG:CB	2.38	0.54
1:H:258:LYS:N	1:H:317:ASN:HD21	2.05	0.54
1:I:6:LEU:O	1:I:7:THR:O	2.25	0.54
1:J:9:LEU:CD1	1:J:14:VAL:HG21	2.34	0.54
1:J:46:GLY:HA2	1:J:66:VAL:HG23	1.89	0.54
1:J:63:SER:HG	1:J:91:ILE:HG22	1.73	0.54
1:J:414:LEU:C	1:J:414:LEU:CD2	2.76	0.54
1:K:40:ALA:H	1:K:43:PHE:HD1	1.54	0.54
1:K:111:ALA:O	1:K:114:TYR:HB3	2.08	0.54
1:L:57:TRP:CD1	1:L:57:TRP:C	2.81	0.54
1:L:196:CYS:O	1:L:197:LEU:C	2.44	0.54
1:L:331:MET:HE3	1:L:396:LEU:CD1	2.31	0.54
1:A:16:PHE:H	1:A:35:ALA:N	2.06	0.54
1:A:21:PHE:CE1	1:A:31:VAL:O	2.60	0.54
1:A:38:VAL:HG22	1:A:42:PHE:CE1	2.42	0.54
1:A:321:ARG:HG3	1:A:322:LEU:N	2.23	0.54
1:B:57:TRP:CD1	1:B:57:TRP:C	2.81	0.54
1:B:142:ALA:HA	1:B:147:SER:HA	1.89	0.54
1:C:47:LYS:O	1:C:64:ASP:HB2	2.07	0.54
1:C:58:LYS:HG3	1:D:339:ARG:CB	2.35	0.54
1:C:67:LEU:HG	1:C:88:ARG:CB	2.38	0.54
1:C:466:TYR:HA	1:I:256:MET:CE	2.38	0.54
1:D:16:PHE:H	1:D:35:ALA:N	2.06	0.54
1:D:466:TYR:HA	1:J:256:MET:CE	2.38	0.54
1:E:142:ALA:HA	1:E:147:SER:HA	1.89	0.54
1:E:200:GLU:HA	1:E:204:LEU:O	2.08	0.54
1:E:288:ALA:HB3	1:E:290:LEU:HD12	1.89	0.54
1:F:6:LEU:O	1:F:7:THR:O	2.25	0.54
1:F:57:TRP:HD1	1:F:58:LYS:H	1.52	0.54
1:F:264:ASN:O	1:F:265:GLY:C	2.44	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:337:ARG:O	1:F:339:ARG:N	2.41	0.54
1:G:23:ASP:CB	1:G:28:GLU:HA	2.34	0.54
1:G:111:ALA:O	1:G:114:TYR:HB3	2.08	0.54
1:H:57:TRP:HD1	1:H:58:LYS:H	1.51	0.54
1:H:111:ALA:O	1:H:114:TYR:HB3	2.08	0.54
1:H:337:ARG:HB2	1:I:57:TRP:HE1	1.73	0.54
1:I:288:ALA:HB3	1:I:290:LEU:HD12	1.89	0.54
1:I:321:ARG:C	1:I:323:VAL:H	2.11	0.54
1:I:325:GLY:HA3	1:I:328:ALA:CB	2.38	0.54
1:I:366:ASN:C	1:I:368:TYR:N	2.57	0.54
1:J:65:MET:CE	1:J:65:MET:C	2.76	0.54
1:J:435:THR:HB	1:J:437:GLU:HB2	1.89	0.54
1:K:67:LEU:HG	1:K:88:ARG:CB	2.38	0.54
1:K:108:ALA:HB1	1:K:229:THR:OG1	2.08	0.54
1:L:78:PRO:CB	1:L:79:PHE:CD2	2.89	0.54
1:L:111:ALA:O	1:L:114:TYR:HB3	2.08	0.54
1:L:142:ALA:HA	1:L:147:SER:HA	1.89	0.54
1:L:155:GLU:O	1:L:156:GLY:C	2.46	0.54
1:A:366:ASN:C	1:A:368:TYR:N	2.57	0.54
1:B:16:PHE:H	1:B:35:ALA:N	2.06	0.54
1:B:57:TRP:HE1	1:C:337:ARG:HB2	1.73	0.54
1:B:321:ARG:C	1:B:323:VAL:H	2.11	0.54
1:C:16:PHE:H	1:C:35:ALA:N	2.06	0.54
1:C:121:ALA:HB1	1:C:275:ALA:O	2.08	0.54
1:D:65:MET:CE	1:D:65:MET:C	2.76	0.54
1:D:199:MET:HE2	1:D:238:TYR:CD2	2.43	0.54
1:D:465:TYR:CE2	1:J:449:GLU:CD	2.81	0.54
1:E:466:TYR:CZ	1:K:252:THR:HG21	2.33	0.54
1:F:228:MET:O	1:F:229:THR:C	2.46	0.54
1:G:68:MET:HE1	1:G:88:ARG:HA	1.90	0.54
1:G:366:ASN:C	1:G:368:TYR:N	2.57	0.54
1:H:6:LEU:O	1:H:7:THR:O	2.26	0.54
1:H:54:ILE:CD1	1:H:102:ARG:HD3	2.35	0.54
1:H:68:MET:HE2	1:H:88:ARG:CB	2.23	0.54
1:H:207:GLU:O	1:H:208:ALA:HB2	2.07	0.54
1:H:228:MET:O	1:H:229:THR:C	2.46	0.54
1:H:264:ASN:O	1:H:265:GLY:C	2.45	0.54
1:H:337:ARG:O	1:H:339:ARG:N	2.41	0.54
1:I:337:ARG:O	1:I:339:ARG:N	2.40	0.54
1:J:67:LEU:HG	1:J:88:ARG:CB	2.38	0.54
1:J:258:LYS:N	1:J:317:ASN:HD21	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:339:ARG:CB	1:K:58:LYS:HG3	2.35	0.54
1:K:23:ASP:CB	1:K:28:GLU:HA	2.34	0.54
1:K:121:ALA:HB1	1:K:275:ALA:O	2.07	0.54
1:K:360:PHE:CG	1:K:361:PRO:HD3	2.43	0.54
1:L:6:LEU:O	1:L:7:THR:O	2.25	0.54
1:B:6:LEU:O	1:B:7:THR:O	2.26	0.54
1:B:58:LYS:HB3	1:C:337:ARG:CA	2.38	0.54
1:B:214:ALA:HB1	1:B:263:ASP:OD2	2.06	0.54
1:D:6:LEU:O	1:D:7:THR:O	2.25	0.54
1:D:9:LEU:CD1	1:D:14:VAL:HG21	2.34	0.54
1:D:46:GLY:HA2	1:D:66:VAL:HG23	1.89	0.54
1:D:67:LEU:HG	1:D:88:ARG:CB	2.38	0.54
1:D:68:MET:HE1	1:D:88:ARG:CB	2.38	0.54
1:D:256:MET:CE	1:J:466:TYR:HA	2.38	0.54
1:D:258:LYS:N	1:D:317:ASN:HD21	2.05	0.54
1:D:288:ALA:HB3	1:D:290:LEU:HD12	1.89	0.54
1:D:315:THR:CG2	1:J:465:TYR:HE2	2.04	0.54
1:D:362:ASP:C	1:D:364:ALA:N	2.61	0.54
1:E:57:TRP:HE1	1:F:337:ARG:HB2	1.73	0.54
1:E:76:ILE:HD11	1:E:202:MET:SD	2.47	0.54
1:E:258:LYS:N	1:E:317:ASN:HD21	2.05	0.54
1:E:321:ARG:C	1:E:323:VAL:H	2.12	0.54
1:E:366:ASN:C	1:E:368:TYR:N	2.57	0.54
1:G:6:LEU:O	1:G:7:THR:O	2.25	0.54
1:G:38:VAL:HG22	1:G:42:PHE:CE1	2.42	0.54
1:G:121:ALA:HB1	1:G:275:ALA:O	2.08	0.54
1:G:321:ARG:HG3	1:G:322:LEU:N	2.23	0.54
1:G:338:ASN:HD21	1:G:395:ASN:CA	2.21	0.54
1:G:425:ARG:HB3	1:G:429:LYS:HD3	1.89	0.54
1:H:46:GLY:HA2	1:H:66:VAL:HG23	1.89	0.54
1:H:322:LEU:HD21	1:H:360:PHE:HB2	1.90	0.54
1:I:99:GLY:H	1:I:103:ASP:HB2	1.73	0.54
1:I:142:ALA:HA	1:I:147:SER:HA	1.89	0.54
1:J:6:LEU:O	1:J:7:THR:O	2.26	0.54
1:J:108:ALA:HB1	1:J:229:THR:OG1	2.08	0.54
1:J:288:ALA:HB3	1:J:290:LEU:HD12	1.89	0.54
1:J:338:ASN:ND2	1:J:395:ASN:H	1.99	0.54
1:J:362:ASP:C	1:J:364:ALA:N	2.61	0.54
1:K:36:HIS:C	1:K:38:VAL:N	2.60	0.54
1:K:68:MET:HA	1:K:70:ASP:OD2	2.08	0.54
1:A:6:LEU:O	1:A:7:THR:O	2.25	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:111:ALA:O	1:A:114:TYR:HB3	2.08	0.53
1:A:183:PRO:C	1:A:185:VAL:N	2.62	0.53
1:A:425:ARG:HB3	1:A:429:LYS:HD3	1.89	0.53
1:B:40:ALA:H	1:B:43:PHE:HD1	1.54	0.53
1:B:65:MET:CE	1:B:65:MET:C	2.76	0.53
1:B:67:LEU:HG	1:B:88:ARG:CB	2.38	0.53
1:B:325:GLY:HA3	1:B:328:ALA:CB	2.38	0.53
1:B:414:LEU:CD2	1:B:414:LEU:C	2.76	0.53
1:C:6:LEU:O	1:C:7:THR:O	2.25	0.53
1:C:39:ASN:ND2	1:C:42:PHE:HB3	2.23	0.53
1:C:252:THR:HG21	1:I:466:TYR:CZ	2.33	0.53
1:C:338:ASN:HD21	1:C:395:ASN:CA	2.21	0.53
1:D:57:TRP:CD1	1:D:57:TRP:C	2.81	0.53
1:D:57:TRP:HE1	1:E:337:ARG:HB2	1.73	0.53
1:D:321:ARG:C	1:D:323:VAL:H	2.11	0.53
1:D:403:GLU:HA	1:D:406:GLU:HB2	1.89	0.53
1:D:449:GLU:CD	1:J:465:TYR:CE2	2.81	0.53
1:E:65:MET:CE	1:E:65:MET:C	2.76	0.53
1:E:99:GLY:H	1:E:103:ASP:HB2	1.73	0.53
1:E:337:ARG:O	1:E:339:ARG:N	2.41	0.53
1:F:200:GLU:HA	1:F:204:LEU:O	2.08	0.53
1:F:297:TYR:O	1:F:301:VAL:HG23	2.08	0.53
1:F:322:LEU:HD21	1:F:360:PHE:HB2	1.90	0.53
1:F:447:ARG:HH11	1:F:447:ARG:HG2	1.73	0.53
1:G:68:MET:HA	1:G:70:ASP:OD2	2.08	0.53
1:G:183:PRO:C	1:G:185:VAL:N	2.62	0.53
1:H:76:ILE:HD11	1:H:202:MET:SD	2.47	0.53
1:H:339:ARG:CB	1:I:58:LYS:HG3	2.35	0.53
1:H:376:MET:HE3	1:H:433:VAL:CB	2.37	0.53
1:I:76:ILE:HD11	1:I:202:MET:SD	2.47	0.53
1:I:258:LYS:N	1:I:317:ASN:HD21	2.05	0.53
1:J:39:ASN:ND2	1:J:42:PHE:HB3	2.23	0.53
1:K:6:LEU:O	1:K:7:THR:O	2.25	0.53
1:K:315:THR:O	1:K:318:SER:N	2.37	0.53
1:K:337:ARG:CA	1:L:58:LYS:HB3	2.38	0.53
1:L:40:ALA:H	1:L:43:PHE:HD1	1.54	0.53
1:L:214:ALA:HB1	1:L:263:ASP:OD2	2.06	0.53
1:L:321:ARG:C	1:L:323:VAL:H	2.11	0.53
1:L:414:LEU:CD2	1:L:414:LEU:C	2.75	0.53
1:A:108:ALA:HB1	1:A:229:THR:OG1	2.08	0.53
1:A:121:ALA:HB1	1:A:275:ALA:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:338:ASN:HD21	1:A:395:ASN:CA	2.21	0.53
1:A:360:PHE:CG	1:A:361:PRO:HD3	2.43	0.53
1:C:23:ASP:CB	1:C:28:GLU:HA	2.34	0.53
1:C:68:MET:HA	1:C:70:ASP:OD2	2.09	0.53
1:C:142:ALA:HA	1:C:147:SER:HA	1.89	0.53
1:C:449:GLU:CD	1:I:465:TYR:HE2	2.12	0.53
1:D:465:TYR:HE2	1:J:449:GLU:CD	2.12	0.53
1:D:465:TYR:HE2	1:J:315:THR:CG2	2.04	0.53
1:E:39:ASN:ND2	1:E:42:PHE:HB3	2.22	0.53
1:E:322:LEU:HD21	1:E:360:PHE:HB2	1.90	0.53
1:E:325:GLY:HA3	1:E:328:ALA:CB	2.39	0.53
1:E:345:ILE:HG12	1:E:345:ILE:O	2.06	0.53
1:F:76:ILE:HD11	1:F:202:MET:SD	2.47	0.53
1:F:228:MET:HE1	1:F:372:ALA:HA	1.90	0.53
1:F:271:HIS:CD2	1:F:357:GLU:HB2	2.44	0.53
1:G:67:LEU:HG	1:G:88:ARG:CB	2.38	0.53
1:G:68:MET:HE2	1:G:109:LYS:HE3	1.89	0.53
1:G:108:ALA:HB1	1:G:229:THR:OG1	2.08	0.53
1:G:332:LEU:HD11	1:G:410:VAL:N	2.24	0.53
1:H:68:MET:HA	1:H:70:ASP:OD2	2.08	0.53
1:H:297:TYR:O	1:H:301:VAL:HG23	2.07	0.53
1:H:315:THR:O	1:H:318:SER:N	2.37	0.53
1:I:57:TRP:CD1	1:I:57:TRP:C	2.81	0.53
1:I:67:LEU:HG	1:I:88:ARG:CB	2.38	0.53
1:I:228:MET:HE2	1:I:371:PHE:C	2.28	0.53
1:I:345:ILE:HG12	1:I:345:ILE:O	2.06	0.53
1:J:57:TRP:CD1	1:J:57:TRP:C	2.81	0.53
1:J:68:MET:HE1	1:J:88:ARG:CB	2.38	0.53
1:J:199:MET:HE2	1:J:238:TYR:CD2	2.43	0.53
1:K:65:MET:CE	1:K:65:MET:C	2.76	0.53
1:K:142:ALA:HA	1:K:147:SER:HA	1.89	0.53
1:K:338:ASN:HD21	1:K:395:ASN:CA	2.21	0.53
1:L:65:MET:CE	1:L:65:MET:C	2.76	0.53
1:L:165:GLU:C	1:L:167:GLY:H	2.09	0.53
1:L:325:GLY:HA3	1:L:328:ALA:CB	2.39	0.53
1:A:67:LEU:HG	1:A:88:ARG:CB	2.38	0.53
1:A:68:MET:HE2	1:A:109:LYS:HE3	1.89	0.53
1:A:332:LEU:HD11	1:A:410:VAL:N	2.24	0.53
1:B:68:MET:HA	1:B:70:ASP:OD2	2.09	0.53
1:B:449:GLU:CD	1:H:465:TYR:CE2	2.81	0.53
1:D:39:ASN:ND2	1:D:42:PHE:HB3	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:108:ALA:HB1	1:D:229:THR:OG1	2.08	0.53
1:D:111:ALA:O	1:D:114:TYR:HB3	2.08	0.53
1:D:209:HIS:ND1	1:D:209:HIS:C	2.62	0.53
1:D:419:ASN:O	1:D:422:ASP:N	2.42	0.53
1:E:40:ALA:H	1:E:43:PHE:HD1	1.54	0.53
1:E:57:TRP:CD1	1:E:57:TRP:C	2.81	0.53
1:E:133:PHE:CZ	1:E:218:GLN:HG3	2.44	0.53
1:E:228:MET:HE2	1:E:371:PHE:C	2.28	0.53
1:E:447:ARG:HH11	1:E:447:ARG:HG2	1.74	0.53
1:G:65:MET:CE	1:G:65:MET:C	2.76	0.53
1:G:157:ALA:H	1:G:215:THR:CG2	2.09	0.53
1:G:360:PHE:CG	1:G:361:PRO:HD3	2.43	0.53
1:H:200:GLU:HA	1:H:204:LEU:O	2.08	0.53
1:H:447:ARG:HH11	1:H:447:ARG:HG2	1.74	0.53
1:I:65:MET:CE	1:I:65:MET:C	2.76	0.53
1:I:68:MET:HA	1:I:70:ASP:OD2	2.09	0.53
1:I:121:ALA:HB1	1:I:275:ALA:O	2.08	0.53
1:I:133:PHE:CZ	1:I:218:GLN:HG3	2.44	0.53
1:I:200:GLU:HA	1:I:204:LEU:O	2.08	0.53
1:I:228:MET:HE1	1:I:372:ALA:HA	1.88	0.53
1:I:337:ARG:HB2	1:J:57:TRP:HE1	1.73	0.53
1:J:49:PHE:HD2	1:J:49:PHE:N	2.03	0.53
1:J:209:HIS:C	1:J:209:HIS:ND1	2.62	0.53
1:J:295:LEU:O	1:J:388:PRO:HD3	2.08	0.53
1:J:376:MET:HE3	1:J:433:VAL:HG22	1.90	0.53
1:L:39:ASN:ND2	1:L:42:PHE:HB3	2.22	0.53
1:L:67:LEU:HG	1:L:88:ARG:CB	2.38	0.53
1:L:68:MET:HA	1:L:70:ASP:OD2	2.09	0.53
1:L:209:HIS:ND1	1:L:209:HIS:C	2.62	0.53
1:L:435:THR:HB	1:L:437:GLU:HB2	1.89	0.53
1:A:57:TRP:HE1	1:B:337:ARG:HB2	1.73	0.53
1:A:58:LYS:HB3	1:B:337:ARG:CA	2.39	0.53
1:A:65:MET:CE	1:A:65:MET:C	2.76	0.53
1:A:157:ALA:H	1:A:215:THR:CG2	2.09	0.53
1:A:200:GLU:HA	1:A:204:LEU:O	2.08	0.53
1:B:133:PHE:CZ	1:B:218:GLN:HG3	2.44	0.53
1:B:183:PRO:C	1:B:185:VAL:N	2.62	0.53
1:B:228:MET:O	1:B:229:THR:C	2.46	0.53
1:B:321:ARG:HG3	1:B:322:LEU:N	2.23	0.53
1:B:419:ASN:O	1:B:422:ASP:N	2.42	0.53
1:B:435:THR:HB	1:B:437:GLU:HB2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:65:MET:CE	1:C:65:MET:C	2.76	0.53
1:C:465:TYR:HE2	1:I:449:GLU:CD	2.12	0.53
1:D:38:VAL:HG22	1:D:42:PHE:CE1	2.42	0.53
1:D:49:PHE:HD2	1:D:49:PHE:N	2.02	0.53
1:D:99:GLY:H	1:D:103:ASP:HB2	1.73	0.53
1:D:338:ASN:ND2	1:D:395:ASN:H	1.99	0.53
1:D:449:GLU:CD	1:J:465:TYR:HE2	2.12	0.53
1:E:121:ALA:HB1	1:E:275:ALA:O	2.07	0.53
1:E:228:MET:HE1	1:E:372:ALA:HA	1.88	0.53
1:E:315:THR:OG1	1:K:465:TYR:HD2	1.81	0.53
1:E:399:LEU:O	1:E:401:PRO:N	2.42	0.53
1:F:39:ASN:ND2	1:F:42:PHE:HB3	2.22	0.53
1:F:99:GLY:H	1:F:103:ASP:HB2	1.73	0.53
1:F:108:ALA:HB1	1:F:229:THR:OG1	2.08	0.53
1:F:325:GLY:HA3	1:F:328:ALA:CB	2.38	0.53
1:F:399:LEU:O	1:F:401:PRO:N	2.42	0.53
1:F:465:TYR:CE2	1:L:449:GLU:CD	2.81	0.53
1:G:58:LYS:HB3	1:L:337:ARG:CA	2.39	0.53
1:G:209:HIS:C	1:G:209:HIS:ND1	2.61	0.53
1:H:108:ALA:HB1	1:H:229:THR:OG1	2.08	0.53
1:H:325:GLY:HA3	1:H:328:ALA:CB	2.39	0.53
1:H:399:LEU:O	1:H:401:PRO:N	2.42	0.53
1:I:40:ALA:H	1:I:43:PHE:HD1	1.54	0.53
1:I:54:ILE:CD1	1:I:102:ARG:HD3	2.35	0.53
1:I:111:ALA:HA	1:I:376:MET:HE2	1.90	0.53
1:I:322:LEU:HD21	1:I:360:PHE:HB2	1.90	0.53
1:I:331:MET:HE3	1:I:396:LEU:CD1	2.30	0.53
1:J:76:ILE:HD11	1:J:202:MET:SD	2.47	0.53
1:J:321:ARG:C	1:J:323:VAL:H	2.12	0.53
1:K:39:ASN:ND2	1:K:42:PHE:HB3	2.23	0.53
1:K:79:PHE:HB2	1:K:80:PHE:CE1	2.44	0.53
1:L:36:HIS:C	1:L:38:VAL:H	2.00	0.53
1:L:133:PHE:CZ	1:L:218:GLN:HG3	2.44	0.53
1:L:183:PRO:C	1:L:185:VAL:N	2.62	0.53
1:L:228:MET:O	1:L:229:THR:C	2.46	0.53
1:L:419:ASN:O	1:L:422:ASP:N	2.42	0.53
1:A:68:MET:HA	1:A:70:ASP:OD2	2.09	0.53
1:A:209:HIS:ND1	1:A:209:HIS:C	2.62	0.53
1:A:325:GLY:HA3	1:A:328:ALA:CB	2.38	0.53
1:A:399:LEU:O	1:A:401:PRO:N	2.42	0.53
1:C:79:PHE:HB2	1:C:80:PHE:CE1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:89:CYS:HB3	1:C:103:ASP:OD2	2.07	0.53
1:C:454:ARG:HG2	1:C:454:ARG:NH1	2.18	0.53
1:D:58:LYS:CB	1:E:338:ASN:N	2.72	0.53
1:D:68:MET:HA	1:D:70:ASP:OD2	2.08	0.53
1:D:376:MET:HE3	1:D:433:VAL:HG22	1.90	0.53
1:E:54:ILE:CD1	1:E:102:ARG:HD3	2.35	0.53
1:E:58:LYS:HB3	1:F:337:ARG:CA	2.39	0.53
1:E:67:LEU:HG	1:E:88:ARG:CB	2.38	0.53
1:E:68:MET:HA	1:E:70:ASP:OD2	2.09	0.53
1:E:296:TYR:CB	1:E:382:ILE:CA	2.84	0.53
1:E:419:ASN:O	1:E:422:ASP:N	2.42	0.53
1:E:449:GLU:CD	1:K:465:TYR:HE2	2.12	0.53
1:E:465:TYR:HE2	1:K:449:GLU:CD	2.12	0.53
1:G:57:TRP:HE1	1:L:337:ARG:HB2	1.73	0.53
1:G:200:GLU:HA	1:G:204:LEU:O	2.08	0.53
1:G:376:MET:HE3	1:G:433:VAL:CB	2.37	0.53
1:H:99:GLY:H	1:H:103:ASP:HB2	1.73	0.53
1:H:271:HIS:CD2	1:H:357:GLU:HB2	2.44	0.53
1:I:111:ALA:O	1:I:114:TYR:HB3	2.08	0.53
1:I:338:ASN:N	1:J:58:LYS:CB	2.71	0.53
1:I:447:ARG:HG2	1:I:447:ARG:HH11	1.74	0.53
1:J:38:VAL:HG22	1:J:42:PHE:CE1	2.42	0.53
1:J:291:SER:O	1:J:291:SER:OG	2.27	0.53
1:J:392:MET:CE	1:J:392:MET:HA	2.23	0.53
1:J:419:ASN:O	1:J:422:ASP:N	2.42	0.53
1:K:89:CYS:HB3	1:K:103:ASP:OD2	2.07	0.53
1:L:108:ALA:HB1	1:L:229:THR:OG1	2.08	0.53
1:L:321:ARG:HG3	1:L:322:LEU:N	2.23	0.53
1:A:54:ILE:CD1	1:A:102:ARG:HD3	2.35	0.53
1:A:321:ARG:C	1:A:323:VAL:H	2.12	0.53
1:A:376:MET:HE3	1:A:433:VAL:CB	2.38	0.53
1:B:209:HIS:C	1:B:209:HIS:ND1	2.62	0.53
1:B:289:GLY:CA	1:B:354:ARG:HE	2.20	0.53
1:B:466:TYR:CZ	1:H:138:ILE:HG21	2.44	0.53
1:C:315:THR:O	1:C:318:SER:N	2.37	0.53
1:D:291:SER:O	1:D:291:SER:OG	2.27	0.53
1:E:111:ALA:HA	1:E:376:MET:HE2	1.90	0.53
1:E:111:ALA:O	1:E:114:TYR:HB3	2.08	0.53
1:F:133:PHE:CZ	1:F:218:GLN:HG3	2.44	0.53
1:F:138:ILE:HG21	1:L:466:TYR:CZ	2.44	0.53
1:F:321:ARG:C	1:F:323:VAL:H	2.11	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:360:PHE:CG	1:F:361:PRO:HD3	2.43	0.53
1:F:376:MET:HE3	1:F:433:VAL:CB	2.37	0.53
1:G:39:ASN:ND2	1:G:42:PHE:HB2	2.24	0.53
1:G:133:PHE:CZ	1:G:218:GLN:HG3	2.44	0.53
1:G:399:LEU:O	1:G:401:PRO:N	2.42	0.53
1:H:321:ARG:C	1:H:323:VAL:H	2.12	0.53
1:H:321:ARG:HG3	1:H:322:LEU:N	2.23	0.53
1:H:337:ARG:CA	1:I:58:LYS:HB3	2.39	0.53
1:H:338:ASN:N	1:I:58:LYS:CB	2.72	0.53
1:H:360:PHE:CG	1:H:361:PRO:HD3	2.43	0.53
1:I:291:SER:O	1:I:291:SER:OG	2.27	0.53
1:I:296:TYR:CB	1:I:382:ILE:CA	2.84	0.53
1:I:399:LEU:O	1:I:401:PRO:N	2.42	0.53
1:I:419:ASN:O	1:I:422:ASP:N	2.42	0.53
1:I:425:ARG:HD2	1:I:439:ILE:HG21	1.91	0.53
1:J:99:GLY:H	1:J:103:ASP:HB2	1.73	0.53
1:J:111:ALA:O	1:J:114:TYR:HB3	2.08	0.53
1:J:335:SER:H	1:J:345:ILE:CD1	2.22	0.53
1:J:337:ARG:HB2	1:K:57:TRP:HE1	1.73	0.53
1:J:360:PHE:CG	1:J:361:PRO:HD3	2.43	0.53
1:K:49:PHE:HD2	1:K:49:PHE:N	2.03	0.53
1:K:335:SER:H	1:K:345:ILE:CD1	2.22	0.53
1:L:68:MET:HE1	1:L:88:ARG:CB	2.38	0.53
1:L:289:GLY:CA	1:L:354:ARG:HE	2.21	0.53
1:L:376:MET:HE3	1:L:433:VAL:HG22	1.89	0.53
1:B:39:ASN:ND2	1:B:42:PHE:HB3	2.23	0.53
1:B:108:ALA:HB1	1:B:229:THR:OG1	2.08	0.53
1:B:119:GLY:O	1:B:121:ALA:N	2.42	0.53
1:C:321:ARG:C	1:C:323:VAL:H	2.12	0.53
1:D:76:ILE:HD11	1:D:202:MET:SD	2.47	0.53
1:D:295:LEU:O	1:D:388:PRO:HD3	2.09	0.53
1:D:335:SER:H	1:D:345:ILE:CD1	2.22	0.53
1:D:360:PHE:CG	1:D:361:PRO:HD3	2.43	0.53
1:E:58:LYS:CB	1:F:338:ASN:N	2.72	0.53
1:E:425:ARG:HD2	1:E:439:ILE:HG21	1.91	0.53
1:F:68:MET:HA	1:F:70:ASP:OD2	2.09	0.53
1:F:315:THR:O	1:F:318:SER:N	2.37	0.53
1:F:321:ARG:HG3	1:F:322:LEU:N	2.23	0.53
1:G:58:LYS:CB	1:L:338:ASN:N	2.71	0.53
1:G:88:ARG:CD	1:G:109:LYS:HE3	2.38	0.53
1:G:337:ARG:CA	1:H:58:LYS:HB3	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:133:PHE:CZ	1:H:218:GLN:HG3	2.44	0.53
1:H:179:TYR:N	1:H:181:PRO:HD3	2.24	0.53
1:H:335:SER:H	1:H:345:ILE:CD1	2.22	0.53
1:I:39:ASN:ND2	1:I:42:PHE:HB2	2.24	0.53
1:I:39:ASN:ND2	1:I:42:PHE:HB3	2.23	0.53
1:J:337:ARG:CA	1:K:58:LYS:HB3	2.39	0.53
1:K:321:ARG:C	1:K:323:VAL:H	2.11	0.53
1:L:119:GLY:O	1:L:121:ALA:N	2.42	0.53
1:A:39:ASN:ND2	1:A:42:PHE:HB2	2.24	0.53
1:A:39:ASN:ND2	1:A:42:PHE:HB3	2.23	0.53
1:A:58:LYS:CB	1:B:338:ASN:N	2.72	0.53
1:A:88:ARG:CD	1:A:109:LYS:HE3	2.38	0.53
1:A:271:HIS:CD2	1:A:357:GLU:HB2	2.44	0.53
1:A:337:ARG:CA	1:F:58:LYS:HB3	2.39	0.53
1:A:449:GLU:CD	1:G:465:TYR:HE2	2.12	0.53
1:B:332:LEU:HD11	1:B:410:VAL:N	2.23	0.53
1:B:376:MET:HE3	1:B:433:VAL:CB	2.36	0.53
1:B:399:LEU:O	1:B:401:PRO:N	2.42	0.53
1:C:57:TRP:HE1	1:D:337:ARG:HB2	1.73	0.53
1:C:133:PHE:CZ	1:C:218:GLN:HG3	2.44	0.53
1:C:209:HIS:C	1:C:209:HIS:ND1	2.62	0.53
1:C:335:SER:H	1:C:345:ILE:CD1	2.22	0.53
1:D:332:LEU:HD11	1:D:410:VAL:N	2.24	0.53
1:D:392:MET:CE	1:D:392:MET:HA	2.23	0.53
1:E:271:HIS:CD2	1:E:357:GLU:HB2	2.44	0.53
1:E:291:SER:O	1:E:291:SER:OG	2.27	0.53
1:E:295:LEU:O	1:E:388:PRO:HD3	2.09	0.53
1:F:119:GLY:O	1:F:121:ALA:N	2.42	0.53
1:F:209:HIS:C	1:F:209:HIS:ND1	2.62	0.53
1:F:465:TYR:HD2	1:L:315:THR:CB	2.01	0.53
1:G:76:ILE:HD11	1:G:202:MET:SD	2.47	0.53
1:G:271:HIS:CD2	1:G:357:GLU:HB2	2.44	0.53
1:H:119:GLY:O	1:H:121:ALA:N	2.42	0.53
1:H:209:HIS:ND1	1:H:209:HIS:C	2.62	0.53
1:I:304:HIS:O	1:I:308:ILE:CG1	2.53	0.53
1:J:140:PHE:HB3	1:J:149:VAL:HG23	1.91	0.53
1:K:133:PHE:CZ	1:K:218:GLN:HG3	2.44	0.53
1:K:154:ILE:O	1:K:155:GLU:CB	2.50	0.53
1:K:419:ASN:O	1:K:422:ASP:N	2.42	0.53
1:L:399:LEU:O	1:L:401:PRO:N	2.42	0.53
1:A:133:PHE:CZ	1:A:218:GLN:HG3	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:335:SER:H	1:A:345:ILE:CD1	2.22	0.53
1:A:403:GLU:HA	1:A:406:GLU:HB2	1.89	0.53
1:A:425:ARG:HD2	1:A:439:ILE:HG21	1.91	0.53
1:B:79:PHE:HB2	1:B:80:PHE:CE1	2.44	0.53
1:B:461:GLU:HG3	1:H:316:THR:HG21	1.91	0.53
1:C:49:PHE:HD2	1:C:49:PHE:N	2.03	0.53
1:C:419:ASN:O	1:C:422:ASP:N	2.42	0.53
1:D:119:GLY:O	1:D:121:ALA:N	2.42	0.53
1:D:140:PHE:HB3	1:D:149:VAL:HG23	1.91	0.53
1:D:196:CYS:O	1:D:199:MET:N	2.42	0.53
1:D:321:ARG:HG3	1:D:322:LEU:N	2.23	0.53
1:D:338:ASN:HD21	1:D:395:ASN:CA	2.20	0.53
1:E:331:MET:HE2	1:E:396:LEU:CD1	2.30	0.53
1:E:334:TYR:CE1	1:E:388:PRO:HB3	2.44	0.53
1:E:360:PHE:CG	1:E:361:PRO:HD3	2.43	0.53
1:E:414:LEU:CD2	1:E:414:LEU:C	2.76	0.53
1:F:295:LEU:O	1:F:388:PRO:HD3	2.09	0.53
1:F:335:SER:H	1:F:345:ILE:CD1	2.22	0.53
1:F:338:ASN:HD21	1:F:395:ASN:CA	2.20	0.53
1:F:465:TYR:HE2	1:L:449:GLU:CD	2.12	0.53
1:G:39:ASN:ND2	1:G:42:PHE:HB3	2.23	0.53
1:G:297:TYR:HA	1:G:378:GLY:O	2.09	0.53
1:G:321:ARG:C	1:G:323:VAL:H	2.11	0.53
1:G:425:ARG:HD2	1:G:439:ILE:HG21	1.91	0.53
1:H:144:ILE:HG23	1:H:145:SER:H	1.74	0.53
1:H:332:LEU:HD11	1:H:410:VAL:N	2.24	0.53
1:H:338:ASN:HD21	1:H:395:ASN:CA	2.21	0.53
1:I:102:ARG:HB2	1:I:104:PRO:CD	2.11	0.53
1:I:271:HIS:CD2	1:I:357:GLU:HB2	2.44	0.53
1:I:295:LEU:O	1:I:388:PRO:HD3	2.09	0.53
1:I:334:TYR:CE1	1:I:388:PRO:HB3	2.44	0.53
1:I:362:ASP:C	1:I:364:ALA:N	2.61	0.53
1:I:414:LEU:CD2	1:I:414:LEU:C	2.76	0.53
1:J:68:MET:HA	1:J:70:ASP:OD2	2.09	0.53
1:J:133:PHE:CZ	1:J:218:GLN:HG3	2.44	0.53
1:J:179:TYR:N	1:J:181:PRO:HD3	2.24	0.53
1:J:321:ARG:HG3	1:J:322:LEU:N	2.23	0.53
1:K:200:GLU:HA	1:K:204:LEU:O	2.08	0.53
1:L:79:PHE:HB2	1:L:80:PHE:CE1	2.44	0.53
1:L:332:LEU:HD11	1:L:410:VAL:N	2.24	0.53
1:A:76:ILE:HD11	1:A:202:MET:SD	2.47	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:88:ARG:NH2	1:A:109:LYS:HZ2	1.83	0.53
1:A:99:GLY:H	1:A:103:ASP:HB2	1.73	0.53
1:A:465:TYR:HE2	1:G:449:GLU:CD	2.12	0.53
1:B:291:SER:O	1:B:291:SER:OG	2.27	0.53
1:B:449:GLU:CD	1:H:465:TYR:HE2	2.12	0.53
1:C:140:PHE:HB3	1:C:149:VAL:HG23	1.91	0.53
1:C:200:GLU:HA	1:C:204:LEU:O	2.08	0.53
1:C:316:THR:HG21	1:I:461:GLU:HG3	1.91	0.53
1:D:133:PHE:CZ	1:D:218:GLN:HG3	2.44	0.53
1:D:179:TYR:N	1:D:181:PRO:HD3	2.24	0.53
1:E:39:ASN:ND2	1:E:42:PHE:HB2	2.24	0.53
1:E:179:TYR:N	1:E:181:PRO:HD3	2.24	0.53
1:E:209:HIS:ND1	1:E:209:HIS:C	2.62	0.53
1:E:304:HIS:O	1:E:308:ILE:CG1	2.53	0.53
1:F:179:TYR:N	1:F:181:PRO:HD3	2.24	0.53
1:F:425:ARG:HD2	1:F:439:ILE:HG21	1.91	0.53
1:G:54:ILE:CD1	1:G:102:ARG:HD3	2.35	0.53
1:G:403:GLU:HA	1:G:406:GLU:HB2	1.89	0.53
1:H:39:ASN:ND2	1:H:42:PHE:HB3	2.23	0.53
1:H:98:GLN:O	1:H:98:GLN:CG	2.51	0.53
1:H:183:PRO:C	1:H:185:VAL:N	2.62	0.53
1:H:419:ASN:O	1:H:422:ASP:N	2.42	0.53
1:I:209:HIS:ND1	1:I:209:HIS:C	2.62	0.53
1:I:321:ARG:HG3	1:I:322:LEU:N	2.23	0.53
1:J:79:PHE:HB2	1:J:80:PHE:CE1	2.44	0.53
1:J:196:CYS:O	1:J:199:MET:N	2.42	0.53
1:K:67:LEU:CG	1:K:88:ARG:HB3	2.39	0.53
1:K:209:HIS:C	1:K:209:HIS:ND1	2.62	0.53
1:L:49:PHE:CD2	1:L:49:PHE:N	2.71	0.53
1:A:119:GLY:O	1:A:121:ALA:N	2.42	0.52
1:A:338:ASN:N	1:F:58:LYS:CB	2.72	0.52
1:B:39:ASN:ND2	1:B:42:PHE:HB2	2.24	0.52
1:B:68:MET:HE1	1:B:88:ARG:CB	2.38	0.52
1:B:99:GLY:H	1:B:103:ASP:HB2	1.73	0.52
1:C:58:LYS:HB3	1:D:337:ARG:CA	2.39	0.52
1:C:183:PRO:C	1:C:185:VAL:N	2.62	0.52
1:C:228:MET:HE1	1:C:372:ALA:HA	1.90	0.52
1:D:58:LYS:HB3	1:E:337:ARG:CA	2.39	0.52
1:D:274:LEU:HD12	1:D:282:PHE:CE1	2.44	0.52
1:D:334:TYR:CE1	1:D:388:PRO:HB3	2.44	0.52
1:E:119:GLY:O	1:E:121:ALA:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:175:VAL:O	1:E:176:LYS:C	2.45	0.52
1:F:183:PRO:C	1:F:185:VAL:N	2.62	0.52
1:F:332:LEU:HD11	1:F:410:VAL:N	2.24	0.52
1:F:419:ASN:O	1:F:422:ASP:N	2.42	0.52
1:G:119:GLY:O	1:G:121:ALA:N	2.42	0.52
1:G:335:SER:H	1:G:345:ILE:CD1	2.22	0.52
1:G:338:ASN:N	1:H:58:LYS:CB	2.72	0.52
1:I:108:ALA:HB1	1:I:229:THR:OG1	2.08	0.52
1:I:119:GLY:O	1:I:121:ALA:N	2.42	0.52
1:I:179:TYR:N	1:I:181:PRO:HD3	2.24	0.52
1:I:337:ARG:CA	1:J:58:LYS:HB3	2.39	0.52
1:I:338:ASN:ND2	1:I:395:ASN:H	1.99	0.52
1:J:36:HIS:C	1:J:38:VAL:N	2.60	0.52
1:J:119:GLY:O	1:J:121:ALA:N	2.42	0.52
1:J:338:ASN:HD21	1:J:395:ASN:CA	2.21	0.52
1:K:140:PHE:HB3	1:K:149:VAL:HG23	1.91	0.52
1:L:179:TYR:N	1:L:181:PRO:HD3	2.24	0.52
1:L:200:GLU:HA	1:L:204:LEU:O	2.08	0.52
1:L:291:SER:O	1:L:291:SER:OG	2.27	0.52
1:L:297:TYR:HA	1:L:378:GLY:O	2.09	0.52
1:L:362:ASP:C	1:L:364:ALA:N	2.61	0.52
1:A:281:LEU:HD23	1:A:293:GLN:HE21	1.74	0.52
1:A:291:SER:O	1:A:291:SER:OG	2.27	0.52
1:A:297:TYR:HA	1:A:378:GLY:O	2.09	0.52
1:B:58:LYS:CB	1:C:338:ASN:N	2.72	0.52
1:B:179:TYR:N	1:B:181:PRO:HD3	2.24	0.52
1:B:200:GLU:HA	1:B:204:LEU:O	2.08	0.52
1:B:297:TYR:HA	1:B:378:GLY:O	2.09	0.52
1:C:67:LEU:CG	1:C:88:ARG:HB3	2.40	0.52
1:C:138:ILE:HG21	1:I:466:TYR:CZ	2.44	0.52
1:C:154:ILE:O	1:C:155:GLU:CB	2.50	0.52
1:C:295:LEU:O	1:C:388:PRO:HD3	2.08	0.52
1:D:79:PHE:HB2	1:D:80:PHE:CE1	2.44	0.52
1:D:316:THR:HG21	1:J:461:GLU:HG3	1.90	0.52
1:D:399:LEU:O	1:D:401:PRO:N	2.42	0.52
1:E:461:GLU:HG3	1:K:316:THR:HG21	1.91	0.52
1:F:142:ALA:HA	1:F:147:SER:HA	1.89	0.52
1:F:316:THR:HG21	1:L:461:GLU:HG3	1.91	0.52
1:F:414:LEU:C	1:F:414:LEU:CD2	2.76	0.52
1:G:99:GLY:H	1:G:103:ASP:HB2	1.73	0.52
1:H:9:LEU:CD1	1:H:14:VAL:HG21	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:88:ARG:CD	1:H:109:LYS:HE3	2.38	0.52
1:H:295:LEU:O	1:H:388:PRO:HD3	2.09	0.52
1:H:339:ARG:O	1:H:341:ALA:N	2.42	0.52
1:H:414:LEU:C	1:H:414:LEU:CD2	2.76	0.52
1:I:360:PHE:CG	1:I:361:PRO:HD3	2.43	0.52
1:J:39:ASN:ND2	1:J:42:PHE:HB2	2.24	0.52
1:J:332:LEU:HD11	1:J:410:VAL:N	2.24	0.52
1:J:334:TYR:CE1	1:J:388:PRO:HB3	2.44	0.52
1:J:399:LEU:O	1:J:401:PRO:N	2.42	0.52
1:K:228:MET:HE1	1:K:372:ALA:HA	1.90	0.52
1:K:295:LEU:O	1:K:388:PRO:HD3	2.09	0.52
1:K:399:LEU:O	1:K:401:PRO:N	2.42	0.52
1:L:39:ASN:ND2	1:L:42:PHE:HB2	2.24	0.52
1:L:67:LEU:CG	1:L:88:ARG:HB3	2.40	0.52
1:L:271:HIS:CD2	1:L:357:GLU:HB2	2.44	0.52
1:B:67:LEU:CG	1:B:88:ARG:HB3	2.40	0.52
1:B:68:MET:HE2	1:B:109:LYS:CE	2.40	0.52
1:C:95:GLY:C	1:C:97:LEU:HD11	2.30	0.52
1:C:339:ARG:O	1:C:341:ALA:N	2.42	0.52
1:C:399:LEU:O	1:C:401:PRO:N	2.42	0.52
1:D:39:ASN:ND2	1:D:42:PHE:HB2	2.24	0.52
1:D:68:MET:HE2	1:D:109:LYS:CE	2.40	0.52
1:D:447:ARG:HH11	1:D:447:ARG:HG2	1.74	0.52
1:D:461:GLU:HG3	1:J:316:THR:HG21	1.91	0.52
1:E:68:MET:HE3	1:E:88:ARG:CB	2.26	0.52
1:E:362:ASP:C	1:E:364:ALA:N	2.61	0.52
1:E:403:GLU:O	1:E:406:GLU:N	2.43	0.52
1:F:9:LEU:CD1	1:F:14:VAL:HG21	2.34	0.52
1:F:88:ARG:CD	1:F:109:LYS:HE3	2.38	0.52
1:F:95:GLY:C	1:F:97:LEU:HD11	2.30	0.52
1:F:227:THR:O	1:F:228:MET:C	2.47	0.52
1:G:281:LEU:HD23	1:G:293:GLN:HE21	1.74	0.52
1:G:291:SER:O	1:G:291:SER:OG	2.27	0.52
1:G:334:TYR:CE1	1:G:388:PRO:HB3	2.44	0.52
1:G:403:GLU:O	1:G:406:GLU:N	2.42	0.52
1:H:3:GLU:OE1	1:H:3:GLU:CA	2.57	0.52
1:H:95:GLY:C	1:H:97:LEU:HD11	2.30	0.52
1:H:142:ALA:HA	1:H:147:SER:HA	1.89	0.52
1:H:366:ASN:N	1:H:366:ASN:OD1	2.42	0.52
1:H:376:MET:HE3	1:H:433:VAL:HG13	1.85	0.52
1:H:409:GLN:C	1:H:411:ALA:H	2.13	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:425:ARG:HD2	1:H:439:ILE:HG21	1.91	0.52
1:I:296:TYR:H	1:I:296:TYR:HD2	1.57	0.52
1:I:366:ASN:N	1:I:366:ASN:OD1	2.42	0.52
1:I:403:GLU:O	1:I:406:GLU:N	2.43	0.52
1:J:274:LEU:HD12	1:J:282:PHE:CE1	2.45	0.52
1:K:99:GLY:H	1:K:103:ASP:HB2	1.73	0.52
1:K:283:SER:OG	1:K:284:GLY:N	2.42	0.52
1:K:332:LEU:HD11	1:K:410:VAL:N	2.24	0.52
1:L:196:CYS:O	1:L:199:MET:N	2.42	0.52
1:L:335:SER:H	1:L:345:ILE:CD1	2.22	0.52
1:L:425:ARG:HD2	1:L:439:ILE:HG21	1.91	0.52
1:A:95:GLY:C	1:A:97:LEU:HD11	2.30	0.52
1:A:256:MET:HE2	1:G:466:TYR:HA	1.90	0.52
1:A:334:TYR:CE1	1:A:388:PRO:HB3	2.44	0.52
1:A:447:ARG:HH11	1:A:447:ARG:HG2	1.74	0.52
1:B:49:PHE:CD2	1:B:49:PHE:N	2.71	0.52
1:B:196:CYS:O	1:B:199:MET:N	2.42	0.52
1:B:283:SER:OG	1:B:284:GLY:N	2.42	0.52
1:B:425:ARG:HD2	1:B:439:ILE:HG21	1.91	0.52
1:C:283:SER:OG	1:C:284:GLY:N	2.42	0.52
1:C:297:TYR:HA	1:C:378:GLY:O	2.09	0.52
1:C:332:LEU:HD11	1:C:410:VAL:N	2.24	0.52
1:C:399:LEU:CG	1:C:402:GLU:HB2	2.40	0.52
1:D:376:MET:HE3	1:D:433:VAL:CB	2.39	0.52
1:D:466:TYR:CZ	1:J:138:ILE:HG21	2.44	0.52
1:E:79:PHE:HB2	1:E:80:PHE:CE1	2.44	0.52
1:E:108:ALA:HB1	1:E:229:THR:OG1	2.08	0.52
1:E:144:ILE:HG23	1:E:145:SER:H	1.75	0.52
1:E:296:TYR:H	1:E:296:TYR:HD2	1.58	0.52
1:E:321:ARG:HG3	1:E:322:LEU:N	2.23	0.52
1:E:466:TYR:CZ	1:K:138:ILE:HG21	2.44	0.52
1:F:3:GLU:OE1	1:F:3:GLU:CA	2.57	0.52
1:F:67:LEU:C	1:F:69:PRO:CD	2.78	0.52
1:F:144:ILE:HG23	1:F:145:SER:H	1.75	0.52
1:F:366:ASN:N	1:F:366:ASN:OD1	2.42	0.52
1:G:20:ARG:NH2	1:G:86:ILE:HG22	2.24	0.52
1:H:196:CYS:O	1:H:199:MET:N	2.42	0.52
1:H:227:THR:O	1:H:228:MET:C	2.48	0.52
1:H:296:TYR:H	1:H:296:TYR:HD2	1.58	0.52
1:H:403:GLU:HB3	1:H:406:GLU:HB2	1.87	0.52
1:I:332:LEU:HD11	1:I:410:VAL:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:338:ASN:HD21	1:I:395:ASN:CA	2.21	0.52
1:J:95:GLY:C	1:J:97:LEU:HD11	2.30	0.52
1:J:271:HIS:CD2	1:J:357:GLU:HB2	2.44	0.52
1:J:308:ILE:O	1:J:311:LEU:N	2.41	0.52
1:K:95:GLY:C	1:K:97:LEU:HD11	2.30	0.52
1:K:183:PRO:C	1:K:185:VAL:N	2.62	0.52
1:K:227:THR:O	1:K:228:MET:C	2.47	0.52
1:L:20:ARG:NH2	1:L:86:ILE:HG22	2.24	0.52
1:L:68:MET:HE2	1:L:109:LYS:CE	2.40	0.52
1:L:334:TYR:CE1	1:L:388:PRO:HB3	2.44	0.52
1:A:20:ARG:NH2	1:A:86:ILE:HG22	2.24	0.52
1:A:79:PHE:HB2	1:A:80:PHE:CE1	2.44	0.52
1:A:403:GLU:O	1:A:406:GLU:N	2.43	0.52
1:B:20:ARG:NH2	1:B:86:ILE:HG22	2.24	0.52
1:B:115:LEU:HD22	1:B:115:LEU:C	2.30	0.52
1:C:283:SER:C	1:C:291:SER:HB3	2.30	0.52
1:C:325:GLY:HA3	1:C:328:ALA:CB	2.38	0.52
1:C:392:MET:HA	1:C:392:MET:CE	2.23	0.52
1:C:461:GLU:HG3	1:I:316:THR:HG21	1.91	0.52
1:D:67:LEU:CG	1:D:88:ARG:HB3	2.40	0.52
1:D:308:ILE:O	1:D:311:LEU:N	2.41	0.52
1:D:315:THR:O	1:D:318:SER:N	2.37	0.52
1:D:442:TYR:O	1:D:443:ILE:C	2.48	0.52
1:E:228:MET:HE1	1:E:372:ALA:CA	2.40	0.52
1:E:316:THR:HG21	1:K:461:GLU:HG3	1.91	0.52
1:E:338:ASN:ND2	1:E:395:ASN:H	1.99	0.52
1:F:23:ASP:CB	1:F:28:GLU:HA	2.34	0.52
1:F:89:CYS:HB3	1:F:103:ASP:OD2	2.07	0.52
1:F:98:GLN:O	1:F:98:GLN:CG	2.51	0.52
1:F:196:CYS:O	1:F:199:MET:N	2.43	0.52
1:F:296:TYR:H	1:F:296:TYR:HD2	1.58	0.52
1:F:403:GLU:HB3	1:F:406:GLU:HB2	1.87	0.52
1:F:409:GLN:C	1:F:411:ALA:H	2.13	0.52
1:G:67:LEU:C	1:G:69:PRO:CD	2.78	0.52
1:G:79:PHE:HB2	1:G:80:PHE:CE1	2.44	0.52
1:G:419:ASN:O	1:G:422:ASP:N	2.42	0.52
1:I:144:ILE:HG23	1:I:145:SER:H	1.75	0.52
1:I:228:MET:HE1	1:I:372:ALA:CA	2.40	0.52
1:I:297:TYR:OH	1:I:375:LEU:HA	2.10	0.52
1:I:335:SER:H	1:I:345:ILE:CD1	2.22	0.52
1:J:67:LEU:CG	1:J:88:ARG:HB3	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:447:ARG:HH11	1:J:447:ARG:HG2	1.74	0.52
1:K:196:CYS:O	1:K:199:MET:N	2.42	0.52
1:K:297:TYR:OH	1:K:375:LEU:HA	2.10	0.52
1:K:309:ASN:HB2	1:K:313:ASN:HB2	1.91	0.52
1:K:325:GLY:HA3	1:K:328:ALA:CB	2.38	0.52
1:K:338:ASN:ND2	1:K:395:ASN:H	1.99	0.52
1:K:338:ASN:N	1:L:58:LYS:CB	2.72	0.52
1:K:339:ARG:O	1:K:341:ALA:N	2.42	0.52
1:K:399:LEU:CG	1:K:402:GLU:HB2	2.40	0.52
1:L:115:LEU:C	1:L:115:LEU:HD22	2.30	0.52
1:L:228:MET:HE1	1:L:372:ALA:CA	2.39	0.52
1:L:283:SER:OG	1:L:284:GLY:N	2.42	0.52
1:A:67:LEU:C	1:A:69:PRO:CD	2.78	0.52
1:A:409:GLN:C	1:A:411:ALA:H	2.13	0.52
1:A:419:ASN:O	1:A:422:ASP:N	2.42	0.52
1:B:295:LEU:O	1:B:388:PRO:HD3	2.09	0.52
1:B:334:TYR:CE1	1:B:388:PRO:HB3	2.44	0.52
1:B:335:SER:H	1:B:345:ILE:CD1	2.22	0.52
1:B:362:ASP:C	1:B:364:ALA:N	2.61	0.52
1:B:465:TYR:HE2	1:H:449:GLU:CD	2.12	0.52
1:C:196:CYS:O	1:C:199:MET:N	2.42	0.52
1:C:227:THR:O	1:C:228:MET:C	2.47	0.52
1:C:297:TYR:OH	1:C:375:LEU:HA	2.10	0.52
1:C:309:ASN:HB2	1:C:313:ASN:HB2	1.91	0.52
1:C:403:GLU:O	1:C:406:GLU:N	2.43	0.52
1:D:23:ASP:CB	1:D:28:GLU:HA	2.34	0.52
1:D:95:GLY:C	1:D:97:LEU:HD11	2.30	0.52
1:D:200:GLU:HA	1:D:204:LEU:O	2.08	0.52
1:D:403:GLU:O	1:D:406:GLU:N	2.43	0.52
1:E:9:LEU:HD12	1:E:14:VAL:CG2	2.38	0.52
1:E:65:MET:HE3	1:E:65:MET:CA	2.29	0.52
1:E:102:ARG:HB2	1:E:104:PRO:CD	2.11	0.52
1:E:140:PHE:HB3	1:E:149:VAL:HG23	1.91	0.52
1:E:297:TYR:OH	1:E:375:LEU:HA	2.10	0.52
1:E:332:LEU:HD11	1:E:410:VAL:N	2.24	0.52
1:E:335:SER:H	1:E:345:ILE:CD1	2.22	0.52
1:E:366:ASN:OD1	1:E:366:ASN:N	2.42	0.52
1:E:401:PRO:O	1:E:404:ALA:N	2.43	0.52
1:F:79:PHE:HB2	1:F:80:PHE:CE1	2.44	0.52
1:G:54:ILE:CB	1:G:101:ASP:HB2	2.34	0.52
1:G:68:MET:HE2	1:G:109:LYS:CE	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:95:GLY:C	1:G:97:LEU:HD11	2.30	0.52
1:G:179:TYR:N	1:G:181:PRO:HD3	2.24	0.52
1:G:409:GLN:C	1:G:411:ALA:H	2.13	0.52
1:H:23:ASP:CB	1:H:28:GLU:HA	2.34	0.52
1:H:89:CYS:HB3	1:H:103:ASP:OD2	2.07	0.52
1:H:115:LEU:C	1:H:115:LEU:HD22	2.30	0.52
1:H:297:TYR:OH	1:H:375:LEU:HA	2.10	0.52
1:I:68:MET:HE2	1:I:109:LYS:CE	2.40	0.52
1:I:175:VAL:O	1:I:176:LYS:C	2.45	0.52
1:I:228:MET:O	1:I:229:THR:C	2.46	0.52
1:J:297:TYR:OH	1:J:375:LEU:HA	2.10	0.52
1:J:403:GLU:O	1:J:406:GLU:N	2.43	0.52
1:K:68:MET:HE2	1:K:109:LYS:HE3	1.91	0.52
1:K:90:ASP:O	1:K:91:ILE:O	2.21	0.52
1:K:271:HIS:CD2	1:K:357:GLU:HB2	2.44	0.52
1:K:283:SER:C	1:K:291:SER:HB3	2.30	0.52
1:K:297:TYR:HA	1:K:378:GLY:O	2.09	0.52
1:K:392:MET:HA	1:K:392:MET:CE	2.23	0.52
1:L:88:ARG:CD	1:L:109:LYS:HE3	2.38	0.52
1:L:99:GLY:H	1:L:103:ASP:HB2	1.73	0.52
1:A:27:LYS:HZ2	1:A:239:LYS:HE3	1.75	0.52
1:A:68:MET:HE2	1:A:109:LYS:CE	2.40	0.52
1:A:112:GLU:O	1:A:115:LEU:CB	2.58	0.52
1:A:144:ILE:HG23	1:A:145:SER:H	1.75	0.52
1:A:179:TYR:N	1:A:181:PRO:HD3	2.24	0.52
1:B:67:LEU:C	1:B:69:PRO:HD3	2.30	0.52
1:B:138:ILE:HG21	1:H:466:TYR:CZ	2.44	0.52
1:B:144:ILE:HG23	1:B:145:SER:H	1.74	0.52
1:B:271:HIS:CD2	1:B:357:GLU:HB2	2.44	0.52
1:B:281:LEU:HD23	1:B:293:GLN:HE21	1.74	0.52
1:C:68:MET:HE2	1:C:109:LYS:HE3	1.91	0.52
1:C:271:HIS:CD2	1:C:357:GLU:HB2	2.44	0.52
1:C:274:LEU:HD12	1:C:282:PHE:CE1	2.44	0.52
1:D:138:ILE:HG21	1:J:466:TYR:CZ	2.44	0.52
1:D:159:ASN:ND2	1:D:164:TYR:OH	2.43	0.52
1:D:271:HIS:CD2	1:D:357:GLU:HB2	2.44	0.52
1:D:297:TYR:OH	1:D:375:LEU:HA	2.10	0.52
1:D:366:ASN:C	1:D:368:TYR:N	2.57	0.52
1:E:49:PHE:HD2	1:E:49:PHE:N	2.03	0.52
1:E:228:MET:O	1:E:229:THR:C	2.46	0.52
1:E:338:ASN:HD21	1:E:395:ASN:CA	2.21	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:442:TYR:O	1:E:443:ILE:C	2.48	0.52
1:F:115:LEU:HD22	1:F:115:LEU:C	2.30	0.52
1:F:309:ASN:HB2	1:F:313:ASN:HB2	1.91	0.52
1:F:334:TYR:CE1	1:F:388:PRO:HB3	2.44	0.52
1:F:449:GLU:CD	1:L:465:TYR:HE2	2.12	0.52
1:F:466:TYR:CZ	1:L:138:ILE:HG21	2.44	0.52
1:G:67:LEU:CG	1:G:88:ARG:HB3	2.40	0.52
1:G:112:GLU:O	1:G:115:LEU:CB	2.58	0.52
1:G:115:LEU:C	1:G:115:LEU:HD22	2.30	0.52
1:H:65:MET:CE	1:H:65:MET:C	2.76	0.52
1:H:67:LEU:C	1:H:69:PRO:CD	2.78	0.52
1:H:79:PHE:HB2	1:H:80:PHE:CE1	2.44	0.52
1:H:309:ASN:HB2	1:H:313:ASN:HB2	1.91	0.52
1:H:334:TYR:CE1	1:H:388:PRO:HB3	2.44	0.52
1:I:68:MET:HE3	1:I:88:ARG:CB	2.26	0.52
1:I:79:PHE:HB2	1:I:80:PHE:CE1	2.44	0.52
1:I:95:GLY:C	1:I:97:LEU:HD11	2.30	0.52
1:I:376:MET:CE	1:I:433:VAL:CG2	2.87	0.52
1:I:442:TYR:O	1:I:443:ILE:C	2.48	0.52
1:J:68:MET:HE2	1:J:109:LYS:CE	2.40	0.52
1:J:315:THR:O	1:J:318:SER:N	2.37	0.52
1:J:376:MET:HE3	1:J:433:VAL:CB	2.39	0.52
1:J:442:TYR:O	1:J:443:ILE:C	2.48	0.52
1:K:403:GLU:O	1:K:406:GLU:N	2.43	0.52
1:L:281:LEU:HD23	1:L:293:GLN:HE21	1.74	0.52
1:L:295:LEU:O	1:L:388:PRO:HD3	2.09	0.52
1:L:403:GLU:O	1:L:406:GLU:N	2.43	0.52
1:L:409:GLN:C	1:L:411:ALA:H	2.13	0.52
1:L:447:ARG:HH11	1:L:447:ARG:HG2	1.74	0.52
1:A:67:LEU:CG	1:A:88:ARG:HB3	2.40	0.52
1:A:295:LEU:O	1:A:388:PRO:HD3	2.09	0.52
1:A:466:TYR:HA	1:G:256:MET:HE2	1.90	0.52
1:B:297:TYR:OH	1:B:375:LEU:HA	2.10	0.52
1:B:403:GLU:O	1:B:406:GLU:N	2.43	0.52
1:B:409:GLN:C	1:B:411:ALA:H	2.13	0.52
1:C:179:TYR:N	1:C:181:PRO:HD3	2.24	0.52
1:C:414:LEU:CD2	1:C:414:LEU:C	2.75	0.52
1:D:144:ILE:HG23	1:D:145:SER:H	1.75	0.52
1:E:68:MET:HE2	1:E:109:LYS:CE	2.40	0.52
1:E:138:ILE:HG21	1:K:466:TYR:CZ	2.44	0.52
1:E:274:LEU:HD12	1:E:282:PHE:CE1	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:67:LEU:C	1:F:69:PRO:HD3	2.30	0.52
1:F:297:TYR:OH	1:F:375:LEU:HA	2.10	0.52
1:G:295:LEU:O	1:G:388:PRO:HD3	2.09	0.52
1:G:399:LEU:CG	1:G:402:GLU:HB2	2.40	0.52
1:H:297:TYR:HA	1:H:378:GLY:O	2.09	0.52
1:I:196:CYS:O	1:I:199:MET:N	2.42	0.52
1:I:401:PRO:O	1:I:404:ALA:N	2.43	0.52
1:J:159:ASN:ND2	1:J:164:TYR:OH	2.43	0.52
1:J:200:GLU:HA	1:J:204:LEU:O	2.08	0.52
1:J:338:ASN:N	1:K:58:LYS:CB	2.72	0.52
1:K:179:TYR:N	1:K:181:PRO:HD3	2.24	0.52
1:K:294:ALA:O	1:K:297:TYR:CB	2.58	0.52
1:K:409:GLN:C	1:K:411:ALA:H	2.13	0.52
1:K:425:ARG:HD2	1:K:439:ILE:HG21	1.91	0.52
1:K:447:ARG:HH11	1:K:447:ARG:HG2	1.74	0.52
1:L:3:GLU:OE1	1:L:3:GLU:CA	2.57	0.52
1:L:297:TYR:OH	1:L:375:LEU:HA	2.10	0.52
1:L:366:ASN:C	1:L:368:TYR:N	2.57	0.52
1:A:115:LEU:HD22	1:A:115:LEU:C	2.30	0.52
1:A:140:PHE:HB3	1:A:149:VAL:HG23	1.91	0.52
1:A:196:CYS:O	1:A:199:MET:N	2.42	0.52
1:A:399:LEU:CG	1:A:402:GLU:HB2	2.40	0.52
1:A:466:TYR:CZ	1:G:138:ILE:HG21	2.44	0.52
1:B:314:PRO:C	1:B:315:THR:O	2.49	0.52
1:B:366:ASN:N	1:B:366:ASN:OD1	2.42	0.52
1:B:447:ARG:HH11	1:B:447:ARG:HG2	1.74	0.52
1:C:99:GLY:H	1:C:103:ASP:HB2	1.73	0.52
1:C:119:GLY:O	1:C:121:ALA:N	2.42	0.52
1:C:321:ARG:HG3	1:C:322:LEU:N	2.23	0.52
1:C:338:ASN:ND2	1:C:395:ASN:H	1.99	0.52
1:C:409:GLN:C	1:C:411:ALA:H	2.13	0.52
1:D:115:LEU:O	1:D:115:LEU:HD22	2.10	0.52
1:D:296:TYR:CB	1:D:382:ILE:CA	2.84	0.52
1:F:39:ASN:ND2	1:F:42:PHE:HB2	2.24	0.52
1:F:68:MET:HE1	1:F:109:LYS:CE	2.40	0.52
1:F:297:TYR:HA	1:F:378:GLY:O	2.09	0.52
1:F:298:ILE:O	1:F:302:ILE:HG13	2.10	0.52
1:G:88:ARG:NH2	1:G:109:LYS:HZ2	1.84	0.52
1:G:144:ILE:HG23	1:G:145:SER:H	1.75	0.52
1:G:276:LYS:HD2	1:G:276:LYS:O	2.10	0.52
1:G:337:ARG:HB2	1:H:57:TRP:HE1	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:403:GLU:HB3	1:G:406:GLU:HB2	1.87	0.52
1:G:447:ARG:HH11	1:G:447:ARG:HG2	1.74	0.52
1:H:20:ARG:NH2	1:H:86:ILE:HG22	2.24	0.52
1:H:39:ASN:ND2	1:H:42:PHE:HB2	2.24	0.52
1:H:442:TYR:O	1:H:443:ILE:C	2.48	0.52
1:I:89:CYS:SG	1:I:103:ASP:CB	2.98	0.52
1:J:23:ASP:CB	1:J:28:GLU:HA	2.34	0.52
1:J:115:LEU:O	1:J:115:LEU:HD22	2.10	0.52
1:K:274:LEU:HD12	1:K:282:PHE:CE1	2.45	0.52
1:K:414:LEU:C	1:K:414:LEU:CD2	2.76	0.52
1:A:54:ILE:CB	1:A:101:ASP:HB2	2.34	0.52
1:A:138:ILE:HG21	1:G:466:TYR:CZ	2.44	0.52
1:A:258:LYS:CA	1:A:317:ASN:HD21	2.23	0.52
1:A:276:LYS:HD2	1:A:276:LYS:O	2.10	0.52
1:A:296:TYR:H	1:A:296:TYR:HD2	1.57	0.52
1:A:392:MET:CE	1:A:392:MET:HA	2.23	0.52
1:A:435:THR:CG2	1:A:437:GLU:HG2	2.40	0.52
1:B:3:GLU:OE1	1:B:3:GLU:CA	2.57	0.52
1:B:88:ARG:CD	1:B:109:LYS:HE3	2.38	0.52
1:C:58:LYS:CB	1:D:338:ASN:N	2.72	0.52
1:C:62:GLU:HB3	1:C:90:ASP:HB2	1.92	0.52
1:C:90:ASP:O	1:C:91:ILE:O	2.21	0.52
1:C:366:ASN:N	1:C:366:ASN:OD1	2.42	0.52
1:C:425:ARG:HD2	1:C:439:ILE:HG21	1.91	0.52
1:C:447:ARG:HH11	1:C:447:ARG:HG2	1.74	0.52
1:C:466:TYR:CZ	1:I:138:ILE:HG21	2.44	0.52
1:D:89:CYS:HB3	1:D:103:ASP:OD2	2.07	0.52
1:D:165:GLU:C	1:D:167:GLY:H	2.09	0.52
1:D:294:ALA:O	1:D:297:TYR:CB	2.58	0.52
1:E:89:CYS:SG	1:E:103:ASP:CB	2.98	0.52
1:E:115:LEU:HD22	1:E:115:LEU:C	2.30	0.52
1:E:136:ASP:HB2	1:E:153:ASP:HA	1.92	0.52
1:E:196:CYS:O	1:E:199:MET:N	2.43	0.52
1:E:294:ALA:O	1:E:297:TYR:CB	2.58	0.52
1:F:65:MET:CE	1:F:65:MET:C	2.76	0.52
1:F:258:LYS:CA	1:F:317:ASN:HD21	2.23	0.52
1:G:140:PHE:HB3	1:G:149:VAL:HG23	1.91	0.52
1:G:196:CYS:O	1:G:199:MET:N	2.42	0.52
1:G:392:MET:HA	1:G:392:MET:CE	2.23	0.52
1:G:435:THR:CG2	1:G:437:GLU:HG2	2.40	0.52
1:H:68:MET:HE1	1:H:109:LYS:CE	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:92:LEU:H	1:H:97:LEU:H	1.51	0.52
1:H:281:LEU:HD23	1:H:293:GLN:HE21	1.74	0.52
1:H:291:SER:O	1:H:291:SER:OG	2.27	0.52
1:I:9:LEU:HD12	1:I:14:VAL:CG2	2.38	0.52
1:I:294:ALA:O	1:I:297:TYR:CB	2.58	0.52
1:I:409:GLN:C	1:I:411:ALA:H	2.13	0.52
1:J:62:GLU:HB3	1:J:90:ASP:HB2	1.92	0.52
1:J:89:CYS:HB3	1:J:103:ASP:OD2	2.07	0.52
1:J:144:ILE:HG23	1:J:145:SER:H	1.75	0.52
1:J:296:TYR:CB	1:J:382:ILE:CA	2.84	0.52
1:J:366:ASN:C	1:J:368:TYR:N	2.57	0.52
1:J:366:ASN:OD1	1:J:366:ASN:N	2.42	0.52
1:J:401:PRO:O	1:J:404:ALA:N	2.43	0.52
1:J:435:THR:CG2	1:J:437:GLU:HG2	2.40	0.52
1:K:136:ASP:HB2	1:K:153:ASP:HA	1.92	0.52
1:L:366:ASN:OD1	1:L:366:ASN:N	2.42	0.52
1:A:159:ASN:ND2	1:A:164:TYR:OH	2.43	0.51
1:A:337:ARG:HB2	1:F:57:TRP:HE1	1.73	0.51
1:A:366:ASN:OD1	1:A:366:ASN:N	2.42	0.51
1:B:294:ALA:O	1:B:297:TYR:CB	2.58	0.51
1:B:339:ARG:O	1:B:341:ALA:N	2.42	0.51
1:B:399:LEU:CG	1:B:402:GLU:HB2	2.40	0.51
1:C:159:ASN:ND2	1:C:164:TYR:OH	2.43	0.51
1:C:294:ALA:O	1:C:297:TYR:CB	2.58	0.51
1:C:298:ILE:O	1:C:302:ILE:HG13	2.10	0.51
1:C:435:THR:CG2	1:C:437:GLU:HG2	2.40	0.51
1:C:442:TYR:O	1:C:443:ILE:C	2.48	0.51
1:D:296:TYR:H	1:D:296:TYR:HD2	1.57	0.51
1:D:309:ASN:HB2	1:D:313:ASN:HB2	1.91	0.51
1:D:401:PRO:O	1:D:404:ALA:N	2.43	0.51
1:D:435:THR:CG2	1:D:437:GLU:HG2	2.40	0.51
1:E:433:VAL:O	1:E:434:PHE:CB	2.58	0.51
1:F:403:GLU:O	1:F:406:GLU:N	2.43	0.51
1:G:159:ASN:ND2	1:G:164:TYR:OH	2.43	0.51
1:G:258:LYS:CA	1:G:317:ASN:HD21	2.23	0.51
1:G:366:ASN:OD1	1:G:366:ASN:N	2.42	0.51
1:H:258:LYS:CA	1:H:317:ASN:HD21	2.23	0.51
1:H:276:LYS:HD2	1:H:276:LYS:O	2.10	0.51
1:H:298:ILE:O	1:H:302:ILE:HG13	2.10	0.51
1:I:49:PHE:CD2	1:I:49:PHE:N	2.71	0.51
1:I:65:MET:HE3	1:I:65:MET:CA	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:112:GLU:O	1:I:115:LEU:CB	2.58	0.51
1:I:140:PHE:HB3	1:I:149:VAL:HG23	1.91	0.51
1:J:90:ASP:O	1:J:91:ILE:O	2.21	0.51
1:J:294:ALA:O	1:J:297:TYR:CB	2.58	0.51
1:K:62:GLU:HB3	1:K:90:ASP:HB2	1.93	0.51
1:K:440:ASP:O	1:K:441:ALA:C	2.49	0.51
1:K:442:TYR:O	1:K:443:ILE:C	2.48	0.51
1:L:258:LYS:CA	1:L:317:ASN:HD21	2.23	0.51
1:L:294:ALA:O	1:L:297:TYR:CB	2.58	0.51
1:L:314:PRO:C	1:L:315:THR:O	2.49	0.51
1:L:399:LEU:CG	1:L:402:GLU:HB2	2.40	0.51
1:A:339:ARG:CB	1:F:58:LYS:HG3	2.35	0.51
1:B:95:GLY:C	1:B:97:LEU:HD11	2.30	0.51
1:B:159:ASN:ND2	1:B:164:TYR:OH	2.43	0.51
1:B:258:LYS:CA	1:B:317:ASN:HD21	2.23	0.51
1:B:276:LYS:HD2	1:B:276:LYS:O	2.10	0.51
1:C:67:LEU:C	1:C:69:PRO:CD	2.78	0.51
1:C:115:LEU:C	1:C:115:LEU:HD22	2.30	0.51
1:C:258:LYS:CA	1:C:317:ASN:HD21	2.23	0.51
1:C:291:SER:O	1:C:291:SER:OG	2.27	0.51
1:C:296:TYR:CB	1:C:382:ILE:CA	2.84	0.51
1:C:440:ASP:O	1:C:441:ALA:C	2.49	0.51
1:D:62:GLU:HB3	1:D:90:ASP:HB2	1.92	0.51
1:D:115:LEU:HD22	1:D:115:LEU:C	2.30	0.51
1:D:136:ASP:HB2	1:D:153:ASP:HA	1.92	0.51
1:D:183:PRO:C	1:D:185:VAL:N	2.62	0.51
1:D:297:TYR:HA	1:D:378:GLY:O	2.09	0.51
1:D:366:ASN:OD1	1:D:366:ASN:N	2.42	0.51
1:D:409:GLN:C	1:D:411:ALA:H	2.13	0.51
1:E:62:GLU:HB3	1:E:90:ASP:HB2	1.93	0.51
1:E:95:GLY:C	1:E:97:LEU:HD11	2.30	0.51
1:E:183:PRO:C	1:E:185:VAL:N	2.62	0.51
1:F:20:ARG:NH2	1:F:86:ILE:HG22	2.24	0.51
1:F:67:LEU:CG	1:F:88:ARG:HB3	2.40	0.51
1:F:115:LEU:O	1:F:115:LEU:HD22	2.10	0.51
1:F:276:LYS:HD2	1:F:276:LYS:O	2.10	0.51
1:F:291:SER:O	1:F:291:SER:OG	2.27	0.51
1:F:376:MET:HE3	1:F:433:VAL:HG13	1.87	0.51
1:F:401:PRO:O	1:F:404:ALA:N	2.43	0.51
1:F:435:THR:CG2	1:F:437:GLU:HG2	2.40	0.51
1:G:331:MET:HE3	1:G:396:LEU:CD1	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:67:LEU:C	1:H:69:PRO:HD3	2.30	0.51
1:H:401:PRO:O	1:H:404:ALA:N	2.43	0.51
1:H:435:THR:CG2	1:H:437:GLU:HG2	2.40	0.51
1:I:27:LYS:HZ3	1:I:239:LYS:HZ1	0.55	0.51
1:I:115:LEU:HD22	1:I:115:LEU:C	2.30	0.51
1:I:136:ASP:HB2	1:I:153:ASP:HA	1.93	0.51
1:I:159:ASN:ND2	1:I:164:TYR:OH	2.43	0.51
1:I:274:LEU:HD12	1:I:282:PHE:CE1	2.45	0.51
1:I:433:VAL:O	1:I:434:PHE:CB	2.58	0.51
1:J:112:GLU:O	1:J:115:LEU:CB	2.58	0.51
1:J:309:ASN:HB2	1:J:313:ASN:HB2	1.92	0.51
1:J:425:ARG:HD2	1:J:439:ILE:HG21	1.91	0.51
1:K:67:LEU:C	1:K:69:PRO:CD	2.78	0.51
1:K:119:GLY:O	1:K:121:ALA:N	2.42	0.51
1:K:276:LYS:HD2	1:K:276:LYS:O	2.10	0.51
1:K:321:ARG:HG3	1:K:322:LEU:N	2.23	0.51
1:K:435:THR:CG2	1:K:437:GLU:HG2	2.40	0.51
1:L:67:LEU:C	1:L:69:PRO:HD3	2.30	0.51
1:L:95:GLY:C	1:L:97:LEU:HD11	2.30	0.51
1:L:140:PHE:HB3	1:L:149:VAL:HG23	1.91	0.51
1:L:228:MET:HE2	1:L:371:PHE:C	2.30	0.51
1:L:276:LYS:HD2	1:L:276:LYS:O	2.10	0.51
1:L:309:ASN:HB2	1:L:313:ASN:HB2	1.91	0.51
1:L:435:THR:CG2	1:L:437:GLU:HG2	2.40	0.51
1:A:309:ASN:HB2	1:A:313:ASN:HB2	1.91	0.51
1:A:403:GLU:HB3	1:A:406:GLU:HB2	1.87	0.51
1:A:461:GLU:HG3	1:G:316:THR:HG21	1.91	0.51
1:B:274:LEU:HD12	1:B:282:PHE:CE1	2.44	0.51
1:B:283:SER:C	1:B:291:SER:HB3	2.30	0.51
1:B:309:ASN:HB2	1:B:313:ASN:HB2	1.91	0.51
1:B:376:MET:HE3	1:B:433:VAL:HG21	1.88	0.51
1:B:435:THR:CG2	1:B:437:GLU:HG2	2.40	0.51
1:C:20:ARG:NH2	1:C:86:ILE:HG22	2.24	0.51
1:C:136:ASP:HB2	1:C:153:ASP:HA	1.93	0.51
1:D:5:VAL:HG11	1:D:43:PHE:HZ	1.76	0.51
1:D:90:ASP:O	1:D:91:ILE:O	2.21	0.51
1:D:112:GLU:O	1:D:115:LEU:CB	2.58	0.51
1:D:350:SER:C	1:D:352:LYS:H	2.13	0.51
1:D:399:LEU:CG	1:D:402:GLU:HB2	2.40	0.51
1:D:425:ARG:HD2	1:D:439:ILE:HG21	1.91	0.51
1:E:112:GLU:O	1:E:115:LEU:CB	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:159:ASN:ND2	1:E:164:TYR:OH	2.43	0.51
1:E:258:LYS:CA	1:E:317:ASN:HD21	2.23	0.51
1:E:409:GLN:C	1:E:411:ALA:H	2.13	0.51
1:F:68:MET:HE3	1:F:88:ARG:CB	2.40	0.51
1:F:159:ASN:ND2	1:F:164:TYR:OH	2.43	0.51
1:F:338:ASN:HB2	1:F:393:ASP:HA	1.93	0.51
1:F:442:TYR:O	1:F:443:ILE:C	2.48	0.51
1:G:274:LEU:HD12	1:G:282:PHE:CE1	2.44	0.51
1:G:283:SER:C	1:G:291:SER:HB3	2.30	0.51
1:G:296:TYR:H	1:G:296:TYR:HD2	1.58	0.51
1:G:309:ASN:HB2	1:G:313:ASN:HB2	1.92	0.51
1:H:89:CYS:SG	1:H:103:ASP:CB	2.98	0.51
1:H:159:ASN:ND2	1:H:164:TYR:OH	2.43	0.51
1:I:183:PRO:C	1:I:185:VAL:N	2.62	0.51
1:I:309:ASN:HB2	1:I:313:ASN:HB2	1.91	0.51
1:I:338:ASN:HB2	1:I:393:ASP:HA	1.93	0.51
1:J:297:TYR:HA	1:J:378:GLY:O	2.09	0.51
1:K:159:ASN:ND2	1:K:164:TYR:OH	2.43	0.51
1:K:296:TYR:CB	1:K:382:ILE:CA	2.84	0.51
1:K:298:ILE:O	1:K:302:ILE:HG13	2.10	0.51
1:K:366:ASN:N	1:K:366:ASN:OD1	2.42	0.51
1:L:49:PHE:HD2	1:L:49:PHE:N	2.03	0.51
1:L:144:ILE:HG23	1:L:145:SER:H	1.75	0.51
1:L:339:ARG:O	1:L:341:ALA:N	2.42	0.51
1:A:331:MET:HE3	1:A:396:LEU:CD1	2.36	0.51
1:A:462:PHE:CE2	1:G:256:MET:SD	3.04	0.51
1:B:27:LYS:HZ2	1:B:239:LYS:HE3	1.74	0.51
1:B:115:LEU:O	1:B:115:LEU:HD22	2.10	0.51
1:B:440:ASP:O	1:B:441:ALA:C	2.49	0.51
1:C:276:LYS:HD2	1:C:276:LYS:O	2.10	0.51
1:C:334:TYR:CE1	1:C:388:PRO:HB3	2.45	0.51
1:C:421:LEU:CD2	1:C:443:ILE:HD11	2.38	0.51
1:D:54:ILE:CD1	1:D:102:ARG:HD3	2.35	0.51
1:D:258:LYS:CA	1:D:317:ASN:HD21	2.23	0.51
1:D:298:ILE:O	1:D:302:ILE:HG13	2.10	0.51
1:E:67:LEU:CG	1:E:88:ARG:HB3	2.40	0.51
1:E:68:MET:HE1	1:E:88:ARG:HA	1.92	0.51
1:E:289:GLY:CA	1:E:354:ARG:HE	2.20	0.51
1:F:89:CYS:SG	1:F:103:ASP:CB	2.99	0.51
1:G:16:PHE:HD1	1:G:79:PHE:CE1	2.27	0.51
1:G:298:ILE:O	1:G:302:ILE:HG13	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:339:ARG:CB	1:H:58:LYS:HG3	2.34	0.51
1:H:67:LEU:CG	1:H:88:ARG:HB3	2.40	0.51
1:H:115:LEU:O	1:H:115:LEU:HD22	2.10	0.51
1:H:338:ASN:HB2	1:H:393:ASP:HA	1.93	0.51
1:H:403:GLU:O	1:H:406:GLU:N	2.43	0.51
1:I:62:GLU:HB3	1:I:90:ASP:HB2	1.93	0.51
1:I:67:LEU:CG	1:I:88:ARG:HB3	2.40	0.51
1:I:68:MET:HE1	1:I:88:ARG:HA	1.92	0.51
1:I:227:THR:O	1:I:228:MET:C	2.48	0.51
1:I:258:LYS:CA	1:I:317:ASN:HD21	2.23	0.51
1:I:271:HIS:CD2	1:I:357:GLU:HG3	2.46	0.51
1:J:3:GLU:OE1	1:J:3:GLU:CA	2.57	0.51
1:J:67:LEU:C	1:J:69:PRO:CD	2.78	0.51
1:J:136:ASP:HB2	1:J:153:ASP:HA	1.93	0.51
1:J:183:PRO:C	1:J:185:VAL:N	2.62	0.51
1:J:296:TYR:H	1:J:296:TYR:HD2	1.57	0.51
1:J:298:ILE:O	1:J:302:ILE:HG13	2.10	0.51
1:J:399:LEU:CG	1:J:402:GLU:HB2	2.40	0.51
1:K:20:ARG:NH2	1:K:86:ILE:HG22	2.24	0.51
1:K:39:ASN:ND2	1:K:42:PHE:HB2	2.24	0.51
1:K:67:LEU:C	1:K:69:PRO:N	2.62	0.51
1:K:258:LYS:CA	1:K:317:ASN:HD21	2.23	0.51
1:K:281:LEU:HD23	1:K:293:GLN:HE21	1.74	0.51
1:K:291:SER:O	1:K:291:SER:OG	2.27	0.51
1:K:334:TYR:CE1	1:K:388:PRO:HB3	2.45	0.51
1:L:54:ILE:CB	1:L:101:ASP:HB2	2.34	0.51
1:L:89:CYS:SG	1:L:103:ASP:CB	2.98	0.51
1:L:159:ASN:ND2	1:L:164:TYR:OH	2.43	0.51
1:L:440:ASP:O	1:L:441:ALA:C	2.49	0.51
1:A:283:SER:C	1:A:291:SER:HB3	2.30	0.51
1:A:298:ILE:O	1:A:302:ILE:HG13	2.10	0.51
1:A:442:TYR:O	1:A:443:ILE:C	2.48	0.51
1:B:54:ILE:CB	1:B:101:ASP:HB2	2.34	0.51
1:B:140:PHE:HB3	1:B:149:VAL:HG23	1.91	0.51
1:C:281:LEU:HD23	1:C:293:GLN:HE21	1.74	0.51
1:D:67:LEU:C	1:D:69:PRO:CD	2.78	0.51
1:D:256:MET:SD	1:J:462:PHE:CE2	3.04	0.51
1:D:462:PHE:CE2	1:J:256:MET:SD	3.04	0.51
1:E:115:LEU:O	1:E:115:LEU:HD22	2.10	0.51
1:E:227:THR:O	1:E:228:MET:C	2.48	0.51
1:E:297:TYR:HA	1:E:378:GLY:O	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:113:ASP:OD2	1:F:113:ASP:C	2.49	0.51
1:F:441:ALA:O	1:F:444:ALA:HB3	2.11	0.51
1:F:462:PHE:CE2	1:L:256:MET:SD	3.04	0.51
1:G:165:GLU:C	1:G:167:GLY:H	2.09	0.51
1:G:442:TYR:O	1:G:443:ILE:C	2.48	0.51
1:H:68:MET:HE3	1:H:88:ARG:CB	2.40	0.51
1:H:441:ALA:O	1:H:444:ALA:HB3	2.11	0.51
1:I:289:GLY:CA	1:I:354:ARG:HE	2.21	0.51
1:I:297:TYR:HA	1:I:378:GLY:O	2.09	0.51
1:J:115:LEU:HD22	1:J:115:LEU:C	2.30	0.51
1:J:258:LYS:CA	1:J:317:ASN:HD21	2.23	0.51
1:J:350:SER:C	1:J:352:LYS:H	2.13	0.51
1:K:67:LEU:C	1:K:69:PRO:HD3	2.30	0.51
1:K:115:LEU:C	1:K:115:LEU:HD22	2.30	0.51
1:K:421:LEU:HD22	1:K:443:ILE:CD1	2.36	0.51
1:L:283:SER:C	1:L:291:SER:HB3	2.30	0.51
1:L:376:MET:HE3	1:L:433:VAL:CB	2.40	0.51
1:A:16:PHE:HD1	1:A:79:PHE:CE1	2.27	0.51
1:A:58:LYS:HB2	1:B:338:ASN:N	2.26	0.51
1:A:256:MET:SD	1:G:462:PHE:CE2	3.04	0.51
1:A:316:THR:HG21	1:G:461:GLU:HG3	1.91	0.51
1:B:49:PHE:HD2	1:B:49:PHE:N	2.03	0.51
1:B:67:LEU:C	1:B:69:PRO:CD	2.78	0.51
1:B:89:CYS:SG	1:B:103:ASP:CB	2.98	0.51
1:B:111:ALA:HA	1:B:376:MET:HE2	1.91	0.51
1:B:136:ASP:HB2	1:B:153:ASP:HA	1.93	0.51
1:B:256:MET:SD	1:H:462:PHE:CE2	3.04	0.51
1:B:271:HIS:CD2	1:B:357:GLU:HG3	2.46	0.51
1:B:298:ILE:O	1:B:302:ILE:HG13	2.10	0.51
1:B:308:ILE:O	1:B:311:LEU:N	2.41	0.51
1:B:316:THR:HG21	1:H:461:GLU:HG3	1.91	0.51
1:C:462:PHE:CE2	1:I:256:MET:SD	3.04	0.51
1:D:58:LYS:HB2	1:E:338:ASN:N	2.26	0.51
1:E:49:PHE:N	1:E:49:PHE:CD2	2.71	0.51
1:E:165:GLU:C	1:E:167:GLY:H	2.08	0.51
1:E:309:ASN:HB2	1:E:313:ASN:HB2	1.92	0.51
1:E:338:ASN:HB2	1:E:393:ASP:HA	1.93	0.51
1:F:314:PRO:C	1:F:315:THR:O	2.49	0.51
1:G:58:LYS:HB2	1:L:338:ASN:N	2.26	0.51
1:G:283:SER:OG	1:G:284:GLY:N	2.43	0.51
1:G:314:PRO:C	1:G:315:THR:O	2.49	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:401:PRO:O	1:G:404:ALA:N	2.43	0.51
1:G:423:LEU:HD12	1:G:423:LEU:N	2.26	0.51
1:G:433:VAL:O	1:G:434:PHE:CB	2.58	0.51
1:H:314:PRO:C	1:H:315:THR:O	2.49	0.51
1:I:125:LEU:HD12	1:I:225:PHE:HD2	1.76	0.51
1:J:28:GLU:HG3	1:J:29:GLN:N	2.25	0.51
1:J:54:ILE:CD1	1:J:102:ARG:HD3	2.35	0.51
1:J:338:ASN:N	1:K:58:LYS:HB2	2.26	0.51
1:L:115:LEU:O	1:L:115:LEU:HD22	2.10	0.51
1:L:136:ASP:HB2	1:L:153:ASP:HA	1.93	0.51
1:L:274:LEU:HD12	1:L:282:PHE:CE1	2.45	0.51
1:L:298:ILE:O	1:L:302:ILE:HG13	2.10	0.51
1:L:442:TYR:O	1:L:443:ILE:C	2.48	0.51
1:A:283:SER:OG	1:A:284:GLY:N	2.42	0.51
1:A:338:ASN:N	1:F:58:LYS:HB2	2.26	0.51
1:A:401:PRO:O	1:A:404:ALA:N	2.43	0.51
1:A:423:LEU:HD12	1:A:423:LEU:N	2.26	0.51
1:B:54:ILE:CD1	1:B:102:ARG:HD3	2.35	0.51
1:B:442:TYR:O	1:B:443:ILE:C	2.48	0.51
1:C:39:ASN:ND2	1:C:42:PHE:HB2	2.24	0.51
1:C:58:LYS:HB2	1:D:338:ASN:N	2.26	0.51
1:C:67:LEU:C	1:C:69:PRO:N	2.63	0.51
1:C:314:PRO:C	1:C:315:THR:O	2.49	0.51
1:C:401:PRO:O	1:C:404:ALA:N	2.43	0.51
1:D:3:GLU:OE1	1:D:3:GLU:CA	2.57	0.51
1:D:113:ASP:C	1:D:113:ASP:OD2	2.49	0.51
1:D:283:SER:OG	1:D:284:GLY:N	2.42	0.51
1:D:423:LEU:HD12	1:D:423:LEU:N	2.26	0.51
1:E:67:LEU:C	1:E:69:PRO:CD	2.78	0.51
1:E:271:HIS:CD2	1:E:357:GLU:HG3	2.46	0.51
1:E:423:LEU:N	1:E:423:LEU:HD12	2.26	0.51
1:E:435:THR:CG2	1:E:437:GLU:HG2	2.40	0.51
1:F:110:ARG:O	1:F:114:TYR:HB3	2.11	0.51
1:F:399:LEU:CG	1:F:402:GLU:HB2	2.40	0.51
1:G:271:HIS:CD2	1:G:357:GLU:HG3	2.46	0.51
1:H:33:ILE:CD1	1:H:34:PRO:HD2	2.41	0.51
1:H:62:GLU:HB3	1:H:90:ASP:HB2	1.92	0.51
1:H:112:GLU:O	1:H:115:LEU:CB	2.58	0.51
1:H:140:PHE:HB3	1:H:149:VAL:HG23	1.91	0.51
1:H:399:LEU:CG	1:H:402:GLU:HB2	2.40	0.51
1:I:67:LEU:C	1:I:69:PRO:CD	2.78	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:115:LEU:O	1:I:115:LEU:HD22	2.10	0.51
1:I:423:LEU:N	1:I:423:LEU:HD12	2.26	0.51
1:I:435:THR:CG2	1:I:437:GLU:HG2	2.40	0.51
1:J:5:VAL:HG11	1:J:43:PHE:HZ	1.76	0.51
1:J:89:CYS:SG	1:J:103:ASP:CB	2.98	0.51
1:J:409:GLN:C	1:J:411:ALA:H	2.13	0.51
1:K:144:ILE:HG23	1:K:145:SER:H	1.74	0.51
1:L:308:ILE:O	1:L:311:LEU:N	2.42	0.51
1:A:271:HIS:CD2	1:A:357:GLU:HG3	2.46	0.51
1:A:314:PRO:C	1:A:315:THR:O	2.49	0.51
1:B:68:MET:HE1	1:B:88:ARG:HA	1.93	0.51
1:C:67:LEU:C	1:C:69:PRO:HD3	2.30	0.51
1:C:115:LEU:O	1:C:115:LEU:HD22	2.10	0.51
1:D:28:GLU:HG3	1:D:29:GLN:N	2.25	0.51
1:D:281:LEU:HD23	1:D:293:GLN:HE21	1.74	0.51
1:E:125:LEU:HD12	1:E:225:PHE:HD2	1.76	0.51
1:E:256:MET:SD	1:K:462:PHE:CE2	3.04	0.51
1:E:332:LEU:N	1:E:332:LEU:CD1	2.72	0.51
1:E:399:LEU:CG	1:E:402:GLU:HB2	2.40	0.51
1:F:62:GLU:HB3	1:F:90:ASP:HB2	1.93	0.51
1:F:140:PHE:HB3	1:F:149:VAL:HG23	1.91	0.51
1:G:27:LYS:HZ2	1:G:239:LYS:HE3	1.76	0.51
1:G:338:ASN:N	1:H:58:LYS:HB2	2.26	0.51
1:G:360:PHE:CD2	1:G:361:PRO:HD3	2.46	0.51
1:H:113:ASP:C	1:H:113:ASP:OD2	2.50	0.51
1:I:283:SER:OG	1:I:284:GLY:N	2.42	0.51
1:I:298:ILE:O	1:I:302:ILE:HG13	2.10	0.51
1:I:338:ASN:N	1:J:58:LYS:HB2	2.26	0.51
1:I:399:LEU:CG	1:I:402:GLU:HB2	2.40	0.51
1:J:27:LYS:HZ2	1:J:239:LYS:HE3	1.75	0.51
1:J:165:GLU:C	1:J:167:GLY:H	2.09	0.51
1:K:28:GLU:HG3	1:K:29:GLN:N	2.25	0.51
1:K:63:SER:HG	1:K:91:ILE:HG22	1.75	0.51
1:K:401:PRO:O	1:K:404:ALA:N	2.43	0.51
1:K:441:ALA:O	1:K:444:ALA:HB3	2.11	0.51
1:L:67:LEU:C	1:L:69:PRO:CD	2.78	0.51
1:L:421:LEU:HD22	1:L:443:ILE:CD1	2.36	0.51
1:A:67:LEU:C	1:A:69:PRO:HD3	2.30	0.51
1:A:115:LEU:O	1:A:115:LEU:HD22	2.10	0.51
1:A:165:GLU:C	1:A:167:GLY:H	2.09	0.51
1:A:360:PHE:CD2	1:A:361:PRO:HD3	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:433:VAL:O	1:A:434:PHE:CB	2.58	0.51
1:B:421:LEU:HD22	1:B:443:ILE:CD1	2.36	0.51
1:B:423:LEU:HD12	1:B:423:LEU:N	2.26	0.51
1:B:462:PHE:CE2	1:H:256:MET:SD	3.04	0.51
1:C:228:MET:O	1:C:229:THR:C	2.46	0.51
1:D:125:LEU:HD12	1:D:225:PHE:HD2	1.76	0.51
1:E:88:ARG:CD	1:E:109:LYS:HE3	2.38	0.51
1:E:276:LYS:HD2	1:E:276:LYS:O	2.10	0.51
1:E:281:LEU:HD23	1:E:293:GLN:HE21	1.74	0.51
1:E:283:SER:OG	1:E:284:GLY:N	2.42	0.51
1:E:298:ILE:O	1:E:302:ILE:HG13	2.10	0.51
1:E:339:ARG:O	1:E:341:ALA:N	2.42	0.51
1:F:33:ILE:CD1	1:F:34:PRO:HD2	2.41	0.51
1:F:107:ILE:HA	1:F:110:ARG:HG3	1.93	0.51
1:F:112:GLU:O	1:F:115:LEU:CB	2.58	0.51
1:F:136:ASP:HB2	1:F:153:ASP:HA	1.93	0.51
1:F:326:TYR:N	1:F:326:TYR:CD2	2.79	0.51
1:G:67:LEU:C	1:G:69:PRO:HD3	2.30	0.51
1:G:115:LEU:O	1:G:115:LEU:HD22	2.10	0.51
1:G:326:TYR:CD2	1:G:326:TYR:N	2.79	0.51
1:H:110:ARG:O	1:H:114:TYR:HB3	2.11	0.51
1:H:136:ASP:HB2	1:H:153:ASP:HA	1.93	0.51
1:H:271:HIS:CD2	1:H:357:GLU:HG3	2.46	0.51
1:H:283:SER:OG	1:H:284:GLY:N	2.43	0.51
1:H:326:TYR:CD2	1:H:326:TYR:N	2.79	0.51
1:H:331:MET:HE3	1:H:396:LEU:CB	2.41	0.51
1:J:113:ASP:OD2	1:J:113:ASP:C	2.49	0.51
1:J:276:LYS:HD2	1:J:276:LYS:O	2.10	0.51
1:J:325:GLY:HA3	1:J:328:ALA:CB	2.38	0.51
1:J:326:TYR:N	1:J:326:TYR:CD2	2.79	0.51
1:K:93:GLU:HG3	1:K:94:PRO:HD3	1.93	0.51
1:K:112:GLU:O	1:K:115:LEU:CB	2.58	0.51
1:A:326:TYR:N	1:A:326:TYR:CD2	2.79	0.51
1:A:441:ALA:O	1:A:444:ALA:HB3	2.11	0.51
1:B:62:GLU:HB3	1:B:90:ASP:HB2	1.93	0.51
1:C:112:GLU:O	1:C:115:LEU:CB	2.58	0.51
1:C:144:ILE:HG23	1:C:145:SER:H	1.75	0.51
1:C:271:HIS:CD2	1:C:357:GLU:HG3	2.46	0.51
1:C:421:LEU:HD22	1:C:443:ILE:CD1	2.36	0.51
1:D:89:CYS:SG	1:D:103:ASP:CB	2.98	0.51
1:D:110:ARG:O	1:D:114:TYR:HB3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:276:LYS:HD2	1:D:276:LYS:O	2.10	0.51
1:D:325:GLY:HA3	1:D:328:ALA:CB	2.38	0.51
1:D:331:MET:HE2	1:D:396:LEU:CD1	2.39	0.51
1:E:107:ILE:HA	1:E:110:ARG:HG3	1.93	0.51
1:F:283:SER:OG	1:F:284:GLY:N	2.43	0.51
1:F:294:ALA:O	1:F:297:TYR:CB	2.58	0.51
1:F:332:LEU:N	1:F:332:LEU:CD1	2.72	0.51
1:F:461:GLU:HG3	1:L:316:THR:HG21	1.91	0.51
1:G:338:ASN:HB2	1:G:393:ASP:HA	1.93	0.51
1:G:441:ALA:O	1:G:444:ALA:HB3	2.11	0.51
1:H:294:ALA:O	1:H:297:TYR:CB	2.58	0.51
1:H:338:ASN:N	1:I:58:LYS:HB2	2.26	0.51
1:I:28:GLU:HG3	1:I:29:GLN:N	2.25	0.51
1:I:88:ARG:CD	1:I:109:LYS:HE3	2.38	0.51
1:I:107:ILE:HA	1:I:110:ARG:HG3	1.93	0.51
1:I:110:ARG:O	1:I:114:TYR:HB3	2.11	0.51
1:I:113:ASP:C	1:I:113:ASP:OD2	2.49	0.51
1:I:276:LYS:HD2	1:I:276:LYS:O	2.10	0.51
1:I:332:LEU:N	1:I:332:LEU:CD1	2.72	0.51
1:I:440:ASP:O	1:I:441:ALA:C	2.49	0.51
1:J:107:ILE:O	1:J:108:ALA:C	2.49	0.51
1:J:271:HIS:CD2	1:J:357:GLU:HG3	2.46	0.51
1:J:283:SER:OG	1:J:284:GLY:N	2.42	0.51
1:J:314:PRO:C	1:J:315:THR:O	2.49	0.51
1:J:423:LEU:HD12	1:J:423:LEU:N	2.26	0.51
1:K:113:ASP:C	1:K:113:ASP:OD2	2.49	0.51
1:L:62:GLU:HB3	1:L:90:ASP:HB2	1.92	0.51
1:L:68:MET:HE1	1:L:88:ARG:HA	1.93	0.51
1:L:271:HIS:CD2	1:L:357:GLU:HG3	2.46	0.51
1:A:89:CYS:SG	1:A:103:ASP:CB	2.98	0.50
1:A:338:ASN:HB2	1:A:393:ASP:HA	1.93	0.50
1:B:107:ILE:O	1:B:108:ALA:C	2.49	0.50
1:B:112:GLU:O	1:B:115:LEU:CB	2.58	0.50
1:B:163:LYS:NZ	1:B:163:LYS:CB	2.74	0.50
1:B:360:PHE:CD2	1:B:361:PRO:HD3	2.46	0.50
1:C:441:ALA:O	1:C:444:ALA:HB3	2.11	0.50
1:D:67:LEU:C	1:D:69:PRO:HD3	2.30	0.50
1:D:107:ILE:O	1:D:108:ALA:C	2.49	0.50
1:D:271:HIS:CD2	1:D:357:GLU:HG3	2.46	0.50
1:E:33:ILE:CD1	1:E:34:PRO:HD2	2.41	0.50
1:E:110:ARG:O	1:E:114:TYR:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:360:PHE:CD2	1:E:361:PRO:HD3	2.46	0.50
1:E:441:ALA:O	1:E:444:ALA:HB3	2.11	0.50
1:F:256:MET:SD	1:L:462:PHE:CE2	3.04	0.50
1:F:271:HIS:CD2	1:F:357:GLU:HG3	2.46	0.50
1:G:294:ALA:O	1:G:297:TYR:CB	2.58	0.50
1:G:325:GLY:HA3	1:G:328:ALA:CB	2.39	0.50
1:G:440:ASP:O	1:G:441:ALA:C	2.49	0.50
1:I:326:TYR:N	1:I:326:TYR:CD2	2.79	0.50
1:K:115:LEU:O	1:K:115:LEU:HD22	2.10	0.50
1:K:125:LEU:HD12	1:K:225:PHE:HD2	1.76	0.50
1:K:271:HIS:CD2	1:K:357:GLU:HG3	2.46	0.50
1:K:308:ILE:O	1:K:311:LEU:N	2.41	0.50
1:K:314:PRO:C	1:K:315:THR:O	2.49	0.50
1:K:326:TYR:CD2	1:K:326:TYR:N	2.79	0.50
1:L:54:ILE:CD1	1:L:102:ARG:HD3	2.35	0.50
1:L:125:LEU:HD12	1:L:225:PHE:HD2	1.75	0.50
1:L:163:LYS:NZ	1:L:163:LYS:CB	2.74	0.50
1:L:360:PHE:CD2	1:L:361:PRO:HD3	2.46	0.50
1:L:401:PRO:O	1:L:404:ALA:N	2.43	0.50
1:L:423:LEU:HD12	1:L:423:LEU:N	2.26	0.50
1:A:125:LEU:HD12	1:A:225:PHE:HD2	1.75	0.50
1:A:297:TYR:OH	1:A:375:LEU:HA	2.10	0.50
1:B:89:CYS:HB3	1:B:103:ASP:OD2	2.07	0.50
1:C:28:GLU:HG3	1:C:29:GLN:N	2.26	0.50
1:C:36:HIS:C	1:C:38:VAL:H	1.99	0.50
1:C:92:LEU:H	1:C:97:LEU:H	1.51	0.50
1:C:113:ASP:C	1:C:113:ASP:OD2	2.49	0.50
1:C:376:MET:HE3	1:C:433:VAL:HG13	1.86	0.50
1:C:465:TYR:HD2	1:I:315:THR:CB	2.02	0.50
1:D:185:VAL:O	1:D:185:VAL:CG1	2.59	0.50
1:D:314:PRO:C	1:D:315:THR:O	2.49	0.50
1:E:28:GLU:HG3	1:E:29:GLN:N	2.25	0.50
1:E:58:LYS:HB2	1:F:338:ASN:N	2.26	0.50
1:E:315:THR:CB	1:K:465:TYR:HD2	2.02	0.50
1:E:440:ASP:O	1:E:441:ALA:C	2.49	0.50
1:F:30:HIS:ND1	1:F:30:HIS:C	2.65	0.50
1:F:274:LEU:HD12	1:F:282:PHE:CE1	2.44	0.50
1:F:331:MET:HE3	1:F:396:LEU:CB	2.41	0.50
1:F:433:VAL:O	1:F:434:PHE:CB	2.58	0.50
1:G:89:CYS:SG	1:G:103:ASP:CB	2.98	0.50
1:G:228:MET:O	1:G:229:THR:C	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:297:TYR:O	1:G:299:GLY:N	2.45	0.50
1:G:297:TYR:OH	1:G:375:LEU:HA	2.10	0.50
1:H:107:ILE:HA	1:H:110:ARG:HG3	1.94	0.50
1:H:332:LEU:N	1:H:332:LEU:CD1	2.72	0.50
1:H:433:VAL:O	1:H:434:PHE:CB	2.58	0.50
1:I:16:PHE:HD1	1:I:79:PHE:CE1	2.27	0.50
1:I:30:HIS:C	1:I:30:HIS:ND1	2.65	0.50
1:I:65:MET:HB3	1:I:67:LEU:CD2	2.10	0.50
1:I:337:ARG:CG	1:I:338:ASN:N	2.71	0.50
1:I:441:ALA:O	1:I:444:ALA:HB3	2.11	0.50
1:J:67:LEU:C	1:J:69:PRO:HD3	2.30	0.50
1:J:110:ARG:O	1:J:114:TYR:HB3	2.11	0.50
1:J:125:LEU:HD12	1:J:225:PHE:HD2	1.76	0.50
1:J:185:VAL:O	1:J:185:VAL:CG1	2.59	0.50
1:J:281:LEU:HD23	1:J:293:GLN:HE21	1.74	0.50
1:J:441:ALA:O	1:J:444:ALA:HB3	2.11	0.50
1:A:41:GLU:O	1:A:44:GLU:N	2.45	0.50
1:A:185:VAL:O	1:A:185:VAL:CG1	2.59	0.50
1:A:294:ALA:O	1:A:297:TYR:CB	2.58	0.50
1:A:297:TYR:O	1:A:299:GLY:N	2.45	0.50
1:A:440:ASP:O	1:A:441:ALA:C	2.49	0.50
1:B:58:LYS:HB2	1:C:338:ASN:N	2.26	0.50
1:C:110:ARG:O	1:C:114:TYR:HB3	2.11	0.50
1:C:125:LEU:HD12	1:C:225:PHE:HD2	1.76	0.50
1:C:256:MET:SD	1:I:462:PHE:CE2	3.04	0.50
1:C:326:TYR:CD2	1:C:326:TYR:N	2.79	0.50
1:D:41:GLU:O	1:D:44:GLU:N	2.45	0.50
1:D:441:ALA:O	1:D:444:ALA:HB3	2.11	0.50
1:E:30:HIS:C	1:E:30:HIS:ND1	2.65	0.50
1:E:326:TYR:N	1:E:326:TYR:CD2	2.79	0.50
1:F:49:PHE:HD2	1:F:49:PHE:N	2.02	0.50
1:F:232:ALA:HA	1:F:371:PHE:HE1	1.77	0.50
1:F:232:ALA:HB2	1:F:371:PHE:HD1	1.77	0.50
1:G:41:GLU:O	1:G:44:GLU:N	2.45	0.50
1:G:62:GLU:HB3	1:G:90:ASP:HB2	1.92	0.50
1:G:107:ILE:O	1:G:108:ALA:C	2.49	0.50
1:G:110:ARG:O	1:G:114:TYR:HB3	2.11	0.50
1:G:185:VAL:O	1:G:185:VAL:CG1	2.59	0.50
1:G:227:THR:O	1:G:228:MET:C	2.48	0.50
1:H:30:HIS:C	1:H:30:HIS:ND1	2.65	0.50
1:H:49:PHE:HD2	1:H:49:PHE:N	2.03	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:107:ILE:O	1:H:108:ALA:C	2.49	0.50
1:H:232:ALA:HB2	1:H:371:PHE:HD1	1.77	0.50
1:H:360:PHE:CD2	1:H:361:PRO:HD3	2.46	0.50
1:I:350:SER:C	1:I:352:LYS:H	2.13	0.50
1:I:360:PHE:CD2	1:I:361:PRO:HD3	2.47	0.50
1:J:232:ALA:HB2	1:J:371:PHE:HD1	1.77	0.50
1:K:228:MET:O	1:K:229:THR:C	2.46	0.50
1:L:27:LYS:HZ3	1:L:239:LYS:HZ2	1.41	0.50
1:L:107:ILE:O	1:L:108:ALA:C	2.49	0.50
1:L:112:GLU:O	1:L:115:LEU:CB	2.58	0.50
1:L:326:TYR:CD2	1:L:326:TYR:N	2.79	0.50
1:A:62:GLU:HB3	1:A:90:ASP:HB2	1.93	0.50
1:A:107:ILE:O	1:A:108:ALA:C	2.49	0.50
1:A:110:ARG:O	1:A:114:TYR:HB3	2.11	0.50
1:B:67:LEU:C	1:B:69:PRO:N	2.63	0.50
1:B:255:PHE:HB3	1:B:363:PRO:HB2	1.94	0.50
1:B:297:TYR:O	1:B:299:GLY:N	2.45	0.50
1:B:401:PRO:O	1:B:404:ALA:N	2.43	0.50
1:B:414:LEU:HD23	1:B:414:LEU:O	2.12	0.50
1:C:89:CYS:SG	1:C:103:ASP:CB	2.98	0.50
1:C:308:ILE:O	1:C:311:LEU:N	2.42	0.50
1:D:20:ARG:NH2	1:D:86:ILE:HG22	2.24	0.50
1:D:30:HIS:C	1:D:30:HIS:ND1	2.65	0.50
1:D:38:VAL:HG13	1:D:43:PHE:HE1	1.77	0.50
1:D:326:TYR:CD2	1:D:326:TYR:N	2.80	0.50
1:E:16:PHE:HD1	1:E:79:PHE:CE1	2.27	0.50
1:E:255:PHE:HB3	1:E:363:PRO:HB2	1.94	0.50
1:E:337:ARG:CG	1:E:338:ASN:N	2.70	0.50
1:E:350:SER:C	1:E:352:LYS:H	2.13	0.50
1:F:41:GLU:O	1:F:44:GLU:N	2.45	0.50
1:F:281:LEU:HD23	1:F:293:GLN:HE21	1.74	0.50
1:G:111:ALA:HA	1:G:376:MET:HE2	1.94	0.50
1:G:125:LEU:HD12	1:G:225:PHE:HD2	1.76	0.50
1:G:232:ALA:HA	1:G:371:PHE:HE1	1.77	0.50
1:H:41:GLU:O	1:H:44:GLU:N	2.45	0.50
1:H:423:LEU:HD12	1:H:423:LEU:N	2.26	0.50
1:I:33:ILE:CD1	1:I:34:PRO:HD2	2.41	0.50
1:I:281:LEU:HD23	1:I:293:GLN:HE21	1.74	0.50
1:I:297:TYR:O	1:I:299:GLY:N	2.45	0.50
1:I:339:ARG:O	1:I:341:ALA:N	2.43	0.50
1:J:38:VAL:HG13	1:J:43:PHE:HE1	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:332:LEU:N	1:J:332:LEU:CD1	2.72	0.50
1:J:338:ASN:HB2	1:J:393:ASP:HA	1.93	0.50
1:K:110:ARG:O	1:K:114:TYR:HB3	2.11	0.50
1:L:67:LEU:C	1:L:69:PRO:N	2.63	0.50
1:L:88:ARG:CZ	1:L:109:LYS:CE	2.90	0.50
1:L:89:CYS:HB3	1:L:103:ASP:OD2	2.07	0.50
1:L:232:ALA:HB2	1:L:371:PHE:HD1	1.77	0.50
1:L:297:TYR:O	1:L:299:GLY:N	2.45	0.50
1:A:227:THR:O	1:A:228:MET:C	2.48	0.50
1:A:228:MET:O	1:A:229:THR:C	2.46	0.50
1:A:274:LEU:HD12	1:A:282:PHE:CE1	2.44	0.50
1:A:332:LEU:N	1:A:332:LEU:CD1	2.72	0.50
1:A:426:GLU:O	1:A:428:LEU:N	2.45	0.50
1:B:88:ARG:CZ	1:B:109:LYS:CE	2.90	0.50
1:B:232:ALA:HB2	1:B:371:PHE:HD1	1.77	0.50
1:B:326:TYR:N	1:B:326:TYR:CD2	2.79	0.50
1:B:337:ARG:HG3	1:B:338:ASN:H	1.77	0.50
1:B:426:GLU:O	1:B:428:LEU:N	2.45	0.50
1:C:38:VAL:HG13	1:C:43:PHE:HE1	1.77	0.50
1:C:54:ILE:CD1	1:C:102:ARG:HD3	2.35	0.50
1:C:163:LYS:NZ	1:C:163:LYS:CB	2.74	0.50
1:C:255:PHE:HB3	1:C:363:PRO:HB2	1.94	0.50
1:D:107:ILE:HA	1:D:110:ARG:HG3	1.93	0.50
1:D:332:LEU:N	1:D:332:LEU:CD1	2.72	0.50
1:D:360:PHE:CD2	1:D:361:PRO:HD3	2.46	0.50
1:E:297:TYR:O	1:E:299:GLY:N	2.45	0.50
1:F:107:ILE:O	1:F:108:ALA:C	2.49	0.50
1:F:423:LEU:HD12	1:F:423:LEU:N	2.26	0.50
1:G:113:ASP:C	1:G:113:ASP:OD2	2.49	0.50
1:G:236:GLN:HA	1:G:236:GLN:NE2	2.27	0.50
1:G:337:ARG:HG3	1:G:338:ASN:H	1.77	0.50
1:G:410:VAL:O	1:G:411:ALA:HB3	2.12	0.50
1:H:232:ALA:HA	1:H:371:PHE:HE1	1.77	0.50
1:H:304:HIS:O	1:H:308:ILE:CG1	2.53	0.50
1:J:41:GLU:O	1:J:44:GLU:N	2.45	0.50
1:J:67:LEU:CD1	1:J:88:ARG:HB2	2.42	0.50
1:J:360:PHE:CD2	1:J:361:PRO:HD3	2.46	0.50
1:K:38:VAL:HG13	1:K:43:PHE:HE1	1.77	0.50
1:K:89:CYS:SG	1:K:103:ASP:CB	2.98	0.50
1:K:163:LYS:NZ	1:K:163:LYS:CB	2.74	0.50
1:K:289:GLY:CA	1:K:354:ARG:HE	2.20	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:338:ASN:N	1:L:58:LYS:HB2	2.26	0.50
1:L:57:TRP:CG	1:L:58:LYS:N	2.80	0.50
1:L:93:GLU:HG3	1:L:94:PRO:HD3	1.93	0.50
1:L:338:ASN:HB2	1:L:393:ASP:HA	1.93	0.50
1:L:428:LEU:O	1:L:433:VAL:O	2.30	0.50
1:A:113:ASP:C	1:A:113:ASP:OD2	2.49	0.50
1:A:136:ASP:HB2	1:A:153:ASP:HA	1.93	0.50
1:A:232:ALA:HA	1:A:371:PHE:HE1	1.77	0.50
1:A:255:PHE:HB3	1:A:363:PRO:HB2	1.94	0.50
1:A:337:ARG:HG3	1:A:338:ASN:H	1.77	0.50
1:A:410:VAL:O	1:A:411:ALA:HB3	2.12	0.50
1:B:57:TRP:CG	1:B:58:LYS:N	2.80	0.50
1:B:93:GLU:HG3	1:B:94:PRO:HD3	1.93	0.50
1:B:125:LEU:HD12	1:B:225:PHE:HD2	1.76	0.50
1:B:332:LEU:N	1:B:332:LEU:CD1	2.72	0.50
1:B:390:GLU:CB	1:B:391:PRO:CD	2.90	0.50
1:B:392:MET:HA	1:B:392:MET:CE	2.23	0.50
1:C:68:MET:HE2	1:C:109:LYS:CE	2.41	0.50
1:C:423:LEU:HD12	1:C:423:LEU:N	2.26	0.50
1:D:67:LEU:CD1	1:D:88:ARG:HB2	2.42	0.50
1:D:232:ALA:HB2	1:D:371:PHE:HD1	1.77	0.50
1:D:338:ASN:HB2	1:D:393:ASP:HA	1.93	0.50
1:E:421:LEU:HD22	1:E:443:ILE:CD1	2.36	0.50
1:E:462:PHE:CE2	1:K:256:MET:SD	3.04	0.50
1:F:49:PHE:N	1:F:49:PHE:CD2	2.71	0.50
1:F:440:ASP:O	1:F:441:ALA:C	2.49	0.50
1:G:163:LYS:NZ	1:G:163:LYS:CB	2.74	0.50
1:H:28:GLU:HG3	1:H:29:GLN:N	2.25	0.50
1:H:49:PHE:N	1:H:49:PHE:CD2	2.71	0.50
1:H:255:PHE:HB3	1:H:363:PRO:HB2	1.94	0.50
1:H:426:GLU:O	1:H:428:LEU:N	2.45	0.50
1:I:165:GLU:C	1:I:167:GLY:H	2.09	0.50
1:I:308:ILE:O	1:I:311:LEU:N	2.41	0.50
1:I:398:ASP:HB3	1:I:402:GLU:OE2	2.12	0.50
1:J:20:ARG:NH2	1:J:86:ILE:HG22	2.24	0.50
1:J:30:HIS:ND1	1:J:30:HIS:C	2.65	0.50
1:J:67:LEU:C	1:J:69:PRO:N	2.62	0.50
1:J:85:LEU:HD12	1:J:86:ILE:O	2.11	0.50
1:J:110:ARG:HB2	1:J:433:VAL:HB	1.94	0.50
1:J:295:LEU:HD12	1:J:295:LEU:N	2.27	0.50
1:J:428:LEU:O	1:J:433:VAL:O	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:36:HIS:C	1:K:38:VAL:H	1.99	0.50
1:K:68:MET:HE2	1:K:109:LYS:CE	2.41	0.50
1:K:110:ARG:HB2	1:K:433:VAL:HB	1.94	0.50
1:K:255:PHE:HB3	1:K:363:PRO:HB2	1.94	0.50
1:K:428:LEU:O	1:K:433:VAL:O	2.30	0.50
1:L:107:ILE:HA	1:L:110:ARG:HG3	1.93	0.50
1:L:110:ARG:HB2	1:L:433:VAL:HB	1.94	0.50
1:L:392:MET:HA	1:L:392:MET:CE	2.23	0.50
1:L:426:GLU:O	1:L:428:LEU:N	2.45	0.50
1:A:163:LYS:NZ	1:A:163:LYS:CB	2.74	0.50
1:A:232:ALA:HB2	1:A:371:PHE:HD1	1.77	0.50
1:A:236:GLN:NE2	1:A:236:GLN:HA	2.27	0.50
1:B:204:LEU:HD23	1:B:234:GLU:HB3	1.94	0.50
1:B:338:ASN:HB2	1:B:393:ASP:HA	1.93	0.50
1:B:428:LEU:O	1:B:433:VAL:O	2.30	0.50
1:C:57:TRP:CG	1:C:58:LYS:N	2.80	0.50
1:C:398:ASP:HB3	1:C:402:GLU:OE2	2.12	0.50
1:C:428:LEU:O	1:C:433:VAL:O	2.30	0.50
1:C:466:TYR:CZ	1:I:252:THR:HG21	2.33	0.50
1:D:85:LEU:HD12	1:D:86:ILE:O	2.11	0.50
1:D:255:PHE:HB3	1:D:363:PRO:HB2	1.94	0.50
1:D:295:LEU:HD12	1:D:295:LEU:N	2.27	0.50
1:E:34:PRO:HD3	1:F:208:ALA:HA	1.94	0.50
1:E:295:LEU:HD12	1:E:295:LEU:N	2.27	0.50
1:E:398:ASP:HB3	1:E:402:GLU:OE2	2.12	0.50
1:F:9:LEU:HD12	1:F:14:VAL:CG2	2.38	0.50
1:F:28:GLU:HG3	1:F:29:GLN:N	2.25	0.50
1:F:360:PHE:CD2	1:F:361:PRO:HD3	2.47	0.50
1:F:410:VAL:O	1:F:411:ALA:HB3	2.12	0.50
1:G:17:VAL:CG1	1:G:33:ILE:HG22	2.42	0.50
1:G:49:PHE:N	1:G:49:PHE:CD2	2.71	0.50
1:H:274:LEU:HD12	1:H:282:PHE:CE1	2.45	0.50
1:H:440:ASP:O	1:H:441:ALA:C	2.49	0.50
1:I:107:ILE:O	1:I:108:ALA:C	2.49	0.50
1:I:232:ALA:HA	1:I:371:PHE:HE1	1.77	0.50
1:I:390:GLU:CB	1:I:391:PRO:CD	2.90	0.50
1:I:421:LEU:HD22	1:I:443:ILE:CD1	2.36	0.50
1:J:33:ILE:CD1	1:J:34:PRO:HD2	2.41	0.50
1:J:54:ILE:CB	1:J:101:ASP:HB2	2.34	0.50
1:J:255:PHE:HB3	1:J:363:PRO:HB2	1.94	0.50
1:K:304:HIS:O	1:K:308:ILE:CG1	2.53	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:338:ASN:HB2	1:K:393:ASP:HA	1.93	0.50
1:L:28:GLU:HG3	1:L:29:GLN:N	2.25	0.50
1:L:232:ALA:HA	1:L:371:PHE:HE1	1.77	0.50
1:L:255:PHE:HB3	1:L:363:PRO:HB2	1.94	0.50
1:L:369:LEU:HD23	1:L:369:LEU:N	2.27	0.50
1:L:390:GLU:CB	1:L:391:PRO:CD	2.90	0.50
1:L:414:LEU:HD23	1:L:414:LEU:O	2.12	0.50
1:A:30:HIS:C	1:A:30:HIS:ND1	2.65	0.50
1:A:88:ARG:CZ	1:A:109:LYS:CE	2.90	0.50
1:A:350:SER:C	1:A:352:LYS:H	2.13	0.50
1:A:403:GLU:CB	1:A:406:GLU:CB	2.87	0.50
1:B:110:ARG:O	1:B:114:TYR:HB3	2.11	0.50
1:B:335:SER:N	1:B:345:ILE:CD1	2.75	0.50
1:B:427:PHE:CE1	1:B:428:LEU:HD13	2.47	0.50
1:C:79:PHE:CB	1:C:80:PHE:CD1	2.95	0.50
1:C:110:ARG:HB2	1:C:433:VAL:HB	1.94	0.50
1:C:236:GLN:HA	1:C:236:GLN:NE2	2.27	0.50
1:C:297:TYR:O	1:C:299:GLY:N	2.45	0.50
1:C:332:LEU:N	1:C:332:LEU:CD1	2.73	0.50
1:C:360:PHE:CD2	1:C:361:PRO:HD3	2.46	0.50
1:D:33:ILE:CD1	1:D:34:PRO:HD2	2.41	0.50
1:D:38:VAL:O	1:D:39:ASN:CB	2.56	0.50
1:D:65:MET:HE3	1:D:65:MET:CA	2.28	0.50
1:D:68:MET:HE1	1:D:88:ARG:HA	1.93	0.50
1:D:428:LEU:O	1:D:433:VAL:O	2.30	0.50
1:E:38:VAL:HG13	1:E:43:PHE:HE1	1.77	0.50
1:E:390:GLU:CB	1:E:391:PRO:CD	2.90	0.50
1:E:414:LEU:HD23	1:E:414:LEU:O	2.12	0.50
1:F:255:PHE:HB3	1:F:363:PRO:HB2	1.94	0.50
1:F:379:LEU:O	1:F:383:LYS:HB2	2.12	0.50
1:F:426:GLU:O	1:F:428:LEU:N	2.45	0.50
1:F:427:PHE:CE1	1:F:428:LEU:HD13	2.47	0.50
1:G:30:HIS:ND1	1:G:30:HIS:C	2.65	0.50
1:G:136:ASP:HB2	1:G:153:ASP:HA	1.93	0.50
1:G:255:PHE:HB3	1:G:363:PRO:HB2	1.94	0.50
1:G:403:GLU:CB	1:G:406:GLU:CB	2.87	0.50
1:G:426:GLU:O	1:G:428:LEU:N	2.45	0.50
1:H:379:LEU:O	1:H:383:LYS:HB2	2.12	0.50
1:H:410:VAL:O	1:H:411:ALA:HB3	2.12	0.50
1:H:427:PHE:CE1	1:H:428:LEU:HD13	2.47	0.50
1:I:85:LEU:HD12	1:I:86:ILE:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:255:PHE:HB3	1:I:363:PRO:HB2	1.94	0.50
1:I:314:PRO:C	1:I:315:THR:O	2.49	0.50
1:I:414:LEU:HD23	1:I:414:LEU:O	2.12	0.50
1:I:428:LEU:O	1:I:433:VAL:O	2.30	0.50
1:J:17:VAL:CG1	1:J:33:ILE:HG22	2.42	0.50
1:J:228:MET:O	1:J:229:THR:C	2.46	0.50
1:J:335:SER:N	1:J:345:ILE:CD1	2.75	0.50
1:K:54:ILE:CD1	1:K:102:ARG:HD3	2.35	0.50
1:K:57:TRP:CG	1:K:58:LYS:N	2.80	0.50
1:K:107:ILE:O	1:K:108:ALA:C	2.49	0.50
1:K:398:ASP:HB3	1:K:402:GLU:OE2	2.12	0.50
1:L:185:VAL:O	1:L:185:VAL:CG1	2.59	0.50
1:L:204:LEU:HD23	1:L:234:GLU:HB3	1.94	0.50
1:L:296:TYR:H	1:L:296:TYR:HD2	1.57	0.50
1:L:332:LEU:N	1:L:332:LEU:CD1	2.72	0.50
1:L:335:SER:N	1:L:345:ILE:CD1	2.75	0.50
1:L:427:PHE:CE1	1:L:428:LEU:HD13	2.47	0.50
1:L:441:ALA:O	1:L:444:ALA:HB3	2.11	0.50
1:A:17:VAL:CG1	1:A:33:ILE:HG22	2.42	0.50
1:A:38:VAL:HG13	1:A:43:PHE:HE1	1.77	0.50
1:A:312:ALA:HB2	1:A:370:CYS:SG	2.52	0.50
1:B:28:GLU:HG3	1:B:29:GLN:N	2.25	0.50
1:B:107:ILE:HA	1:B:110:ARG:HG3	1.94	0.50
1:B:227:THR:O	1:B:228:MET:C	2.48	0.50
1:B:369:LEU:N	1:B:369:LEU:HD23	2.27	0.50
1:B:424:ASP:O	1:B:425:ARG:C	2.51	0.50
1:B:441:ALA:O	1:B:444:ALA:HB3	2.11	0.50
1:C:426:GLU:O	1:C:428:LEU:N	2.45	0.50
1:D:27:LYS:HZ2	1:D:239:LYS:HE3	1.76	0.50
1:D:228:MET:O	1:D:229:THR:C	2.46	0.50
1:E:85:LEU:HD12	1:E:86:ILE:O	2.11	0.50
1:E:107:ILE:O	1:E:108:ALA:C	2.49	0.50
1:E:232:ALA:HA	1:E:371:PHE:HE1	1.77	0.50
1:E:308:ILE:O	1:E:311:LEU:N	2.41	0.50
1:E:379:LEU:O	1:E:383:LYS:HB2	2.12	0.50
1:E:428:LEU:O	1:E:433:VAL:O	2.30	0.50
1:F:304:HIS:O	1:F:308:ILE:CG1	2.53	0.50
1:F:466:TYR:CZ	1:L:252:THR:HG21	2.33	0.50
1:G:88:ARG:CZ	1:G:109:LYS:CE	2.90	0.50
1:G:232:ALA:HB2	1:G:371:PHE:HD1	1.77	0.50
1:G:332:LEU:N	1:G:332:LEU:CD1	2.72	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:427:PHE:CE1	1:G:428:LEU:HD13	2.47	0.50
1:H:38:VAL:HG13	1:H:43:PHE:HE1	1.77	0.50
1:H:390:GLU:CB	1:H:391:PRO:CD	2.90	0.50
1:I:41:GLU:O	1:I:44:GLU:N	2.45	0.50
1:I:295:LEU:HD12	1:I:295:LEU:N	2.27	0.50
1:J:68:MET:HE1	1:J:88:ARG:HA	1.93	0.50
1:J:107:ILE:HA	1:J:110:ARG:HG3	1.94	0.50
1:K:16:PHE:HD1	1:K:79:PHE:CE1	2.27	0.50
1:K:79:PHE:CB	1:K:80:PHE:CD1	2.95	0.50
1:K:88:ARG:CD	1:K:109:LYS:HE3	2.38	0.50
1:K:423:LEU:HD12	1:K:423:LEU:N	2.26	0.50
1:L:85:LEU:HD12	1:L:86:ILE:O	2.11	0.50
1:L:154:ILE:O	1:L:155:GLU:CB	2.50	0.50
1:A:19:LEU:HD22	1:A:240:TYR:HH	1.74	0.49
1:A:49:PHE:HD2	1:A:49:PHE:N	2.03	0.49
1:A:85:LEU:HD12	1:A:86:ILE:O	2.11	0.49
1:A:208:ALA:HA	1:F:34:PRO:HD3	1.94	0.49
1:A:369:LEU:HD23	1:A:369:LEU:N	2.27	0.49
1:B:38:VAL:HG13	1:B:43:PHE:HE1	1.77	0.49
1:B:68:MET:HE1	1:B:88:ARG:HB2	1.91	0.49
1:B:85:LEU:HD12	1:B:86:ILE:O	2.12	0.49
1:B:113:ASP:OD2	1:B:113:ASP:C	2.49	0.49
1:B:185:VAL:O	1:B:185:VAL:CG1	2.59	0.49
1:B:296:TYR:H	1:B:296:TYR:HD2	1.57	0.49
1:C:17:VAL:CG1	1:C:33:ILE:HG22	2.42	0.49
1:C:88:ARG:CD	1:C:109:LYS:HE3	2.38	0.49
1:C:107:ILE:O	1:C:108:ALA:C	2.49	0.49
1:C:232:ALA:HB2	1:C:371:PHE:HD1	1.76	0.49
1:C:337:ARG:HG3	1:C:338:ASN:H	1.77	0.49
1:C:410:VAL:O	1:C:411:ALA:HB3	2.12	0.49
1:C:414:LEU:HD23	1:C:414:LEU:O	2.12	0.49
1:D:17:VAL:CG1	1:D:33:ILE:HG22	2.42	0.49
1:D:110:ARG:HB2	1:D:433:VAL:HB	1.94	0.49
1:D:297:TYR:O	1:D:299:GLY:N	2.45	0.49
1:D:335:SER:N	1:D:345:ILE:CD1	2.75	0.49
1:E:20:ARG:NH2	1:E:86:ILE:HG22	2.24	0.49
1:E:41:GLU:O	1:E:44:GLU:N	2.45	0.49
1:E:67:LEU:CD1	1:E:88:ARG:HB2	2.42	0.49
1:F:38:VAL:HG13	1:F:43:PHE:HE1	1.77	0.49
1:F:390:GLU:CB	1:F:391:PRO:CD	2.90	0.49
1:G:65:MET:HG3	1:G:91:ILE:HG12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:208:ALA:HA	1:H:34:PRO:HD3	1.94	0.49
1:G:275:ALA:HA	1:G:280:ASN:HA	1.94	0.49
1:G:350:SER:C	1:G:352:LYS:H	2.13	0.49
1:G:369:LEU:HD23	1:G:369:LEU:N	2.27	0.49
1:H:9:LEU:HD12	1:H:14:VAL:CG2	2.38	0.49
1:H:208:ALA:HA	1:I:34:PRO:HD3	1.94	0.49
1:H:297:TYR:O	1:H:299:GLY:N	2.45	0.49
1:H:398:ASP:HB3	1:H:402:GLU:OE2	2.12	0.49
1:I:5:VAL:HG11	1:I:43:PHE:HZ	1.76	0.49
1:I:20:ARG:NH2	1:I:86:ILE:HG22	2.24	0.49
1:I:38:VAL:HG13	1:I:43:PHE:HE1	1.77	0.49
1:I:65:MET:HG3	1:I:91:ILE:HG12	1.94	0.49
1:I:280:ASN:C	1:I:282:PHE:N	2.51	0.49
1:I:379:LEU:O	1:I:383:LYS:HB2	2.12	0.49
1:J:38:VAL:O	1:J:39:ASN:CB	2.56	0.49
1:K:2:ALA:O	1:K:3:GLU:C	2.50	0.49
1:K:297:TYR:O	1:K:299:GLY:N	2.45	0.49
1:K:332:LEU:N	1:K:332:LEU:CD1	2.72	0.49
1:K:337:ARG:HG3	1:K:338:ASN:H	1.77	0.49
1:K:414:LEU:HD23	1:K:414:LEU:O	2.12	0.49
1:L:68:MET:HE1	1:L:88:ARG:HB2	1.90	0.49
1:L:79:PHE:CB	1:L:80:PHE:CD1	2.95	0.49
1:L:110:ARG:O	1:L:114:TYR:HB3	2.11	0.49
1:L:331:MET:HE3	1:L:396:LEU:HB2	1.94	0.49
1:L:337:ARG:HG3	1:L:338:ASN:H	1.77	0.49
1:A:28:GLU:HG3	1:A:29:GLN:N	2.25	0.49
1:A:49:PHE:N	1:A:49:PHE:CD2	2.71	0.49
1:A:65:MET:HG3	1:A:91:ILE:HG12	1.95	0.49
1:A:110:ARG:HB2	1:A:433:VAL:HB	1.94	0.49
1:B:67:LEU:CD1	1:B:88:ARG:HB2	2.42	0.49
1:B:79:PHE:CB	1:B:80:PHE:CD1	2.95	0.49
1:B:154:ILE:O	1:B:155:GLU:CB	2.50	0.49
1:B:232:ALA:HA	1:B:371:PHE:HE1	1.77	0.49
1:B:399:LEU:C	1:B:401:PRO:CD	2.81	0.49
1:C:16:PHE:HD1	1:C:79:PHE:CE1	2.27	0.49
1:C:33:ILE:CD1	1:C:34:PRO:HD2	2.41	0.49
1:C:65:MET:HG3	1:C:91:ILE:HG12	1.94	0.49
1:C:88:ARG:CZ	1:C:109:LYS:CE	2.90	0.49
1:C:289:GLY:CA	1:C:354:ARG:HE	2.20	0.49
1:C:295:LEU:HD12	1:C:295:LEU:N	2.27	0.49
1:C:338:ASN:HB2	1:C:393:ASP:HA	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:54:ILE:CB	1:D:101:ASP:HB2	2.34	0.49
1:D:67:LEU:C	1:D:69:PRO:N	2.63	0.49
1:D:398:ASP:HB3	1:D:402:GLU:OE2	2.12	0.49
1:E:5:VAL:HG11	1:E:43:PHE:HZ	1.76	0.49
1:E:20:ARG:HG3	1:E:28:GLU:OE2	2.12	0.49
1:E:65:MET:HG3	1:E:91:ILE:HG12	1.94	0.49
1:E:426:GLU:O	1:E:428:LEU:N	2.45	0.49
1:F:85:LEU:HD12	1:F:86:ILE:O	2.11	0.49
1:F:297:TYR:O	1:F:299:GLY:N	2.45	0.49
1:G:57:TRP:CG	1:G:58:LYS:N	2.80	0.49
1:G:110:ARG:HB2	1:G:433:VAL:HB	1.94	0.49
1:G:289:GLY:CA	1:G:354:ARG:HE	2.20	0.49
1:G:424:ASP:O	1:G:425:ARG:C	2.51	0.49
1:H:125:LEU:HD12	1:H:225:PHE:HD2	1.76	0.49
1:H:165:GLU:C	1:H:167:GLY:H	2.09	0.49
1:H:236:GLN:HA	1:H:236:GLN:NE2	2.27	0.49
1:H:424:ASP:O	1:H:425:ARG:C	2.51	0.49
1:I:20:ARG:HG3	1:I:28:GLU:OE2	2.12	0.49
1:I:67:LEU:CD1	1:I:88:ARG:HB2	2.42	0.49
1:I:88:ARG:CZ	1:I:109:LYS:CE	2.90	0.49
1:I:199:MET:HE2	1:I:238:TYR:CD2	2.47	0.49
1:I:426:GLU:O	1:I:428:LEU:N	2.45	0.49
1:I:427:PHE:CE1	1:I:428:LEU:HD13	2.47	0.49
1:J:232:ALA:HA	1:J:371:PHE:HE1	1.77	0.49
1:J:297:TYR:O	1:J:299:GLY:N	2.45	0.49
1:J:398:ASP:HB3	1:J:402:GLU:OE2	2.12	0.49
1:J:421:LEU:CD2	1:J:443:ILE:HD11	2.38	0.49
1:J:440:ASP:O	1:J:441:ALA:C	2.49	0.49
1:K:88:ARG:CZ	1:K:109:LYS:CE	2.90	0.49
1:K:232:ALA:HB2	1:K:371:PHE:HD1	1.76	0.49
1:K:362:ASP:C	1:K:364:ALA:N	2.60	0.49
1:K:410:VAL:O	1:K:411:ALA:HB3	2.12	0.49
1:K:426:GLU:O	1:K:428:LEU:N	2.45	0.49
1:K:427:PHE:CE1	1:K:428:LEU:HD13	2.47	0.49
1:L:227:THR:O	1:L:228:MET:C	2.48	0.49
1:L:338:ASN:ND2	1:L:395:ASN:H	1.99	0.49
1:L:424:ASP:O	1:L:425:ARG:C	2.51	0.49
1:A:42:PHE:CZ	1:A:66:VAL:HG22	2.47	0.49
1:A:275:ALA:HA	1:A:280:ASN:HA	1.94	0.49
1:A:424:ASP:O	1:A:425:ARG:C	2.51	0.49
1:B:41:GLU:O	1:B:44:GLU:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:91:ILE:CA	1:B:97:LEU:O	2.61	0.49
1:B:398:ASP:HB3	1:B:402:GLU:OE2	2.12	0.49
1:C:2:ALA:O	1:C:3:GLU:C	2.50	0.49
1:C:67:LEU:CD1	1:C:88:ARG:HB2	2.42	0.49
1:C:91:ILE:CA	1:C:97:LEU:O	2.61	0.49
1:C:304:HIS:O	1:C:308:ILE:CG1	2.53	0.49
1:D:68:MET:CE	1:D:88:ARG:CG	2.91	0.49
1:D:297:TYR:O	1:D:300:GLY:N	2.46	0.49
1:D:351:PRO:HA	1:D:354:ARG:NH1	2.27	0.49
1:D:440:ASP:O	1:D:441:ALA:C	2.49	0.49
1:E:68:MET:CE	1:E:88:ARG:CG	2.91	0.49
1:E:252:THR:HG21	1:K:466:TYR:CZ	2.33	0.49
1:E:314:PRO:C	1:E:315:THR:O	2.49	0.49
1:F:79:PHE:CB	1:F:80:PHE:CD1	2.95	0.49
1:F:125:LEU:HD12	1:F:225:PHE:HD2	1.75	0.49
1:F:179:TYR:CZ	1:F:180:PHE:CZ	3.00	0.49
1:F:398:ASP:HB3	1:F:402:GLU:OE2	2.12	0.49
1:G:28:GLU:HG3	1:G:29:GLN:N	2.25	0.49
1:G:38:VAL:HG13	1:G:43:PHE:HE1	1.77	0.49
1:G:57:TRP:CD1	1:G:57:TRP:C	2.81	0.49
1:G:85:LEU:HD12	1:G:86:ILE:O	2.12	0.49
1:G:312:ALA:HB2	1:G:370:CYS:SG	2.52	0.49
1:G:376:MET:HE3	1:G:433:VAL:HG13	1.85	0.49
1:I:68:MET:CE	1:I:88:ARG:CG	2.91	0.49
1:I:79:PHE:CB	1:I:80:PHE:CD1	2.95	0.49
1:J:236:GLN:HA	1:J:236:GLN:NE2	2.27	0.49
1:J:351:PRO:HA	1:J:354:ARG:NH1	2.27	0.49
1:K:67:LEU:CD1	1:K:88:ARG:HB2	2.42	0.49
1:K:92:LEU:H	1:K:97:LEU:H	1.51	0.49
1:K:107:ILE:HA	1:K:110:ARG:HG3	1.94	0.49
1:K:111:ALA:HA	1:K:376:MET:HE2	1.92	0.49
1:K:360:PHE:CD2	1:K:361:PRO:HD3	2.47	0.49
1:L:38:VAL:HG13	1:L:43:PHE:HE1	1.77	0.49
1:L:65:MET:HG3	1:L:91:ILE:HG12	1.94	0.49
1:L:67:LEU:CD1	1:L:88:ARG:HB2	2.42	0.49
1:L:113:ASP:C	1:L:113:ASP:OD2	2.49	0.49
1:L:399:LEU:C	1:L:401:PRO:CD	2.81	0.49
1:A:57:TRP:CD1	1:A:57:TRP:C	2.81	0.49
1:A:228:MET:HE1	1:A:372:ALA:CA	2.43	0.49
1:A:289:GLY:CA	1:A:354:ARG:HE	2.20	0.49
1:A:427:PHE:CE1	1:A:428:LEU:HD13	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:428:LEU:O	1:A:433:VAL:O	2.30	0.49
1:B:33:ILE:CD1	1:B:34:PRO:HD2	2.41	0.49
1:B:65:MET:HG3	1:B:91:ILE:HG12	1.94	0.49
1:B:110:ARG:HB2	1:B:433:VAL:HB	1.95	0.49
1:B:275:ALA:HA	1:B:280:ASN:HA	1.94	0.49
1:B:350:SER:C	1:B:352:LYS:H	2.13	0.49
1:C:204:LEU:HD23	1:C:234:GLU:HB3	1.94	0.49
1:C:427:PHE:CE1	1:C:428:LEU:HD13	2.47	0.49
1:D:65:MET:HG3	1:D:91:ILE:HG12	1.94	0.49
1:D:88:ARG:CD	1:D:109:LYS:HE3	2.38	0.49
1:D:91:ILE:CA	1:D:97:LEU:O	2.61	0.49
1:E:79:PHE:CB	1:E:80:PHE:CD1	2.95	0.49
1:F:65:MET:HG3	1:F:91:ILE:HG12	1.94	0.49
1:F:68:MET:HE3	1:F:88:ARG:HA	1.95	0.49
1:F:68:MET:CE	1:F:88:ARG:CG	2.91	0.49
1:F:172:ARG:CB	1:F:173:PRO:CD	2.89	0.49
1:F:185:VAL:O	1:F:185:VAL:CG1	2.59	0.49
1:F:337:ARG:HG3	1:F:338:ASN:H	1.77	0.49
1:F:424:ASP:O	1:F:425:ARG:C	2.51	0.49
1:F:428:LEU:O	1:F:433:VAL:O	2.30	0.49
1:G:15:LYS:N	1:G:15:LYS:CD	2.67	0.49
1:G:42:PHE:CZ	1:G:66:VAL:HG22	2.47	0.49
1:H:42:PHE:CZ	1:H:66:VAL:HG22	2.47	0.49
1:H:65:MET:HG3	1:H:91:ILE:HG12	1.94	0.49
1:H:68:MET:CE	1:H:88:ARG:CG	2.91	0.49
1:H:172:ARG:CB	1:H:173:PRO:CD	2.89	0.49
1:H:228:MET:HE1	1:H:372:ALA:HA	1.95	0.49
1:I:2:ALA:O	1:I:3:GLU:C	2.50	0.49
1:I:351:PRO:HA	1:I:354:ARG:NH1	2.27	0.49
1:J:42:PHE:CZ	1:J:66:VAL:HG22	2.47	0.49
1:J:65:MET:HE3	1:J:65:MET:CA	2.28	0.49
1:J:65:MET:HG3	1:J:91:ILE:HG12	1.95	0.49
1:J:68:MET:CE	1:J:88:ARG:CG	2.91	0.49
1:J:91:ILE:CA	1:J:97:LEU:O	2.61	0.49
1:K:17:VAL:CG1	1:K:33:ILE:HG22	2.42	0.49
1:K:33:ILE:CD1	1:K:34:PRO:HD2	2.41	0.49
1:K:236:GLN:HA	1:K:236:GLN:NE2	2.27	0.49
1:K:335:SER:N	1:K:345:ILE:CD1	2.75	0.49
1:K:351:PRO:HA	1:K:354:ARG:NH1	2.27	0.49
1:L:2:ALA:O	1:L:3:GLU:C	2.50	0.49
1:L:41:GLU:O	1:L:44:GLU:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:91:ILE:CA	1:L:97:LEU:O	2.61	0.49
1:A:111:ALA:HA	1:A:376:MET:HE2	1.95	0.49
1:A:315:THR:CB	1:G:465:TYR:HD2	2.02	0.49
1:B:2:ALA:O	1:B:3:GLU:C	2.50	0.49
1:B:27:LYS:HZ3	1:B:239:LYS:HZ1	0.51	0.49
1:B:252:THR:HG21	1:H:466:TYR:CZ	2.33	0.49
1:C:24:THR:CG2	1:C:25:LYS:N	2.71	0.49
1:C:63:SER:HG	1:C:91:ILE:HG22	1.77	0.49
1:C:369:LEU:N	1:C:369:LEU:HD23	2.27	0.49
1:D:42:PHE:CZ	1:D:66:VAL:HG22	2.47	0.49
1:D:421:LEU:CD2	1:D:443:ILE:HD11	2.38	0.49
1:E:2:ALA:O	1:E:3:GLU:C	2.51	0.49
1:E:67:LEU:C	1:E:69:PRO:HD3	2.30	0.49
1:E:93:GLU:HG3	1:E:94:PRO:HD3	1.93	0.49
1:E:424:ASP:O	1:E:425:ARG:C	2.51	0.49
1:E:427:PHE:CE1	1:E:428:LEU:HD13	2.47	0.49
1:F:36:HIS:C	1:F:38:VAL:N	2.60	0.49
1:F:165:GLU:C	1:F:167:GLY:H	2.09	0.49
1:F:236:GLN:HA	1:F:236:GLN:NE2	2.27	0.49
1:F:275:ALA:HA	1:F:280:ASN:HA	1.94	0.49
1:F:308:ILE:O	1:F:311:LEU:N	2.41	0.49
1:G:33:ILE:CD1	1:G:34:PRO:HD2	2.41	0.49
1:G:73:THR:O	1:G:84:THR:N	2.45	0.49
1:G:199:MET:HE2	1:G:238:TYR:CD2	2.47	0.49
1:G:428:LEU:O	1:G:433:VAL:O	2.30	0.49
1:H:68:MET:HE3	1:H:88:ARG:HA	1.95	0.49
1:H:79:PHE:CB	1:H:80:PHE:CD1	2.95	0.49
1:H:85:LEU:HD12	1:H:86:ILE:O	2.11	0.49
1:H:337:ARG:CG	1:H:338:ASN:N	2.70	0.49
1:I:93:GLU:HG3	1:I:94:PRO:HD3	1.93	0.49
1:I:110:ARG:HB2	1:I:433:VAL:HB	1.94	0.49
1:I:424:ASP:O	1:I:425:ARG:C	2.51	0.49
1:J:88:ARG:CD	1:J:109:LYS:HE3	2.38	0.49
1:J:410:VAL:O	1:J:411:ALA:HB3	2.12	0.49
1:J:426:GLU:O	1:J:428:LEU:N	2.45	0.49
1:K:30:HIS:ND1	1:K:30:HIS:C	2.65	0.49
1:K:65:MET:HG3	1:K:91:ILE:HG12	1.95	0.49
1:K:68:MET:CE	1:K:88:ARG:CG	2.90	0.49
1:K:91:ILE:CA	1:K:97:LEU:O	2.61	0.49
1:K:204:LEU:HD23	1:K:234:GLU:HB3	1.94	0.49
1:K:295:LEU:HD12	1:K:295:LEU:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:398:ASP:HB3	1:L:402:GLU:OE2	2.12	0.49
1:A:73:THR:O	1:A:84:THR:N	2.45	0.49
1:A:335:SER:N	1:A:345:ILE:CD1	2.75	0.49
1:B:42:PHE:CZ	1:B:66:VAL:HG22	2.47	0.49
1:B:179:TYR:CZ	1:B:180:PHE:CZ	3.00	0.49
1:B:338:ASN:ND2	1:B:395:ASN:H	1.99	0.49
1:B:346:PRO:O	1:B:347:VAL:O	2.31	0.49
1:C:68:MET:CE	1:C:88:ARG:CG	2.91	0.49
1:C:296:TYR:H	1:C:296:TYR:HD2	1.57	0.49
1:C:351:PRO:HA	1:C:354:ARG:NH1	2.27	0.49
1:D:232:ALA:HA	1:D:371:PHE:HE1	1.77	0.49
1:D:236:GLN:HA	1:D:236:GLN:NE2	2.27	0.49
1:E:33:ILE:HD13	1:E:34:PRO:CD	2.42	0.49
1:F:157:ALA:O	1:F:158:TRP:C	2.51	0.49
1:F:399:LEU:C	1:F:401:PRO:CD	2.81	0.49
1:F:414:LEU:HD23	1:F:414:LEU:O	2.12	0.49
1:G:19:LEU:HD22	1:G:240:TYR:HH	1.74	0.49
1:G:157:ALA:O	1:G:158:TRP:C	2.51	0.49
1:G:399:LEU:C	1:G:401:PRO:CD	2.81	0.49
1:H:17:VAL:CG1	1:H:33:ILE:HG22	2.41	0.49
1:H:179:TYR:CZ	1:H:180:PHE:CZ	3.01	0.49
1:H:185:VAL:O	1:H:185:VAL:CG1	2.59	0.49
1:H:275:ALA:HA	1:H:280:ASN:HA	1.94	0.49
1:H:337:ARG:HG3	1:H:338:ASN:H	1.77	0.49
1:H:399:LEU:C	1:H:401:PRO:CD	2.81	0.49
1:H:414:LEU:HD23	1:H:414:LEU:O	2.12	0.49
1:H:428:LEU:O	1:H:433:VAL:O	2.30	0.49
1:I:33:ILE:HD13	1:I:34:PRO:CD	2.42	0.49
1:I:67:LEU:C	1:I:69:PRO:HD3	2.30	0.49
1:I:232:ALA:HB2	1:I:371:PHE:HD1	1.77	0.49
1:I:335:SER:N	1:I:345:ILE:CD1	2.75	0.49
1:J:297:TYR:O	1:J:300:GLY:N	2.46	0.49
1:K:42:PHE:CZ	1:K:66:VAL:HG22	2.47	0.49
1:K:232:ALA:HA	1:K:371:PHE:HE1	1.77	0.49
1:K:369:LEU:HD23	1:K:369:LEU:N	2.27	0.49
1:K:424:ASP:O	1:K:425:ARG:C	2.51	0.49
1:L:33:ILE:CD1	1:L:34:PRO:HD2	2.41	0.49
1:L:42:PHE:CZ	1:L:66:VAL:HG22	2.47	0.49
1:L:179:TYR:CZ	1:L:180:PHE:CZ	3.01	0.49
1:L:236:GLN:HA	1:L:236:GLN:NE2	2.27	0.49
1:A:33:ILE:CD1	1:A:34:PRO:HD2	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:390:GLU:CB	1:A:391:PRO:CD	2.90	0.49
1:A:399:LEU:C	1:A:401:PRO:CD	2.81	0.49
1:B:379:LEU:O	1:B:383:LYS:HB2	2.12	0.49
1:B:403:GLU:HB3	1:B:406:GLU:HB2	1.87	0.49
1:C:85:LEU:HD12	1:C:86:ILE:O	2.11	0.49
1:C:107:ILE:HA	1:C:110:ARG:HG3	1.94	0.49
1:C:232:ALA:HA	1:C:371:PHE:HE1	1.77	0.49
1:C:297:TYR:O	1:C:300:GLY:N	2.46	0.49
1:C:390:GLU:CB	1:C:391:PRO:CD	2.90	0.49
1:C:424:ASP:O	1:C:425:ARG:C	2.51	0.49
1:D:410:VAL:O	1:D:411:ALA:HB3	2.12	0.49
1:D:426:GLU:O	1:D:428:LEU:N	2.45	0.49
1:E:67:LEU:C	1:E:69:PRO:N	2.63	0.49
1:E:118:THR:OG1	1:E:120:ILE:CG1	2.58	0.49
1:E:232:ALA:HB2	1:E:371:PHE:HD1	1.77	0.49
1:E:297:TYR:O	1:E:300:GLY:N	2.46	0.49
1:E:351:PRO:HA	1:E:354:ARG:NH1	2.27	0.49
1:F:17:VAL:CG1	1:F:33:ILE:HG22	2.42	0.49
1:F:88:ARG:CZ	1:F:109:LYS:CE	2.90	0.49
1:F:312:ALA:HB2	1:F:370:CYS:SG	2.52	0.49
1:F:337:ARG:CG	1:F:338:ASN:N	2.70	0.49
1:F:403:GLU:CB	1:F:406:GLU:CB	2.87	0.49
1:G:10:ASN:O	1:G:11:GLU:C	2.51	0.49
1:G:79:PHE:CB	1:G:80:PHE:CD1	2.95	0.49
1:H:36:HIS:C	1:H:38:VAL:N	2.60	0.49
1:H:88:ARG:CZ	1:H:109:LYS:CE	2.90	0.49
1:H:157:ALA:O	1:H:158:TRP:C	2.51	0.49
1:H:308:ILE:O	1:H:311:LEU:N	2.42	0.49
1:I:34:PRO:HG2	1:I:37:GLN:HG3	1.94	0.49
1:I:67:LEU:C	1:I:69:PRO:N	2.63	0.49
1:I:157:ALA:O	1:I:158:TRP:C	2.51	0.49
1:J:204:LEU:HD23	1:J:234:GLU:HB3	1.94	0.49
1:J:275:ALA:HA	1:J:280:ASN:HA	1.94	0.49
1:L:346:PRO:O	1:L:347:VAL:O	2.31	0.49
1:A:10:ASN:O	1:A:11:GLU:C	2.51	0.49
1:A:15:LYS:N	1:A:15:LYS:CD	2.67	0.49
1:A:79:PHE:CB	1:A:80:PHE:CD1	2.95	0.49
1:A:157:ALA:O	1:A:158:TRP:C	2.51	0.49
1:A:295:LEU:HD12	1:A:295:LEU:N	2.27	0.49
1:A:339:ARG:O	1:A:341:ALA:N	2.42	0.49
1:B:42:PHE:CZ	1:B:66:VAL:CG2	2.96	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:294:ALA:O	1:B:297:TYR:N	2.46	0.49
1:B:297:TYR:O	1:B:300:GLY:N	2.46	0.49
1:B:465:TYR:HH	1:H:449:GLU:CD	2.07	0.49
1:C:30:HIS:ND1	1:C:30:HIS:C	2.65	0.49
1:C:41:GLU:O	1:C:44:GLU:N	2.45	0.49
1:C:179:TYR:CZ	1:C:180:PHE:CZ	3.01	0.49
1:C:335:SER:N	1:C:345:ILE:CD1	2.75	0.49
1:C:360:PHE:N	1:C:361:PRO:HD3	2.21	0.49
1:D:157:ALA:O	1:D:158:TRP:C	2.51	0.49
1:D:424:ASP:O	1:D:425:ARG:C	2.51	0.49
1:E:27:LYS:HZ2	1:E:239:LYS:CE	2.26	0.49
1:E:34:PRO:HG2	1:E:37:GLN:HG3	1.94	0.49
1:E:157:ALA:O	1:E:158:TRP:C	2.51	0.49
1:E:163:LYS:NZ	1:E:163:LYS:CB	2.74	0.49
1:E:335:SER:N	1:E:345:ILE:CD1	2.75	0.49
1:E:369:LEU:HD23	1:E:369:LEU:N	2.27	0.49
1:F:42:PHE:CZ	1:F:66:VAL:HG22	2.48	0.49
1:F:93:GLU:OE1	1:F:93:GLU:CA	2.58	0.49
1:F:110:ARG:HB2	1:F:433:VAL:HB	1.94	0.49
1:F:400:PRO:HB2	1:F:401:PRO:CD	2.43	0.49
1:G:187:SER:O	1:G:188:ALA:CB	2.61	0.49
1:G:295:LEU:HD12	1:G:295:LEU:N	2.27	0.49
1:G:335:SER:N	1:G:345:ILE:CD1	2.75	0.49
1:G:390:GLU:CB	1:G:391:PRO:CD	2.90	0.49
1:H:93:GLU:OE1	1:H:93:GLU:CA	2.58	0.49
1:H:312:ALA:HB2	1:H:370:CYS:SG	2.52	0.49
1:H:400:PRO:HB2	1:H:401:PRO:CD	2.43	0.49
1:I:42:PHE:CZ	1:I:66:VAL:HG22	2.47	0.49
1:I:118:THR:OG1	1:I:120:ILE:CG1	2.58	0.49
1:I:208:ALA:HA	1:J:34:PRO:HD3	1.94	0.49
1:J:424:ASP:O	1:J:425:ARG:C	2.51	0.49
1:J:427:PHE:CE1	1:J:428:LEU:HD13	2.47	0.49
1:K:24:THR:CG2	1:K:25:LYS:N	2.71	0.49
1:K:41:GLU:O	1:K:44:GLU:N	2.45	0.49
1:K:175:VAL:CA	1:K:215:THR:HG23	2.43	0.49
1:K:294:ALA:O	1:K:297:TYR:N	2.46	0.49
1:K:297:TYR:O	1:K:300:GLY:N	2.46	0.49
1:L:42:PHE:CZ	1:L:66:VAL:CG2	2.96	0.49
1:L:280:ASN:ND2	1:L:280:ASN:N	2.49	0.49
1:L:294:ALA:O	1:L:297:TYR:N	2.46	0.49
1:A:179:TYR:CZ	1:A:180:PHE:CZ	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:187:SER:O	1:A:188:ALA:CB	2.61	0.49
1:A:204:LEU:HD23	1:A:234:GLU:HB3	1.94	0.49
1:A:360:PHE:N	1:A:361:PRO:HD3	2.21	0.49
1:A:379:LEU:O	1:A:383:LYS:HB2	2.12	0.49
1:A:465:TYR:HD2	1:G:315:THR:CB	2.02	0.49
1:B:236:GLN:HA	1:B:236:GLN:NE2	2.27	0.49
1:B:410:VAL:O	1:B:411:ALA:HB3	2.12	0.49
1:B:466:TYR:HA	1:H:256:MET:HE2	1.94	0.49
1:C:42:PHE:CZ	1:C:66:VAL:HG22	2.47	0.49
1:C:187:SER:O	1:C:188:ALA:CB	2.61	0.49
1:C:256:MET:HE2	1:I:466:TYR:HA	1.95	0.49
1:C:297:TYR:C	1:C:299:GLY:N	2.66	0.49
1:C:379:LEU:O	1:C:383:LYS:HB2	2.12	0.49
1:C:437:GLU:HB2	1:C:438:ALA:H	1.11	0.49
1:D:20:ARG:HG3	1:D:28:GLU:OE2	2.12	0.49
1:D:24:THR:CG2	1:D:25:LYS:N	2.72	0.49
1:D:34:PRO:HD3	1:E:208:ALA:HA	1.94	0.49
1:D:89:CYS:SG	1:D:103:ASP:OD1	2.71	0.49
1:D:204:LEU:HD23	1:D:234:GLU:HB3	1.94	0.49
1:D:297:TYR:C	1:D:299:GLY:N	2.66	0.49
1:E:42:PHE:CZ	1:E:66:VAL:HG22	2.47	0.49
1:E:91:ILE:CA	1:E:97:LEU:O	2.61	0.49
1:E:110:ARG:HB2	1:E:433:VAL:HB	1.94	0.49
1:E:346:PRO:O	1:E:347:VAL:O	2.31	0.49
1:E:466:TYR:HA	1:K:256:MET:HE2	1.95	0.49
1:F:89:CYS:SG	1:F:103:ASP:OD1	2.71	0.49
1:G:179:TYR:CZ	1:G:180:PHE:CZ	3.01	0.49
1:G:317:ASN:C	1:G:317:ASN:HD22	2.16	0.49
1:G:398:ASP:HB3	1:G:402:GLU:OE2	2.12	0.49
1:G:421:LEU:HD22	1:G:443:ILE:CD1	2.36	0.49
1:H:89:CYS:SG	1:H:103:ASP:OD1	2.71	0.49
1:H:110:ARG:HB2	1:H:433:VAL:HB	1.94	0.49
1:H:111:ALA:HA	1:H:376:MET:HE2	1.94	0.49
1:H:403:GLU:CB	1:H:406:GLU:CB	2.87	0.49
1:I:91:ILE:CA	1:I:97:LEU:O	2.61	0.49
1:I:369:LEU:N	1:I:369:LEU:HD23	2.27	0.49
1:J:24:THR:CG2	1:J:25:LYS:N	2.71	0.49
1:J:89:CYS:SG	1:J:103:ASP:OD1	2.71	0.49
1:J:339:ARG:NH2	1:K:58:LYS:H	2.11	0.49
1:J:379:LEU:O	1:J:383:LYS:HB2	2.12	0.49
1:K:85:LEU:HD12	1:K:86:ILE:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:179:TYR:CZ	1:K:180:PHE:CZ	3.01	0.49
1:K:187:SER:O	1:K:188:ALA:CB	2.60	0.49
1:K:297:TYR:C	1:K:299:GLY:N	2.66	0.49
1:L:275:ALA:HA	1:L:280:ASN:HA	1.95	0.49
1:A:58:LYS:HD3	1:A:59:GLY:CA	2.43	0.49
1:A:68:MET:CE	1:A:88:ARG:CG	2.91	0.49
1:A:91:ILE:CA	1:A:97:LEU:O	2.61	0.49
1:A:317:ASN:HD22	1:A:317:ASN:C	2.17	0.49
1:A:414:LEU:HD23	1:A:414:LEU:O	2.12	0.49
1:A:421:LEU:HD22	1:A:443:ILE:CD1	2.36	0.49
1:A:460:VAL:O	1:A:461:GLU:C	2.52	0.49
1:B:10:ASN:O	1:B:11:GLU:C	2.51	0.49
1:B:30:HIS:ND1	1:B:30:HIS:C	2.65	0.49
1:C:33:ILE:HD13	1:C:34:PRO:CD	2.42	0.49
1:C:175:VAL:CA	1:C:215:THR:HG23	2.43	0.49
1:D:2:ALA:O	1:D:3:GLU:C	2.50	0.49
1:D:88:ARG:CZ	1:D:109:LYS:CE	2.90	0.49
1:D:172:ARG:CB	1:D:173:PRO:CD	2.89	0.49
1:D:275:ALA:HA	1:D:280:ASN:HA	1.94	0.49
1:D:360:PHE:N	1:D:361:PRO:HD3	2.21	0.49
1:D:379:LEU:O	1:D:383:LYS:HB2	2.12	0.49
1:D:414:LEU:HD23	1:D:414:LEU:O	2.12	0.49
1:E:10:ASN:O	1:E:11:GLU:C	2.51	0.49
1:E:275:ALA:HA	1:E:280:ASN:HA	1.94	0.49
1:F:351:PRO:HA	1:F:354:ARG:NH1	2.27	0.49
1:F:369:LEU:N	1:F:369:LEU:HD23	2.27	0.49
1:F:383:LYS:CE	1:F:384:ASN:N	2.74	0.49
1:G:3:GLU:OE1	1:G:3:GLU:CA	2.57	0.49
1:G:297:TYR:O	1:G:300:GLY:N	2.46	0.49
1:G:339:ARG:O	1:G:341:ALA:N	2.42	0.49
1:G:400:PRO:HB2	1:G:401:PRO:CD	2.42	0.49
1:G:460:VAL:O	1:G:461:GLU:C	2.51	0.49
1:H:67:LEU:CD1	1:H:88:ARG:HB2	2.42	0.49
1:H:106:SER:O	1:H:109:LYS:HG3	2.13	0.49
1:H:297:TYR:O	1:H:300:GLY:N	2.46	0.49
1:H:346:PRO:O	1:H:347:VAL:O	2.31	0.49
1:H:369:LEU:HD23	1:H:369:LEU:N	2.27	0.49
1:I:297:TYR:O	1:I:300:GLY:N	2.46	0.49
1:K:42:PHE:CZ	1:K:66:VAL:CG2	2.96	0.49
1:K:296:TYR:H	1:K:296:TYR:HD2	1.58	0.49
1:K:390:GLU:CB	1:K:391:PRO:CD	2.90	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:157:ALA:O	1:L:158:TRP:C	2.51	0.49
1:L:297:TYR:O	1:L:300:GLY:N	2.46	0.49
1:L:379:LEU:O	1:L:383:LYS:HB2	2.12	0.49
1:L:403:GLU:CB	1:L:406:GLU:HB2	2.43	0.49
1:L:410:VAL:O	1:L:411:ALA:HB3	2.12	0.49
1:A:79:PHE:CD1	1:A:80:PHE:CA	2.96	0.48
1:A:106:SER:O	1:A:109:LYS:HG3	2.13	0.48
1:A:294:ALA:O	1:A:297:TYR:N	2.46	0.48
1:A:398:ASP:HB3	1:A:402:GLU:OE2	2.12	0.48
1:B:89:CYS:SG	1:B:103:ASP:OD1	2.71	0.48
1:B:157:ALA:O	1:B:158:TRP:C	2.51	0.48
1:B:312:ALA:HB2	1:B:370:CYS:SG	2.52	0.48
1:B:399:LEU:HD23	1:B:402:GLU:CB	2.40	0.48
1:C:34:PRO:HG2	1:C:37:GLN:HG3	1.94	0.48
1:C:89:CYS:SG	1:C:103:ASP:OD1	2.71	0.48
1:C:106:SER:O	1:C:109:LYS:HG3	2.13	0.48
1:C:294:ALA:O	1:C:297:TYR:N	2.46	0.48
1:C:311:LEU:HD23	1:C:442:TYR:CE1	2.48	0.48
1:D:34:PRO:HG2	1:D:37:GLN:HG3	1.94	0.48
1:D:423:LEU:N	1:D:423:LEU:CD1	2.76	0.48
1:D:427:PHE:CE1	1:D:428:LEU:HD13	2.47	0.48
1:E:68:MET:C	1:E:70:ASP:N	2.67	0.48
1:E:236:GLN:NE2	1:E:236:GLN:HA	2.27	0.48
1:E:312:ALA:HB2	1:E:370:CYS:SG	2.53	0.48
1:E:410:VAL:O	1:E:411:ALA:HB3	2.12	0.48
1:F:2:ALA:O	1:F:3:GLU:C	2.50	0.48
1:F:10:ASN:O	1:F:11:GLU:C	2.51	0.48
1:F:67:LEU:CD1	1:F:88:ARG:HB2	2.42	0.48
1:F:73:THR:O	1:F:84:THR:N	2.45	0.48
1:F:79:PHE:CD1	1:F:80:PHE:CA	2.96	0.48
1:F:106:SER:O	1:F:109:LYS:HG3	2.13	0.48
1:F:297:TYR:O	1:F:300:GLY:N	2.46	0.48
1:F:346:PRO:O	1:F:347:VAL:O	2.31	0.48
1:G:5:VAL:HG11	1:G:43:PHE:HZ	1.76	0.48
1:G:34:PRO:HD3	1:L:208:ALA:HA	1.94	0.48
1:G:58:LYS:HD3	1:G:59:GLY:CA	2.43	0.48
1:G:58:LYS:H	1:L:339:ARG:NH2	2.11	0.48
1:G:68:MET:CE	1:G:88:ARG:CG	2.91	0.48
1:G:91:ILE:CA	1:G:97:LEU:O	2.61	0.48
1:G:106:SER:O	1:G:109:LYS:HG3	2.13	0.48
1:G:294:ALA:O	1:G:297:TYR:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:304:HIS:O	1:G:308:ILE:CG1	2.53	0.48
1:H:58:LYS:HD3	1:H:59:GLY:CA	2.43	0.48
1:H:306:LYS:HD3	1:H:411:ALA:HA	1.95	0.48
1:I:3:GLU:OE1	1:I:3:GLU:CA	2.57	0.48
1:I:10:ASN:O	1:I:11:GLU:C	2.51	0.48
1:I:126:PHE:CE1	1:I:228:MET:HE3	2.47	0.48
1:I:346:PRO:O	1:I:347:VAL:O	2.31	0.48
1:J:2:ALA:O	1:J:3:GLU:C	2.50	0.48
1:J:88:ARG:CZ	1:J:109:LYS:CE	2.90	0.48
1:J:157:ALA:O	1:J:158:TRP:C	2.51	0.48
1:J:172:ARG:CB	1:J:173:PRO:CD	2.89	0.48
1:J:227:THR:O	1:J:228:MET:C	2.48	0.48
1:K:33:ILE:HD13	1:K:34:PRO:CD	2.42	0.48
1:K:89:CYS:SG	1:K:103:ASP:OD1	2.71	0.48
1:K:106:SER:O	1:K:109:LYS:HG3	2.13	0.48
1:K:287:TYR:O	1:K:289:GLY:O	2.32	0.48
1:K:317:ASN:C	1:K:317:ASN:HD22	2.16	0.48
1:K:379:LEU:O	1:K:383:LYS:HB2	2.12	0.48
1:L:5:VAL:HG11	1:L:43:PHE:HZ	1.76	0.48
1:L:30:HIS:C	1:L:30:HIS:ND1	2.65	0.48
1:L:76:ILE:CD1	1:L:202:MET:HE3	2.31	0.48
1:L:126:PHE:CE1	1:L:228:MET:HE3	2.48	0.48
1:L:312:ALA:HB2	1:L:370:CYS:SG	2.52	0.48
1:L:423:LEU:N	1:L:423:LEU:CD1	2.76	0.48
1:A:3:GLU:OE1	1:A:3:GLU:CA	2.57	0.48
1:A:58:LYS:H	1:B:339:ARG:NH2	2.11	0.48
1:A:67:LEU:CD1	1:A:88:ARG:HB2	2.42	0.48
1:A:376:MET:CE	1:A:433:VAL:HG13	2.41	0.48
1:B:280:ASN:ND2	1:B:280:ASN:N	2.49	0.48
1:B:297:TYR:C	1:B:299:GLY:N	2.66	0.48
1:B:401:PRO:C	1:B:405:LYS:HG2	2.34	0.48
1:B:423:LEU:N	1:B:423:LEU:CD1	2.76	0.48
1:C:58:LYS:H	1:D:339:ARG:NH2	2.12	0.48
1:C:287:TYR:O	1:C:289:GLY:O	2.32	0.48
1:C:362:ASP:C	1:C:364:ALA:N	2.61	0.48
1:D:88:ARG:HA	1:D:105:ARG:HD2	1.95	0.48
1:D:187:SER:O	1:D:188:ALA:CB	2.60	0.48
1:D:264:ASN:O	1:D:265:GLY:O	2.32	0.48
1:D:311:LEU:HD23	1:D:442:TYR:CE1	2.48	0.48
1:D:317:ASN:C	1:D:317:ASN:HD22	2.16	0.48
1:D:401:PRO:C	1:D:405:LYS:HG2	2.34	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:126:PHE:CE1	1:E:228:MET:HE3	2.47	0.48
1:E:187:SER:O	1:E:188:ALA:CB	2.61	0.48
1:E:294:ALA:O	1:E:297:TYR:N	2.46	0.48
1:E:306:LYS:HD3	1:E:411:ALA:HA	1.95	0.48
1:E:400:PRO:HB2	1:E:401:PRO:CD	2.43	0.48
1:F:294:ALA:O	1:F:297:TYR:N	2.46	0.48
1:G:60:ILE:CG2	1:G:100:TYR:CD2	2.96	0.48
1:G:67:LEU:C	1:G:69:PRO:N	2.63	0.48
1:G:79:PHE:CD1	1:G:80:PHE:CA	2.97	0.48
1:G:93:GLU:OE1	1:G:93:GLU:CA	2.58	0.48
1:G:351:PRO:HA	1:G:354:ARG:NH1	2.27	0.48
1:G:379:LEU:O	1:G:383:LYS:HB2	2.12	0.48
1:G:414:LEU:HD23	1:G:414:LEU:O	2.12	0.48
1:H:73:THR:O	1:H:84:THR:N	2.45	0.48
1:H:79:PHE:CD1	1:H:80:PHE:CA	2.96	0.48
1:H:294:ALA:O	1:H:297:TYR:N	2.46	0.48
1:H:295:LEU:HD12	1:H:295:LEU:N	2.27	0.48
1:I:68:MET:C	1:I:70:ASP:N	2.67	0.48
1:I:163:LYS:NZ	1:I:163:LYS:CB	2.74	0.48
1:I:312:ALA:HB2	1:I:370:CYS:SG	2.53	0.48
1:J:19:LEU:HD22	1:J:240:TYR:HH	1.72	0.48
1:J:20:ARG:HG3	1:J:28:GLU:OE2	2.12	0.48
1:J:67:LEU:CG	1:J:88:ARG:CB	2.91	0.48
1:J:88:ARG:HA	1:J:105:ARG:HD2	1.95	0.48
1:J:208:ALA:HA	1:K:34:PRO:HD3	1.94	0.48
1:J:311:LEU:HD23	1:J:442:TYR:CE1	2.48	0.48
1:J:423:LEU:N	1:J:423:LEU:CD1	2.76	0.48
1:K:34:PRO:HG2	1:K:37:GLN:HG3	1.94	0.48
1:K:59:GLY:O	1:K:60:ILE:HD13	2.14	0.48
1:K:312:ALA:HB2	1:K:370:CYS:SG	2.53	0.48
1:L:10:ASN:O	1:L:11:GLU:C	2.51	0.48
1:L:89:CYS:SG	1:L:103:ASP:OD1	2.71	0.48
1:L:187:SER:O	1:L:188:ALA:CB	2.61	0.48
1:A:34:PRO:HD3	1:B:208:ALA:HA	1.94	0.48
1:A:93:GLU:OE1	1:A:93:GLU:CA	2.58	0.48
1:A:297:TYR:O	1:A:300:GLY:N	2.46	0.48
1:A:346:PRO:O	1:A:347:VAL:O	2.31	0.48
1:A:351:PRO:HA	1:A:354:ARG:NH1	2.27	0.48
1:A:400:PRO:HB2	1:A:401:PRO:CD	2.43	0.48
1:B:34:PRO:HG2	1:B:37:GLN:HG3	1.95	0.48
1:B:68:MET:CE	1:B:88:ARG:CG	2.91	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:187:SER:O	1:B:188:ALA:CB	2.61	0.48
1:B:287:TYR:O	1:B:289:GLY:O	2.32	0.48
1:B:399:LEU:O	1:B:402:GLU:CB	2.61	0.48
1:C:9:LEU:HD12	1:C:14:VAL:CG2	2.38	0.48
1:C:34:PRO:HD3	1:D:208:ALA:HA	1.94	0.48
1:C:42:PHE:CZ	1:C:66:VAL:CG2	2.96	0.48
1:C:60:ILE:CG2	1:C:100:TYR:CD2	2.96	0.48
1:C:88:ARG:HA	1:C:105:ARG:HD2	1.95	0.48
1:C:312:ALA:HB2	1:C:370:CYS:SG	2.52	0.48
1:C:346:PRO:O	1:C:347:VAL:O	2.31	0.48
1:D:67:LEU:CG	1:D:88:ARG:CB	2.92	0.48
1:D:227:THR:O	1:D:228:MET:C	2.47	0.48
1:E:17:VAL:CG1	1:E:33:ILE:HG22	2.42	0.48
1:E:67:LEU:CG	1:E:88:ARG:CB	2.92	0.48
1:E:204:LEU:HD23	1:E:234:GLU:HB3	1.94	0.48
1:E:264:ASN:O	1:E:265:GLY:O	2.32	0.48
1:E:401:PRO:C	1:E:405:LYS:HG2	2.34	0.48
1:F:58:LYS:HD3	1:F:59:GLY:CA	2.43	0.48
1:F:93:GLU:HG3	1:F:94:PRO:HD3	1.93	0.48
1:F:295:LEU:HD12	1:F:295:LEU:N	2.27	0.48
1:G:67:LEU:CD1	1:G:88:ARG:HB2	2.42	0.48
1:G:204:LEU:HD23	1:G:234:GLU:HB3	1.94	0.48
1:G:311:LEU:HD23	1:G:442:TYR:CE1	2.48	0.48
1:G:346:PRO:O	1:G:347:VAL:O	2.31	0.48
1:H:2:ALA:O	1:H:3:GLU:C	2.50	0.48
1:H:93:GLU:HG3	1:H:94:PRO:HD3	1.93	0.48
1:H:351:PRO:HA	1:H:354:ARG:NH1	2.27	0.48
1:H:383:LYS:CE	1:H:384:ASN:N	2.74	0.48
1:I:204:LEU:HD23	1:I:234:GLU:HB3	1.94	0.48
1:I:236:GLN:NE2	1:I:236:GLN:HA	2.27	0.48
1:I:294:ALA:O	1:I:297:TYR:N	2.46	0.48
1:I:306:LYS:HD3	1:I:411:ALA:HA	1.95	0.48
1:I:399:LEU:O	1:I:402:GLU:CB	2.61	0.48
1:I:400:PRO:HB2	1:I:401:PRO:CD	2.43	0.48
1:I:401:PRO:C	1:I:405:LYS:HG2	2.34	0.48
1:J:79:PHE:CB	1:J:80:PHE:CD1	2.95	0.48
1:J:175:VAL:CA	1:J:215:THR:HG23	2.43	0.48
1:J:187:SER:O	1:J:188:ALA:CB	2.60	0.48
1:J:331:MET:HE2	1:J:396:LEU:CD1	2.39	0.48
1:J:401:PRO:C	1:J:405:LYS:HG2	2.34	0.48
1:J:403:GLU:CA	1:J:405:LYS:CG	2.86	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:414:LEU:HD23	1:J:414:LEU:O	2.12	0.48
1:K:88:ARG:HA	1:K:105:ARG:HD2	1.95	0.48
1:K:311:LEU:HD23	1:K:442:TYR:CE1	2.48	0.48
1:K:360:PHE:N	1:K:361:PRO:HD3	2.22	0.48
1:L:34:PRO:HG2	1:L:37:GLN:HG3	1.95	0.48
1:A:5:VAL:HG11	1:A:43:PHE:HZ	1.76	0.48
1:A:107:ILE:HA	1:A:110:ARG:HG3	1.94	0.48
1:A:172:ARG:CB	1:A:173:PRO:CD	2.89	0.48
1:A:311:LEU:HD23	1:A:442:TYR:CE1	2.48	0.48
1:A:421:LEU:CD2	1:A:443:ILE:HD11	2.38	0.48
1:A:423:LEU:N	1:A:423:LEU:CD1	2.76	0.48
1:B:351:PRO:HA	1:B:354:ARG:NH1	2.27	0.48
1:B:360:PHE:N	1:B:361:PRO:HD3	2.21	0.48
1:C:59:GLY:O	1:C:60:ILE:HD13	2.14	0.48
1:C:317:ASN:C	1:C:317:ASN:HD22	2.17	0.48
1:D:58:LYS:H	1:E:339:ARG:NH2	2.11	0.48
1:D:175:VAL:CA	1:D:215:THR:HG23	2.43	0.48
1:D:369:LEU:HD23	1:D:369:LEU:N	2.27	0.48
1:E:3:GLU:OE1	1:E:3:GLU:CA	2.57	0.48
1:E:88:ARG:CZ	1:E:109:LYS:CE	2.90	0.48
1:E:399:LEU:O	1:E:402:GLU:CB	2.62	0.48
1:E:446:ARG:N	1:E:446:ARG:CD	2.74	0.48
1:F:306:LYS:HD3	1:F:411:ALA:HA	1.96	0.48
1:G:89:CYS:SG	1:G:103:ASP:OD1	2.71	0.48
1:G:189:GLN:C	1:G:191:ILE:N	2.67	0.48
1:G:228:MET:HE1	1:G:372:ALA:CA	2.44	0.48
1:G:360:PHE:N	1:G:361:PRO:HD3	2.22	0.48
1:G:421:LEU:CD2	1:G:443:ILE:HD11	2.38	0.48
1:H:27:LYS:HZ2	1:H:239:LYS:HE3	1.76	0.48
1:H:311:LEU:HD23	1:H:442:TYR:CE1	2.48	0.48
1:H:399:LEU:O	1:H:402:GLU:CB	2.61	0.48
1:I:67:LEU:CG	1:I:88:ARG:CB	2.92	0.48
1:I:187:SER:O	1:I:188:ALA:CB	2.61	0.48
1:I:264:ASN:O	1:I:265:GLY:O	2.32	0.48
1:I:410:VAL:O	1:I:411:ALA:HB3	2.12	0.48
1:J:34:PRO:HG2	1:J:37:GLN:HG3	1.95	0.48
1:J:93:GLU:HG3	1:J:94:PRO:HD3	1.93	0.48
1:J:106:SER:O	1:J:109:LYS:HG3	2.13	0.48
1:J:228:MET:HE1	1:J:372:ALA:HA	1.95	0.48
1:J:264:ASN:O	1:J:265:GLY:O	2.32	0.48
1:J:306:LYS:HD3	1:J:411:ALA:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:60:ILE:CG2	1:K:100:TYR:CD2	2.96	0.48
1:K:208:ALA:HA	1:L:34:PRO:HD3	1.94	0.48
1:K:275:ALA:HA	1:K:280:ASN:HA	1.94	0.48
1:K:346:PRO:O	1:K:347:VAL:O	2.31	0.48
1:L:60:ILE:CG2	1:L:100:TYR:CD2	2.96	0.48
1:L:68:MET:CE	1:L:88:ARG:CG	2.91	0.48
1:L:106:SER:O	1:L:109:LYS:HG3	2.13	0.48
1:L:287:TYR:O	1:L:289:GLY:O	2.32	0.48
1:L:351:PRO:HA	1:L:354:ARG:NH1	2.27	0.48
1:L:399:LEU:HD23	1:L:402:GLU:CB	2.40	0.48
1:L:401:PRO:C	1:L:405:LYS:HG2	2.34	0.48
1:A:9:LEU:HD12	1:A:14:VAL:CG2	2.38	0.48
1:A:67:LEU:C	1:A:69:PRO:N	2.63	0.48
1:A:189:GLN:C	1:A:191:ILE:N	2.67	0.48
1:A:208:ALA:HB2	1:F:33:ILE:CD1	2.44	0.48
1:A:297:TYR:C	1:A:299:GLY:N	2.66	0.48
1:A:399:LEU:O	1:A:402:GLU:CB	2.61	0.48
1:B:5:VAL:HG11	1:B:43:PHE:HZ	1.76	0.48
1:B:34:PRO:HD3	1:C:208:ALA:HA	1.94	0.48
1:B:58:LYS:H	1:C:339:ARG:NH2	2.11	0.48
1:B:79:PHE:CD1	1:B:80:PHE:CA	2.96	0.48
1:B:403:GLU:CB	1:B:406:GLU:HB2	2.43	0.48
1:C:228:MET:HE1	1:C:372:ALA:CA	2.44	0.48
1:C:275:ALA:HA	1:C:280:ASN:HA	1.94	0.48
1:C:383:LYS:CE	1:C:384:ASN:N	2.74	0.48
1:C:401:PRO:O	1:C:402:GLU:C	2.52	0.48
1:D:73:THR:O	1:D:84:THR:N	2.45	0.48
1:D:93:GLU:HG3	1:D:94:PRO:HD3	1.93	0.48
1:D:228:MET:HE1	1:D:372:ALA:HA	1.95	0.48
1:D:399:LEU:O	1:D:402:GLU:CB	2.61	0.48
1:D:403:GLU:CA	1:D:405:LYS:CG	2.86	0.48
1:D:465:TYR:HD2	1:J:315:THR:OG1	1.81	0.48
1:E:379:LEU:C	1:E:379:LEU:CD1	2.82	0.48
1:E:423:LEU:N	1:E:423:LEU:CD1	2.76	0.48
1:F:20:ARG:HG3	1:F:28:GLU:OE2	2.12	0.48
1:F:67:LEU:CG	1:F:88:ARG:CB	2.91	0.48
1:F:88:ARG:HA	1:F:105:ARG:HD2	1.95	0.48
1:F:311:LEU:HD23	1:F:442:TYR:CE1	2.48	0.48
1:F:399:LEU:O	1:F:402:GLU:CB	2.61	0.48
1:F:421:LEU:CD2	1:F:443:ILE:HD11	2.37	0.48
1:G:88:ARG:HA	1:G:105:ARG:HD2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:107:ILE:HA	1:G:110:ARG:HG3	1.94	0.48
1:G:297:TYR:C	1:G:299:GLY:N	2.66	0.48
1:G:399:LEU:O	1:G:402:GLU:CB	2.61	0.48
1:G:423:LEU:N	1:G:423:LEU:CD1	2.76	0.48
1:H:10:ASN:O	1:H:11:GLU:C	2.51	0.48
1:H:20:ARG:HG3	1:H:28:GLU:OE2	2.12	0.48
1:H:67:LEU:CG	1:H:88:ARG:CB	2.92	0.48
1:H:189:GLN:C	1:H:191:ILE:N	2.67	0.48
1:H:421:LEU:CD2	1:H:443:ILE:HD11	2.37	0.48
1:I:17:VAL:CG1	1:I:33:ILE:HG22	2.42	0.48
1:I:275:ALA:HA	1:I:280:ASN:HA	1.94	0.48
1:I:331:MET:HB2	1:I:340:SER:O	2.13	0.48
1:I:423:LEU:N	1:I:423:LEU:CD1	2.76	0.48
1:I:446:ARG:N	1:I:446:ARG:CD	2.73	0.48
1:J:287:TYR:O	1:J:289:GLY:O	2.31	0.48
1:J:317:ASN:C	1:J:317:ASN:HD22	2.17	0.48
1:J:360:PHE:N	1:J:361:PRO:HD3	2.22	0.48
1:J:369:LEU:N	1:J:369:LEU:HD23	2.27	0.48
1:J:419:ASN:O	1:J:420:ALA:C	2.52	0.48
1:K:9:LEU:HD12	1:K:14:VAL:CG2	2.38	0.48
1:K:383:LYS:CE	1:K:384:ASN:N	2.74	0.48
1:K:437:GLU:HB2	1:K:438:ALA:H	1.11	0.48
1:L:399:LEU:O	1:L:402:GLU:CB	2.62	0.48
1:A:88:ARG:HA	1:A:105:ARG:HD2	1.95	0.48
1:A:89:CYS:SG	1:A:103:ASP:OD1	2.71	0.48
1:A:93:GLU:HG3	1:A:94:PRO:HD3	1.93	0.48
1:A:304:HIS:O	1:A:308:ILE:CG1	2.53	0.48
1:B:76:ILE:CD1	1:B:202:MET:HE3	2.31	0.48
1:C:67:LEU:CG	1:C:88:ARG:CB	2.91	0.48
1:C:172:ARG:CB	1:C:173:PRO:CD	2.89	0.48
1:D:43:PHE:CE2	1:D:69:PRO:HB3	2.44	0.48
1:D:79:PHE:CB	1:D:80:PHE:CD1	2.95	0.48
1:D:179:TYR:CZ	1:D:180:PHE:CZ	3.00	0.48
1:D:287:TYR:O	1:D:289:GLY:O	2.32	0.48
1:D:306:LYS:HD3	1:D:411:ALA:HA	1.96	0.48
1:D:419:ASN:O	1:D:420:ALA:C	2.52	0.48
1:E:179:TYR:CZ	1:E:180:PHE:CZ	3.01	0.48
1:F:163:LYS:NZ	1:F:163:LYS:CB	2.74	0.48
1:F:204:LEU:HD23	1:F:234:GLU:HB3	1.94	0.48
1:F:331:MET:HB2	1:F:340:SER:O	2.13	0.48
1:F:421:LEU:HD22	1:F:443:ILE:CD1	2.36	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2:ALA:O	1:G:3:GLU:C	2.50	0.48
1:G:9:LEU:HD12	1:G:14:VAL:CG2	2.38	0.48
1:G:67:LEU:CG	1:G:88:ARG:CB	2.92	0.48
1:H:163:LYS:NZ	1:H:163:LYS:CB	2.74	0.48
1:H:401:PRO:C	1:H:405:LYS:HG2	2.34	0.48
1:H:421:LEU:HD22	1:H:443:ILE:CD1	2.36	0.48
1:I:179:TYR:CZ	1:I:180:PHE:CZ	3.01	0.48
1:I:309:ASN:CB	1:I:313:ASN:HD22	2.26	0.48
1:I:339:ARG:NH2	1:J:58:LYS:H	2.11	0.48
1:I:403:GLU:CA	1:I:405:LYS:CG	2.86	0.48
1:J:312:ALA:HB2	1:J:370:CYS:SG	2.52	0.48
1:J:318:SER:OG	1:J:362:ASP:OD2	2.32	0.48
1:J:399:LEU:O	1:J:402:GLU:CB	2.61	0.48
1:J:421:LEU:HD22	1:J:443:ILE:CD1	2.36	0.48
1:K:67:LEU:CG	1:K:88:ARG:CB	2.91	0.48
1:K:228:MET:HE1	1:K:372:ALA:CA	2.44	0.48
1:K:379:LEU:C	1:K:379:LEU:CD1	2.82	0.48
1:K:401:PRO:O	1:K:402:GLU:C	2.52	0.48
1:L:39:ASN:HD22	1:L:42:PHE:HB3	1.79	0.48
1:L:79:PHE:CD1	1:L:80:PHE:CA	2.96	0.48
1:L:304:HIS:O	1:L:308:ILE:CG1	2.53	0.48
1:A:2:ALA:O	1:A:3:GLU:C	2.50	0.48
1:A:33:ILE:HD13	1:A:34:PRO:CD	2.42	0.48
1:A:42:PHE:CZ	1:A:66:VAL:CG2	2.96	0.48
1:A:59:GLY:O	1:A:60:ILE:HD13	2.14	0.48
1:A:67:LEU:CG	1:A:88:ARG:CB	2.91	0.48
1:A:268:MET:H	1:A:362:ASP:HA	1.79	0.48
1:B:67:LEU:CG	1:B:88:ARG:CB	2.91	0.48
1:B:106:SER:O	1:B:109:LYS:HG3	2.14	0.48
1:B:376:MET:HE1	1:B:433:VAL:CG1	2.20	0.48
1:C:264:ASN:O	1:C:265:GLY:O	2.32	0.48
1:C:306:LYS:HD3	1:C:411:ALA:HA	1.95	0.48
1:C:403:GLU:CA	1:C:405:LYS:CG	2.86	0.48
1:C:403:GLU:CB	1:C:406:GLU:HB2	2.43	0.48
1:D:9:LEU:HD12	1:D:9:LEU:HA	1.72	0.48
1:D:60:ILE:CG2	1:D:100:TYR:CD2	2.96	0.48
1:D:106:SER:O	1:D:109:LYS:HG3	2.13	0.48
1:D:268:MET:H	1:D:362:ASP:HA	1.79	0.48
1:D:312:ALA:HB2	1:D:370:CYS:SG	2.52	0.48
1:D:339:ARG:O	1:D:341:ALA:N	2.42	0.48
1:D:379:LEU:C	1:D:379:LEU:CD1	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:383:LYS:CE	1:D:384:ASN:N	2.74	0.48
1:E:58:LYS:H	1:F:339:ARG:NH2	2.11	0.48
1:E:88:ARG:HA	1:E:105:ARG:HD2	1.95	0.48
1:E:89:CYS:SG	1:E:103:ASP:OD1	2.71	0.48
1:E:199:MET:HE2	1:E:238:TYR:CD2	2.49	0.48
1:E:309:ASN:CB	1:E:313:ASN:HD22	2.26	0.48
1:E:313:ASN:N	1:E:314:PRO:HD3	2.29	0.48
1:E:318:SER:OG	1:E:362:ASP:OD2	2.32	0.48
1:E:331:MET:HB2	1:E:340:SER:O	2.13	0.48
1:F:39:ASN:HD22	1:F:39:ASN:N	2.12	0.48
1:F:111:ALA:HA	1:F:376:MET:HE2	1.94	0.48
1:F:189:GLN:C	1:F:191:ILE:N	2.67	0.48
1:F:401:PRO:C	1:F:405:LYS:HG2	2.34	0.48
1:G:33:ILE:HD13	1:G:34:PRO:CD	2.42	0.48
1:G:118:THR:OG1	1:G:120:ILE:CG1	2.58	0.48
1:H:34:PRO:HG2	1:H:37:GLN:HG3	1.94	0.48
1:H:68:MET:C	1:H:70:ASP:N	2.67	0.48
1:H:88:ARG:HA	1:H:105:ARG:HD2	1.95	0.48
1:H:331:MET:HB2	1:H:340:SER:O	2.13	0.48
1:H:339:ARG:NH2	1:I:58:LYS:H	2.11	0.48
1:I:42:PHE:CZ	1:I:66:VAL:CG2	2.96	0.48
1:I:89:CYS:SG	1:I:103:ASP:OD1	2.71	0.48
1:I:318:SER:OG	1:I:362:ASP:OD2	2.32	0.48
1:I:379:LEU:C	1:I:379:LEU:CD1	2.82	0.48
1:I:419:ASN:O	1:I:420:ALA:C	2.52	0.48
1:J:9:LEU:HD12	1:J:9:LEU:HA	1.72	0.48
1:J:59:GLY:O	1:J:60:ILE:HD13	2.14	0.48
1:J:168:ASN:HB3	1:K:138:ILE:O	2.14	0.48
1:J:379:LEU:C	1:J:379:LEU:CD1	2.82	0.48
1:K:306:LYS:HD3	1:K:411:ALA:HA	1.95	0.48
1:K:339:ARG:NH2	1:L:58:LYS:H	2.11	0.48
1:K:403:GLU:CB	1:K:406:GLU:HB2	2.43	0.48
1:L:331:MET:HB2	1:L:340:SER:O	2.13	0.48
1:L:460:VAL:O	1:L:461:GLU:C	2.51	0.48
1:A:154:ILE:H	1:A:154:ILE:HG13	1.39	0.48
1:B:24:THR:CG2	1:B:25:LYS:N	2.72	0.48
1:B:39:ASN:HD22	1:B:42:PHE:HB3	1.79	0.48
1:B:189:GLN:C	1:B:191:ILE:N	2.67	0.48
1:B:199:MET:CB	1:B:204:LEU:HD12	2.44	0.48
1:B:304:HIS:O	1:B:308:ILE:CG1	2.53	0.48
1:C:111:ALA:HA	1:C:376:MET:HE2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:138:ILE:O	1:D:168:ASN:HB3	2.14	0.48
1:C:379:LEU:C	1:C:379:LEU:CD1	2.82	0.48
1:C:399:LEU:O	1:C:402:GLU:CB	2.61	0.48
1:D:274:LEU:O	1:D:281:LEU:CD1	2.62	0.48
1:D:294:ALA:O	1:D:297:TYR:N	2.46	0.48
1:D:312:ALA:O	1:D:313:ASN:OD1	2.32	0.48
1:D:315:THR:OG1	1:J:465:TYR:HD2	1.80	0.48
1:E:312:ALA:O	1:E:313:ASN:OD1	2.32	0.48
1:E:403:GLU:CA	1:E:405:LYS:CG	2.86	0.48
1:E:419:ASN:O	1:E:420:ALA:C	2.52	0.48
1:F:59:GLY:O	1:F:60:ILE:HD13	2.14	0.48
1:F:228:MET:HE1	1:F:372:ALA:CA	2.44	0.48
1:F:315:THR:CB	1:L:465:TYR:HD2	2.02	0.48
1:G:59:GLY:O	1:G:60:ILE:HD13	2.14	0.48
1:G:208:ALA:HB2	1:H:33:ILE:CD1	2.44	0.48
1:G:268:MET:H	1:G:362:ASP:HA	1.79	0.48
1:H:33:ILE:HD13	1:H:34:PRO:CD	2.42	0.48
1:H:75:VAL:CG1	1:H:78:PRO:CD	2.70	0.48
1:H:204:LEU:HD23	1:H:234:GLU:HB3	1.94	0.48
1:H:208:ALA:HB2	1:I:33:ILE:CD1	2.44	0.48
1:I:88:ARG:HA	1:I:105:ARG:HD2	1.95	0.48
1:I:297:TYR:C	1:I:299:GLY:N	2.66	0.48
1:J:73:THR:O	1:J:84:THR:N	2.45	0.48
1:J:179:TYR:CZ	1:J:180:PHE:CZ	3.01	0.48
1:K:264:ASN:O	1:K:265:GLY:O	2.32	0.48
1:K:399:LEU:O	1:K:402:GLU:CB	2.61	0.48
1:L:67:LEU:CG	1:L:88:ARG:CB	2.92	0.48
1:L:189:GLN:C	1:L:191:ILE:N	2.67	0.48
1:L:199:MET:CB	1:L:204:LEU:HD12	2.44	0.48
1:L:268:MET:H	1:L:362:ASP:HA	1.79	0.48
1:L:311:LEU:HD23	1:L:442:TYR:CE1	2.48	0.48
1:A:33:ILE:CD1	1:B:208:ALA:HB2	2.44	0.48
1:A:89:CYS:HB3	1:A:90:ASP:H	1.44	0.48
1:A:118:THR:OG1	1:A:120:ILE:CG1	2.58	0.48
1:A:287:TYR:O	1:A:289:GLY:O	2.32	0.48
1:B:77:ASP:O	1:B:78:PRO:C	2.52	0.48
1:B:383:LYS:CE	1:B:384:ASN:N	2.74	0.48
1:C:401:PRO:C	1:C:405:LYS:HG2	2.34	0.48
1:C:423:LEU:N	1:C:423:LEU:CD1	2.76	0.48
1:C:460:VAL:O	1:C:461:GLU:C	2.51	0.48
1:D:59:GLY:O	1:D:60:ILE:HD13	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:309:ASN:CB	1:D:313:ASN:HD22	2.26	0.48
1:D:421:LEU:HD22	1:D:443:ILE:CD1	2.36	0.48
1:E:33:ILE:CD1	1:F:208:ALA:HB2	2.44	0.48
1:E:42:PHE:CZ	1:E:66:VAL:CG2	2.96	0.48
1:E:113:ASP:C	1:E:113:ASP:OD2	2.49	0.48
1:E:297:TYR:C	1:E:299:GLY:N	2.66	0.48
1:E:403:GLU:CB	1:E:406:GLU:HB2	2.43	0.48
1:E:403:GLU:CB	1:E:406:GLU:CB	2.87	0.48
1:F:34:PRO:HG2	1:F:37:GLN:HG3	1.94	0.48
1:F:91:ILE:CA	1:F:97:LEU:O	2.61	0.48
1:F:187:SER:O	1:F:188:ALA:CB	2.61	0.48
1:F:335:SER:N	1:F:345:ILE:CD1	2.75	0.48
1:G:33:ILE:CD1	1:L:208:ALA:HB2	2.44	0.48
1:G:42:PHE:CZ	1:G:66:VAL:CG2	2.96	0.48
1:H:39:ASN:HD22	1:H:39:ASN:N	2.12	0.48
1:H:59:GLY:O	1:H:60:ILE:HD13	2.14	0.48
1:H:187:SER:O	1:H:188:ALA:CB	2.61	0.48
1:I:168:ASN:HB3	1:J:138:ILE:O	2.14	0.48
1:I:312:ALA:O	1:I:313:ASN:OD1	2.32	0.48
1:J:43:PHE:CE2	1:J:69:PRO:HB3	2.44	0.48
1:J:60:ILE:CG2	1:J:100:TYR:CD2	2.96	0.48
1:J:268:MET:H	1:J:362:ASP:HA	1.79	0.48
1:J:294:ALA:O	1:J:297:TYR:N	2.46	0.48
1:J:309:ASN:CB	1:J:313:ASN:HD22	2.26	0.48
1:J:312:ALA:O	1:J:313:ASN:OD1	2.32	0.48
1:J:313:ASN:N	1:J:314:PRO:HD3	2.29	0.48
1:J:383:LYS:CE	1:J:384:ASN:N	2.74	0.48
1:K:3:GLU:OE1	1:K:3:GLU:CA	2.57	0.48
1:K:38:VAL:O	1:K:39:ASN:CB	2.56	0.48
1:K:172:ARG:CB	1:K:173:PRO:CD	2.89	0.48
1:K:401:PRO:C	1:K:405:LYS:HG2	2.34	0.48
1:K:460:VAL:O	1:K:461:GLU:C	2.51	0.48
1:L:20:ARG:HG3	1:L:28:GLU:OE2	2.12	0.48
1:L:360:PHE:N	1:L:361:PRO:HD3	2.22	0.48
1:L:379:LEU:C	1:L:379:LEU:CD1	2.82	0.48
1:A:274:LEU:O	1:A:281:LEU:CD1	2.62	0.48
1:B:268:MET:H	1:B:362:ASP:HA	1.79	0.48
1:B:311:LEU:HD23	1:B:442:TYR:CE1	2.48	0.48
1:B:317:ASN:C	1:B:317:ASN:HD22	2.16	0.48
1:B:379:LEU:C	1:B:379:LEU:CD1	2.82	0.48
1:B:460:VAL:O	1:B:461:GLU:C	2.51	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:79:PHE:CD1	1:C:80:PHE:CA	2.96	0.48
1:D:3:GLU:O	1:D:6:LEU:HB3	2.14	0.48
1:D:19:LEU:HD22	1:D:240:TYR:HH	1.73	0.48
1:D:33:ILE:HD13	1:D:34:PRO:CD	2.42	0.48
1:D:58:LYS:HD3	1:D:59:GLY:CA	2.43	0.48
1:D:68:MET:C	1:D:70:ASP:N	2.67	0.48
1:D:138:ILE:O	1:E:168:ASN:HB3	2.14	0.48
1:D:295:LEU:HB3	1:D:388:PRO:CG	2.44	0.48
1:D:313:ASN:N	1:D:314:PRO:HD3	2.29	0.48
1:D:346:PRO:O	1:D:347:VAL:O	2.30	0.48
1:D:437:GLU:CA	1:D:437:GLU:OE2	2.62	0.48
1:E:39:ASN:HD22	1:E:39:ASN:N	2.12	0.48
1:E:79:PHE:CD1	1:E:80:PHE:CA	2.97	0.48
1:E:106:SER:O	1:E:109:LYS:HG3	2.13	0.48
1:E:316:THR:HG22	1:E:317:ASN:N	2.29	0.48
1:E:360:PHE:N	1:E:361:PRO:HD3	2.22	0.48
1:F:27:LYS:HZ2	1:F:239:LYS:HE3	1.77	0.48
1:F:68:MET:C	1:F:70:ASP:N	2.67	0.48
1:F:75:VAL:CG1	1:F:78:PRO:CD	2.70	0.48
1:F:264:ASN:O	1:F:265:GLY:O	2.32	0.48
1:F:268:MET:H	1:F:362:ASP:HA	1.79	0.48
1:F:401:PRO:O	1:F:402:GLU:C	2.52	0.48
1:G:274:LEU:O	1:G:281:LEU:CD1	2.62	0.48
1:G:287:TYR:O	1:G:289:GLY:O	2.32	0.48
1:H:42:PHE:CZ	1:H:66:VAL:CG2	2.96	0.48
1:H:268:MET:H	1:H:362:ASP:HA	1.79	0.48
1:H:335:SER:N	1:H:345:ILE:CD1	2.75	0.48
1:H:401:PRO:O	1:H:402:GLU:C	2.52	0.48
1:I:79:PHE:CD1	1:I:80:PHE:CA	2.97	0.48
1:I:311:LEU:HD23	1:I:311:LEU:HA	1.54	0.48
1:I:313:ASN:N	1:I:314:PRO:HD3	2.29	0.48
1:J:3:GLU:O	1:J:6:LEU:HB3	2.14	0.48
1:J:33:ILE:HD13	1:J:34:PRO:CD	2.42	0.48
1:J:274:LEU:O	1:J:281:LEU:CD1	2.62	0.48
1:J:331:MET:CE	1:J:396:LEU:CD1	2.81	0.48
1:J:339:ARG:O	1:J:341:ALA:N	2.42	0.48
1:J:346:PRO:O	1:J:347:VAL:O	2.31	0.48
1:J:460:VAL:O	1:J:461:GLU:C	2.51	0.48
1:K:403:GLU:CA	1:K:405:LYS:CG	2.86	0.48
1:L:77:ASP:O	1:L:78:PRO:C	2.53	0.48
1:L:317:ASN:C	1:L:317:ASN:HD22	2.17	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:34:PRO:HG2	1:A:37:GLN:HG3	1.95	0.47
1:A:119:GLY:O	1:A:120:ILE:C	2.52	0.47
1:A:336:ALA:HA	1:A:345:ILE:O	2.14	0.47
1:A:399:LEU:HD23	1:A:402:GLU:CB	2.39	0.47
1:A:401:PRO:C	1:A:405:LYS:HG2	2.34	0.47
1:B:138:ILE:O	1:C:168:ASN:HB3	2.14	0.47
1:B:212:GLU:HB3	1:B:213:VAL:H	1.61	0.47
1:B:312:ALA:O	1:B:313:ASN:OD1	2.32	0.47
1:B:331:MET:HE3	1:B:396:LEU:CB	2.43	0.47
1:B:331:MET:HB2	1:B:340:SER:O	2.13	0.47
1:B:376:MET:CE	1:B:433:VAL:CG2	2.87	0.47
1:B:403:GLU:CB	1:B:406:GLU:CB	2.87	0.47
1:B:449:GLU:CD	1:H:465:TYR:OH	2.52	0.47
1:B:465:TYR:HD2	1:H:315:THR:CB	2.02	0.47
1:C:38:VAL:O	1:C:39:ASN:CB	2.56	0.47
1:C:295:LEU:HB3	1:C:388:PRO:CG	2.44	0.47
1:C:399:LEU:HD23	1:C:402:GLU:CB	2.39	0.47
1:D:42:PHE:CZ	1:D:66:VAL:CG2	2.96	0.47
1:D:460:VAL:O	1:D:461:GLU:C	2.51	0.47
1:E:39:ASN:HD22	1:E:42:PHE:HB3	1.79	0.47
1:E:60:ILE:CG2	1:E:100:TYR:CD2	2.96	0.47
1:E:287:TYR:O	1:E:289:GLY:O	2.32	0.47
1:E:295:LEU:HB3	1:E:388:PRO:CG	2.44	0.47
1:F:33:ILE:HD13	1:F:34:PRO:CD	2.42	0.47
1:F:42:PHE:CZ	1:F:66:VAL:CG2	2.96	0.47
1:F:60:ILE:CG2	1:F:100:TYR:CD2	2.96	0.47
1:G:93:GLU:HG3	1:G:94:PRO:HD3	1.93	0.47
1:G:119:GLY:O	1:G:120:ILE:C	2.52	0.47
1:G:403:GLU:CB	1:G:406:GLU:HB2	2.43	0.47
1:H:264:ASN:O	1:H:265:GLY:O	2.32	0.47
1:H:274:LEU:O	1:H:281:LEU:CD1	2.62	0.47
1:H:317:ASN:C	1:H:317:ASN:HD22	2.17	0.47
1:H:331:MET:CE	1:H:396:LEU:CD1	2.81	0.47
1:I:39:ASN:HD22	1:I:42:PHE:HB3	1.79	0.47
1:I:39:ASN:HD22	1:I:39:ASN:N	2.12	0.47
1:I:60:ILE:CG2	1:I:100:TYR:CD2	2.96	0.47
1:I:106:SER:O	1:I:109:LYS:HG3	2.13	0.47
1:I:287:TYR:O	1:I:289:GLY:O	2.31	0.47
1:I:295:LEU:HB3	1:I:388:PRO:CG	2.44	0.47
1:I:311:LEU:HD23	1:I:442:TYR:CE1	2.48	0.47
1:I:316:THR:HG22	1:I:317:ASN:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:403:GLU:CB	1:I:406:GLU:HB2	2.43	0.47
1:I:403:GLU:CB	1:I:406:GLU:CB	2.87	0.47
1:J:401:PRO:O	1:J:402:GLU:C	2.52	0.47
1:J:403:GLU:CB	1:J:406:GLU:HB2	2.43	0.47
1:J:437:GLU:OE2	1:J:437:GLU:CA	2.62	0.47
1:K:168:ASN:HB3	1:L:138:ILE:O	2.14	0.47
1:K:318:SER:OG	1:K:362:ASP:OD2	2.32	0.47
1:K:331:MET:HE3	1:K:396:LEU:HB2	1.96	0.47
1:K:331:MET:HB2	1:K:340:SER:O	2.13	0.47
1:K:351:PRO:HG2	1:K:352:LYS:H	1.79	0.47
1:K:423:LEU:N	1:K:423:LEU:CD1	2.76	0.47
1:L:24:THR:CG2	1:L:25:LYS:N	2.71	0.47
1:L:118:THR:OG1	1:L:120:ILE:CG1	2.58	0.47
1:L:435:THR:HG21	1:L:437:GLU:CG	2.44	0.47
1:A:403:GLU:CB	1:A:406:GLU:HB2	2.43	0.47
1:B:93:GLU:OE1	1:B:93:GLU:CA	2.58	0.47
1:C:3:GLU:OE1	1:C:3:GLU:CA	2.57	0.47
1:C:67:LEU:H	1:C:87:ILE:HA	1.80	0.47
1:C:185:VAL:O	1:C:185:VAL:CG1	2.59	0.47
1:C:331:MET:HE3	1:C:396:LEU:HB2	1.96	0.47
1:C:351:PRO:HG2	1:C:352:LYS:H	1.79	0.47
1:D:77:ASP:O	1:D:78:PRO:C	2.52	0.47
1:D:199:MET:CB	1:D:204:LEU:HD12	2.44	0.47
1:D:401:PRO:O	1:D:402:GLU:C	2.52	0.47
1:E:58:LYS:HD3	1:E:59:GLY:CA	2.43	0.47
1:E:274:LEU:O	1:E:281:LEU:CD1	2.62	0.47
1:F:9:LEU:HD21	1:F:38:VAL:HG11	1.97	0.47
1:F:119:GLY:O	1:F:120:ILE:C	2.52	0.47
1:F:274:LEU:O	1:F:281:LEU:CD1	2.62	0.47
1:F:287:TYR:O	1:F:289:GLY:O	2.32	0.47
1:F:309:ASN:CB	1:F:313:ASN:HD22	2.26	0.47
1:F:317:ASN:C	1:F:317:ASN:HD22	2.16	0.47
1:G:77:ASP:O	1:G:78:PRO:C	2.52	0.47
1:G:124:VAL:C	1:G:125:LEU:HD23	2.35	0.47
1:G:306:LYS:HD3	1:G:411:ALA:HA	1.95	0.47
1:G:331:MET:HB2	1:G:340:SER:O	2.13	0.47
1:H:60:ILE:CG2	1:H:100:TYR:CD2	2.96	0.47
1:H:67:LEU:C	1:H:69:PRO:N	2.62	0.47
1:H:91:ILE:CA	1:H:97:LEU:O	2.61	0.47
1:H:118:THR:OG1	1:H:120:ILE:CG1	2.58	0.47
1:H:309:ASN:CB	1:H:313:ASN:HD22	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:435:THR:HG21	1:H:437:GLU:CG	2.44	0.47
1:I:199:MET:CB	1:I:204:LEU:HD12	2.44	0.47
1:J:39:ASN:HD22	1:J:42:PHE:HB3	1.79	0.47
1:J:42:PHE:CZ	1:J:66:VAL:CG2	2.96	0.47
1:J:58:LYS:HD3	1:J:59:GLY:CA	2.43	0.47
1:J:68:MET:C	1:J:70:ASP:N	2.67	0.47
1:J:77:ASP:O	1:J:78:PRO:C	2.52	0.47
1:K:3:GLU:O	1:K:6:LEU:HB3	2.14	0.47
1:K:79:PHE:CD1	1:K:80:PHE:CA	2.97	0.47
1:K:157:ALA:O	1:K:158:TRP:C	2.51	0.47
1:K:290:LEU:HD11	1:K:345:ILE:HG21	1.96	0.47
1:K:419:ASN:O	1:K:420:ALA:C	2.52	0.47
1:K:435:THR:HG21	1:K:437:GLU:CG	2.44	0.47
1:L:9:LEU:HD12	1:L:14:VAL:CG2	2.38	0.47
1:A:60:ILE:CG2	1:A:100:TYR:CD2	2.96	0.47
1:A:199:MET:CB	1:A:204:LEU:HD12	2.44	0.47
1:A:306:LYS:HD3	1:A:411:ALA:HA	1.95	0.47
1:A:312:ALA:O	1:A:313:ASN:OD1	2.32	0.47
1:A:331:MET:HB2	1:A:340:SER:O	2.13	0.47
1:A:437:GLU:OE2	1:A:437:GLU:HA	2.15	0.47
1:B:419:ASN:O	1:B:420:ALA:C	2.52	0.47
1:B:435:THR:HG21	1:B:437:GLU:CG	2.44	0.47
1:C:3:GLU:O	1:C:6:LEU:HB3	2.14	0.47
1:C:71:ALA:HB3	1:C:86:ILE:HD11	1.96	0.47
1:C:157:ALA:O	1:C:158:TRP:C	2.51	0.47
1:C:290:LEU:HD11	1:C:345:ILE:HG21	1.96	0.47
1:C:318:SER:OG	1:C:362:ASP:OD2	2.32	0.47
1:C:411:ALA:O	1:C:412:GLY:C	2.53	0.47
1:C:435:THR:HG21	1:C:437:GLU:CG	2.44	0.47
1:D:79:PHE:CD1	1:D:80:PHE:CA	2.97	0.47
1:D:119:GLY:O	1:D:120:ILE:C	2.52	0.47
1:D:403:GLU:CB	1:D:406:GLU:HB2	2.43	0.47
1:D:435:THR:HG21	1:D:437:GLU:CG	2.44	0.47
1:E:189:GLN:C	1:E:191:ILE:N	2.67	0.47
1:E:199:MET:CB	1:E:204:LEU:HD12	2.44	0.47
1:F:39:ASN:HD22	1:F:42:PHE:HB3	1.79	0.47
1:F:118:THR:OG1	1:F:120:ILE:CG1	2.58	0.47
1:F:318:SER:OG	1:F:362:ASP:OD2	2.32	0.47
1:F:360:PHE:N	1:F:361:PRO:HD3	2.22	0.47
1:F:403:GLU:CB	1:F:406:GLU:HB2	2.43	0.47
1:G:71:ALA:HB3	1:G:86:ILE:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:199:MET:CB	1:G:204:LEU:HD12	2.44	0.47
1:G:308:ILE:O	1:G:311:LEU:N	2.42	0.47
1:G:313:ASN:N	1:G:314:PRO:HD3	2.29	0.47
1:G:336:ALA:HA	1:G:345:ILE:O	2.14	0.47
1:G:337:ARG:CG	1:G:338:ASN:N	2.70	0.47
1:H:119:GLY:O	1:H:120:ILE:C	2.52	0.47
1:H:287:TYR:O	1:H:289:GLY:O	2.31	0.47
1:H:316:THR:HG22	1:H:317:ASN:N	2.29	0.47
1:H:403:GLU:CB	1:H:406:GLU:HB2	2.43	0.47
1:I:58:LYS:HD3	1:I:59:GLY:CA	2.43	0.47
1:I:271:HIS:CD2	1:I:357:GLU:CG	2.98	0.47
1:J:79:PHE:CD1	1:J:80:PHE:CA	2.96	0.47
1:J:295:LEU:HB3	1:J:388:PRO:CG	2.44	0.47
1:J:331:MET:HB2	1:J:340:SER:O	2.13	0.47
1:J:435:THR:HG21	1:J:437:GLU:CG	2.44	0.47
1:K:67:LEU:H	1:K:87:ILE:HA	1.80	0.47
1:K:68:MET:C	1:K:70:ASP:N	2.67	0.47
1:K:71:ALA:HB3	1:K:86:ILE:HD11	1.96	0.47
1:K:411:ALA:O	1:K:412:GLY:C	2.52	0.47
1:L:93:GLU:OE1	1:L:93:GLU:CA	2.58	0.47
1:L:295:LEU:HD12	1:L:295:LEU:N	2.27	0.47
1:L:312:ALA:O	1:L:313:ASN:OD1	2.32	0.47
1:L:419:ASN:O	1:L:420:ALA:C	2.52	0.47
1:A:39:ASN:HD22	1:A:42:PHE:HB3	1.79	0.47
1:A:57:TRP:CD1	1:A:58:LYS:CA	2.97	0.47
1:A:138:ILE:O	1:B:168:ASN:HB3	2.14	0.47
1:A:308:ILE:O	1:A:311:LEU:N	2.42	0.47
1:B:17:VAL:CG1	1:B:33:ILE:HG22	2.42	0.47
1:B:58:LYS:HD3	1:B:59:GLY:CA	2.43	0.47
1:B:60:ILE:CG2	1:B:100:TYR:CD2	2.96	0.47
1:B:68:MET:C	1:B:70:ASP:N	2.67	0.47
1:B:118:THR:OG1	1:B:120:ILE:CG1	2.58	0.47
1:B:437:GLU:OE2	1:B:437:GLU:HA	2.14	0.47
1:C:39:ASN:HD22	1:C:42:PHE:HB3	1.79	0.47
1:C:58:LYS:HD3	1:C:59:GLY:CA	2.43	0.47
1:C:419:ASN:O	1:C:420:ALA:C	2.52	0.47
1:C:421:LEU:CD2	1:C:439:ILE:HG23	2.45	0.47
1:D:10:ASN:O	1:D:11:GLU:C	2.51	0.47
1:D:39:ASN:HD22	1:D:42:PHE:HB3	1.79	0.47
1:D:67:LEU:H	1:D:87:ILE:HA	1.80	0.47
1:D:118:THR:OG1	1:D:120:ILE:CG1	2.58	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:71:ALA:O	1:E:86:ILE:CG1	2.62	0.47
1:E:119:GLY:O	1:E:120:ILE:C	2.52	0.47
1:E:311:LEU:HD23	1:E:442:TYR:CE1	2.48	0.47
1:E:317:ASN:HD22	1:E:317:ASN:C	2.17	0.47
1:F:316:THR:HG22	1:F:317:ASN:N	2.29	0.47
1:F:460:VAL:O	1:F:461:GLU:C	2.52	0.47
1:F:465:TYR:OH	1:L:449:GLU:CD	2.52	0.47
1:G:34:PRO:HG2	1:G:37:GLN:HG3	1.95	0.47
1:G:57:TRP:CD1	1:G:58:LYS:CA	2.97	0.47
1:G:138:ILE:O	1:L:168:ASN:HB3	2.14	0.47
1:G:399:LEU:HD23	1:G:402:GLU:CB	2.39	0.47
1:G:401:PRO:C	1:G:405:LYS:HG2	2.34	0.47
1:H:9:LEU:HD21	1:H:38:VAL:HG11	1.97	0.47
1:H:419:ASN:O	1:H:420:ALA:C	2.52	0.47
1:H:460:VAL:O	1:H:461:GLU:C	2.51	0.47
1:I:189:GLN:C	1:I:191:ILE:N	2.67	0.47
1:I:274:LEU:O	1:I:281:LEU:CD1	2.62	0.47
1:I:337:ARG:HG3	1:I:338:ASN:H	1.77	0.47
1:I:360:PHE:N	1:I:361:PRO:HD3	2.22	0.47
1:J:118:THR:OG1	1:J:120:ILE:CG1	2.58	0.47
1:J:119:GLY:O	1:J:120:ILE:C	2.52	0.47
1:J:199:MET:CB	1:J:204:LEU:HD12	2.44	0.47
1:J:390:GLU:HB3	1:J:391:PRO:CD	2.44	0.47
1:K:9:LEU:HD21	1:K:38:VAL:HG11	1.97	0.47
1:K:295:LEU:HB3	1:K:388:PRO:CG	2.44	0.47
1:K:308:ILE:HG12	1:K:308:ILE:H	1.37	0.47
1:K:337:ARG:CG	1:K:338:ASN:H	2.28	0.47
1:L:58:LYS:HD3	1:L:59:GLY:CA	2.43	0.47
1:L:119:GLY:O	1:L:120:ILE:C	2.53	0.47
1:L:212:GLU:HB3	1:L:213:VAL:H	1.60	0.47
1:L:383:LYS:CE	1:L:384:ASN:N	2.74	0.47
1:L:403:GLU:CB	1:L:406:GLU:CB	2.87	0.47
1:A:71:ALA:HB3	1:A:86:ILE:HD11	1.96	0.47
1:A:77:ASP:O	1:A:78:PRO:C	2.52	0.47
1:A:124:VAL:C	1:A:125:LEU:HD23	2.35	0.47
1:A:313:ASN:N	1:A:314:PRO:HD3	2.29	0.47
1:A:339:ARG:NH2	1:F:58:LYS:H	2.11	0.47
1:B:9:LEU:HD12	1:B:14:VAL:CG2	2.38	0.47
1:B:71:ALA:O	1:B:86:ILE:CG1	2.62	0.47
1:B:88:ARG:HA	1:B:105:ARG:HD2	1.95	0.47
1:B:119:GLY:O	1:B:120:ILE:C	2.53	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:295:LEU:HD12	1:B:295:LEU:N	2.27	0.47
1:B:390:GLU:HB3	1:B:391:PRO:CD	2.44	0.47
1:C:68:MET:C	1:C:70:ASP:N	2.67	0.47
1:C:312:ALA:O	1:C:313:ASN:OD1	2.32	0.47
1:C:313:ASN:N	1:C:314:PRO:HD3	2.29	0.47
1:C:337:ARG:CG	1:C:338:ASN:H	2.28	0.47
1:D:9:LEU:HD21	1:D:38:VAL:HG11	1.97	0.47
1:D:33:ILE:CD1	1:E:208:ALA:HB2	2.44	0.47
1:D:39:ASN:HD22	1:D:39:ASN:N	2.12	0.47
1:D:331:MET:CE	1:D:396:LEU:CD1	2.81	0.47
1:D:331:MET:HB2	1:D:340:SER:O	2.14	0.47
1:E:39:ASN:O	1:E:40:ALA:O	2.33	0.47
1:E:271:HIS:CD2	1:E:357:GLU:CG	2.98	0.47
1:E:460:VAL:O	1:E:461:GLU:C	2.51	0.47
1:F:295:LEU:HB3	1:F:388:PRO:CG	2.44	0.47
1:F:419:ASN:O	1:F:420:ALA:C	2.52	0.47
1:G:39:ASN:HD22	1:G:39:ASN:N	2.12	0.47
1:G:312:ALA:O	1:G:313:ASN:OD1	2.32	0.47
1:G:351:PRO:HG2	1:G:352:LYS:H	1.79	0.47
1:G:419:ASN:O	1:G:420:ALA:C	2.52	0.47
1:G:437:GLU:HA	1:G:437:GLU:OE2	2.15	0.47
1:H:124:VAL:C	1:H:125:LEU:HD23	2.35	0.47
1:H:318:SER:OG	1:H:362:ASP:OD2	2.32	0.47
1:I:71:ALA:O	1:I:86:ILE:CG1	2.63	0.47
1:I:174:GLY:O	1:I:175:VAL:C	2.53	0.47
1:I:175:VAL:CA	1:I:215:THR:HG23	2.43	0.47
1:I:208:ALA:HB2	1:J:33:ILE:CD1	2.44	0.47
1:I:460:VAL:O	1:I:461:GLU:C	2.52	0.47
1:J:9:LEU:HD21	1:J:38:VAL:HG11	1.97	0.47
1:J:10:ASN:O	1:J:11:GLU:C	2.51	0.47
1:J:289:GLY:CA	1:J:354:ARG:HE	2.20	0.47
1:J:316:THR:HG22	1:J:317:ASN:N	2.29	0.47
1:K:185:VAL:O	1:K:185:VAL:CG1	2.59	0.47
1:K:312:ALA:O	1:K:313:ASN:OD1	2.32	0.47
1:K:313:ASN:N	1:K:314:PRO:HD3	2.29	0.47
1:K:399:LEU:HD23	1:K:402:GLU:CB	2.40	0.47
1:L:17:VAL:CG1	1:L:33:ILE:HG22	2.42	0.47
1:L:68:MET:C	1:L:70:ASP:N	2.67	0.47
1:L:71:ALA:O	1:L:86:ILE:CG1	2.62	0.47
1:L:88:ARG:HA	1:L:105:ARG:HD2	1.95	0.47
1:L:89:CYS:HB3	1:L:90:ASP:H	1.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:124:VAL:C	1:L:125:LEU:HD23	2.35	0.47
1:L:313:ASN:N	1:L:314:PRO:HD3	2.29	0.47
1:L:376:MET:CE	1:L:433:VAL:HG13	2.41	0.47
1:L:437:GLU:HA	1:L:437:GLU:OE2	2.15	0.47
1:A:2:ALA:C	1:A:6:LEU:HD23	2.35	0.47
1:A:39:ASN:HD22	1:A:39:ASN:N	2.12	0.47
1:A:337:ARG:CG	1:A:338:ASN:N	2.70	0.47
1:A:419:ASN:O	1:A:420:ALA:C	2.52	0.47
1:B:264:ASN:O	1:B:265:GLY:O	2.32	0.47
1:B:306:LYS:HD3	1:B:411:ALA:HA	1.95	0.47
1:B:313:ASN:N	1:B:314:PRO:HD3	2.29	0.47
1:B:437:GLU:OE2	1:B:437:GLU:CA	2.62	0.47
1:C:9:LEU:HD21	1:C:38:VAL:HG11	1.97	0.47
1:C:331:MET:HB2	1:C:340:SER:O	2.13	0.47
1:C:390:GLU:HB3	1:C:391:PRO:CD	2.44	0.47
1:C:433:VAL:O	1:C:434:PHE:CB	2.58	0.47
1:D:110:ARG:O	1:D:111:ALA:C	2.53	0.47
1:E:24:THR:CG2	1:E:25:LYS:N	2.72	0.47
1:E:59:GLY:O	1:E:60:ILE:HD13	2.14	0.47
1:E:174:GLY:O	1:E:175:VAL:C	2.53	0.47
1:E:337:ARG:HG3	1:E:338:ASN:H	1.77	0.47
1:E:411:ALA:O	1:E:412:GLY:C	2.53	0.47
1:F:57:TRP:CD1	1:F:58:LYS:CA	2.97	0.47
1:F:67:LEU:C	1:F:69:PRO:N	2.63	0.47
1:F:110:ARG:O	1:F:111:ALA:C	2.53	0.47
1:F:124:VAL:C	1:F:125:LEU:HD23	2.35	0.47
1:F:350:SER:C	1:F:352:LYS:H	2.13	0.47
1:F:435:THR:HG21	1:F:437:GLU:CG	2.44	0.47
1:G:9:LEU:HD21	1:G:38:VAL:HG11	1.97	0.47
1:G:68:MET:C	1:G:70:ASP:N	2.67	0.47
1:H:16:PHE:HD1	1:H:79:PHE:CE1	2.27	0.47
1:H:39:ASN:HD22	1:H:42:PHE:HB3	1.79	0.47
1:H:57:TRP:CD1	1:H:58:LYS:CA	2.97	0.47
1:H:289:GLY:CA	1:H:354:ARG:HE	2.20	0.47
1:H:350:SER:C	1:H:352:LYS:H	2.14	0.47
1:I:119:GLY:O	1:I:120:ILE:C	2.52	0.47
1:I:317:ASN:HD22	1:I:317:ASN:C	2.16	0.47
1:I:336:ALA:HA	1:I:345:ILE:O	2.14	0.47
1:J:39:ASN:HD22	1:J:39:ASN:N	2.12	0.47
1:J:67:LEU:H	1:J:87:ILE:HA	1.80	0.47
1:J:208:ALA:HB2	1:K:33:ILE:CD1	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:421:LEU:CD2	1:J:439:ILE:HG23	2.45	0.47
1:K:20:ARG:HG3	1:K:28:GLU:OE2	2.12	0.47
1:K:421:LEU:CD2	1:K:439:ILE:HG23	2.45	0.47
1:L:3:GLU:O	1:L:6:LEU:HB3	2.14	0.47
1:L:57:TRP:CD1	1:L:58:LYS:CA	2.97	0.47
1:L:264:ASN:O	1:L:265:GLY:O	2.32	0.47
1:A:9:LEU:HD21	1:A:38:VAL:HG11	1.97	0.47
1:A:26:GLY:O	1:A:27:LYS:CG	2.57	0.47
1:A:43:PHE:CE2	1:A:69:PRO:HB3	2.44	0.47
1:A:68:MET:C	1:A:70:ASP:N	2.67	0.47
1:A:105:ARG:HD3	1:A:109:LYS:HE2	1.97	0.47
1:A:295:LEU:HB3	1:A:388:PRO:CG	2.44	0.47
1:A:316:THR:HG22	1:A:317:ASN:N	2.29	0.47
1:A:411:ALA:O	1:A:412:GLY:C	2.52	0.47
1:A:437:GLU:OE2	1:A:437:GLU:CA	2.62	0.47
1:B:3:GLU:O	1:B:6:LEU:HB3	2.14	0.47
1:B:57:TRP:CD1	1:B:58:LYS:CA	2.97	0.47
1:B:67:LEU:H	1:B:87:ILE:HA	1.80	0.47
1:B:73:THR:O	1:B:84:THR:N	2.45	0.47
1:B:110:ARG:O	1:B:111:ALA:C	2.53	0.47
1:B:124:VAL:C	1:B:125:LEU:HD23	2.35	0.47
1:B:336:ALA:HA	1:B:345:ILE:O	2.14	0.47
1:C:20:ARG:HG3	1:C:28:GLU:OE2	2.13	0.47
1:C:30:HIS:O	1:D:180:PHE:CB	2.42	0.47
1:C:33:ILE:CD1	1:D:208:ALA:HB2	2.44	0.47
1:C:71:ALA:O	1:C:86:ILE:CG1	2.62	0.47
1:C:118:THR:OG1	1:C:120:ILE:CG1	2.58	0.47
1:C:465:TYR:OH	1:I:449:GLU:CD	2.52	0.47
1:D:39:ASN:O	1:D:40:ALA:O	2.33	0.47
1:D:105:ARG:HD3	1:D:109:LYS:HE2	1.97	0.47
1:D:200:GLU:O	1:D:201:GLN:C	2.53	0.47
1:D:298:ILE:O	1:D:302:ILE:CG1	2.63	0.47
1:D:316:THR:O	1:D:317:ASN:C	2.53	0.47
1:E:89:CYS:HB3	1:E:103:ASP:OD2	2.07	0.47
1:E:93:GLU:OE1	1:E:93:GLU:CA	2.58	0.47
1:E:175:VAL:CA	1:E:215:THR:HG23	2.43	0.47
1:E:212:GLU:HB3	1:E:213:VAL:H	1.61	0.47
1:E:435:THR:HG21	1:E:437:GLU:CG	2.44	0.47
1:E:449:GLU:CD	1:K:465:TYR:OH	2.52	0.47
1:F:39:ASN:O	1:F:40:ALA:O	2.33	0.47
1:F:71:ALA:HB3	1:F:86:ILE:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:199:MET:CB	1:F:204:LEU:HD12	2.44	0.47
1:F:274:LEU:HD11	1:F:282:PHE:CE1	2.44	0.47
1:F:289:GLY:CA	1:F:354:ARG:HE	2.20	0.47
1:F:297:TYR:C	1:F:299:GLY:N	2.66	0.47
1:F:313:ASN:N	1:F:314:PRO:HD3	2.29	0.47
1:F:331:MET:CE	1:F:396:LEU:CD1	2.81	0.47
1:F:421:LEU:CD2	1:F:439:ILE:HG23	2.45	0.47
1:F:423:LEU:N	1:F:423:LEU:CD1	2.76	0.47
1:F:437:GLU:OE2	1:F:437:GLU:HA	2.15	0.47
1:G:2:ALA:C	1:G:6:LEU:HD23	2.35	0.47
1:G:39:ASN:HD22	1:G:42:PHE:HB3	1.79	0.47
1:G:65:MET:O	1:G:67:LEU:CA	2.63	0.47
1:G:154:ILE:H	1:G:154:ILE:HG13	1.39	0.47
1:G:295:LEU:HB3	1:G:388:PRO:CG	2.44	0.47
1:G:339:ARG:NH2	1:H:58:LYS:H	2.11	0.47
1:G:437:GLU:OE2	1:G:437:GLU:CA	2.62	0.47
1:H:39:ASN:O	1:H:40:ALA:O	2.33	0.47
1:H:105:ARG:HD3	1:H:109:LYS:HE2	1.97	0.47
1:H:271:HIS:CD2	1:H:357:GLU:CG	2.98	0.47
1:H:312:ALA:O	1:H:313:ASN:OD1	2.32	0.47
1:H:339:ARG:CA	1:I:58:LYS:HG3	2.45	0.47
1:H:360:PHE:N	1:H:361:PRO:HD3	2.22	0.47
1:H:403:GLU:CA	1:H:405:LYS:CG	2.86	0.47
1:H:421:LEU:CD2	1:H:439:ILE:HG23	2.45	0.47
1:H:423:LEU:N	1:H:423:LEU:CD1	2.76	0.47
1:H:437:GLU:HA	1:H:437:GLU:OE2	2.14	0.47
1:I:9:LEU:HD12	1:I:9:LEU:HA	1.72	0.47
1:I:9:LEU:HD21	1:I:38:VAL:HG11	1.97	0.47
1:I:24:THR:CG2	1:I:25:LYS:N	2.71	0.47
1:I:39:ASN:O	1:I:40:ALA:O	2.33	0.47
1:I:59:GLY:O	1:I:60:ILE:HD13	2.14	0.47
1:I:75:VAL:CG1	1:I:78:PRO:CD	2.71	0.47
1:I:105:ARG:HD3	1:I:109:LYS:HE2	1.97	0.47
1:I:226:ASN:HB3	1:I:227:THR:H	1.53	0.47
1:I:268:MET:H	1:I:362:ASP:HA	1.78	0.47
1:I:411:ALA:O	1:I:412:GLY:C	2.53	0.47
1:I:435:THR:HG21	1:I:437:GLU:CG	2.44	0.47
1:J:39:ASN:O	1:J:40:ALA:O	2.33	0.47
1:J:71:ALA:HB3	1:J:86:ILE:HD11	1.96	0.47
1:J:110:ARG:O	1:J:111:ALA:C	2.53	0.47
1:J:200:GLU:O	1:J:201:GLN:C	2.53	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:271:HIS:CD2	1:J:357:GLU:CG	2.98	0.47
1:J:298:ILE:O	1:J:302:ILE:CG1	2.63	0.47
1:J:304:HIS:O	1:J:308:ILE:CG1	2.53	0.47
1:J:316:THR:O	1:J:317:ASN:C	2.53	0.47
1:K:39:ASN:HD22	1:K:42:PHE:HB3	1.80	0.47
1:K:58:LYS:HD3	1:K:59:GLY:CA	2.43	0.47
1:K:71:ALA:O	1:K:86:ILE:CG1	2.63	0.47
1:K:208:ALA:HB2	1:L:33:ILE:CD1	2.44	0.47
1:K:336:ALA:HA	1:K:345:ILE:O	2.15	0.47
1:K:433:VAL:O	1:K:434:PHE:CB	2.58	0.47
1:L:33:ILE:HD13	1:L:34:PRO:CD	2.42	0.47
1:L:59:GLY:O	1:L:60:ILE:HD13	2.14	0.47
1:L:67:LEU:H	1:L:87:ILE:HA	1.80	0.47
1:L:110:ARG:O	1:L:111:ALA:C	2.53	0.47
1:L:306:LYS:HD3	1:L:411:ALA:HA	1.95	0.47
1:L:336:ALA:HA	1:L:345:ILE:O	2.14	0.47
1:L:400:PRO:HB2	1:L:401:PRO:CD	2.43	0.47
1:L:401:PRO:O	1:L:402:GLU:C	2.52	0.47
1:L:437:GLU:OE2	1:L:437:GLU:CA	2.62	0.47
1:A:20:ARG:HG3	1:A:28:GLU:OE2	2.12	0.47
1:A:65:MET:O	1:A:67:LEU:CA	2.63	0.47
1:A:199:MET:HB3	1:A:204:LEU:CD1	2.45	0.47
1:A:212:GLU:HB3	1:A:213:VAL:H	1.61	0.47
1:A:264:ASN:O	1:A:265:GLY:O	2.32	0.47
1:B:33:ILE:HD13	1:B:34:PRO:CD	2.42	0.47
1:B:199:MET:HB3	1:B:204:LEU:CD1	2.45	0.47
1:B:331:MET:HE3	1:B:396:LEU:CD1	2.43	0.47
1:B:400:PRO:HB2	1:B:401:PRO:CD	2.43	0.47
1:C:200:GLU:O	1:C:201:GLN:C	2.53	0.47
1:C:309:ASN:CB	1:C:313:ASN:HD22	2.26	0.47
1:D:57:TRP:CD1	1:D:58:LYS:CA	2.97	0.47
1:D:71:ALA:HB3	1:D:86:ILE:HD11	1.96	0.47
1:D:289:GLY:CA	1:D:354:ARG:HE	2.20	0.47
1:D:316:THR:HG22	1:D:317:ASN:N	2.30	0.47
1:D:336:ALA:HA	1:D:345:ILE:O	2.14	0.47
1:D:400:PRO:HB2	1:D:401:PRO:CD	2.43	0.47
1:D:421:LEU:CD2	1:D:439:ILE:HG23	2.45	0.47
1:E:58:LYS:HG3	1:F:339:ARG:CA	2.45	0.47
1:E:67:LEU:H	1:E:87:ILE:HA	1.80	0.47
1:E:75:VAL:CG1	1:E:78:PRO:CD	2.71	0.47
1:E:105:ARG:HD3	1:E:109:LYS:HE2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:185:VAL:O	1:E:185:VAL:CG1	2.59	0.47
1:E:298:ILE:O	1:E:302:ILE:CG1	2.63	0.47
1:E:316:THR:O	1:E:317:ASN:C	2.53	0.47
1:E:336:ALA:HA	1:E:345:ILE:O	2.14	0.47
1:F:77:ASP:O	1:F:78:PRO:C	2.53	0.47
1:F:271:HIS:CD2	1:F:357:GLU:CG	2.98	0.47
1:F:290:LEU:HD11	1:F:345:ILE:HG21	1.96	0.47
1:F:312:ALA:O	1:F:313:ASN:OD1	2.32	0.47
1:F:403:GLU:CA	1:F:405:LYS:CG	2.86	0.47
1:G:3:GLU:O	1:G:6:LEU:HB3	2.14	0.47
1:G:20:ARG:HG3	1:G:28:GLU:OE2	2.12	0.47
1:G:26:GLY:O	1:G:27:LYS:CG	2.56	0.47
1:G:105:ARG:HD3	1:G:109:LYS:HE2	1.97	0.47
1:G:168:ASN:HB3	1:H:138:ILE:O	2.14	0.47
1:G:199:MET:HB3	1:G:204:LEU:CD1	2.45	0.47
1:G:202:MET:HE2	1:G:202:MET:HA	1.97	0.47
1:G:212:GLU:HB3	1:G:213:VAL:H	1.61	0.47
1:G:281:LEU:CD2	1:G:293:GLN:HE21	2.28	0.47
1:G:411:ALA:O	1:G:412:GLY:C	2.52	0.47
1:H:5:VAL:HG11	1:H:43:PHE:HZ	1.76	0.47
1:H:77:ASP:O	1:H:78:PRO:C	2.52	0.47
1:H:110:ARG:O	1:H:111:ALA:C	2.53	0.47
1:H:199:MET:CB	1:H:204:LEU:HD12	2.44	0.47
1:H:295:LEU:HB3	1:H:388:PRO:CG	2.45	0.47
1:H:313:ASN:N	1:H:314:PRO:HD3	2.29	0.47
1:K:200:GLU:O	1:K:201:GLN:C	2.53	0.47
1:L:390:GLU:HB3	1:L:391:PRO:CD	2.45	0.47
1:A:435:THR:HG21	1:A:437:GLU:CG	2.44	0.47
1:B:13:GLU:C	1:B:14:VAL:CG1	2.84	0.47
1:B:33:ILE:CD1	1:C:208:ALA:HB2	2.44	0.47
1:B:59:GLY:O	1:B:60:ILE:HD13	2.14	0.47
1:B:461:GLU:HG2	1:H:316:THR:HB	1.97	0.47
1:C:9:LEU:HD12	1:C:9:LEU:HA	1.72	0.47
1:C:27:LYS:HZ3	1:C:239:LYS:HZ1	0.51	0.47
1:C:77:ASP:O	1:C:78:PRO:C	2.53	0.47
1:C:376:MET:HE3	1:C:433:VAL:HG22	1.93	0.47
1:C:449:GLU:CD	1:I:465:TYR:OH	2.52	0.47
1:D:13:GLU:C	1:D:14:VAL:CG1	2.84	0.47
1:D:58:LYS:N	1:E:339:ARG:NH2	2.63	0.47
1:D:271:HIS:CD2	1:D:357:GLU:CG	2.98	0.47
1:D:399:LEU:C	1:D:401:PRO:CD	2.81	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2:ALA:C	1:E:6:LEU:HD23	2.35	0.47
1:E:9:LEU:HD12	1:E:9:LEU:HA	1.72	0.47
1:E:57:TRP:CD1	1:E:58:LYS:CA	2.97	0.47
1:E:77:ASP:O	1:E:78:PRO:C	2.52	0.47
1:E:401:PRO:O	1:E:402:GLU:C	2.52	0.47
1:F:5:VAL:HG11	1:F:43:PHE:HZ	1.76	0.47
1:F:105:ARG:HD3	1:F:109:LYS:HE2	1.97	0.47
1:F:411:ALA:O	1:F:412:GLY:C	2.52	0.47
1:G:17:VAL:CG1	1:G:33:ILE:HB	2.45	0.47
1:G:264:ASN:O	1:G:265:GLY:O	2.32	0.47
1:G:271:HIS:CD2	1:G:357:GLU:CG	2.98	0.47
1:G:316:THR:HG22	1:G:317:ASN:N	2.29	0.47
1:G:435:THR:HG21	1:G:437:GLU:CG	2.44	0.47
1:H:71:ALA:HB3	1:H:86:ILE:HD11	1.96	0.47
1:H:168:ASN:HB3	1:I:138:ILE:O	2.14	0.47
1:H:290:LEU:HD11	1:H:345:ILE:HG21	1.96	0.47
1:H:297:TYR:C	1:H:299:GLY:N	2.66	0.47
1:I:2:ALA:C	1:I:6:LEU:HD23	2.35	0.47
1:I:57:TRP:CD1	1:I:58:LYS:CA	2.97	0.47
1:I:110:ARG:O	1:I:111:ALA:C	2.53	0.47
1:I:298:ILE:O	1:I:302:ILE:CG1	2.63	0.47
1:I:437:GLU:OE2	1:I:437:GLU:CA	2.62	0.47
1:J:13:GLU:C	1:J:14:VAL:CG1	2.84	0.47
1:J:16:PHE:HD1	1:J:79:PHE:CE1	2.27	0.47
1:J:57:TRP:CD1	1:J:58:LYS:CA	2.97	0.47
1:J:105:ARG:HD3	1:J:109:LYS:HE2	1.97	0.47
1:J:180:PHE:CB	1:K:30:HIS:O	2.42	0.47
1:J:336:ALA:HA	1:J:345:ILE:O	2.15	0.47
1:J:399:LEU:C	1:J:401:PRO:CD	2.81	0.47
1:K:118:THR:OG1	1:K:120:ILE:CG1	2.58	0.47
1:K:199:MET:HB3	1:K:204:LEU:CD1	2.45	0.47
1:K:268:MET:H	1:K:362:ASP:HA	1.79	0.47
1:K:274:LEU:O	1:K:281:LEU:CD1	2.62	0.47
1:K:309:ASN:CB	1:K:313:ASN:HD22	2.26	0.47
1:K:390:GLU:HB3	1:K:391:PRO:CD	2.45	0.47
1:L:13:GLU:C	1:L:14:VAL:CG1	2.84	0.47
1:L:73:THR:O	1:L:84:THR:N	2.45	0.47
1:L:199:MET:HB3	1:L:204:LEU:CD1	2.45	0.47
1:A:54:ILE:HG12	1:A:54:ILE:O	2.16	0.47
1:A:128:PRO:HD3	1:A:231:LYS:HG2	1.97	0.47
1:A:202:MET:HE2	1:A:202:MET:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:89:CYS:HB3	1:B:90:ASP:H	1.44	0.47
1:B:337:ARG:CG	1:B:338:ASN:H	2.27	0.47
1:C:268:MET:H	1:C:362:ASP:HA	1.79	0.47
1:C:274:LEU:O	1:C:281:LEU:CD1	2.62	0.47
1:C:336:ALA:HA	1:C:345:ILE:O	2.15	0.47
1:D:58:LYS:HG3	1:E:339:ARG:CA	2.45	0.47
1:D:304:HIS:O	1:D:308:ILE:CG1	2.53	0.47
1:D:411:ALA:O	1:D:412:GLY:C	2.52	0.47
1:E:268:MET:H	1:E:362:ASP:HA	1.79	0.47
1:E:281:LEU:CD2	1:E:293:GLN:HE21	2.28	0.47
1:E:421:LEU:CD2	1:E:439:ILE:HG23	2.45	0.47
1:E:437:GLU:OE2	1:E:437:GLU:CA	2.62	0.47
1:E:465:TYR:OH	1:K:449:GLU:CD	2.52	0.47
1:F:174:GLY:O	1:F:175:VAL:C	2.53	0.47
1:F:199:MET:HB3	1:F:204:LEU:CD1	2.45	0.47
1:F:316:THR:HB	1:L:461:GLU:HG2	1.97	0.47
1:F:337:ARG:CG	1:F:338:ASN:H	2.27	0.47
1:G:43:PHE:CE2	1:G:69:PRO:HB3	2.44	0.47
1:G:128:PRO:HD3	1:G:231:LYS:HG2	1.97	0.47
1:G:200:GLU:O	1:G:201:GLN:C	2.53	0.47
1:H:174:GLY:O	1:H:175:VAL:C	2.53	0.47
1:H:316:THR:O	1:H:317:ASN:C	2.53	0.47
1:H:437:GLU:OE2	1:H:437:GLU:CA	2.62	0.47
1:I:67:LEU:H	1:I:87:ILE:HA	1.80	0.47
1:I:77:ASP:O	1:I:78:PRO:C	2.53	0.47
1:I:89:CYS:HB3	1:I:103:ASP:OD2	2.07	0.47
1:I:93:GLU:OE1	1:I:93:GLU:CA	2.58	0.47
1:I:212:GLU:HB3	1:I:213:VAL:H	1.61	0.47
1:I:339:ARG:CA	1:J:58:LYS:HG3	2.45	0.47
1:I:421:LEU:CD2	1:I:439:ILE:HG23	2.45	0.47
1:J:169:LYS:HA	1:K:252:THR:OG1	2.15	0.47
1:J:400:PRO:HB2	1:J:401:PRO:CD	2.43	0.47
1:K:9:LEU:HD12	1:K:9:LEU:HA	1.72	0.47
1:K:27:LYS:HZ3	1:K:239:LYS:HZ1	0.50	0.47
1:K:57:TRP:CD1	1:K:58:LYS:CA	2.97	0.47
1:K:65:MET:HE3	1:K:65:MET:CA	2.29	0.47
1:K:119:GLY:O	1:K:120:ILE:C	2.53	0.47
1:K:437:GLU:CA	1:K:437:GLU:OE2	2.62	0.47
1:L:2:ALA:C	1:L:6:LEU:HD23	2.35	0.47
1:L:308:ILE:HG12	1:L:308:ILE:H	1.37	0.47
1:L:421:LEU:CD2	1:L:443:ILE:HD11	2.38	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3:GLU:O	1:A:6:LEU:HB3	2.14	0.46
1:A:17:VAL:CG1	1:A:33:ILE:HB	2.46	0.46
1:A:271:HIS:CD2	1:A:357:GLU:CG	2.98	0.46
1:A:309:ASN:CB	1:A:313:ASN:HD22	2.26	0.46
1:A:339:ARG:CA	1:F:58:LYS:HG3	2.45	0.46
1:A:351:PRO:HG2	1:A:352:LYS:H	1.79	0.46
1:B:39:ASN:O	1:B:40:ALA:O	2.33	0.46
1:B:228:MET:HE1	1:B:372:ALA:HA	1.98	0.46
1:B:252:THR:OG1	1:C:169:LYS:HA	2.15	0.46
1:B:401:PRO:O	1:B:402:GLU:C	2.52	0.46
1:C:57:TRP:CD1	1:C:58:LYS:CA	2.97	0.46
1:C:119:GLY:O	1:C:120:ILE:C	2.52	0.46
1:C:252:THR:OG1	1:D:169:LYS:HA	2.15	0.46
1:C:298:ILE:O	1:C:302:ILE:CG1	2.63	0.46
1:C:316:THR:HG22	1:C:317:ASN:N	2.29	0.46
1:C:437:GLU:CA	1:C:437:GLU:OE2	2.62	0.46
1:D:16:PHE:HD1	1:D:79:PHE:CE1	2.27	0.46
1:D:252:THR:OG1	1:E:169:LYS:HA	2.15	0.46
1:D:281:LEU:CD2	1:D:293:GLN:HE21	2.28	0.46
1:D:337:ARG:CG	1:D:338:ASN:H	2.27	0.46
1:D:380:ASP:CA	1:D:383:LYS:HB2	2.45	0.46
1:D:416:GLU:O	1:D:419:ASN:HB2	2.15	0.46
1:E:9:LEU:HD21	1:E:38:VAL:HG11	1.97	0.46
1:E:110:ARG:O	1:E:111:ALA:C	2.53	0.46
1:E:128:PRO:HD3	1:E:231:LYS:HG2	1.97	0.46
1:E:138:ILE:O	1:F:168:ASN:HB3	2.14	0.46
1:E:449:GLU:OE1	1:K:465:TYR:HE2	1.98	0.46
1:F:3:GLU:O	1:F:6:LEU:HB3	2.14	0.46
1:F:148:HIS:HB2	1:L:148:HIS:CB	2.45	0.46
1:F:281:LEU:CD2	1:F:293:GLN:HE21	2.28	0.46
1:F:437:GLU:OE2	1:F:437:GLU:CA	2.62	0.46
1:G:54:ILE:HG12	1:G:54:ILE:O	2.16	0.46
1:G:309:ASN:CB	1:G:313:ASN:HD22	2.26	0.46
1:G:421:LEU:CD2	1:G:439:ILE:HG23	2.45	0.46
1:H:281:LEU:CD2	1:H:293:GLN:HE21	2.28	0.46
1:H:411:ALA:O	1:H:412:GLY:C	2.53	0.46
1:I:3:GLU:O	1:I:6:LEU:HB3	2.14	0.46
1:I:71:ALA:HB3	1:I:86:ILE:HD11	1.96	0.46
1:I:128:PRO:HD3	1:I:231:LYS:HG2	1.97	0.46
1:I:281:LEU:CD2	1:I:293:GLN:HE21	2.29	0.46
1:I:339:ARG:NH2	1:J:58:LYS:N	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:339:ARG:NH2	1:K:58:LYS:N	2.63	0.46
1:J:339:ARG:CA	1:K:58:LYS:HG3	2.45	0.46
1:J:416:GLU:O	1:J:419:ASN:HB2	2.15	0.46
1:K:5:VAL:HG11	1:K:43:PHE:HZ	1.76	0.46
1:K:15:LYS:N	1:K:15:LYS:CD	2.67	0.46
1:K:77:ASP:O	1:K:78:PRO:C	2.53	0.46
1:K:169:LYS:HA	1:L:252:THR:OG1	2.15	0.46
1:K:271:HIS:CD2	1:K:357:GLU:CG	2.98	0.46
1:K:400:PRO:HB2	1:K:401:PRO:CD	2.43	0.46
1:L:274:LEU:O	1:L:281:LEU:CD1	2.62	0.46
1:L:281:LEU:CD2	1:L:293:GLN:HE21	2.28	0.46
1:L:316:THR:O	1:L:317:ASN:C	2.53	0.46
1:A:168:ASN:HB3	1:F:138:ILE:O	2.14	0.46
1:A:200:GLU:O	1:A:201:GLN:C	2.53	0.46
1:A:281:LEU:CD2	1:A:293:GLN:HE21	2.28	0.46
1:A:380:ASP:CA	1:A:383:LYS:HB2	2.46	0.46
1:A:421:LEU:CD2	1:A:439:ILE:HG23	2.45	0.46
1:B:2:ALA:C	1:B:6:LEU:HD23	2.35	0.46
1:B:9:LEU:HD21	1:B:38:VAL:HG11	1.97	0.46
1:B:148:HIS:CB	1:H:148:HIS:HB2	2.46	0.46
1:B:271:HIS:CD2	1:B:357:GLU:CG	2.98	0.46
1:B:274:LEU:O	1:B:281:LEU:CD1	2.62	0.46
1:B:316:THR:O	1:B:317:ASN:C	2.53	0.46
1:B:416:GLU:O	1:B:419:ASN:HB2	2.15	0.46
1:C:15:LYS:N	1:C:15:LYS:CD	2.67	0.46
1:C:174:GLY:O	1:C:175:VAL:C	2.53	0.46
1:C:271:HIS:CD2	1:C:357:GLU:CG	2.98	0.46
1:C:308:ILE:HG12	1:C:308:ILE:H	1.37	0.46
1:C:400:PRO:HB2	1:C:401:PRO:CD	2.43	0.46
1:D:65:MET:O	1:D:67:LEU:CA	2.63	0.46
1:D:68:MET:CA	1:D:70:ASP:OD2	2.64	0.46
1:D:75:VAL:HG22	1:D:84:THR:HG21	1.97	0.46
1:D:174:GLY:O	1:D:175:VAL:C	2.53	0.46
1:D:461:GLU:HG2	1:J:316:THR:HB	1.97	0.46
1:E:3:GLU:O	1:E:6:LEU:HB3	2.14	0.46
1:E:71:ALA:HB3	1:E:86:ILE:HD11	1.96	0.46
1:E:200:GLU:O	1:E:201:GLN:C	2.53	0.46
1:F:2:ALA:C	1:F:6:LEU:HD23	2.35	0.46
1:F:16:PHE:HD1	1:F:79:PHE:CE1	2.27	0.46
1:F:226:ASN:HB3	1:F:227:THR:H	1.53	0.46
1:F:271:HIS:CD2	1:F:357:GLU:CB	2.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:336:ALA:HA	1:F:345:ILE:O	2.14	0.46
1:G:85:LEU:HD12	1:G:86:ILE:HD12	1.98	0.46
1:G:271:HIS:CD2	1:G:357:GLU:CB	2.99	0.46
1:G:339:ARG:CA	1:H:58:LYS:HG3	2.45	0.46
1:G:449:GLU:O	1:G:450:ASP:C	2.54	0.46
1:H:298:ILE:O	1:H:302:ILE:CG1	2.63	0.46
1:H:337:ARG:CG	1:H:338:ASN:H	2.28	0.46
1:H:449:GLU:O	1:H:450:ASP:C	2.54	0.46
1:I:283:SER:C	1:I:291:SER:HB3	2.29	0.46
1:I:401:PRO:O	1:I:402:GLU:C	2.52	0.46
1:J:380:ASP:CA	1:J:383:LYS:HB2	2.46	0.46
1:J:411:ALA:O	1:J:412:GLY:C	2.53	0.46
1:K:68:MET:CA	1:K:70:ASP:OD2	2.64	0.46
1:K:174:GLY:O	1:K:175:VAL:C	2.53	0.46
1:K:199:MET:CB	1:K:204:LEU:HD12	2.44	0.46
1:K:298:ILE:O	1:K:302:ILE:CG1	2.63	0.46
1:K:339:ARG:NH2	1:L:58:LYS:N	2.63	0.46
1:K:397:TYR:O	1:K:397:TYR:HD2	1.99	0.46
1:L:9:LEU:HD21	1:L:38:VAL:HG11	1.97	0.46
1:L:15:LYS:N	1:L:15:LYS:CD	2.67	0.46
1:L:39:ASN:O	1:L:40:ALA:O	2.33	0.46
1:L:54:ILE:HG12	1:L:54:ILE:O	2.15	0.46
1:L:128:PRO:HD3	1:L:231:LYS:HG2	1.97	0.46
1:L:271:HIS:CD2	1:L:357:GLU:CG	2.98	0.46
1:L:295:LEU:HB3	1:L:388:PRO:CG	2.44	0.46
1:A:24:THR:CG2	1:A:25:LYS:N	2.71	0.46
1:A:67:LEU:H	1:A:87:ILE:HA	1.80	0.46
1:A:271:HIS:CD2	1:A:357:GLU:CB	2.99	0.46
1:A:376:MET:HE3	1:A:433:VAL:HG13	1.88	0.46
1:A:449:GLU:O	1:A:450:ASP:C	2.54	0.46
1:B:15:LYS:N	1:B:15:LYS:CD	2.67	0.46
1:B:54:ILE:HG12	1:B:54:ILE:O	2.15	0.46
1:B:58:LYS:N	1:C:339:ARG:NH2	2.63	0.46
1:B:281:LEU:CD2	1:B:293:GLN:HE21	2.28	0.46
1:B:316:THR:HG22	1:B:317:ASN:N	2.30	0.46
1:B:421:LEU:CD2	1:B:443:ILE:HD11	2.38	0.46
1:C:58:LYS:HG3	1:D:339:ARG:CA	2.45	0.46
1:C:58:LYS:N	1:D:339:ARG:NH2	2.64	0.46
1:C:68:MET:CA	1:C:70:ASP:OD2	2.64	0.46
1:C:199:MET:HB3	1:C:204:LEU:CD1	2.46	0.46
1:C:199:MET:CB	1:C:204:LEU:HD12	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:416:GLU:O	1:C:419:ASN:HB2	2.15	0.46
1:C:461:GLU:HG2	1:I:316:THR:HB	1.97	0.46
1:D:71:ALA:O	1:D:86:ILE:CG1	2.63	0.46
1:E:124:VAL:C	1:E:125:LEU:HD23	2.35	0.46
1:E:252:THR:OG1	1:F:169:LYS:HA	2.15	0.46
1:F:65:MET:O	1:F:67:LEU:CA	2.63	0.46
1:F:200:GLU:O	1:F:201:GLN:C	2.53	0.46
1:F:298:ILE:O	1:F:302:ILE:CG1	2.63	0.46
1:F:449:GLU:O	1:F:450:ASP:C	2.54	0.46
1:G:380:ASP:CA	1:G:383:LYS:HB2	2.46	0.46
1:H:67:LEU:H	1:H:87:ILE:HA	1.79	0.46
1:H:169:LYS:HA	1:I:252:THR:OG1	2.15	0.46
1:H:271:HIS:CD2	1:H:357:GLU:CB	2.99	0.46
1:H:339:ARG:NH2	1:I:58:LYS:N	2.64	0.46
1:I:185:VAL:O	1:I:185:VAL:CG1	2.59	0.46
1:I:200:GLU:O	1:I:201:GLN:C	2.53	0.46
1:J:75:VAL:HG22	1:J:84:THR:HG21	1.97	0.46
1:J:174:GLY:O	1:J:175:VAL:C	2.53	0.46
1:J:281:LEU:CD2	1:J:293:GLN:HE21	2.29	0.46
1:J:390:GLU:CB	1:J:391:PRO:CD	2.90	0.46
1:K:110:ARG:O	1:K:111:ALA:C	2.53	0.46
1:K:153:ASP:O	1:K:154:ILE:C	2.54	0.46
1:K:281:LEU:CD2	1:K:293:GLN:HE21	2.28	0.46
1:K:416:GLU:O	1:K:419:ASN:HB2	2.15	0.46
1:L:17:VAL:CG1	1:L:33:ILE:HB	2.46	0.46
1:L:105:ARG:HD3	1:L:109:LYS:HE2	1.97	0.46
1:L:316:THR:HG22	1:L:317:ASN:N	2.29	0.46
1:L:416:GLU:O	1:L:419:ASN:HB2	2.15	0.46
1:A:71:ALA:O	1:A:86:ILE:CG1	2.63	0.46
1:A:85:LEU:HD12	1:A:86:ILE:HD12	1.98	0.46
1:A:169:LYS:HA	1:F:252:THR:OG1	2.15	0.46
1:B:17:VAL:CG1	1:B:33:ILE:HB	2.46	0.46
1:B:20:ARG:HG3	1:B:28:GLU:OE2	2.12	0.46
1:B:105:ARG:HD3	1:B:109:LYS:HE2	1.97	0.46
1:B:128:PRO:HD3	1:B:231:LYS:HG2	1.97	0.46
1:B:174:GLY:O	1:B:175:VAL:C	2.53	0.46
1:C:10:ASN:O	1:C:11:GLU:C	2.51	0.46
1:C:75:VAL:HG22	1:C:84:THR:HG21	1.98	0.46
1:C:153:ASP:O	1:C:154:ILE:C	2.54	0.46
1:C:465:TYR:HE2	1:I:449:GLU:OE1	1.99	0.46
1:D:2:ALA:C	1:D:6:LEU:HD23	2.35	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:128:PRO:HD3	1:D:231:LYS:HG2	1.97	0.46
1:D:390:GLU:CB	1:D:391:PRO:CD	2.90	0.46
1:E:13:GLU:C	1:E:14:VAL:O	2.54	0.46
1:E:54:ILE:HG12	1:E:54:ILE:O	2.15	0.46
1:E:58:LYS:N	1:F:339:ARG:NH2	2.64	0.46
1:E:316:THR:HB	1:K:461:GLU:HG2	1.97	0.46
1:E:416:GLU:O	1:E:419:ASN:HB2	2.16	0.46
1:E:437:GLU:OE2	1:E:437:GLU:HA	2.15	0.46
1:E:449:GLU:O	1:E:450:ASP:C	2.54	0.46
1:F:67:LEU:H	1:F:87:ILE:HA	1.80	0.46
1:F:75:VAL:CG2	1:F:84:THR:CB	2.90	0.46
1:F:316:THR:O	1:F:317:ASN:C	2.53	0.46
1:G:110:ARG:O	1:G:111:ALA:C	2.53	0.46
1:G:290:LEU:HD11	1:G:345:ILE:HG21	1.96	0.46
1:H:3:GLU:O	1:H:6:LEU:HB3	2.14	0.46
1:H:65:MET:O	1:H:67:LEU:CA	2.63	0.46
1:H:200:GLU:O	1:H:201:GLN:C	2.53	0.46
1:H:283:SER:C	1:H:291:SER:HB3	2.30	0.46
1:H:336:ALA:HA	1:H:345:ILE:O	2.14	0.46
1:I:13:GLU:C	1:I:14:VAL:O	2.54	0.46
1:I:124:VAL:C	1:I:125:LEU:HD23	2.35	0.46
1:I:169:LYS:HA	1:J:252:THR:OG1	2.15	0.46
1:I:421:LEU:CD2	1:I:443:ILE:HD11	2.38	0.46
1:I:437:GLU:OE2	1:I:437:GLU:HA	2.14	0.46
1:I:449:GLU:O	1:I:450:ASP:C	2.54	0.46
1:J:2:ALA:C	1:J:6:LEU:HD23	2.35	0.46
1:J:65:MET:O	1:J:67:LEU:CA	2.63	0.46
1:J:68:MET:CA	1:J:70:ASP:OD2	2.64	0.46
1:J:71:ALA:O	1:J:86:ILE:CG1	2.63	0.46
1:J:128:PRO:HD3	1:J:231:LYS:HG2	1.97	0.46
1:J:337:ARG:CG	1:J:338:ASN:H	2.28	0.46
1:J:407:ILE:HA	1:J:408:PRO:HD3	1.71	0.46
1:K:124:VAL:C	1:K:125:LEU:HD23	2.35	0.46
1:L:75:VAL:HG22	1:L:84:THR:HG21	1.98	0.46
1:L:337:ARG:CG	1:L:338:ASN:H	2.28	0.46
1:L:350:SER:C	1:L:352:LYS:H	2.14	0.46
1:A:110:ARG:O	1:A:111:ALA:C	2.53	0.46
1:A:401:PRO:O	1:A:402:GLU:C	2.52	0.46
1:B:71:ALA:HB3	1:B:86:ILE:HD11	1.96	0.46
1:B:295:LEU:HB3	1:B:388:PRO:CG	2.45	0.46
1:B:308:ILE:HG12	1:B:308:ILE:H	1.37	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:380:ASP:CA	1:B:383:LYS:HB2	2.45	0.46
1:C:5:VAL:HG11	1:C:43:PHE:HZ	1.76	0.46
1:C:110:ARG:O	1:C:111:ALA:C	2.53	0.46
1:C:124:VAL:C	1:C:125:LEU:HD23	2.35	0.46
1:C:148:HIS:CB	1:I:148:HIS:HB2	2.46	0.46
1:C:226:ASN:HB3	1:C:227:THR:H	1.53	0.46
1:C:281:LEU:CD2	1:C:293:GLN:HE21	2.28	0.46
1:C:397:TYR:O	1:C:397:TYR:HD2	1.99	0.46
1:D:199:MET:CE	1:D:238:TYR:CD2	2.99	0.46
1:D:226:ASN:HB3	1:D:227:THR:H	1.53	0.46
1:D:316:THR:HB	1:J:461:GLU:HG2	1.97	0.46
1:D:331:MET:HE2	1:D:396:LEU:CB	2.46	0.46
1:E:65:MET:O	1:E:67:LEU:CA	2.63	0.46
1:E:148:HIS:HB2	1:K:148:HIS:CB	2.46	0.46
1:E:283:SER:C	1:E:291:SER:HB3	2.30	0.46
1:F:54:ILE:HG12	1:F:54:ILE:O	2.15	0.46
1:F:199:MET:CE	1:F:238:TYR:CD2	2.99	0.46
1:G:24:THR:CG2	1:G:25:LYS:N	2.71	0.46
1:G:71:ALA:O	1:G:86:ILE:CG1	2.63	0.46
1:G:379:LEU:C	1:G:379:LEU:CD1	2.82	0.46
1:H:2:ALA:C	1:H:6:LEU:HD23	2.35	0.46
1:H:199:MET:CE	1:H:238:TYR:CD2	2.99	0.46
1:I:416:GLU:O	1:I:419:ASN:HB2	2.16	0.46
1:J:9:LEU:HD12	1:J:14:VAL:CG2	2.38	0.46
1:J:290:LEU:HD11	1:J:345:ILE:HG21	1.96	0.46
1:J:351:PRO:HG2	1:J:352:LYS:H	1.79	0.46
1:K:17:VAL:CG1	1:K:33:ILE:HB	2.45	0.46
1:K:39:ASN:O	1:K:40:ALA:O	2.33	0.46
1:K:75:VAL:HG22	1:K:84:THR:HG21	1.98	0.46
1:K:110:ARG:O	1:K:114:TYR:N	2.43	0.46
1:K:316:THR:HG22	1:K:317:ASN:N	2.30	0.46
1:K:339:ARG:CA	1:L:58:LYS:HG3	2.45	0.46
1:L:174:GLY:O	1:L:175:VAL:C	2.53	0.46
1:L:228:MET:HE1	1:L:372:ALA:N	2.30	0.46
1:L:271:HIS:CD2	1:L:357:GLU:CB	2.99	0.46
1:L:309:ASN:CB	1:L:313:ASN:HD22	2.26	0.46
1:L:380:ASP:CA	1:L:383:LYS:HB2	2.45	0.46
1:L:397:TYR:O	1:L:397:TYR:HD2	1.99	0.46
1:A:13:GLU:C	1:A:14:VAL:CG1	2.84	0.46
1:A:148:HIS:CB	1:G:148:HIS:HB2	2.46	0.46
1:A:148:HIS:HB2	1:G:148:HIS:CB	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:290:LEU:HD11	1:A:345:ILE:HG21	1.96	0.46
1:A:304:HIS:O	1:A:305:ALA:C	2.54	0.46
1:A:316:THR:O	1:A:317:ASN:C	2.53	0.46
1:A:379:LEU:C	1:A:379:LEU:CD1	2.82	0.46
1:B:58:LYS:HG3	1:C:339:ARG:CA	2.45	0.46
1:B:298:ILE:O	1:B:302:ILE:CG1	2.63	0.46
1:B:397:TYR:O	1:B:397:TYR:HD2	1.99	0.46
1:C:39:ASN:O	1:C:40:ALA:O	2.33	0.46
1:C:148:HIS:HB2	1:I:148:HIS:CB	2.45	0.46
1:C:189:GLN:C	1:C:191:ILE:N	2.67	0.46
1:C:446:ARG:N	1:C:446:ARG:CD	2.74	0.46
1:D:17:VAL:CG1	1:D:33:ILE:HB	2.46	0.46
1:E:199:MET:CE	1:E:238:TYR:CD2	2.99	0.46
1:E:421:LEU:CD2	1:E:443:ILE:HD11	2.38	0.46
1:F:339:ARG:O	1:F:341:ALA:N	2.42	0.46
1:F:403:GLU:N	1:F:405:LYS:HG2	2.29	0.46
1:F:429:LYS:HA	1:F:434:PHE:O	2.16	0.46
1:G:13:GLU:C	1:G:14:VAL:CG1	2.84	0.46
1:G:64:ASP:O	1:G:66:VAL:N	2.47	0.46
1:G:67:LEU:H	1:G:87:ILE:HA	1.80	0.46
1:G:137:ASP:OD2	1:G:139:ARG:HD3	2.16	0.46
1:G:169:LYS:HA	1:H:252:THR:OG1	2.15	0.46
1:G:316:THR:O	1:G:317:ASN:C	2.53	0.46
1:G:429:LYS:HA	1:G:434:PHE:O	2.16	0.46
1:H:17:VAL:CG1	1:H:33:ILE:HB	2.46	0.46
1:H:75:VAL:CG2	1:H:84:THR:CB	2.90	0.46
1:I:54:ILE:HG12	1:I:54:ILE:O	2.16	0.46
1:I:65:MET:O	1:I:67:LEU:CA	2.63	0.46
1:I:153:ASP:O	1:I:154:ILE:C	2.54	0.46
1:I:199:MET:CE	1:I:238:TYR:CD2	2.99	0.46
1:I:290:LEU:HD11	1:I:345:ILE:HG21	1.96	0.46
1:J:271:HIS:CD2	1:J:357:GLU:CB	2.99	0.46
1:J:331:MET:HE2	1:J:396:LEU:CB	2.46	0.46
1:K:13:GLU:C	1:K:14:VAL:CG1	2.83	0.46
1:K:54:ILE:HG12	1:K:54:ILE:O	2.15	0.46
1:L:38:VAL:O	1:L:39:ASN:CB	2.56	0.46
1:L:298:ILE:O	1:L:302:ILE:CG1	2.63	0.46
1:L:318:SER:OG	1:L:362:ASP:OD2	2.32	0.46
1:A:39:ASN:O	1:A:40:ALA:O	2.33	0.46
1:A:58:LYS:N	1:B:339:ARG:NH2	2.63	0.46
1:A:298:ILE:O	1:A:302:ILE:CG1	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:339:ARG:NH2	1:F:58:LYS:N	2.63	0.46
1:B:38:VAL:O	1:B:39:ASN:CB	2.56	0.46
1:B:65:MET:O	1:B:67:LEU:CA	2.63	0.46
1:B:75:VAL:HG22	1:B:84:THR:HG21	1.98	0.46
1:B:271:HIS:CD2	1:B:357:GLU:CB	2.99	0.46
1:B:304:HIS:O	1:B:305:ALA:C	2.54	0.46
1:B:309:ASN:CB	1:B:313:ASN:HD22	2.27	0.46
1:B:318:SER:OG	1:B:362:ASP:OD2	2.32	0.46
1:C:65:MET:O	1:C:67:LEU:CA	2.63	0.46
1:C:93:GLU:HG3	1:C:94:PRO:HD3	1.93	0.46
1:C:315:THR:CB	1:I:465:TYR:HD2	2.02	0.46
1:D:13:GLU:C	1:D:14:VAL:O	2.54	0.46
1:D:111:ALA:HA	1:D:376:MET:HE2	1.97	0.46
1:D:148:HIS:HB2	1:J:148:HIS:CB	2.45	0.46
1:D:199:MET:HB3	1:D:204:LEU:CD1	2.45	0.46
1:D:271:HIS:CD2	1:D:357:GLU:CB	2.99	0.46
1:D:351:PRO:HG2	1:D:352:LYS:H	1.79	0.46
1:E:153:ASP:O	1:E:154:ILE:C	2.54	0.46
1:E:290:LEU:HD11	1:E:345:ILE:HG21	1.97	0.46
1:F:17:VAL:CG1	1:F:33:ILE:HB	2.46	0.46
1:F:91:ILE:HG23	1:F:92:LEU:H	1.80	0.46
1:F:283:SER:C	1:F:291:SER:HB3	2.30	0.46
1:G:7:THR:C	1:G:9:LEU:N	2.69	0.46
1:G:39:ASN:O	1:G:40:ALA:O	2.33	0.46
1:G:58:LYS:N	1:L:339:ARG:NH2	2.63	0.46
1:G:298:ILE:O	1:G:302:ILE:CG1	2.63	0.46
1:G:304:HIS:O	1:G:305:ALA:C	2.54	0.46
1:G:401:PRO:O	1:G:402:GLU:C	2.52	0.46
1:H:54:ILE:HG12	1:H:54:ILE:O	2.16	0.46
1:H:304:HIS:O	1:H:305:ALA:C	2.54	0.46
1:H:416:GLU:O	1:H:419:ASN:HB2	2.15	0.46
1:I:326:TYR:HD2	1:I:326:TYR:N	2.14	0.46
1:I:380:ASP:CA	1:I:383:LYS:HB2	2.45	0.46
1:J:13:GLU:C	1:J:14:VAL:O	2.54	0.46
1:J:17:VAL:CG1	1:J:33:ILE:HB	2.46	0.46
1:J:89:CYS:HB3	1:J:90:ASP:H	1.44	0.46
1:K:10:ASN:O	1:K:11:GLU:C	2.51	0.46
1:K:67:LEU:HD12	1:K:68:MET:CG	2.26	0.46
1:K:316:THR:O	1:K:317:ASN:C	2.53	0.46
1:K:399:LEU:C	1:K:401:PRO:CD	2.81	0.46
1:L:68:MET:CA	1:L:70:ASP:OD2	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:71:ALA:HB3	1:L:86:ILE:HD11	1.96	0.46
1:L:296:TYR:HB3	1:L:382:ILE:N	2.31	0.46
1:L:304:HIS:O	1:L:305:ALA:C	2.54	0.46
1:A:64:ASP:O	1:A:66:VAL:N	2.47	0.46
1:A:137:ASP:OD2	1:A:139:ARG:HD3	2.16	0.46
1:A:153:ASP:O	1:A:154:ILE:C	2.54	0.46
1:A:296:TYR:HB3	1:A:382:ILE:CA	2.46	0.46
1:A:318:SER:OG	1:A:362:ASP:OD2	2.32	0.46
1:A:429:LYS:HA	1:A:434:PHE:O	2.16	0.46
1:A:461:GLU:HG2	1:G:316:THR:HB	1.97	0.46
1:B:48:MET:HB2	1:B:62:GLU:C	2.36	0.46
1:B:68:MET:CA	1:B:70:ASP:OD2	2.64	0.46
1:D:212:GLU:HB3	1:D:213:VAL:H	1.61	0.46
1:D:290:LEU:HD11	1:D:345:ILE:HG21	1.96	0.46
1:D:465:TYR:HD2	1:J:315:THR:CB	2.01	0.46
1:E:148:HIS:CB	1:K:148:HIS:HB2	2.46	0.46
1:E:326:TYR:HD2	1:E:326:TYR:N	2.14	0.46
1:E:337:ARG:CG	1:E:338:ASN:H	2.28	0.46
1:F:24:THR:CG2	1:F:25:LYS:N	2.71	0.46
1:F:153:ASP:O	1:F:154:ILE:C	2.54	0.46
1:G:68:MET:O	1:G:86:ILE:HD11	2.16	0.46
1:G:153:ASP:O	1:G:154:ILE:C	2.54	0.46
1:G:339:ARG:NH2	1:H:58:LYS:N	2.63	0.46
1:G:464:LEU:HD22	1:G:464:LEU:H	1.81	0.46
1:H:175:VAL:CA	1:H:215:THR:HG23	2.43	0.46
1:H:199:MET:HB3	1:H:204:LEU:CD1	2.46	0.46
1:H:403:GLU:N	1:H:405:LYS:HG2	2.30	0.46
1:H:429:LYS:HA	1:H:434:PHE:O	2.16	0.46
1:I:202:MET:HE2	1:I:202:MET:HA	1.97	0.46
1:I:271:HIS:CD2	1:I:357:GLU:CB	2.99	0.46
1:J:199:MET:CE	1:J:238:TYR:CD2	2.99	0.46
1:J:226:ASN:HB3	1:J:227:THR:H	1.53	0.46
1:J:291:SER:O	1:J:294:ALA:N	2.49	0.46
1:J:296:TYR:HB3	1:J:382:ILE:CA	2.46	0.46
1:J:297:TYR:C	1:J:299:GLY:N	2.66	0.46
1:J:338:ASN:O	1:J:341:ALA:HB2	2.16	0.46
1:J:339:ARG:NH1	1:J:339:ARG:CA	2.79	0.46
1:J:437:GLU:OE2	1:J:437:GLU:HA	2.15	0.46
1:K:65:MET:O	1:K:67:LEU:CA	2.63	0.46
1:K:274:LEU:HD11	1:K:282:PHE:CE1	2.44	0.46
1:L:48:MET:HB2	1:L:62:GLU:C	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:65:MET:O	1:L:67:LEU:CA	2.63	0.46
1:A:7:THR:C	1:A:9:LEU:N	2.69	0.46
1:A:305:ALA:O	1:A:308:ILE:HG13	2.16	0.46
1:A:316:THR:HB	1:G:461:GLU:HG2	1.97	0.46
1:A:376:MET:HE3	1:A:433:VAL:HG22	1.93	0.46
1:A:437:GLU:HB2	1:A:438:ALA:H	1.11	0.46
1:A:464:LEU:H	1:A:464:LEU:HD22	1.81	0.46
1:B:200:GLU:O	1:B:201:GLN:C	2.53	0.46
1:B:296:TYR:HB3	1:B:382:ILE:N	2.31	0.46
1:B:421:LEU:CD2	1:B:439:ILE:HG23	2.45	0.46
1:C:17:VAL:CG1	1:C:33:ILE:HB	2.46	0.46
1:C:54:ILE:HG12	1:C:54:ILE:O	2.16	0.46
1:C:274:LEU:HD11	1:C:282:PHE:CE1	2.44	0.46
1:C:399:LEU:C	1:C:401:PRO:CD	2.81	0.46
1:C:464:LEU:HD22	1:C:464:LEU:H	1.81	0.46
1:D:136:ASP:N	1:D:153:ASP:HB2	2.23	0.46
1:D:291:SER:O	1:D:294:ALA:N	2.49	0.46
1:D:437:GLU:OE2	1:D:437:GLU:HA	2.15	0.46
1:E:271:HIS:CD2	1:E:357:GLU:CB	2.99	0.46
1:E:296:TYR:HB3	1:E:382:ILE:CA	2.46	0.46
1:E:380:ASP:CA	1:E:383:LYS:HB2	2.45	0.46
1:F:199:MET:HE2	1:F:238:TYR:CD2	2.50	0.46
1:F:304:HIS:O	1:F:305:ALA:C	2.54	0.46
1:F:351:PRO:HG2	1:F:352:LYS:H	1.79	0.46
1:F:397:TYR:O	1:F:397:TYR:HD2	1.98	0.46
1:F:416:GLU:O	1:F:419:ASN:HB2	2.16	0.46
1:F:461:GLU:HG2	1:L:316:THR:HB	1.97	0.46
1:G:75:VAL:HG22	1:G:84:THR:HG21	1.98	0.46
1:G:296:TYR:HB3	1:G:382:ILE:CA	2.46	0.46
1:G:305:ALA:O	1:G:308:ILE:HG13	2.16	0.46
1:G:318:SER:OG	1:G:362:ASP:OD2	2.32	0.46
1:H:153:ASP:O	1:H:154:ILE:C	2.54	0.46
1:H:199:MET:HE2	1:H:238:TYR:CD2	2.50	0.46
1:H:351:PRO:HG2	1:H:352:LYS:H	1.79	0.46
1:I:17:VAL:CG1	1:I:33:ILE:HB	2.45	0.46
1:I:137:ASP:OD2	1:I:139:ARG:HD3	2.16	0.46
1:J:25:LYS:HA	1:J:25:LYS:HD2	1.66	0.46
1:J:202:MET:HE2	1:J:202:MET:HA	1.97	0.46
1:J:212:GLU:HB3	1:J:213:VAL:H	1.61	0.46
1:K:93:GLU:OE1	1:K:93:GLU:CA	2.58	0.46
1:K:271:HIS:CD2	1:K:357:GLU:CB	2.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:437:GLU:OE2	1:K:437:GLU:HA	2.15	0.46
1:K:446:ARG:N	1:K:446:ARG:CD	2.74	0.46
1:L:351:PRO:HG2	1:L:352:LYS:H	1.79	0.46
1:A:68:MET:O	1:A:86:ILE:HD11	2.16	0.46
1:A:75:VAL:HG22	1:A:84:THR:HG21	1.98	0.46
1:A:296:TYR:HB3	1:A:382:ILE:N	2.31	0.46
1:A:339:ARG:NH1	1:A:339:ARG:CA	2.79	0.46
1:A:377:ALA:O	1:A:379:LEU:N	2.49	0.46
1:A:383:LYS:CE	1:A:384:ASN:N	2.74	0.46
1:A:461:GLU:OE1	1:G:317:ASN:CA	2.64	0.46
1:A:466:TYR:CZ	1:G:252:THR:HG21	2.33	0.46
1:B:91:ILE:HG23	1:B:92:LEU:H	1.80	0.46
1:B:316:THR:HB	1:H:461:GLU:HG2	1.97	0.46
1:B:377:ALA:O	1:B:379:LEU:N	2.49	0.46
1:B:449:GLU:O	1:B:450:ASP:C	2.54	0.46
1:C:13:GLU:C	1:C:14:VAL:CG1	2.84	0.46
1:C:13:GLU:C	1:C:14:VAL:O	2.54	0.46
1:C:26:GLY:O	1:C:27:LYS:CG	2.57	0.46
1:C:105:ARG:HD3	1:C:109:LYS:HE2	1.97	0.46
1:C:110:ARG:O	1:C:114:TYR:N	2.43	0.46
1:C:128:PRO:HD3	1:C:231:LYS:HG2	1.97	0.46
1:C:271:HIS:CD2	1:C:357:GLU:CB	2.99	0.46
1:C:316:THR:O	1:C:317:ASN:C	2.53	0.46
1:C:412:GLY:C	1:C:413:SER:HG	2.20	0.46
1:D:9:LEU:HD12	1:D:14:VAL:CG2	2.38	0.46
1:D:120:ILE:CD1	1:D:382:ILE:CG2	2.94	0.46
1:D:148:HIS:CB	1:J:148:HIS:HB2	2.46	0.46
1:D:202:MET:HE2	1:D:202:MET:HA	1.97	0.46
1:D:296:TYR:HB3	1:D:382:ILE:CA	2.46	0.46
1:D:315:THR:CB	1:J:465:TYR:HD2	2.01	0.46
1:D:338:ASN:O	1:D:341:ALA:HB2	2.16	0.46
1:D:339:ARG:NH1	1:D:339:ARG:CA	2.79	0.46
1:D:449:GLU:CD	1:J:465:TYR:OH	2.52	0.46
1:E:397:TYR:O	1:E:397:TYR:HD2	1.99	0.46
1:E:399:LEU:C	1:E:401:PRO:CD	2.81	0.46
1:F:85:LEU:HD12	1:F:86:ILE:HD12	1.98	0.46
1:F:128:PRO:HD3	1:F:231:LYS:HG2	1.97	0.46
1:F:137:ASP:OD2	1:F:139:ARG:HD3	2.16	0.46
1:F:175:VAL:CA	1:F:215:THR:HG23	2.43	0.46
1:F:367:PRO:HB3	1:F:371:PHE:CE1	2.51	0.46
1:H:7:THR:C	1:H:9:LEU:N	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:24:THR:CG2	1:H:25:LYS:N	2.71	0.46
1:H:91:ILE:HG23	1:H:92:LEU:H	1.81	0.46
1:H:226:ASN:HB3	1:H:227:THR:H	1.53	0.46
1:H:231:LYS:O	1:H:232:ALA:C	2.55	0.46
1:H:367:PRO:HB3	1:H:371:PHE:CE1	2.51	0.46
1:H:377:ALA:O	1:H:379:LEU:N	2.49	0.46
1:I:231:LYS:O	1:I:232:ALA:C	2.55	0.46
1:I:296:TYR:HB3	1:I:382:ILE:CA	2.46	0.46
1:J:136:ASP:N	1:J:153:ASP:HB2	2.23	0.46
1:K:13:GLU:C	1:K:14:VAL:O	2.54	0.46
1:K:68:MET:O	1:K:86:ILE:HD11	2.16	0.46
1:K:105:ARG:HD3	1:K:109:LYS:HE2	1.97	0.46
1:K:189:GLN:C	1:K:191:ILE:N	2.67	0.46
1:K:464:LEU:HD22	1:K:464:LEU:H	1.81	0.46
1:L:290:LEU:HD11	1:L:345:ILE:HG21	1.96	0.46
1:L:377:ALA:O	1:L:379:LEU:N	2.49	0.46
1:L:421:LEU:CD2	1:L:439:ILE:HG23	2.45	0.46
1:L:449:GLU:O	1:L:450:ASP:C	2.54	0.46
1:A:174:GLY:O	1:A:175:VAL:C	2.53	0.45
1:A:199:MET:CE	1:A:238:TYR:CD2	2.99	0.45
1:A:252:THR:OG1	1:B:169:LYS:HA	2.15	0.45
1:A:317:ASN:CA	1:G:461:GLU:OE1	2.64	0.45
1:A:367:PRO:HB3	1:A:371:PHE:CE1	2.51	0.45
1:C:2:ALA:C	1:C:6:LEU:HD23	2.35	0.45
1:C:68:MET:O	1:C:86:ILE:HD11	2.16	0.45
1:C:316:THR:HB	1:I:461:GLU:HG2	1.97	0.45
1:D:189:GLN:C	1:D:191:ILE:N	2.67	0.45
1:D:397:TYR:O	1:D:397:TYR:HD2	1.99	0.45
1:D:399:LEU:HD23	1:D:402:GLU:CB	2.39	0.45
1:E:17:VAL:CG1	1:E:33:ILE:HB	2.45	0.45
1:E:48:MET:HB2	1:E:62:GLU:C	2.36	0.45
1:E:202:MET:HE2	1:E:202:MET:HA	1.98	0.45
1:E:377:ALA:O	1:E:379:LEU:N	2.49	0.45
1:E:383:LYS:CE	1:E:384:ASN:N	2.74	0.45
1:E:401:PRO:C	1:E:403:GLU:N	2.69	0.45
1:E:403:GLU:N	1:E:405:LYS:HG2	2.29	0.45
1:F:7:THR:C	1:F:9:LEU:N	2.69	0.45
1:F:68:MET:O	1:F:86:ILE:HD11	2.16	0.45
1:F:68:MET:CA	1:F:70:ASP:OD2	2.64	0.45
1:F:231:LYS:O	1:F:232:ALA:C	2.55	0.45
1:F:377:ALA:O	1:F:379:LEU:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:399:LEU:HD23	1:F:402:GLU:CB	2.39	0.45
1:G:296:TYR:HB3	1:G:382:ILE:N	2.31	0.45
1:G:339:ARG:NH1	1:G:339:ARG:CA	2.79	0.45
1:G:367:PRO:HB3	1:G:371:PHE:CE1	2.51	0.45
1:G:377:ALA:O	1:G:379:LEU:N	2.49	0.45
1:G:383:LYS:CE	1:G:384:ASN:N	2.74	0.45
1:H:68:MET:CA	1:H:70:ASP:OD2	2.64	0.45
1:H:137:ASP:OD2	1:H:139:ARG:HD3	2.16	0.45
1:H:163:LYS:HG3	1:H:164:TYR:N	2.31	0.45
1:H:326:TYR:HD2	1:H:326:TYR:N	2.14	0.45
1:I:13:GLU:O	1:I:14:VAL:HG13	2.16	0.45
1:I:48:MET:HB2	1:I:62:GLU:C	2.36	0.45
1:I:64:ASP:O	1:I:66:VAL:N	2.47	0.45
1:I:397:TYR:O	1:I:397:TYR:HD2	1.99	0.45
1:J:48:MET:HB2	1:J:62:GLU:C	2.36	0.45
1:J:54:ILE:HG12	1:J:54:ILE:O	2.16	0.45
1:J:68:MET:O	1:J:86:ILE:HD11	2.16	0.45
1:J:91:ILE:HG23	1:J:92:LEU:H	1.81	0.45
1:J:111:ALA:HA	1:J:376:MET:HE2	1.97	0.45
1:J:120:ILE:CD1	1:J:382:ILE:CG2	2.94	0.45
1:J:124:VAL:C	1:J:125:LEU:HD23	2.35	0.45
1:J:377:ALA:O	1:J:379:LEU:N	2.49	0.45
1:J:397:TYR:O	1:J:397:TYR:HD2	1.99	0.45
1:J:449:GLU:O	1:J:450:ASP:C	2.54	0.45
1:K:2:ALA:C	1:K:6:LEU:HD23	2.35	0.45
1:K:296:TYR:HB3	1:K:382:ILE:N	2.31	0.45
1:L:2:ALA:O	1:L:6:LEU:CD2	2.63	0.45
1:L:111:ALA:HA	1:L:376:MET:HE2	1.98	0.45
1:A:449:GLU:OE1	1:G:465:TYR:HE2	1.98	0.45
1:B:2:ALA:O	1:B:6:LEU:CD2	2.63	0.45
1:B:148:HIS:HB2	1:H:148:HIS:CB	2.45	0.45
1:B:260:MET:HB3	1:H:144:ILE:O	2.17	0.45
1:B:290:LEU:HD11	1:B:345:ILE:HG21	1.96	0.45
1:C:93:GLU:OE1	1:C:93:GLU:CA	2.59	0.45
1:C:136:ASP:N	1:C:153:ASP:HB2	2.23	0.45
1:C:216:ALA:HB3	1:C:260:MET:HE2	1.98	0.45
1:C:291:SER:O	1:C:294:ALA:N	2.49	0.45
1:C:296:TYR:HB3	1:C:382:ILE:N	2.31	0.45
1:C:401:PRO:C	1:C:403:GLU:N	2.69	0.45
1:D:48:MET:HB2	1:D:62:GLU:C	2.36	0.45
1:D:68:MET:O	1:D:86:ILE:HD11	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:91:ILE:HG23	1:D:92:LEU:H	1.81	0.45
1:D:377:ALA:O	1:D:379:LEU:N	2.49	0.45
1:D:442:TYR:O	1:D:445:LEU:HB2	2.17	0.45
1:E:13:GLU:O	1:E:14:VAL:HG13	2.17	0.45
1:E:33:ILE:HD13	1:E:33:ILE:HA	1.75	0.45
1:E:64:ASP:O	1:E:66:VAL:N	2.47	0.45
1:E:68:MET:O	1:E:86:ILE:HD11	2.16	0.45
1:E:85:LEU:HD12	1:E:86:ILE:HD12	1.98	0.45
1:E:199:MET:HB3	1:E:204:LEU:CD1	2.45	0.45
1:E:461:GLU:HG2	1:K:316:THR:HB	1.97	0.45
1:F:387:HIS:HA	1:F:388:PRO:HD2	1.47	0.45
1:G:174:GLY:O	1:G:175:VAL:C	2.53	0.45
1:G:326:TYR:HD2	1:G:326:TYR:N	2.14	0.45
1:G:339:ARG:HH11	1:G:339:ARG:CA	2.29	0.45
1:H:68:MET:O	1:H:86:ILE:HD11	2.16	0.45
1:H:397:TYR:O	1:H:397:TYR:HD2	1.99	0.45
1:I:286:LYS:HE3	1:I:292:GLU:H	1.81	0.45
1:I:331:MET:HE3	1:I:396:LEU:HB2	1.97	0.45
1:I:377:ALA:O	1:I:379:LEU:N	2.50	0.45
1:I:399:LEU:C	1:I:401:PRO:CD	2.81	0.45
1:J:442:TYR:O	1:J:445:LEU:HB2	2.17	0.45
1:K:91:ILE:HG23	1:K:92:LEU:H	1.81	0.45
1:K:136:ASP:N	1:K:153:ASP:HB2	2.23	0.45
1:K:231:LYS:O	1:K:232:ALA:C	2.55	0.45
1:K:429:LYS:HA	1:K:434:PHE:O	2.16	0.45
1:L:13:GLU:O	1:L:14:VAL:HG13	2.17	0.45
1:L:200:GLU:O	1:L:201:GLN:C	2.53	0.45
1:A:48:MET:HB2	1:A:62:GLU:C	2.36	0.45
1:A:339:ARG:HH11	1:A:339:ARG:CA	2.30	0.45
1:B:13:GLU:O	1:B:14:VAL:HG13	2.17	0.45
1:B:13:GLU:C	1:B:14:VAL:O	2.54	0.45
1:B:411:ALA:O	1:B:412:GLY:C	2.53	0.45
1:B:465:TYR:HE2	1:H:449:GLU:OE1	1.98	0.45
1:C:39:ASN:HD22	1:C:39:ASN:N	2.12	0.45
1:C:304:HIS:O	1:C:305:ALA:C	2.54	0.45
1:C:377:ALA:O	1:C:379:LEU:N	2.49	0.45
1:C:429:LYS:HA	1:C:434:PHE:O	2.16	0.45
1:C:437:GLU:OE2	1:C:437:GLU:HA	2.15	0.45
1:D:25:LYS:HD2	1:D:25:LYS:HA	1.66	0.45
1:D:54:ILE:HG12	1:D:54:ILE:O	2.16	0.45
1:D:85:LEU:HD12	1:D:86:ILE:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:89:CYS:HB3	1:D:90:ASP:H	1.44	0.45
1:D:124:VAL:C	1:D:125:LEU:HD23	2.35	0.45
1:D:407:ILE:HA	1:D:408:PRO:HD3	1.71	0.45
1:E:228:MET:HE1	1:E:372:ALA:N	2.31	0.45
1:E:231:LYS:O	1:E:232:ALA:C	2.55	0.45
1:E:442:TYR:O	1:E:445:LEU:HB2	2.16	0.45
1:E:465:TYR:HD2	1:K:315:THR:CB	2.02	0.45
1:F:339:ARG:NH1	1:F:339:ARG:CA	2.79	0.45
1:G:68:MET:CA	1:G:70:ASP:OD2	2.64	0.45
1:G:199:MET:CE	1:G:238:TYR:CD2	2.99	0.45
1:H:85:LEU:HD12	1:H:86:ILE:HD12	1.98	0.45
1:H:401:PRO:C	1:H:403:GLU:N	2.69	0.45
1:I:401:PRO:C	1:I:403:GLU:N	2.69	0.45
1:J:137:ASP:OD2	1:J:139:ARG:HD3	2.16	0.45
1:J:189:GLN:C	1:J:191:ILE:N	2.67	0.45
1:J:231:LYS:O	1:J:232:ALA:C	2.55	0.45
1:J:296:TYR:HB3	1:J:382:ILE:N	2.31	0.45
1:J:337:ARG:HG3	1:J:338:ASN:H	1.77	0.45
1:K:26:GLY:O	1:K:27:LYS:CG	2.57	0.45
1:K:128:PRO:HD3	1:K:231:LYS:HG2	1.98	0.45
1:K:226:ASN:HB3	1:K:227:THR:H	1.52	0.45
1:K:304:HIS:O	1:K:305:ALA:C	2.54	0.45
1:K:367:PRO:HB3	1:K:371:PHE:CE1	2.51	0.45
1:K:377:ALA:O	1:K:379:LEU:N	2.49	0.45
1:K:401:PRO:C	1:K:403:GLU:N	2.69	0.45
1:K:428:LEU:HD12	1:K:428:LEU:HA	1.88	0.45
1:K:449:GLU:O	1:K:450:ASP:C	2.54	0.45
1:L:120:ILE:CD1	1:L:382:ILE:CG2	2.94	0.45
1:L:199:MET:CE	1:L:238:TYR:CD2	2.99	0.45
1:L:199:MET:HE2	1:L:238:TYR:CD2	2.52	0.45
1:L:297:TYR:C	1:L:299:GLY:N	2.66	0.45
1:L:305:ALA:O	1:L:308:ILE:HG13	2.16	0.45
1:A:68:MET:CA	1:A:70:ASP:OD2	2.64	0.45
1:A:350:SER:HA	1:A:351:PRO:HD2	1.65	0.45
1:B:120:ILE:CD1	1:B:382:ILE:CG2	2.94	0.45
1:B:199:MET:CE	1:B:238:TYR:CD2	2.99	0.45
1:B:317:ASN:CA	1:H:461:GLU:OE1	2.64	0.45
1:B:339:ARG:NH1	1:B:339:ARG:CA	2.79	0.45
1:B:403:GLU:CA	1:B:405:LYS:CG	2.86	0.45
1:B:403:GLU:N	1:B:405:LYS:HG2	2.29	0.45
1:C:199:MET:CE	1:C:238:TYR:CD2	2.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:449:GLU:O	1:C:450:ASP:C	2.54	0.45
1:D:7:THR:C	1:D:9:LEU:N	2.69	0.45
1:D:296:TYR:HB3	1:D:382:ILE:N	2.31	0.45
1:D:403:GLU:CB	1:D:406:GLU:CB	2.87	0.45
1:D:449:GLU:O	1:D:450:ASP:C	2.54	0.45
1:D:465:TYR:OH	1:J:449:GLU:CD	2.52	0.45
1:E:137:ASP:OD2	1:E:139:ARG:HD3	2.16	0.45
1:E:163:LYS:HG3	1:E:164:TYR:N	2.32	0.45
1:E:286:LYS:HE3	1:E:292:GLU:H	1.81	0.45
1:E:331:MET:HE2	1:E:396:LEU:HB2	1.97	0.45
1:F:2:ALA:O	1:F:6:LEU:CD2	2.63	0.45
1:F:163:LYS:HG3	1:F:164:TYR:N	2.32	0.45
1:F:296:TYR:HB3	1:F:382:ILE:N	2.31	0.45
1:F:326:TYR:HD2	1:F:326:TYR:N	2.14	0.45
1:F:379:LEU:O	1:F:380:ASP:C	2.55	0.45
1:F:442:TYR:O	1:F:445:LEU:HB2	2.16	0.45
1:F:461:GLU:OE1	1:L:317:ASN:CA	2.64	0.45
1:G:13:GLU:O	1:G:14:VAL:HG13	2.16	0.45
1:G:48:MET:HB2	1:G:62:GLU:C	2.36	0.45
1:G:154:ILE:O	1:G:155:GLU:CB	2.50	0.45
1:G:252:THR:OG1	1:L:169:LYS:HA	2.16	0.45
1:G:437:GLU:HB2	1:G:438:ALA:H	1.11	0.45
1:H:2:ALA:O	1:H:6:LEU:CD2	2.63	0.45
1:H:13:GLU:C	1:H:14:VAL:CG1	2.84	0.45
1:H:339:ARG:NH1	1:H:339:ARG:CA	2.79	0.45
1:I:68:MET:O	1:I:86:ILE:HD11	2.16	0.45
1:I:163:LYS:HG3	1:I:164:TYR:N	2.32	0.45
1:I:199:MET:HB3	1:I:204:LEU:CD1	2.45	0.45
1:I:228:MET:HE1	1:I:372:ALA:N	2.31	0.45
1:I:296:TYR:HB3	1:I:382:ILE:N	2.31	0.45
1:I:403:GLU:N	1:I:405:LYS:HG2	2.30	0.45
1:J:199:MET:HB3	1:J:204:LEU:CD1	2.46	0.45
1:J:283:SER:C	1:J:291:SER:HB3	2.30	0.45
1:J:399:LEU:HD23	1:J:402:GLU:CB	2.39	0.45
1:J:464:LEU:HD22	1:J:464:LEU:H	1.81	0.45
1:K:291:SER:O	1:K:294:ALA:N	2.49	0.45
1:K:296:TYR:HB3	1:K:382:ILE:CA	2.46	0.45
1:L:13:GLU:C	1:L:14:VAL:O	2.54	0.45
1:L:91:ILE:HG23	1:L:92:LEU:H	1.80	0.45
1:L:411:ALA:O	1:L:412:GLY:C	2.52	0.45
1:A:13:GLU:O	1:A:14:VAL:HG13	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:91:ILE:HG23	1:A:92:LEU:H	1.81	0.45
1:A:231:LYS:O	1:A:232:ALA:C	2.55	0.45
1:A:252:THR:HG21	1:G:466:TYR:CZ	2.33	0.45
1:A:326:TYR:HD2	1:A:326:TYR:N	2.14	0.45
1:A:465:TYR:HE2	1:G:449:GLU:OE1	1.99	0.45
1:B:291:SER:O	1:B:294:ALA:N	2.49	0.45
1:B:382:ILE:O	1:B:383:LYS:O	2.35	0.45
1:B:383:LYS:HB3	1:B:384:ASN:H	1.52	0.45
1:C:85:LEU:HD12	1:C:86:ILE:HD12	1.98	0.45
1:C:91:ILE:HG23	1:C:92:LEU:H	1.81	0.45
1:C:202:MET:HE2	1:C:202:MET:HA	1.97	0.45
1:C:231:LYS:O	1:C:232:ALA:C	2.55	0.45
1:C:296:TYR:HB3	1:C:382:ILE:CA	2.46	0.45
1:C:367:PRO:HB3	1:C:371:PHE:CE1	2.51	0.45
1:C:442:TYR:O	1:C:445:LEU:HB2	2.17	0.45
1:D:137:ASP:OD2	1:D:139:ARG:HD3	2.16	0.45
1:D:231:LYS:O	1:D:232:ALA:C	2.55	0.45
1:D:337:ARG:HG3	1:D:338:ASN:H	1.77	0.45
1:E:73:THR:O	1:E:84:THR:N	2.45	0.45
1:E:91:ILE:HG23	1:E:92:LEU:H	1.80	0.45
1:E:296:TYR:HB3	1:E:382:ILE:N	2.31	0.45
1:F:13:GLU:C	1:F:14:VAL:CG1	2.84	0.45
1:F:71:ALA:O	1:F:86:ILE:CG1	2.63	0.45
1:F:144:ILE:O	1:L:260:MET:HB3	2.17	0.45
1:F:148:HIS:CB	1:L:148:HIS:HB2	2.45	0.45
1:F:296:TYR:HB3	1:F:382:ILE:CA	2.46	0.45
1:G:350:SER:HA	1:G:351:PRO:HD2	1.65	0.45
1:G:376:MET:HE3	1:G:433:VAL:HG22	1.94	0.45
1:H:71:ALA:O	1:H:86:ILE:CG1	2.63	0.45
1:H:128:PRO:HD3	1:H:231:LYS:HG2	1.97	0.45
1:H:228:MET:HE1	1:H:371:PHE:C	2.37	0.45
1:H:305:ALA:O	1:H:308:ILE:HG13	2.16	0.45
1:H:399:LEU:HD23	1:H:402:GLU:CB	2.39	0.45
1:H:442:TYR:O	1:H:445:LEU:HB2	2.17	0.45
1:H:464:LEU:H	1:H:464:LEU:HD22	1.81	0.45
1:I:85:LEU:HD12	1:I:86:ILE:HD12	1.98	0.45
1:I:338:ASN:O	1:I:341:ALA:HB2	2.16	0.45
1:I:376:MET:HE2	1:I:433:VAL:HG21	1.98	0.45
1:I:383:LYS:CE	1:I:384:ASN:N	2.74	0.45
1:I:442:TYR:O	1:I:445:LEU:HB2	2.17	0.45
1:J:286:LYS:HE3	1:J:292:GLU:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:314:PRO:O	1:J:315:THR:C	2.42	0.45
1:J:401:PRO:C	1:J:403:GLU:N	2.69	0.45
1:K:442:TYR:O	1:K:445:LEU:HB2	2.17	0.45
1:L:7:THR:C	1:L:9:LEU:N	2.69	0.45
1:L:68:MET:O	1:L:86:ILE:HD11	2.16	0.45
1:L:85:LEU:HD12	1:L:86:ILE:HD12	1.98	0.45
1:L:291:SER:O	1:L:294:ALA:N	2.49	0.45
1:L:339:ARG:NH1	1:L:339:ARG:CA	2.79	0.45
1:L:383:LYS:HB3	1:L:384:ASN:H	1.52	0.45
1:A:13:GLU:C	1:A:14:VAL:O	2.54	0.45
1:A:154:ILE:O	1:A:155:GLU:CB	2.50	0.45
1:A:164:TYR:O	1:A:165:GLU:CB	2.65	0.45
1:A:403:GLU:N	1:A:405:LYS:HG2	2.30	0.45
1:A:416:GLU:O	1:A:419:ASN:HB2	2.15	0.45
1:B:137:ASP:OD2	1:B:139:ARG:HD3	2.16	0.45
1:B:199:MET:HE2	1:B:238:TYR:CD2	2.52	0.45
1:B:367:PRO:HB3	1:B:371:PHE:CE1	2.51	0.45
1:B:442:TYR:O	1:B:445:LEU:HB2	2.17	0.45
1:C:103:ASP:CG	1:C:106:SER:CB	2.83	0.45
1:D:13:GLU:O	1:D:14:VAL:HG13	2.17	0.45
1:E:75:VAL:HG22	1:E:84:THR:HG21	1.98	0.45
1:E:429:LYS:HA	1:E:434:PHE:O	2.16	0.45
1:F:305:ALA:O	1:F:308:ILE:HG13	2.16	0.45
1:F:339:ARG:HH11	1:F:339:ARG:CA	2.30	0.45
1:F:464:LEU:HD22	1:F:464:LEU:H	1.81	0.45
1:G:164:TYR:O	1:G:165:GLU:CB	2.65	0.45
1:G:231:LYS:O	1:G:232:ALA:C	2.55	0.45
1:H:296:TYR:HB3	1:H:382:ILE:CA	2.46	0.45
1:H:387:HIS:HA	1:H:388:PRO:HD2	1.46	0.45
1:H:437:GLU:HB2	1:H:438:ALA:H	1.11	0.45
1:I:136:ASP:N	1:I:153:ASP:HB2	2.23	0.45
1:J:7:THR:C	1:J:9:LEU:N	2.69	0.45
1:J:85:LEU:HD12	1:J:86:ILE:HD12	1.98	0.45
1:J:163:LYS:NZ	1:J:163:LYS:CB	2.74	0.45
1:K:39:ASN:HD22	1:K:39:ASN:N	2.12	0.45
1:K:85:LEU:HD12	1:K:86:ILE:HD12	1.98	0.45
1:K:433:VAL:H	1:K:433:VAL:HG12	1.37	0.45
1:L:16:PHE:HD1	1:L:79:PHE:CE1	2.27	0.45
1:L:137:ASP:OD2	1:L:139:ARG:HD3	2.16	0.45
1:L:326:TYR:HD2	1:L:326:TYR:N	2.14	0.45
1:L:382:ILE:O	1:L:383:LYS:O	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:403:GLU:N	1:L:405:LYS:HG2	2.30	0.45
1:L:429:LYS:HA	1:L:434:PHE:O	2.16	0.45
1:A:163:LYS:HG3	1:A:164:TYR:N	2.32	0.45
1:A:355:ARG:HH11	1:A:355:ARG:HD2	1.56	0.45
1:B:7:THR:C	1:B:9:LEU:N	2.69	0.45
1:B:85:LEU:HD12	1:B:86:ILE:HD12	1.98	0.45
1:B:305:ALA:O	1:B:308:ILE:HG13	2.16	0.45
1:B:351:PRO:HG2	1:B:352:LYS:H	1.79	0.45
1:C:43:PHE:CE2	1:C:69:PRO:HB3	2.44	0.45
1:C:212:GLU:HB3	1:C:213:VAL:H	1.61	0.45
1:D:2:ALA:O	1:D:6:LEU:CD2	2.63	0.45
1:D:102:ARG:HB2	1:D:104:PRO:CD	2.11	0.45
1:D:164:TYR:CE1	1:D:168:ASN:ND2	2.85	0.45
1:D:283:SER:C	1:D:291:SER:HB3	2.30	0.45
1:D:401:PRO:C	1:D:403:GLU:N	2.69	0.45
1:D:464:LEU:H	1:D:464:LEU:HD22	1.81	0.45
1:E:12:HIS:O	1:E:13:GLU:CB	2.43	0.45
1:F:75:VAL:HG22	1:F:84:THR:HG21	1.98	0.45
1:F:155:GLU:HA	1:F:172:ARG:HB2	1.99	0.45
1:F:286:LYS:HE3	1:F:292:GLU:H	1.81	0.45
1:F:317:ASN:CA	1:L:461:GLU:OE1	2.64	0.45
1:F:401:PRO:C	1:F:403:GLU:N	2.69	0.45
1:F:449:GLU:OE1	1:L:465:TYR:HE2	1.98	0.45
1:G:91:ILE:HG23	1:G:92:LEU:H	1.81	0.45
1:G:397:TYR:O	1:G:397:TYR:HD2	1.99	0.45
1:G:403:GLU:CA	1:G:405:LYS:CG	2.86	0.45
1:G:416:GLU:O	1:G:419:ASN:HB2	2.15	0.45
1:H:13:GLU:O	1:H:14:VAL:HG13	2.17	0.45
1:H:75:VAL:HG22	1:H:84:THR:HG21	1.98	0.45
1:H:296:TYR:HB3	1:H:382:ILE:N	2.31	0.45
1:I:271:HIS:HD2	1:I:357:GLU:HG3	1.81	0.45
1:I:291:SER:O	1:I:294:ALA:N	2.49	0.45
1:J:2:ALA:O	1:J:6:LEU:CD2	2.63	0.45
1:J:13:GLU:O	1:J:14:VAL:HG13	2.17	0.45
1:J:102:ARG:HB2	1:J:104:PRO:CD	2.11	0.45
1:J:153:ASP:O	1:J:154:ILE:C	2.54	0.45
1:J:350:SER:HA	1:J:351:PRO:HD2	1.65	0.45
1:K:199:MET:CE	1:K:238:TYR:CD2	2.99	0.45
1:L:153:ASP:O	1:L:154:ILE:C	2.54	0.45
1:L:403:GLU:CA	1:L:405:LYS:CG	2.86	0.45
1:A:110:ARG:O	1:A:114:TYR:N	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:68:MET:O	1:B:86:ILE:HD11	2.16	0.45
1:B:326:TYR:HD2	1:B:326:TYR:N	2.14	0.45
1:B:429:LYS:HA	1:B:434:PHE:O	2.16	0.45
1:B:461:GLU:OE1	1:H:317:ASN:CA	2.65	0.45
1:C:19:LEU:HD22	1:C:240:TYR:HH	1.76	0.45
1:C:433:VAL:H	1:C:433:VAL:HG12	1.37	0.45
1:D:153:ASP:O	1:D:154:ILE:C	2.54	0.45
1:D:163:LYS:NZ	1:D:163:LYS:CB	2.74	0.45
1:D:228:MET:HE1	1:D:371:PHE:C	2.37	0.45
1:D:286:LYS:HE3	1:D:292:GLU:H	1.81	0.45
1:E:136:ASP:N	1:E:153:ASP:HB2	2.23	0.45
1:E:305:ALA:O	1:E:308:ILE:HG13	2.16	0.45
1:F:13:GLU:O	1:F:14:VAL:HG13	2.17	0.45
1:F:48:MET:HB2	1:F:62:GLU:C	2.36	0.45
1:F:120:ILE:CD1	1:F:382:ILE:CG2	2.94	0.45
1:G:338:ASN:O	1:G:341:ALA:HB2	2.16	0.45
1:G:382:ILE:O	1:G:383:LYS:O	2.35	0.45
1:G:387:HIS:HA	1:G:388:PRO:HD2	1.46	0.45
1:G:403:GLU:N	1:G:405:LYS:HG2	2.30	0.45
1:H:301:VAL:O	1:H:305:ALA:N	2.50	0.45
1:H:339:ARG:HH11	1:H:339:ARG:CA	2.30	0.45
1:H:380:ASP:CA	1:H:383:LYS:HB2	2.45	0.45
1:I:33:ILE:HD13	1:I:33:ILE:HA	1.75	0.45
1:I:73:THR:O	1:I:84:THR:N	2.45	0.45
1:I:91:ILE:HG23	1:I:92:LEU:H	1.81	0.45
1:I:233:ASP:HB3	1:I:368:TYR:OH	2.17	0.45
1:I:305:ALA:O	1:I:308:ILE:HG13	2.16	0.45
1:I:316:THR:O	1:I:317:ASN:C	2.53	0.45
1:I:433:VAL:H	1:I:433:VAL:HG12	1.37	0.45
1:J:164:TYR:CE1	1:J:168:ASN:ND2	2.85	0.45
1:J:228:MET:HE1	1:J:371:PHE:C	2.37	0.45
1:K:326:TYR:HD2	1:K:326:TYR:N	2.14	0.45
1:L:202:MET:HE2	1:L:202:MET:HA	1.98	0.45
1:L:442:TYR:O	1:L:445:LEU:HB2	2.17	0.45
1:A:291:SER:O	1:A:294:ALA:N	2.49	0.45
1:A:382:ILE:O	1:A:383:LYS:O	2.35	0.45
1:B:110:ARG:HH11	1:B:110:ARG:HD3	1.60	0.45
1:B:164:TYR:O	1:B:165:GLU:CB	2.65	0.45
1:B:286:LYS:HE3	1:B:292:GLU:H	1.81	0.45
1:C:75:VAL:CG2	1:C:84:THR:CB	2.90	0.45
1:C:245:VAL:O	1:C:249:PHE:N	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:338:ASN:O	1:C:341:ALA:HB2	2.16	0.45
1:D:164:TYR:O	1:D:165:GLU:CB	2.65	0.45
1:D:311:LEU:HD23	1:D:311:LEU:HA	1.54	0.45
1:D:429:LYS:HA	1:D:434:PHE:O	2.16	0.45
1:E:233:ASP:HB3	1:E:368:TYR:OH	2.17	0.45
1:E:260:MET:HB3	1:K:144:ILE:O	2.17	0.45
1:E:338:ASN:O	1:E:341:ALA:HB2	2.16	0.45
1:F:24:THR:HB	1:F:26:GLY:N	2.30	0.45
1:F:260:MET:HB3	1:L:144:ILE:O	2.17	0.45
1:F:301:VAL:O	1:F:305:ALA:N	2.50	0.45
1:G:13:GLU:C	1:G:14:VAL:O	2.54	0.45
1:G:58:LYS:HG3	1:L:339:ARG:CA	2.45	0.45
1:G:163:LYS:HG3	1:G:164:TYR:N	2.32	0.45
1:G:175:VAL:CA	1:G:215:THR:HG23	2.43	0.45
1:G:291:SER:O	1:G:294:ALA:N	2.49	0.45
1:H:48:MET:HB2	1:H:62:GLU:C	2.36	0.45
1:H:286:LYS:HE3	1:H:292:GLU:H	1.81	0.45
1:I:75:VAL:HG22	1:I:84:THR:HG21	1.98	0.45
1:I:331:MET:HE1	1:I:396:LEU:HA	1.99	0.45
1:I:379:LEU:O	1:I:380:ASP:C	2.55	0.45
1:I:429:LYS:HA	1:I:434:PHE:O	2.16	0.45
1:J:134:LEU:HD12	1:J:134:LEU:HA	1.80	0.45
1:J:326:TYR:HD2	1:J:326:TYR:N	2.14	0.45
1:K:137:ASP:OD2	1:K:139:ARG:HD3	2.16	0.45
1:K:212:GLU:HB3	1:K:213:VAL:H	1.61	0.45
1:K:338:ASN:O	1:K:341:ALA:HB2	2.16	0.45
1:L:103:ASP:N	1:L:104:PRO:CD	2.60	0.45
1:L:231:LYS:O	1:L:232:ALA:C	2.55	0.45
1:L:348:VAL:CG1	1:L:354:ARG:HA	2.47	0.45
1:L:367:PRO:HB3	1:L:371:PHE:CE1	2.51	0.45
1:A:58:LYS:HG3	1:B:339:ARG:CA	2.45	0.45
1:A:164:TYR:CE1	1:A:168:ASN:ND2	2.85	0.45
1:A:199:MET:HE1	1:A:238:TYR:CE2	2.52	0.45
1:A:297:TYR:O	1:A:298:ILE:C	2.55	0.45
1:A:338:ASN:O	1:A:341:ALA:HB2	2.16	0.45
1:A:397:TYR:O	1:A:397:TYR:HD2	1.99	0.45
1:B:202:MET:HE2	1:B:202:MET:HA	1.98	0.45
1:B:216:ALA:HB3	1:B:260:MET:CE	2.47	0.45
1:B:228:MET:HE2	1:B:371:PHE:CA	2.47	0.45
1:B:231:LYS:O	1:B:232:ALA:C	2.55	0.45
1:B:338:ASN:O	1:B:341:ALA:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:348:VAL:CG1	1:B:354:ARG:HA	2.47	0.45
1:C:155:GLU:HA	1:C:172:ARG:HB2	1.99	0.45
1:C:233:ASP:HB3	1:C:368:TYR:OH	2.17	0.45
1:C:326:TYR:HD2	1:C:326:TYR:N	2.14	0.45
1:D:30:HIS:O	1:E:180:PHE:CB	2.42	0.45
1:D:260:MET:HB3	1:J:144:ILE:O	2.17	0.45
1:D:304:HIS:O	1:D:305:ALA:C	2.54	0.45
1:D:325:GLY:N	1:D:328:ALA:HB3	2.32	0.45
1:E:331:MET:HE3	1:E:396:LEU:HA	1.99	0.45
1:E:348:VAL:O	1:E:349:ALA:HB3	2.17	0.45
1:E:465:TYR:HD2	1:K:315:THR:OG1	1.81	0.45
1:F:126:PHE:CE1	1:F:228:MET:CE	3.00	0.45
1:F:164:TYR:O	1:F:165:GLU:CB	2.65	0.45
1:F:348:VAL:O	1:F:349:ALA:HB3	2.17	0.45
1:G:297:TYR:O	1:G:298:ILE:C	2.55	0.45
1:H:13:GLU:C	1:H:14:VAL:O	2.54	0.45
1:H:24:THR:HB	1:H:26:GLY:N	2.30	0.45
1:H:155:GLU:HA	1:H:172:ARG:HB2	1.99	0.45
1:H:164:TYR:O	1:H:165:GLU:CB	2.65	0.45
1:H:182:VAL:CG2	1:I:28:GLU:HG2	2.47	0.45
1:H:258:LYS:HD3	1:H:320:LYS:O	2.17	0.45
1:H:348:VAL:O	1:H:349:ALA:HB3	2.17	0.45
1:H:390:GLU:HB3	1:H:391:PRO:CD	2.44	0.45
1:I:301:VAL:O	1:I:305:ALA:N	2.50	0.45
1:I:348:VAL:O	1:I:349:ALA:HB3	2.17	0.45
1:I:464:LEU:H	1:I:464:LEU:HD22	1.81	0.45
1:J:93:GLU:OE1	1:J:93:GLU:CA	2.58	0.45
1:J:164:TYR:O	1:J:165:GLU:CB	2.65	0.45
1:J:304:HIS:O	1:J:305:ALA:C	2.54	0.45
1:J:308:ILE:HG12	1:J:308:ILE:H	1.37	0.45
1:J:403:GLU:CB	1:J:406:GLU:CB	2.87	0.45
1:K:13:GLU:O	1:K:14:VAL:HG13	2.16	0.45
1:K:155:GLU:HA	1:K:172:ARG:HB2	1.99	0.45
1:K:258:LYS:HD3	1:K:320:LYS:O	2.17	0.45
1:K:286:LYS:HE3	1:K:292:GLU:H	1.81	0.45
1:K:382:ILE:O	1:K:383:LYS:O	2.35	0.45
1:L:164:TYR:O	1:L:165:GLU:CB	2.65	0.45
1:L:286:LYS:HE3	1:L:292:GLU:H	1.81	0.45
1:A:28:GLU:HG2	1:B:182:VAL:CG2	2.47	0.44
1:A:180:PHE:CB	1:F:30:HIS:O	2.42	0.44
1:A:260:MET:HB3	1:G:144:ILE:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:286:LYS:HE3	1:A:292:GLU:H	1.81	0.44
1:A:301:VAL:O	1:A:305:ALA:N	2.50	0.44
1:A:348:VAL:CG1	1:A:354:ARG:HA	2.47	0.44
1:A:403:GLU:CA	1:A:405:LYS:CG	2.86	0.44
1:A:449:GLU:CD	1:G:465:TYR:OH	2.52	0.44
1:B:144:ILE:O	1:H:260:MET:HB3	2.17	0.44
1:B:153:ASP:O	1:B:154:ILE:C	2.54	0.44
1:B:258:LYS:HD3	1:B:320:LYS:O	2.17	0.44
1:B:339:ARG:HH11	1:B:339:ARG:CA	2.29	0.44
1:C:137:ASP:OD2	1:C:139:ARG:HD3	2.16	0.44
1:C:286:LYS:HE3	1:C:292:GLU:H	1.81	0.44
1:C:382:ILE:O	1:C:383:LYS:O	2.35	0.44
1:C:449:GLU:OE1	1:I:465:TYR:HE2	1.98	0.44
1:D:93:GLU:OE1	1:D:93:GLU:CA	2.58	0.44
1:D:348:VAL:O	1:D:349:ALA:HB3	2.17	0.44
1:E:164:TYR:CE1	1:E:168:ASN:ND2	2.85	0.44
1:E:301:VAL:O	1:E:305:ALA:N	2.50	0.44
1:E:339:ARG:NH1	1:E:339:ARG:CA	2.79	0.44
1:F:13:GLU:C	1:F:14:VAL:O	2.54	0.44
1:F:258:LYS:HD3	1:F:320:LYS:O	2.17	0.44
1:F:291:SER:O	1:F:294:ALA:N	2.49	0.44
1:F:380:ASP:CA	1:F:383:LYS:HB2	2.46	0.44
1:G:164:TYR:CE1	1:G:168:ASN:ND2	2.85	0.44
1:G:286:LYS:HE3	1:G:292:GLU:H	1.81	0.44
1:H:120:ILE:CD1	1:H:382:ILE:CG2	2.94	0.44
1:H:126:PHE:CE1	1:H:228:MET:CE	3.00	0.44
1:H:271:HIS:HD2	1:H:357:GLU:HG3	1.82	0.44
1:H:291:SER:O	1:H:294:ALA:N	2.49	0.44
1:I:2:ALA:C	1:I:4:HIS:N	2.69	0.44
1:I:164:TYR:CE1	1:I:168:ASN:ND2	2.85	0.44
1:J:2:ALA:C	1:J:4:HIS:N	2.69	0.44
1:J:64:ASP:O	1:J:66:VAL:N	2.47	0.44
1:J:294:ALA:C	1:J:298:ILE:CD1	2.82	0.44
1:J:325:GLY:N	1:J:328:ALA:HB3	2.33	0.44
1:J:339:ARG:HH11	1:J:339:ARG:CA	2.29	0.44
1:J:367:PRO:HB3	1:J:371:PHE:CE1	2.51	0.44
1:J:429:LYS:HA	1:J:434:PHE:O	2.16	0.44
1:K:75:VAL:CG2	1:K:84:THR:CB	2.90	0.44
1:K:233:ASP:HB3	1:K:368:TYR:OH	2.17	0.44
1:K:245:VAL:O	1:K:249:PHE:N	2.48	0.44
1:K:421:LEU:CD2	1:K:443:ILE:HD11	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:216:ALA:HB3	1:L:260:MET:CE	2.48	0.44
1:L:245:VAL:O	1:L:249:PHE:N	2.48	0.44
1:L:339:ARG:HH11	1:L:339:ARG:CA	2.29	0.44
1:L:464:LEU:H	1:L:464:LEU:HD22	1.81	0.44
1:A:182:VAL:CG2	1:F:28:GLU:HG2	2.47	0.44
1:B:41:GLU:O	1:B:42:PHE:C	2.56	0.44
1:B:155:GLU:HA	1:B:172:ARG:HB2	1.99	0.44
1:B:245:VAL:O	1:B:249:PHE:N	2.48	0.44
1:B:271:HIS:HD2	1:B:357:GLU:HG3	1.81	0.44
1:B:464:LEU:HD22	1:B:464:LEU:H	1.81	0.44
1:C:258:LYS:HD3	1:C:320:LYS:O	2.17	0.44
1:C:348:VAL:CG1	1:C:354:ARG:HA	2.48	0.44
1:D:28:GLU:HG2	1:E:182:VAL:CG2	2.47	0.44
1:D:258:LYS:HD3	1:D:320:LYS:O	2.17	0.44
1:D:301:VAL:O	1:D:305:ALA:N	2.50	0.44
1:E:28:GLU:HG2	1:F:182:VAL:CG2	2.47	0.44
1:E:68:MET:CA	1:E:70:ASP:OD2	2.64	0.44
1:E:164:TYR:O	1:E:165:GLU:CB	2.65	0.44
1:E:271:HIS:HD2	1:E:357:GLU:HG3	1.82	0.44
1:E:291:SER:O	1:E:294:ALA:N	2.50	0.44
1:E:317:ASN:CA	1:K:461:GLU:OE1	2.64	0.44
1:E:325:GLY:N	1:E:328:ALA:HB3	2.32	0.44
1:E:367:PRO:HB3	1:E:371:PHE:CE1	2.51	0.44
1:E:399:LEU:HD23	1:E:402:GLU:CB	2.40	0.44
1:E:464:LEU:H	1:E:464:LEU:HD22	1.81	0.44
1:F:297:TYR:O	1:F:298:ILE:C	2.55	0.44
1:G:28:GLU:HG2	1:L:182:VAL:CG2	2.47	0.44
1:G:180:PHE:CB	1:H:30:HIS:O	2.42	0.44
1:G:301:VAL:O	1:G:305:ALA:N	2.50	0.44
1:G:348:VAL:CG1	1:G:354:ARG:HA	2.47	0.44
1:G:355:ARG:HH11	1:G:355:ARG:HD2	1.56	0.44
1:H:216:ALA:HB3	1:H:260:MET:HE2	1.98	0.44
1:H:297:TYR:O	1:H:298:ILE:C	2.55	0.44
1:I:126:PHE:CE1	1:I:228:MET:CE	3.00	0.44
1:I:325:GLY:N	1:I:328:ALA:HB3	2.32	0.44
1:I:348:VAL:CG1	1:I:354:ARG:HA	2.47	0.44
1:J:258:LYS:HD3	1:J:320:LYS:O	2.17	0.44
1:J:433:VAL:O	1:J:434:PHE:CB	2.58	0.44
1:K:43:PHE:CE2	1:K:69:PRO:HB3	2.45	0.44
1:K:216:ALA:HB3	1:K:260:MET:HE2	1.99	0.44
1:K:325:GLY:N	1:K:328:ALA:HB3	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:348:VAL:CG1	1:K:354:ARG:HA	2.48	0.44
1:L:20:ARG:HD2	1:L:237:ILE:CD1	2.48	0.44
1:L:338:ASN:O	1:L:341:ALA:HB2	2.17	0.44
1:A:27:LYS:HZ3	1:A:239:LYS:HZ1	0.46	0.44
1:A:126:PHE:CE1	1:A:228:MET:CE	3.00	0.44
1:A:144:ILE:O	1:G:260:MET:HB3	2.17	0.44
1:A:175:VAL:CA	1:A:215:THR:HG23	2.43	0.44
1:B:16:PHE:HD1	1:B:79:PHE:CE1	2.27	0.44
1:B:348:VAL:HG12	1:B:354:ARG:HA	1.99	0.44
1:C:13:GLU:O	1:C:14:VAL:HG13	2.17	0.44
1:C:144:ILE:O	1:I:260:MET:HB3	2.17	0.44
1:D:17:VAL:O	1:D:18:ASP:CB	2.66	0.44
1:D:305:ALA:O	1:D:308:ILE:HG13	2.16	0.44
1:D:350:SER:HA	1:D:351:PRO:HD2	1.65	0.44
1:E:2:ALA:C	1:E:4:HIS:N	2.69	0.44
1:E:126:PHE:CE1	1:E:228:MET:CE	3.01	0.44
1:E:348:VAL:CG1	1:E:354:ARG:HA	2.47	0.44
1:F:68:MET:HB3	1:F:70:ASP:OD1	2.17	0.44
1:G:182:VAL:CG2	1:H:28:GLU:HG2	2.47	0.44
1:H:48:MET:O	1:H:48:MET:HG2	2.18	0.44
1:H:325:GLY:N	1:H:328:ALA:HB3	2.33	0.44
1:I:12:HIS:O	1:I:13:GLU:CB	2.43	0.44
1:I:68:MET:CA	1:I:70:ASP:OD2	2.64	0.44
1:I:155:GLU:HA	1:I:172:ARG:HB2	1.99	0.44
1:I:180:PHE:CB	1:J:30:HIS:O	2.42	0.44
1:I:182:VAL:CG2	1:J:28:GLU:HG2	2.47	0.44
1:I:382:ILE:O	1:I:383:LYS:O	2.35	0.44
1:J:348:VAL:O	1:J:349:ALA:HB3	2.17	0.44
1:K:19:LEU:HD22	1:K:240:TYR:HH	1.76	0.44
1:K:164:TYR:CE1	1:K:168:ASN:ND2	2.85	0.44
1:K:164:TYR:O	1:K:165:GLU:CB	2.65	0.44
1:K:305:ALA:O	1:K:308:ILE:HG13	2.16	0.44
1:L:41:GLU:O	1:L:42:PHE:C	2.56	0.44
1:L:155:GLU:HA	1:L:172:ARG:HB2	1.99	0.44
1:L:258:LYS:HD3	1:L:320:LYS:O	2.17	0.44
1:L:348:VAL:HG12	1:L:354:ARG:HA	1.99	0.44
1:A:90:ASP:OD2	1:A:90:ASP:N	2.18	0.44
1:A:442:TYR:O	1:A:445:LEU:HB2	2.17	0.44
1:A:465:TYR:OH	1:G:449:GLU:CD	2.52	0.44
1:C:164:TYR:CE1	1:C:168:ASN:ND2	2.85	0.44
1:C:294:ALA:C	1:C:298:ILE:CD1	2.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:305:ALA:O	1:C:308:ILE:HG13	2.16	0.44
1:C:317:ASN:CA	1:I:461:GLU:OE1	2.64	0.44
1:C:325:GLY:N	1:C:328:ALA:HB3	2.33	0.44
1:D:2:ALA:C	1:D:4:HIS:N	2.69	0.44
1:D:64:ASP:O	1:D:66:VAL:N	2.47	0.44
1:D:67:LEU:CD1	1:D:68:MET:HE3	2.48	0.44
1:D:144:ILE:O	1:J:260:MET:HB3	2.17	0.44
1:D:326:TYR:HD2	1:D:326:TYR:N	2.14	0.44
1:D:339:ARG:HH11	1:D:339:ARG:CA	2.30	0.44
1:D:367:PRO:HB3	1:D:371:PHE:CE1	2.51	0.44
1:D:433:VAL:O	1:D:434:PHE:CB	2.58	0.44
1:E:67:LEU:HD12	1:E:68:MET:CG	2.26	0.44
1:E:155:GLU:HA	1:E:172:ARG:HB2	1.99	0.44
1:E:297:TYR:CZ	1:E:378:GLY:HA3	2.52	0.44
1:E:304:HIS:O	1:E:305:ALA:C	2.54	0.44
1:E:306:LYS:O	1:E:307:ALA:C	2.56	0.44
1:E:376:MET:HE2	1:E:433:VAL:HG21	1.99	0.44
1:E:382:ILE:O	1:E:383:LYS:O	2.35	0.44
1:F:48:MET:O	1:F:48:MET:HG2	2.18	0.44
1:F:325:GLY:N	1:F:328:ALA:HB3	2.33	0.44
1:F:379:LEU:C	1:F:379:LEU:CD1	2.82	0.44
1:F:390:GLU:HB3	1:F:391:PRO:CD	2.45	0.44
1:G:294:ALA:C	1:G:298:ILE:CD1	2.82	0.44
1:G:442:TYR:O	1:G:445:LEU:HB2	2.17	0.44
1:H:379:LEU:C	1:H:379:LEU:CD1	2.82	0.44
1:I:7:THR:C	1:I:9:LEU:N	2.69	0.44
1:I:164:TYR:O	1:I:165:GLU:CB	2.65	0.44
1:I:297:TYR:CZ	1:I:378:GLY:HA3	2.52	0.44
1:I:304:HIS:O	1:I:305:ALA:C	2.54	0.44
1:I:339:ARG:NH1	1:I:339:ARG:CA	2.79	0.44
1:I:367:PRO:HB3	1:I:371:PHE:CE1	2.52	0.44
1:J:17:VAL:O	1:J:18:ASP:CB	2.66	0.44
1:J:67:LEU:CD1	1:J:68:MET:HE3	2.48	0.44
1:J:301:VAL:O	1:J:305:ALA:N	2.50	0.44
1:K:33:ILE:HD13	1:K:33:ILE:HA	1.75	0.44
1:K:216:ALA:HB3	1:K:260:MET:CE	2.47	0.44
1:K:294:ALA:C	1:K:298:ILE:CD1	2.82	0.44
1:K:426:GLU:OE1	1:K:426:GLU:HA	2.17	0.44
1:A:20:ARG:HD2	1:A:237:ILE:CD1	2.48	0.44
1:A:140:PHE:CE2	1:G:463:GLU:HA	2.52	0.44
1:A:294:ALA:C	1:A:298:ILE:CD1	2.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:387:HIS:HA	1:A:388:PRO:HD2	1.46	0.44
1:A:463:GLU:HA	1:G:140:PHE:CE2	2.52	0.44
1:B:164:TYR:CE1	1:B:168:ASN:ND2	2.85	0.44
1:B:233:ASP:HB3	1:B:368:TYR:OH	2.17	0.44
1:B:235:ILE:HG21	1:B:367:PRO:HG3	2.00	0.44
1:C:17:VAL:O	1:C:18:ASP:CB	2.66	0.44
1:C:126:PHE:CE1	1:C:228:MET:CE	3.01	0.44
1:C:164:TYR:O	1:C:165:GLU:CB	2.65	0.44
1:C:260:MET:HB3	1:I:144:ILE:O	2.17	0.44
1:C:306:LYS:O	1:C:307:ALA:C	2.56	0.44
1:C:376:MET:CE	1:C:433:VAL:HG13	2.40	0.44
1:D:68:MET:HB3	1:D:70:ASP:OD1	2.17	0.44
1:D:297:TYR:CZ	1:D:378:GLY:HA3	2.53	0.44
1:D:348:VAL:CG1	1:D:354:ARG:HA	2.47	0.44
1:E:13:GLU:C	1:E:14:VAL:CG1	2.84	0.44
1:E:216:ALA:HB3	1:E:260:MET:CE	2.47	0.44
1:E:461:GLU:OE1	1:K:317:ASN:CA	2.65	0.44
1:E:465:TYR:HE2	1:K:449:GLU:OE1	1.99	0.44
1:F:164:TYR:CE1	1:F:168:ASN:ND2	2.85	0.44
1:F:271:HIS:HD2	1:F:357:GLU:HG3	1.82	0.44
1:F:338:ASN:O	1:F:341:ALA:HB2	2.16	0.44
1:G:20:ARG:HD2	1:G:237:ILE:CD1	2.48	0.44
1:I:13:GLU:C	1:I:14:VAL:CG1	2.84	0.44
1:I:216:ALA:HB3	1:I:260:MET:CE	2.47	0.44
1:I:390:GLU:HB3	1:I:391:PRO:CD	2.45	0.44
1:I:399:LEU:HD23	1:I:402:GLU:CB	2.39	0.44
1:I:407:ILE:HA	1:I:408:PRO:HD3	1.71	0.44
1:J:48:MET:O	1:J:48:MET:HG2	2.18	0.44
1:J:305:ALA:O	1:J:308:ILE:HG13	2.16	0.44
1:K:17:VAL:O	1:K:18:ASP:CB	2.66	0.44
1:K:126:PHE:CE1	1:K:228:MET:CE	3.00	0.44
1:K:199:MET:HG2	1:K:204:LEU:HD11	2.00	0.44
1:L:25:LYS:HD2	1:L:25:LYS:HA	1.67	0.44
1:L:110:ARG:HH11	1:L:110:ARG:HD3	1.60	0.44
1:L:164:TYR:CE1	1:L:168:ASN:ND2	2.85	0.44
1:L:235:ILE:HG21	1:L:367:PRO:HG3	2.00	0.44
1:L:379:LEU:O	1:L:380:ASP:C	2.55	0.44
1:B:379:LEU:O	1:B:380:ASP:C	2.55	0.44
1:C:199:MET:HG2	1:C:204:LEU:HD11	2.00	0.44
1:C:216:ALA:HB3	1:C:260:MET:CE	2.48	0.44
1:C:271:HIS:HD2	1:C:357:GLU:HG3	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:297:TYR:O	1:C:298:ILE:C	2.56	0.44
1:C:315:THR:OG1	1:I:465:TYR:HD2	1.81	0.44
1:C:426:GLU:OE1	1:C:426:GLU:HA	2.18	0.44
1:C:461:GLU:OE1	1:I:317:ASN:CA	2.65	0.44
1:E:110:ARG:HH11	1:E:110:ARG:HD3	1.60	0.44
1:E:144:ILE:O	1:K:260:MET:HB3	2.17	0.44
1:E:172:ARG:CB	1:E:173:PRO:CD	2.89	0.44
1:E:339:ARG:HH11	1:E:339:ARG:CA	2.29	0.44
1:H:68:MET:HB3	1:H:70:ASP:OD1	2.17	0.44
1:H:348:VAL:CG1	1:H:354:ARG:HA	2.47	0.44
1:I:17:VAL:O	1:I:18:ASP:CB	2.66	0.44
1:J:297:TYR:CZ	1:J:378:GLY:HA3	2.53	0.44
1:J:306:LYS:O	1:J:307:ALA:C	2.56	0.44
1:J:379:LEU:O	1:J:380:ASP:C	2.55	0.44
1:K:48:MET:HB2	1:K:62:GLU:C	2.36	0.44
1:K:93:GLU:H	1:K:96:THR:HA	1.83	0.44
1:K:297:TYR:O	1:K:298:ILE:C	2.56	0.44
1:K:301:VAL:HG23	1:K:301:VAL:H	1.32	0.44
1:K:306:LYS:O	1:K:307:ALA:C	2.56	0.44
1:L:68:MET:HB3	1:L:70:ASP:OD1	2.17	0.44
1:L:199:MET:HG2	1:L:204:LEU:HD11	2.00	0.44
1:L:271:HIS:HD2	1:L:357:GLU:HG3	1.82	0.44
1:L:297:TYR:O	1:L:298:ILE:C	2.56	0.44
1:L:301:VAL:O	1:L:305:ALA:N	2.50	0.44
1:A:216:ALA:HB3	1:A:260:MET:CE	2.47	0.44
1:A:306:LYS:O	1:A:307:ALA:C	2.56	0.44
1:A:379:LEU:O	1:A:380:ASP:C	2.55	0.44
1:B:20:ARG:HD2	1:B:237:ILE:CD1	2.48	0.44
1:B:93:GLU:H	1:B:96:THR:HA	1.83	0.44
1:B:297:TYR:O	1:B:298:ILE:C	2.56	0.44
1:B:301:VAL:O	1:B:305:ALA:N	2.50	0.44
1:C:93:GLU:H	1:C:96:THR:HA	1.83	0.44
1:C:140:PHE:CE2	1:I:463:GLU:HA	2.52	0.44
1:C:311:LEU:HD23	1:C:311:LEU:HA	1.54	0.44
1:D:271:HIS:HA	1:D:356:ILE:O	2.18	0.44
1:D:294:ALA:C	1:D:298:ILE:CD1	2.82	0.44
1:D:308:ILE:HG12	1:D:308:ILE:H	1.37	0.44
1:E:7:THR:C	1:E:9:LEU:N	2.69	0.44
1:E:17:VAL:O	1:E:18:ASP:CB	2.66	0.44
1:E:39:ASN:O	1:E:40:ALA:CB	2.62	0.44
1:E:390:GLU:HB3	1:E:391:PRO:CD	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:433:VAL:H	1:E:433:VAL:HG12	1.37	0.44
1:F:70:ASP:C	1:F:72:SER:N	2.71	0.44
1:F:463:GLU:HA	1:L:140:PHE:CE2	2.52	0.44
1:G:126:PHE:CE1	1:G:228:MET:CE	3.00	0.44
1:G:216:ALA:HB3	1:G:260:MET:CE	2.48	0.44
1:G:348:VAL:HG12	1:G:354:ARG:HA	1.99	0.44
1:G:348:VAL:O	1:G:349:ALA:HB3	2.17	0.44
1:H:70:ASP:C	1:H:72:SER:N	2.71	0.44
1:H:164:TYR:CE1	1:H:168:ASN:ND2	2.85	0.44
1:H:338:ASN:O	1:H:341:ALA:HB2	2.16	0.44
1:I:258:LYS:HD3	1:I:320:LYS:O	2.17	0.44
1:I:321:ARG:CG	1:I:322:LEU:N	2.81	0.44
1:J:68:MET:HB3	1:J:70:ASP:OD1	2.17	0.44
1:J:233:ASP:HB3	1:J:368:TYR:OH	2.17	0.44
1:J:311:LEU:HD23	1:J:311:LEU:HA	1.55	0.44
1:J:348:VAL:CG1	1:J:354:ARG:HA	2.47	0.44
1:K:7:THR:C	1:K:9:LEU:N	2.69	0.44
1:K:202:MET:HE2	1:K:202:MET:HA	2.00	0.44
1:K:271:HIS:HD2	1:K:357:GLU:HG3	1.82	0.44
1:K:380:ASP:CA	1:K:383:LYS:HB2	2.45	0.44
1:L:19:LEU:CD2	1:L:75:VAL:HG21	2.38	0.44
1:L:93:GLU:H	1:L:96:THR:HA	1.83	0.44
1:L:126:PHE:CE1	1:L:228:MET:CE	3.01	0.44
1:L:233:ASP:HB3	1:L:368:TYR:OH	2.17	0.44
1:L:296:TYR:HB3	1:L:382:ILE:CA	2.46	0.44
1:A:70:ASP:C	1:A:72:SER:N	2.71	0.44
1:A:120:ILE:CD1	1:A:382:ILE:CG2	2.94	0.44
1:A:348:VAL:HG12	1:A:354:ARG:HA	1.99	0.44
1:B:75:VAL:CG2	1:B:84:THR:CB	2.90	0.44
1:B:163:LYS:HG3	1:B:164:TYR:N	2.32	0.44
1:C:33:ILE:HD13	1:C:33:ILE:HA	1.74	0.44
1:C:68:MET:HE3	1:C:88:ARG:CB	2.35	0.44
1:C:235:ILE:HG21	1:C:367:PRO:HG3	1.99	0.44
1:C:339:ARG:HH11	1:C:339:ARG:CA	2.30	0.44
1:D:26:GLY:O	1:D:27:LYS:CG	2.56	0.44
1:D:48:MET:O	1:D:48:MET:HG2	2.18	0.44
1:D:306:LYS:O	1:D:307:ALA:C	2.56	0.44
1:D:344:ARG:NH1	1:D:357:GLU:OE1	2.51	0.44
1:D:461:GLU:OE1	1:J:317:ASN:CA	2.64	0.44
1:E:30:HIS:O	1:F:180:PHE:CB	2.42	0.44
1:E:67:LEU:CD1	1:E:68:MET:HE3	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:297:TYR:O	1:E:298:ILE:C	2.55	0.44
1:F:306:LYS:O	1:F:307:ALA:C	2.56	0.44
1:F:348:VAL:CG1	1:F:354:ARG:HA	2.47	0.44
1:F:382:ILE:O	1:F:383:LYS:O	2.35	0.44
1:G:27:LYS:HZ3	1:G:239:LYS:HZ1	0.46	0.44
1:G:120:ILE:CD1	1:G:382:ILE:CG2	2.94	0.44
1:G:306:LYS:O	1:G:307:ALA:C	2.56	0.44
1:H:306:LYS:O	1:H:307:ALA:C	2.56	0.44
1:I:67:LEU:CD1	1:I:68:MET:HE3	2.48	0.44
1:I:172:ARG:CB	1:I:173:PRO:CD	2.89	0.44
1:J:271:HIS:HA	1:J:356:ILE:O	2.18	0.44
1:J:344:ARG:NH1	1:J:357:GLU:OE1	2.51	0.44
1:K:235:ILE:HG21	1:K:367:PRO:HG3	1.99	0.44
1:K:235:ILE:HB	1:K:367:PRO:HG2	2.00	0.44
1:K:339:ARG:HH11	1:K:339:ARG:CA	2.30	0.44
1:K:403:GLU:N	1:K:405:LYS:HG2	2.29	0.44
1:A:199:MET:HG2	1:A:204:LEU:HD11	2.00	0.44
1:A:226:ASN:HB3	1:A:227:THR:H	1.53	0.44
1:B:19:LEU:CD2	1:B:75:VAL:HG21	2.38	0.44
1:B:140:PHE:CE2	1:H:463:GLU:HA	2.52	0.44
1:B:426:GLU:OE1	1:B:426:GLU:HA	2.17	0.44
1:B:463:GLU:HA	1:H:140:PHE:CE2	2.52	0.44
1:C:48:MET:HB2	1:C:62:GLU:C	2.36	0.44
1:C:379:LEU:O	1:C:380:ASP:C	2.55	0.44
1:C:403:GLU:N	1:C:405:LYS:HG2	2.30	0.44
1:D:93:GLU:H	1:D:96:THR:HA	1.83	0.44
1:D:233:ASP:HB3	1:D:368:TYR:OH	2.17	0.44
1:D:379:LEU:O	1:D:380:ASP:C	2.55	0.44
1:D:382:ILE:O	1:D:383:LYS:O	2.35	0.44
1:D:465:TYR:HE2	1:J:449:GLU:OE1	1.99	0.44
1:E:41:GLU:O	1:E:42:PHE:C	2.56	0.44
1:E:68:MET:HB3	1:E:70:ASP:OD1	2.18	0.44
1:E:235:ILE:HG21	1:E:367:PRO:HG3	1.99	0.44
1:E:258:LYS:HD3	1:E:320:LYS:O	2.17	0.44
1:E:321:ARG:CG	1:E:322:LEU:N	2.81	0.44
1:E:463:GLU:HA	1:K:140:PHE:CE2	2.52	0.44
1:F:140:PHE:CE2	1:L:463:GLU:HA	2.52	0.44
1:F:212:GLU:HB3	1:F:213:VAL:H	1.61	0.44
1:F:294:ALA:C	1:F:298:ILE:CD1	2.82	0.44
1:G:70:ASP:C	1:G:72:SER:N	2.71	0.44
1:G:90:ASP:OD2	1:G:90:ASP:N	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:325:GLY:N	1:G:328:ALA:HB3	2.33	0.44
1:G:379:LEU:O	1:G:380:ASP:C	2.55	0.44
1:I:235:ILE:HG21	1:I:367:PRO:HG3	1.99	0.44
1:I:297:TYR:O	1:I:298:ILE:C	2.56	0.44
1:J:182:VAL:CG2	1:K:28:GLU:HG2	2.47	0.44
1:J:256:MET:HA	1:J:257:PRO:HD3	1.86	0.44
1:J:382:ILE:O	1:J:383:LYS:O	2.35	0.44
1:K:376:MET:HE3	1:K:433:VAL:HG22	1.97	0.44
1:K:379:LEU:O	1:K:380:ASP:C	2.55	0.44
1:L:65:MET:HE3	1:L:65:MET:CA	2.28	0.44
1:L:120:ILE:CG2	1:L:382:ILE:HG23	2.46	0.44
1:L:163:LYS:HG3	1:L:164:TYR:N	2.32	0.44
1:L:325:GLY:N	1:L:328:ALA:HB3	2.33	0.44
1:A:321:ARG:CG	1:A:322:LEU:N	2.81	0.43
1:A:325:GLY:N	1:A:328:ALA:HB3	2.33	0.43
1:A:348:VAL:O	1:A:349:ALA:HB3	2.17	0.43
1:B:199:MET:HE1	1:B:238:TYR:CE2	2.53	0.43
1:B:256:MET:HE2	1:H:466:TYR:HA	1.99	0.43
1:B:296:TYR:HB3	1:B:382:ILE:CA	2.46	0.43
1:B:315:THR:CB	1:H:465:TYR:HD2	2.02	0.43
1:B:325:GLY:N	1:B:328:ALA:HB3	2.33	0.43
1:C:7:THR:C	1:C:9:LEU:N	2.69	0.43
1:C:28:GLU:HG2	1:D:182:VAL:CG2	2.47	0.43
1:C:191:ILE:HG13	1:C:249:PHE:CD1	2.53	0.43
1:C:271:HIS:HA	1:C:356:ILE:O	2.18	0.43
1:D:41:GLU:O	1:D:42:PHE:C	2.56	0.43
1:D:140:PHE:CE2	1:J:463:GLU:HA	2.52	0.43
1:D:463:GLU:HA	1:J:140:PHE:CE2	2.52	0.43
1:G:155:GLU:HA	1:G:172:ARG:HB2	1.99	0.43
1:G:233:ASP:HB3	1:G:368:TYR:OH	2.17	0.43
1:G:321:ARG:CG	1:G:322:LEU:N	2.81	0.43
1:G:331:MET:CE	1:G:396:LEU:CD1	2.81	0.43
1:H:110:ARG:HH11	1:H:110:ARG:HD3	1.61	0.43
1:H:382:ILE:O	1:H:383:LYS:O	2.35	0.43
1:I:68:MET:HB3	1:I:70:ASP:OD1	2.18	0.43
1:I:339:ARG:HH11	1:I:339:ARG:CA	2.30	0.43
1:J:109:LYS:HG3	1:J:109:LYS:H	1.37	0.43
1:J:271:HIS:HD2	1:J:357:GLU:HG3	1.82	0.43
1:J:297:TYR:O	1:J:298:ILE:C	2.55	0.43
1:K:182:VAL:HG13	1:L:28:GLU:HG2	1.91	0.43
1:K:271:HIS:HA	1:K:356:ILE:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:301:VAL:O	1:K:305:ALA:N	2.50	0.43
1:L:39:ASN:HD22	1:L:39:ASN:N	2.12	0.43
1:L:64:ASP:O	1:L:66:VAL:N	2.47	0.43
1:L:93:GLU:O	1:L:96:THR:CG2	2.55	0.43
1:L:297:TYR:CZ	1:L:378:GLY:HA3	2.52	0.43
1:L:426:GLU:OE1	1:L:426:GLU:HA	2.17	0.43
1:A:41:GLU:O	1:A:42:PHE:C	2.56	0.43
1:A:199:MET:HE2	1:A:238:TYR:CD2	2.53	0.43
1:A:233:ASP:HB3	1:A:368:TYR:OH	2.17	0.43
1:A:258:LYS:HD3	1:A:320:LYS:O	2.17	0.43
1:A:401:PRO:C	1:A:403:GLU:N	2.69	0.43
1:A:410:VAL:O	1:A:410:VAL:HG13	2.18	0.43
1:B:25:LYS:HA	1:B:25:LYS:HD2	1.66	0.43
1:B:68:MET:HB3	1:B:70:ASP:OD1	2.18	0.43
1:B:93:GLU:O	1:B:96:THR:CG2	2.55	0.43
1:B:199:MET:HG2	1:B:204:LEU:HD11	2.00	0.43
1:B:316:THR:HG21	1:H:461:GLU:CD	2.39	0.43
1:C:134:LEU:HD12	1:C:134:LEU:HA	1.81	0.43
1:C:235:ILE:HB	1:C:367:PRO:HG2	2.01	0.43
1:C:301:VAL:O	1:C:305:ALA:N	2.50	0.43
1:C:331:MET:HE1	1:C:396:LEU:HA	2.00	0.43
1:C:380:ASP:CA	1:C:383:LYS:HB2	2.46	0.43
1:D:109:LYS:HG3	1:D:109:LYS:H	1.37	0.43
1:D:245:VAL:O	1:D:249:PHE:N	2.48	0.43
1:E:75:VAL:CG2	1:E:84:THR:CB	2.90	0.43
1:E:140:PHE:CE2	1:K:463:GLU:HA	2.52	0.43
1:E:167:GLY:O	1:E:169:LYS:HG2	2.18	0.43
1:E:407:ILE:HA	1:E:408:PRO:HD3	1.70	0.43
1:F:271:HIS:HA	1:F:356:ILE:O	2.18	0.43
1:F:344:ARG:NH1	1:F:357:GLU:OE1	2.51	0.43
1:F:410:VAL:O	1:F:410:VAL:HG13	2.18	0.43
1:F:461:GLU:CD	1:L:316:THR:HG21	2.39	0.43
1:G:199:MET:HG2	1:G:204:LEU:HD11	2.00	0.43
1:G:235:ILE:HD13	1:G:235:ILE:HA	1.90	0.43
1:G:245:VAL:O	1:G:249:PHE:N	2.48	0.43
1:G:271:HIS:HD2	1:G:357:GLU:HG3	1.82	0.43
1:G:271:HIS:HA	1:G:356:ILE:O	2.18	0.43
1:G:308:ILE:HG12	1:G:308:ILE:H	1.37	0.43
1:G:401:PRO:C	1:G:403:GLU:N	2.69	0.43
1:G:410:VAL:O	1:G:410:VAL:HG13	2.18	0.43
1:H:180:PHE:CB	1:I:30:HIS:O	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:212:GLU:HB3	1:H:213:VAL:H	1.61	0.43
1:H:348:VAL:HG12	1:H:354:ARG:HA	1.99	0.43
1:H:410:VAL:O	1:H:410:VAL:HG13	2.19	0.43
1:I:39:ASN:O	1:I:40:ALA:CB	2.62	0.43
1:I:41:GLU:O	1:I:42:PHE:C	2.56	0.43
1:I:67:LEU:HD12	1:I:68:MET:CG	2.26	0.43
1:I:110:ARG:HH11	1:I:110:ARG:HD3	1.60	0.43
1:I:167:GLY:O	1:I:169:LYS:HG2	2.18	0.43
1:I:348:VAL:HG12	1:I:354:ARG:HA	1.99	0.43
1:J:26:GLY:O	1:J:27:LYS:CG	2.57	0.43
1:J:41:GLU:O	1:J:42:PHE:C	2.56	0.43
1:J:245:VAL:O	1:J:249:PHE:N	2.48	0.43
1:K:73:THR:O	1:K:84:THR:N	2.45	0.43
1:K:331:MET:HE1	1:K:396:LEU:HA	2.01	0.43
1:L:17:VAL:O	1:L:18:ASP:CB	2.66	0.43
1:L:75:VAL:CG2	1:L:84:THR:CB	2.90	0.43
1:L:199:MET:HE1	1:L:238:TYR:CE2	2.53	0.43
1:L:294:ALA:C	1:L:298:ILE:CD1	2.82	0.43
1:A:245:VAL:O	1:A:249:PHE:N	2.48	0.43
1:A:271:HIS:HD2	1:A:357:GLU:HG3	1.82	0.43
1:B:17:VAL:HG11	1:B:33:ILE:CG2	2.48	0.43
1:B:28:GLU:HG2	1:C:182:VAL:CG2	2.47	0.43
1:B:33:ILE:HD13	1:B:33:ILE:HA	1.75	0.43
1:B:271:HIS:HA	1:B:356:ILE:O	2.18	0.43
1:B:281:LEU:CD2	1:B:293:GLN:NE2	2.81	0.43
1:B:294:ALA:C	1:B:298:ILE:CD1	2.82	0.43
1:B:297:TYR:CZ	1:B:378:GLY:HA3	2.52	0.43
1:B:348:VAL:O	1:B:349:ALA:HB3	2.17	0.43
1:C:73:THR:O	1:C:84:THR:N	2.45	0.43
1:C:339:ARG:NH1	1:C:339:ARG:CA	2.79	0.43
1:C:463:GLU:HA	1:I:140:PHE:CE2	2.52	0.43
1:D:24:THR:HB	1:D:26:GLY:N	2.30	0.43
1:D:297:TYR:O	1:D:298:ILE:C	2.56	0.43
1:D:317:ASN:CA	1:J:461:GLU:OE1	2.65	0.43
1:E:48:MET:O	1:E:48:MET:HG2	2.18	0.43
1:E:258:LYS:N	1:E:317:ASN:ND2	2.67	0.43
1:E:348:VAL:HG12	1:E:354:ARG:HA	1.99	0.43
1:F:216:ALA:HB3	1:F:260:MET:HE2	1.99	0.43
1:F:348:VAL:HG12	1:F:354:ARG:HA	1.99	0.43
1:G:226:ASN:HB3	1:G:227:THR:H	1.52	0.43
1:G:297:TYR:CZ	1:G:378:GLY:HA3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:390:GLU:CG	1:G:391:PRO:HD2	2.48	0.43
1:H:76:ILE:CD1	1:H:202:MET:HE3	2.29	0.43
1:H:271:HIS:HA	1:H:356:ILE:O	2.18	0.43
1:H:297:TYR:CZ	1:H:378:GLY:HA3	2.53	0.43
1:I:258:LYS:N	1:I:317:ASN:ND2	2.67	0.43
1:I:271:HIS:HA	1:I:356:ILE:O	2.18	0.43
1:J:24:THR:HB	1:J:26:GLY:N	2.30	0.43
1:J:199:MET:HG2	1:J:204:LEU:HD11	2.00	0.43
1:K:41:GLU:O	1:K:42:PHE:C	2.56	0.43
1:K:182:VAL:CG2	1:L:28:GLU:HG2	2.47	0.43
1:K:191:ILE:HG13	1:K:249:PHE:CD1	2.53	0.43
1:K:311:LEU:HD23	1:K:311:LEU:HA	1.54	0.43
1:K:339:ARG:NH1	1:K:339:ARG:CA	2.79	0.43
1:L:271:HIS:HA	1:L:356:ILE:O	2.18	0.43
1:L:281:LEU:CD2	1:L:293:GLN:NE2	2.81	0.43
1:L:348:VAL:O	1:L:349:ALA:HB3	2.17	0.43
1:A:65:MET:N	1:A:87:ILE:CG2	2.82	0.43
1:A:68:MET:HB3	1:A:70:ASP:OD1	2.17	0.43
1:A:155:GLU:HA	1:A:172:ARG:HB2	1.99	0.43
1:A:297:TYR:CZ	1:A:378:GLY:HA3	2.53	0.43
1:A:390:GLU:CG	1:A:391:PRO:HD2	2.49	0.43
1:B:19:LEU:HD22	1:B:240:TYR:HH	1.79	0.43
1:B:39:ASN:HD22	1:B:39:ASN:N	2.12	0.43
1:B:410:VAL:O	1:B:410:VAL:HG13	2.18	0.43
1:C:92:LEU:CA	1:C:97:LEU:H	2.31	0.43
1:C:120:ILE:CD1	1:C:382:ILE:CG2	2.94	0.43
1:C:163:LYS:HG3	1:C:164:TYR:N	2.32	0.43
1:D:30:HIS:N	1:E:180:PHE:O	2.48	0.43
1:D:191:ILE:HG13	1:D:249:PHE:CD1	2.53	0.43
1:D:235:ILE:HG21	1:D:367:PRO:HG3	1.99	0.43
1:D:295:LEU:HB3	1:D:388:PRO:HG3	2.01	0.43
1:D:403:GLU:N	1:D:405:LYS:HG2	2.29	0.43
1:E:19:LEU:CD2	1:E:75:VAL:HG21	2.38	0.43
1:E:36:HIS:HB2	1:E:37:GLN:H	1.45	0.43
1:E:235:ILE:HB	1:E:367:PRO:HG2	2.01	0.43
1:F:2:ALA:C	1:F:4:HIS:N	2.69	0.43
1:F:93:GLU:H	1:F:96:THR:HA	1.83	0.43
1:F:114:TYR:CD2	1:F:431:GLY:HA3	2.53	0.43
1:F:199:MET:HG2	1:F:204:LEU:HD11	2.00	0.43
1:F:233:ASP:HB3	1:F:368:TYR:OH	2.17	0.43
1:F:297:TYR:CZ	1:F:378:GLY:HA3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:449:GLU:CD	1:L:465:TYR:OH	2.52	0.43
1:F:462:PHE:O	1:F:463:GLU:C	2.57	0.43
1:F:466:TYR:HA	1:L:256:MET:HE2	1.99	0.43
1:G:28:GLU:HG2	1:L:182:VAL:HG13	1.91	0.43
1:G:41:GLU:O	1:G:42:PHE:C	2.56	0.43
1:G:65:MET:N	1:G:87:ILE:CG2	2.82	0.43
1:G:68:MET:HB3	1:G:70:ASP:OD1	2.17	0.43
1:G:258:LYS:HD3	1:G:320:LYS:O	2.17	0.43
1:G:295:LEU:HB3	1:G:388:PRO:HG3	2.01	0.43
1:G:426:GLU:OE1	1:G:426:GLU:HA	2.17	0.43
1:H:131:GLU:HG3	1:H:267:GLY:H	1.84	0.43
1:H:199:MET:HG2	1:H:204:LEU:HD11	2.00	0.43
1:H:344:ARG:NH1	1:H:357:GLU:OE1	2.51	0.43
1:H:462:PHE:O	1:H:463:GLU:C	2.57	0.43
1:I:48:MET:O	1:I:48:MET:HG2	2.18	0.43
1:I:235:ILE:HB	1:I:367:PRO:HG2	2.00	0.43
1:I:362:ASP:HB2	1:I:363:PRO:HD2	2.01	0.43
1:J:114:TYR:CD2	1:J:431:GLY:HA3	2.53	0.43
1:J:154:ILE:O	1:J:155:GLU:CB	2.50	0.43
1:J:191:ILE:HG13	1:J:249:PHE:CD1	2.53	0.43
1:J:362:ASP:HB2	1:J:363:PRO:HD2	2.00	0.43
1:K:68:MET:HE3	1:K:88:ARG:CB	2.35	0.43
1:K:109:LYS:HG3	1:K:109:LYS:H	1.37	0.43
1:K:163:LYS:HG3	1:K:164:TYR:N	2.31	0.43
1:L:17:VAL:HG11	1:L:33:ILE:CG2	2.48	0.43
1:L:65:MET:N	1:L:87:ILE:CG2	2.82	0.43
1:A:58:LYS:HB3	1:B:337:ARG:HB2	2.00	0.43
1:A:157:ALA:N	1:A:215:THR:HG22	2.09	0.43
1:A:235:ILE:HD13	1:A:235:ILE:HA	1.89	0.43
1:B:17:VAL:O	1:B:18:ASP:CB	2.66	0.43
1:B:28:GLU:HG2	1:C:182:VAL:HG13	1.91	0.43
1:B:64:ASP:O	1:B:66:VAL:N	2.47	0.43
1:B:465:TYR:OH	1:H:449:GLU:CD	2.52	0.43
1:C:41:GLU:O	1:C:42:PHE:C	2.56	0.43
1:C:58:LYS:HB3	1:D:337:ARG:HB2	2.00	0.43
1:C:64:ASP:O	1:C:66:VAL:N	2.47	0.43
1:C:109:LYS:HG3	1:C:109:LYS:H	1.37	0.43
1:C:301:VAL:HG23	1:C:301:VAL:H	1.32	0.43
1:D:67:LEU:HD11	1:D:88:ARG:HH11	1.84	0.43
1:D:163:LYS:HG3	1:D:164:TYR:N	2.31	0.43
1:D:207:GLU:O	1:D:208:ALA:CB	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:214:ALA:HB3	1:D:218:GLN:HG3	2.01	0.43
1:D:321:ARG:CG	1:D:322:LEU:N	2.81	0.43
1:D:362:ASP:HB2	1:D:363:PRO:HD2	2.01	0.43
1:D:410:VAL:O	1:D:410:VAL:HG13	2.19	0.43
1:D:449:GLU:OE1	1:J:465:TYR:HE2	1.99	0.43
1:E:214:ALA:HB3	1:E:218:GLN:HG3	2.01	0.43
1:E:271:HIS:HA	1:E:356:ILE:O	2.18	0.43
1:E:339:ARG:HD2	1:E:340:SER:N	2.34	0.43
1:F:41:GLU:O	1:F:42:PHE:C	2.56	0.43
1:G:58:LYS:HB3	1:L:337:ARG:HB2	2.00	0.43
1:H:2:ALA:C	1:H:4:HIS:N	2.69	0.43
1:H:41:GLU:O	1:H:42:PHE:C	2.56	0.43
1:H:235:ILE:HB	1:H:367:PRO:HG2	2.01	0.43
1:I:19:LEU:CD2	1:I:75:VAL:HG21	2.38	0.43
1:I:43:PHE:CE2	1:I:69:PRO:HB3	2.44	0.43
1:I:75:VAL:CG2	1:I:84:THR:CB	2.90	0.43
1:I:93:GLU:O	1:I:96:THR:CG2	2.55	0.43
1:I:116:ARG:HE	1:I:116:ARG:HB2	1.57	0.43
1:I:191:ILE:HG13	1:I:249:PHE:CD1	2.53	0.43
1:I:295:LEU:HB3	1:I:388:PRO:HG3	2.01	0.43
1:I:351:PRO:HG2	1:I:352:LYS:H	1.79	0.43
1:J:78:PRO:CA	1:J:79:PHE:CD2	3.02	0.43
1:J:235:ILE:HG21	1:J:367:PRO:HG3	1.99	0.43
1:K:64:ASP:O	1:K:66:VAL:N	2.47	0.43
1:K:67:LEU:O	1:K:86:ILE:CD1	2.66	0.43
1:K:78:PRO:CA	1:K:79:PHE:CD2	3.02	0.43
1:K:297:TYR:CZ	1:K:378:GLY:HA3	2.52	0.43
1:K:412:GLY:C	1:K:413:SER:HG	2.22	0.43
1:A:39:ASN:O	1:A:40:ALA:CB	2.62	0.43
1:A:93:GLU:H	1:A:96:THR:HA	1.83	0.43
1:A:271:HIS:HA	1:A:356:ILE:O	2.18	0.43
1:A:331:MET:CE	1:A:396:LEU:CD1	2.81	0.43
1:A:339:ARG:N	1:A:339:ARG:CZ	2.81	0.43
1:A:426:GLU:OE1	1:A:426:GLU:HA	2.17	0.43
1:B:65:MET:N	1:B:87:ILE:CG2	2.82	0.43
1:B:191:ILE:HG13	1:B:249:PHE:CD1	2.53	0.43
1:C:281:LEU:CD2	1:C:293:GLN:NE2	2.81	0.43
1:C:331:MET:HB2	1:C:341:ALA:HA	2.00	0.43
1:C:344:ARG:NH1	1:C:357:GLU:OE1	2.51	0.43
1:C:348:VAL:O	1:C:349:ALA:HB3	2.17	0.43
1:D:78:PRO:CA	1:D:79:PHE:CD2	3.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:114:TYR:O	1:D:115:LEU:C	2.57	0.43
1:D:114:TYR:CD2	1:D:431:GLY:HA3	2.54	0.43
1:D:199:MET:HG2	1:D:204:LEU:HD11	2.00	0.43
1:D:216:ALA:HB3	1:D:260:MET:CE	2.47	0.43
1:D:281:LEU:CD2	1:D:293:GLN:NE2	2.81	0.43
1:E:17:VAL:HG11	1:E:33:ILE:CG2	2.48	0.43
1:E:43:PHE:CE2	1:E:69:PRO:HB3	2.44	0.43
1:E:93:GLU:H	1:E:96:THR:HA	1.83	0.43
1:E:362:ASP:HB2	1:E:363:PRO:HD2	2.01	0.43
1:F:65:MET:N	1:F:87:ILE:CG2	2.82	0.43
1:F:67:LEU:CD1	1:F:68:MET:HE2	2.47	0.43
1:F:131:GLU:HG3	1:F:267:GLY:H	1.84	0.43
1:F:295:LEU:HB3	1:F:388:PRO:HG3	2.01	0.43
1:F:362:ASP:HB2	1:F:363:PRO:HD2	2.00	0.43
1:G:344:ARG:NH1	1:G:357:GLU:OE1	2.51	0.43
1:H:65:MET:N	1:H:87:ILE:CG2	2.82	0.43
1:H:67:LEU:CD1	1:H:68:MET:HE2	2.48	0.43
1:H:93:GLU:H	1:H:96:THR:HA	1.83	0.43
1:H:233:ASP:HB3	1:H:368:TYR:OH	2.17	0.43
1:I:114:TYR:CD2	1:I:431:GLY:HA3	2.54	0.43
1:I:390:GLU:CG	1:I:391:PRO:HD2	2.48	0.43
1:I:410:VAL:O	1:I:410:VAL:HG13	2.18	0.43
1:J:67:LEU:HD11	1:J:88:ARG:HH11	1.84	0.43
1:J:70:ASP:C	1:J:72:SER:N	2.71	0.43
1:J:93:GLU:H	1:J:96:THR:HA	1.83	0.43
1:J:110:ARG:O	1:J:114:TYR:N	2.43	0.43
1:J:114:TYR:O	1:J:115:LEU:C	2.57	0.43
1:J:163:LYS:HG3	1:J:164:TYR:N	2.32	0.43
1:J:216:ALA:HB3	1:J:260:MET:CE	2.47	0.43
1:J:281:LEU:CD2	1:J:293:GLN:NE2	2.81	0.43
1:J:321:ARG:CG	1:J:322:LEU:N	2.81	0.43
1:K:92:LEU:CA	1:K:97:LEU:H	2.31	0.43
1:K:120:ILE:CD1	1:K:382:ILE:CG2	2.94	0.43
1:K:281:LEU:CD2	1:K:293:GLN:NE2	2.81	0.43
1:K:348:VAL:O	1:K:349:ALA:HB3	2.17	0.43
1:L:175:VAL:CA	1:L:215:THR:HG23	2.43	0.43
1:L:321:ARG:CG	1:L:322:LEU:N	2.81	0.43
1:L:410:VAL:O	1:L:410:VAL:HG13	2.19	0.43
1:A:2:ALA:C	1:A:4:HIS:N	2.69	0.43
1:A:28:GLU:HG2	1:B:182:VAL:HG13	1.91	0.43
1:A:136:ASP:N	1:A:153:ASP:HB2	2.23	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:235:ILE:HG21	1:A:367:PRO:HG3	1.99	0.43
1:A:295:LEU:HB3	1:A:388:PRO:HG3	2.01	0.43
1:A:344:ARG:NH1	1:A:357:GLU:OE1	2.51	0.43
1:B:321:ARG:CG	1:B:322:LEU:N	2.81	0.43
1:B:339:ARG:N	1:B:339:ARG:CZ	2.81	0.43
1:B:344:ARG:NH1	1:B:357:GLU:OE1	2.51	0.43
1:B:401:PRO:C	1:B:403:GLU:N	2.69	0.43
1:C:67:LEU:O	1:C:86:ILE:CD1	2.66	0.43
1:C:68:MET:HB3	1:C:70:ASP:OD1	2.17	0.43
1:C:78:PRO:CA	1:C:79:PHE:CD2	3.02	0.43
1:C:297:TYR:CZ	1:C:378:GLY:HA3	2.53	0.43
1:D:70:ASP:C	1:D:72:SER:N	2.71	0.43
1:D:271:HIS:HD2	1:D:357:GLU:HG3	1.82	0.43
1:E:191:ILE:HG13	1:E:249:PHE:CD1	2.53	0.43
1:E:295:LEU:HB3	1:E:388:PRO:HG3	2.01	0.43
1:E:410:VAL:O	1:E:410:VAL:HG13	2.18	0.43
1:F:17:VAL:O	1:F:18:ASP:CB	2.66	0.43
1:F:27:LYS:HZ3	1:F:239:LYS:HZ1	0.45	0.43
1:F:376:MET:CE	1:F:433:VAL:CG2	2.87	0.43
1:G:339:ARG:N	1:G:339:ARG:CZ	2.81	0.43
1:H:17:VAL:O	1:H:18:ASP:CB	2.66	0.43
1:H:27:LYS:HZ3	1:H:239:LYS:HZ1	0.46	0.43
1:H:92:LEU:CA	1:H:97:LEU:H	2.31	0.43
1:H:337:ARG:HB2	1:I:58:LYS:HB3	2.00	0.43
1:H:407:ILE:HA	1:H:408:PRO:HD3	1.71	0.43
1:I:20:ARG:HD2	1:I:237:ILE:CD1	2.48	0.43
1:I:92:LEU:CA	1:I:97:LEU:H	2.31	0.43
1:I:93:GLU:H	1:I:96:THR:HA	1.83	0.43
1:I:339:ARG:HD2	1:I:340:SER:N	2.34	0.43
1:J:207:GLU:O	1:J:208:ALA:CB	2.66	0.43
1:J:214:ALA:HB3	1:J:218:GLN:HG3	2.01	0.43
1:J:410:VAL:O	1:J:410:VAL:HG13	2.19	0.43
1:K:20:ARG:HD2	1:K:237:ILE:CD1	2.48	0.43
1:K:68:MET:CE	1:K:88:ARG:HG3	2.49	0.43
1:K:167:GLY:O	1:K:169:LYS:HG2	2.18	0.43
1:K:325:GLY:C	1:K:326:TYR:CD2	2.91	0.43
1:K:337:ARG:HB2	1:L:58:LYS:HB3	2.00	0.43
1:K:344:ARG:NH1	1:K:357:GLU:OE1	2.51	0.43
1:K:348:VAL:HG12	1:K:354:ARG:HA	2.00	0.43
1:L:401:PRO:C	1:L:403:GLU:N	2.69	0.43
1:A:78:PRO:CA	1:A:79:PHE:CD2	3.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:167:GLY:O	1:A:169:LYS:HG2	2.18	0.43
1:A:191:ILE:HG13	1:A:249:PHE:CD1	2.53	0.43
1:A:403:GLU:OE1	1:A:406:GLU:HG3	2.19	0.43
1:B:374:LEU:HD13	1:B:374:LEU:HA	1.87	0.43
1:B:376:MET:HE3	1:B:433:VAL:HG22	1.99	0.43
1:B:466:TYR:CZ	1:H:252:THR:HG21	2.33	0.43
1:C:114:TYR:CD2	1:C:431:GLY:HA3	2.54	0.43
1:C:295:LEU:HB3	1:C:388:PRO:HG3	2.01	0.43
1:C:325:GLY:C	1:C:326:TYR:CD2	2.91	0.43
1:C:348:VAL:HG12	1:C:354:ARG:HA	2.00	0.43
1:C:350:SER:HA	1:C:351:PRO:HD2	1.65	0.43
1:C:390:GLU:HG3	1:C:391:PRO:HD2	2.01	0.43
1:C:401:PRO:O	1:C:403:GLU:N	2.52	0.43
1:D:68:MET:CE	1:D:88:ARG:HG3	2.49	0.43
1:D:409:GLN:O	1:D:411:ALA:N	2.52	0.43
1:E:20:ARG:HD2	1:E:237:ILE:CD1	2.48	0.43
1:E:58:LYS:HB3	1:F:337:ARG:HB2	2.00	0.43
1:E:93:GLU:O	1:E:96:THR:CG2	2.55	0.43
1:E:131:GLU:HG3	1:E:267:GLY:H	1.84	0.43
1:E:351:PRO:HG2	1:E:352:LYS:H	1.79	0.43
1:E:390:GLU:CG	1:E:391:PRO:HD2	2.49	0.43
1:F:92:LEU:CA	1:F:97:LEU:H	2.31	0.43
1:F:207:GLU:O	1:F:208:ALA:CB	2.66	0.43
1:F:216:ALA:HB3	1:F:260:MET:CE	2.47	0.43
1:F:235:ILE:HB	1:F:367:PRO:HG2	2.01	0.43
1:F:403:GLU:C	1:F:405:LYS:N	2.71	0.43
1:G:2:ALA:C	1:G:4:HIS:N	2.69	0.43
1:G:67:LEU:O	1:G:86:ILE:CD1	2.66	0.43
1:G:78:PRO:CA	1:G:79:PHE:CD2	3.02	0.43
1:G:93:GLU:H	1:G:96:THR:HA	1.83	0.43
1:G:167:GLY:O	1:G:169:LYS:HG2	2.18	0.43
1:H:114:TYR:CD2	1:H:431:GLY:HA3	2.54	0.43
1:H:207:GLU:O	1:H:208:ALA:CB	2.66	0.43
1:H:216:ALA:HB3	1:H:260:MET:CE	2.47	0.43
1:H:235:ILE:HG21	1:H:367:PRO:HG3	1.99	0.43
1:H:321:ARG:CG	1:H:322:LEU:N	2.81	0.43
1:H:401:PRO:O	1:H:403:GLU:N	2.52	0.43
1:H:403:GLU:C	1:H:405:LYS:N	2.71	0.43
1:I:17:VAL:HG11	1:I:33:ILE:CG2	2.48	0.43
1:I:70:ASP:C	1:I:72:SER:N	2.71	0.43
1:I:131:GLU:HG3	1:I:267:GLY:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:180:PHE:O	1:J:30:HIS:N	2.48	0.43
1:I:199:MET:HG2	1:I:204:LEU:HD11	2.00	0.43
1:I:376:MET:HE1	1:I:433:VAL:CG1	2.23	0.43
1:J:109:LYS:O	1:J:112:GLU:N	2.52	0.43
1:J:116:ARG:HE	1:J:116:ARG:HB2	1.57	0.43
1:J:155:GLU:HA	1:J:172:ARG:HB2	1.99	0.43
1:J:337:ARG:HB2	1:K:58:LYS:HB3	2.00	0.43
1:J:403:GLU:N	1:J:405:LYS:HG2	2.30	0.43
1:J:409:GLN:O	1:J:411:ALA:N	2.52	0.43
1:K:65:MET:N	1:K:87:ILE:CG2	2.82	0.43
1:L:70:ASP:C	1:L:72:SER:N	2.71	0.43
1:L:136:ASP:N	1:L:153:ASP:HB2	2.23	0.43
1:L:339:ARG:N	1:L:339:ARG:CZ	2.81	0.43
1:L:344:ARG:NH1	1:L:357:GLU:OE1	2.51	0.43
1:L:409:GLN:O	1:L:411:ALA:N	2.52	0.43
1:A:17:VAL:O	1:A:18:ASP:CB	2.66	0.43
1:A:308:ILE:HG12	1:A:308:ILE:H	1.37	0.43
1:B:48:MET:O	1:B:48:MET:HG2	2.18	0.43
1:B:70:ASP:C	1:B:72:SER:N	2.71	0.43
1:B:136:ASP:N	1:B:153:ASP:HB2	2.23	0.43
1:B:175:VAL:CA	1:B:215:THR:HG23	2.43	0.43
1:B:235:ILE:HB	1:B:367:PRO:HG2	2.00	0.43
1:B:409:GLN:O	1:B:411:ALA:N	2.52	0.43
1:B:428:LEU:HD12	1:B:428:LEU:HA	1.88	0.43
1:C:48:MET:O	1:C:48:MET:HG2	2.18	0.43
1:C:258:LYS:N	1:C:317:ASN:ND2	2.67	0.43
1:C:462:PHE:O	1:C:463:GLU:C	2.57	0.43
1:D:110:ARG:O	1:D:114:TYR:N	2.43	0.43
1:D:154:ILE:O	1:D:155:GLU:CB	2.50	0.43
1:D:155:GLU:HA	1:D:172:ARG:HB2	1.99	0.43
1:E:27:LYS:HZ2	1:E:239:LYS:NZ	1.99	0.43
1:E:70:ASP:C	1:E:72:SER:N	2.71	0.43
1:F:20:ARG:HD2	1:F:237:ILE:CD1	2.48	0.43
1:F:26:GLY:O	1:F:27:LYS:CG	2.57	0.43
1:F:191:ILE:HG13	1:F:249:PHE:CD1	2.53	0.43
1:F:199:MET:HE1	1:F:238:TYR:CE2	2.54	0.43
1:F:258:LYS:N	1:F:317:ASN:ND2	2.67	0.43
1:F:316:THR:HG21	1:L:461:GLU:CD	2.39	0.43
1:F:339:ARG:N	1:F:339:ARG:CZ	2.81	0.43
1:F:401:PRO:O	1:F:403:GLU:N	2.52	0.43
1:F:403:GLU:OE1	1:F:406:GLU:HG3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:17:VAL:O	1:G:18:ASP:CB	2.66	0.43
1:G:39:ASN:O	1:G:40:ALA:CB	2.62	0.43
1:G:157:ALA:N	1:G:215:THR:HG22	2.09	0.43
1:G:191:ILE:HG13	1:G:249:PHE:CD1	2.53	0.43
1:G:235:ILE:HG21	1:G:367:PRO:HG3	1.99	0.43
1:H:199:MET:HE1	1:H:238:TYR:CE2	2.54	0.43
1:H:295:LEU:HB3	1:H:388:PRO:HG3	2.01	0.43
1:H:339:ARG:N	1:H:339:ARG:CZ	2.81	0.43
1:I:25:LYS:HA	1:I:25:LYS:HD2	1.67	0.43
1:J:68:MET:CE	1:J:88:ARG:HG3	2.49	0.43
1:J:235:ILE:HB	1:J:367:PRO:HG2	2.00	0.43
1:J:295:LEU:HB3	1:J:388:PRO:HG3	2.01	0.43
1:K:67:LEU:HD11	1:K:88:ARG:HH11	1.84	0.43
1:K:68:MET:HB3	1:K:70:ASP:OD1	2.18	0.43
1:K:114:TYR:CD2	1:K:431:GLY:HA3	2.53	0.43
1:K:134:LEU:HD12	1:K:134:LEU:HA	1.81	0.43
1:K:331:MET:HB2	1:K:341:ALA:HA	2.01	0.43
1:K:350:SER:C	1:K:352:LYS:H	2.13	0.43
1:K:350:SER:HA	1:K:351:PRO:HD2	1.65	0.43
1:K:401:PRO:O	1:K:403:GLU:N	2.52	0.43
1:K:462:PHE:O	1:K:463:GLU:C	2.57	0.43
1:L:191:ILE:HG13	1:L:249:PHE:CD1	2.53	0.43
1:L:403:GLU:OE1	1:L:406:GLU:HG3	2.19	0.43
1:A:67:LEU:O	1:A:86:ILE:CD1	2.66	0.43
1:A:399:LEU:O	1:A:399:LEU:HG	2.19	0.43
1:B:39:ASN:ND2	1:B:39:ASN:N	2.67	0.43
1:B:58:LYS:HB3	1:C:337:ARG:HB2	2.00	0.43
1:B:412:GLY:C	1:B:413:SER:HG	2.22	0.43
1:B:433:VAL:O	1:B:434:PHE:CB	2.58	0.43
1:B:437:GLU:HB2	1:B:438:ALA:H	1.11	0.43
1:C:20:ARG:HD2	1:C:237:ILE:CD1	2.48	0.43
1:C:65:MET:N	1:C:87:ILE:CG2	2.82	0.43
1:C:67:LEU:HD11	1:C:88:ARG:HH11	1.84	0.43
1:C:68:MET:CE	1:C:88:ARG:HG3	2.49	0.43
1:C:339:ARG:N	1:C:339:ARG:CZ	2.81	0.43
1:C:362:ASP:HB2	1:C:363:PRO:HD2	2.00	0.43
1:C:385:LYS:O	1:C:386:ILE:HB	2.19	0.43
1:C:410:VAL:O	1:C:410:VAL:HG13	2.18	0.43
1:D:39:ASN:ND2	1:D:39:ASN:N	2.67	0.43
1:D:109:LYS:O	1:D:112:GLU:N	2.52	0.43
1:D:116:ARG:HE	1:D:116:ARG:HB2	1.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:202:MET:HG2	1:D:237:ILE:HG23	2.01	0.43
1:D:331:MET:HB2	1:D:341:ALA:HA	2.01	0.43
1:D:339:ARG:N	1:D:339:ARG:HH11	2.12	0.43
1:D:401:PRO:O	1:D:403:GLU:N	2.52	0.43
1:E:116:ARG:HE	1:E:116:ARG:HB2	1.57	0.43
1:E:199:MET:HG2	1:E:204:LEU:HD11	2.00	0.43
1:E:325:GLY:C	1:E:326:TYR:CD2	2.90	0.43
1:F:43:PHE:CE2	1:F:69:PRO:HB3	2.45	0.43
1:F:78:PRO:CA	1:F:79:PHE:CD2	3.02	0.43
1:F:299:GLY:HA3	1:F:386:ILE:CG2	2.49	0.43
1:F:376:MET:HE3	1:F:433:VAL:HG22	1.93	0.43
1:F:407:ILE:HA	1:F:408:PRO:HD3	1.71	0.43
1:G:39:ASN:ND2	1:G:39:ASN:N	2.67	0.43
1:G:88:ARG:CZ	1:G:109:LYS:HZ1	2.25	0.43
1:G:403:GLU:OE1	1:G:406:GLU:HG3	2.19	0.43
1:H:20:ARG:HD2	1:H:237:ILE:CD1	2.48	0.43
1:H:26:GLY:O	1:H:27:LYS:CG	2.57	0.43
1:H:68:MET:CE	1:H:88:ARG:HG3	2.49	0.43
1:H:78:PRO:CA	1:H:79:PHE:CD2	3.02	0.43
1:H:191:ILE:HG13	1:H:249:PHE:CD1	2.53	0.43
1:H:299:GLY:HA3	1:H:386:ILE:CG2	2.49	0.43
1:H:362:ASP:HB2	1:H:363:PRO:HD2	2.00	0.43
1:I:214:ALA:HB3	1:I:218:GLN:HG3	2.01	0.43
1:I:325:GLY:C	1:I:326:TYR:CD2	2.90	0.43
1:J:167:GLY:O	1:J:169:LYS:HG2	2.18	0.43
1:J:331:MET:HB2	1:J:341:ALA:HA	2.01	0.43
1:J:339:ARG:N	1:J:339:ARG:HH11	2.12	0.43
1:K:2:ALA:C	1:K:4:HIS:N	2.69	0.43
1:K:258:LYS:N	1:K:317:ASN:ND2	2.67	0.43
1:L:19:LEU:HD22	1:L:240:TYR:HH	1.79	0.43
1:L:33:ILE:HD13	1:L:33:ILE:HA	1.75	0.43
1:L:39:ASN:ND2	1:L:39:ASN:N	2.67	0.43
1:L:374:LEU:HD13	1:L:374:LEU:HA	1.87	0.43
1:L:401:PRO:O	1:L:403:GLU:N	2.52	0.43
1:L:433:VAL:O	1:L:434:PHE:CB	2.58	0.43
1:A:39:ASN:ND2	1:A:39:ASN:N	2.67	0.42
1:A:114:TYR:CD2	1:A:431:GLY:HA3	2.54	0.42
1:A:401:PRO:O	1:A:403:GLU:N	2.52	0.42
1:B:2:ALA:C	1:B:4:HIS:N	2.69	0.42
1:B:67:LEU:HD12	1:B:68:MET:CG	2.26	0.42
1:B:102:ARG:HH21	1:B:102:ARG:HD2	1.69	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:109:LYS:O	1:B:112:GLU:N	2.52	0.42
1:B:131:GLU:HG3	1:B:267:GLY:H	1.84	0.42
1:B:202:MET:HG2	1:B:237:ILE:HG23	2.01	0.42
1:B:306:LYS:O	1:B:307:ALA:C	2.56	0.42
1:B:401:PRO:O	1:B:403:GLU:N	2.52	0.42
1:C:36:HIS:C	1:C:38:VAL:N	2.60	0.42
1:C:110:ARG:HH11	1:C:110:ARG:HD3	1.61	0.42
1:C:167:GLY:O	1:C:169:LYS:HG2	2.19	0.42
1:C:350:SER:C	1:C:352:LYS:H	2.13	0.42
1:D:20:ARG:HD2	1:D:237:ILE:CD1	2.48	0.42
1:D:33:ILE:HD13	1:E:208:ALA:HB2	2.02	0.42
1:D:265:GLY:O	1:D:266:SER:C	2.58	0.42
1:D:390:GLU:CG	1:D:391:PRO:HD2	2.48	0.42
1:D:399:LEU:O	1:D:399:LEU:HG	2.19	0.42
1:E:78:PRO:CA	1:E:79:PHE:CD2	3.02	0.42
1:E:92:LEU:CA	1:E:97:LEU:H	2.31	0.42
1:E:114:TYR:CD2	1:E:431:GLY:HA3	2.54	0.42
1:F:202:MET:HE2	1:F:202:MET:HA	1.98	0.42
1:F:235:ILE:HG21	1:F:367:PRO:HG3	2.00	0.42
1:G:68:MET:CE	1:G:88:ARG:HG3	2.49	0.42
1:G:136:ASP:N	1:G:153:ASP:HB2	2.23	0.42
1:G:401:PRO:O	1:G:403:GLU:N	2.52	0.42
1:H:214:ALA:HB3	1:H:218:GLN:HG3	2.01	0.42
1:H:258:LYS:N	1:H:317:ASN:ND2	2.67	0.42
1:I:36:HIS:HB2	1:I:37:GLN:H	1.45	0.42
1:I:78:PRO:CA	1:I:79:PHE:CD2	3.02	0.42
1:I:344:ARG:NH1	1:I:357:GLU:OE1	2.51	0.42
1:J:24:THR:CG2	1:J:25:LYS:H	2.30	0.42
1:J:202:MET:HG2	1:J:237:ILE:HG23	2.01	0.42
1:J:265:GLY:O	1:J:266:SER:C	2.58	0.42
1:J:272:MET:HE3	1:J:374:LEU:HB3	2.01	0.42
1:J:390:GLU:CG	1:J:391:PRO:HD2	2.48	0.42
1:J:390:GLU:HG3	1:J:391:PRO:HD2	2.01	0.42
1:J:401:PRO:O	1:J:403:GLU:N	2.52	0.42
1:K:48:MET:O	1:K:48:MET:HG2	2.18	0.42
1:K:295:LEU:HB3	1:K:388:PRO:HG3	2.01	0.42
1:K:407:ILE:HA	1:K:408:PRO:HD3	1.70	0.42
1:L:102:ARG:HH21	1:L:102:ARG:HD2	1.69	0.42
1:L:167:GLY:O	1:L:169:LYS:HG2	2.18	0.42
1:L:390:GLU:HG3	1:L:391:PRO:HD2	2.01	0.42
1:L:412:GLY:C	1:L:413:SER:HG	2.22	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:68:MET:CE	1:A:88:ARG:HG3	2.49	0.42
1:B:119:GLY:C	1:B:121:ALA:H	2.23	0.42
1:B:167:GLY:O	1:B:169:LYS:HG2	2.18	0.42
1:B:295:LEU:O	1:B:388:PRO:CD	2.67	0.42
1:B:403:GLU:OE1	1:B:406:GLU:HG3	2.19	0.42
1:B:461:GLU:CD	1:H:316:THR:HG21	2.39	0.42
1:C:2:ALA:C	1:C:4:HIS:N	2.69	0.42
1:C:265:GLY:O	1:C:266:SER:C	2.58	0.42
1:C:390:GLU:CG	1:C:391:PRO:HD2	2.48	0.42
1:C:399:LEU:O	1:C:399:LEU:HG	2.19	0.42
1:D:19:LEU:HD11	1:D:240:TYR:CD1	2.54	0.42
1:D:24:THR:CG2	1:D:25:LYS:H	2.30	0.42
1:D:167:GLY:O	1:D:169:LYS:HG2	2.19	0.42
1:D:348:VAL:HG12	1:D:354:ARG:HA	1.99	0.42
1:E:25:LYS:HD2	1:E:25:LYS:HA	1.66	0.42
1:E:134:LEU:HD12	1:E:134:LEU:HA	1.81	0.42
1:E:321:ARG:HH11	1:E:321:ARG:HD3	1.60	0.42
1:E:344:ARG:NH1	1:E:357:GLU:OE1	2.51	0.42
1:F:68:MET:CE	1:F:88:ARG:HG3	2.49	0.42
1:F:214:ALA:HB3	1:F:218:GLN:HG3	2.01	0.42
1:F:321:ARG:CG	1:F:322:LEU:N	2.81	0.42
1:G:399:LEU:O	1:G:399:LEU:HG	2.19	0.42
1:H:114:TYR:O	1:H:115:LEU:C	2.57	0.42
1:H:136:ASP:N	1:H:153:ASP:HB2	2.23	0.42
1:H:202:MET:HE2	1:H:202:MET:HA	1.98	0.42
1:H:403:GLU:OE1	1:H:406:GLU:HG3	2.19	0.42
1:H:426:GLU:OE1	1:H:426:GLU:HA	2.17	0.42
1:I:19:LEU:HD11	1:I:240:TYR:CD1	2.54	0.42
1:I:338:ASN:C	1:I:339:ARG:O	2.58	0.42
1:J:19:LEU:HD11	1:J:240:TYR:CD1	2.54	0.42
1:J:20:ARG:HD2	1:J:237:ILE:CD1	2.48	0.42
1:J:67:LEU:O	1:J:86:ILE:CD1	2.66	0.42
1:J:258:LYS:N	1:J:317:ASN:ND2	2.67	0.42
1:J:339:ARG:N	1:J:339:ARG:CZ	2.81	0.42
1:J:348:VAL:HG12	1:J:354:ARG:HA	1.99	0.42
1:K:214:ALA:HB3	1:K:218:GLN:HG3	2.01	0.42
1:K:265:GLY:O	1:K:266:SER:C	2.58	0.42
1:K:362:ASP:HB2	1:K:363:PRO:HD2	2.01	0.42
1:L:2:ALA:C	1:L:4:HIS:N	2.69	0.42
1:L:48:MET:O	1:L:48:MET:HG2	2.18	0.42
1:L:131:GLU:HG3	1:L:267:GLY:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:202:MET:HG2	1:L:237:ILE:HG23	2.01	0.42
1:A:48:MET:HG2	1:A:48:MET:O	2.18	0.42
1:A:88:ARG:CZ	1:A:109:LYS:HZ1	2.25	0.42
1:A:295:LEU:O	1:A:388:PRO:CD	2.67	0.42
1:A:337:ARG:HB2	1:F:58:LYS:HB3	2.00	0.42
1:B:48:MET:CB	1:B:62:GLU:O	2.64	0.42
1:B:350:SER:HA	1:B:351:PRO:HD2	1.65	0.42
1:B:390:GLU:HG3	1:B:391:PRO:HD2	2.01	0.42
1:C:70:ASP:C	1:C:72:SER:N	2.71	0.42
1:C:109:LYS:O	1:C:112:GLU:N	2.52	0.42
1:C:207:GLU:O	1:C:208:ALA:CB	2.66	0.42
1:C:214:ALA:HB3	1:C:218:GLN:HG3	2.01	0.42
1:C:321:ARG:CG	1:C:322:LEU:N	2.81	0.42
1:D:67:LEU:O	1:D:86:ILE:CD1	2.66	0.42
1:D:119:GLY:C	1:D:121:ALA:H	2.22	0.42
1:D:235:ILE:HB	1:D:367:PRO:HG2	2.01	0.42
1:D:390:GLU:HG3	1:D:391:PRO:HD2	2.01	0.42
1:D:437:GLU:O	1:D:441:ALA:N	2.53	0.42
1:E:19:LEU:HD11	1:E:240:TYR:CD1	2.54	0.42
1:E:30:HIS:N	1:F:180:PHE:O	2.48	0.42
1:E:68:MET:HE1	1:E:88:ARG:HB2	1.89	0.42
1:E:109:LYS:HG3	1:E:109:LYS:H	1.37	0.42
1:E:309:ASN:CB	1:E:313:ASN:ND2	2.82	0.42
1:E:338:ASN:C	1:E:339:ARG:O	2.58	0.42
1:E:401:PRO:O	1:E:403:GLU:N	2.52	0.42
1:E:403:GLU:OE1	1:E:406:GLU:HG3	2.19	0.42
1:E:412:GLY:C	1:E:413:SER:OG	2.58	0.42
1:F:114:TYR:O	1:F:115:LEU:C	2.57	0.42
1:F:136:ASP:N	1:F:153:ASP:HB2	2.23	0.42
1:F:426:GLU:OE1	1:F:426:GLU:HA	2.17	0.42
1:G:92:LEU:CA	1:G:97:LEU:H	2.31	0.42
1:G:114:TYR:CD2	1:G:431:GLY:HA3	2.54	0.42
1:G:295:LEU:O	1:G:388:PRO:CD	2.67	0.42
1:G:299:GLY:HA3	1:G:386:ILE:CG2	2.49	0.42
1:G:337:ARG:HB2	1:H:58:LYS:HB3	2.00	0.42
1:H:43:PHE:CE2	1:H:69:PRO:HB3	2.45	0.42
1:H:154:ILE:O	1:H:155:GLU:CB	2.50	0.42
1:H:379:LEU:O	1:H:380:ASP:C	2.55	0.42
1:H:390:GLU:CG	1:H:391:PRO:HD2	2.49	0.42
1:I:208:ALA:HB2	1:J:33:ILE:HD13	2.02	0.42
1:I:208:ALA:HA	1:J:32:THR:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:309:ASN:CB	1:I:313:ASN:ND2	2.82	0.42
1:J:39:ASN:ND2	1:J:39:ASN:N	2.67	0.42
1:J:208:ALA:HB2	1:K:33:ILE:HD13	2.01	0.42
1:J:399:LEU:O	1:J:399:LEU:HG	2.19	0.42
1:J:462:PHE:O	1:J:463:GLU:C	2.57	0.42
1:K:207:GLU:O	1:K:208:ALA:CB	2.66	0.42
1:K:339:ARG:N	1:K:339:ARG:CZ	2.81	0.42
1:K:385:LYS:O	1:K:386:ILE:HB	2.19	0.42
1:K:390:GLU:HG3	1:K:391:PRO:HD2	2.01	0.42
1:K:403:GLU:OE1	1:K:406:GLU:HG3	2.19	0.42
1:K:410:VAL:O	1:K:410:VAL:HG13	2.18	0.42
1:L:78:PRO:CA	1:L:79:PHE:CD2	3.02	0.42
1:L:109:LYS:O	1:L:112:GLU:N	2.52	0.42
1:L:119:GLY:C	1:L:121:ALA:H	2.23	0.42
1:L:258:LYS:N	1:L:317:ASN:ND2	2.66	0.42
1:L:295:LEU:O	1:L:388:PRO:CD	2.67	0.42
1:L:390:GLU:CG	1:L:391:PRO:HD2	2.48	0.42
1:A:92:LEU:CA	1:A:97:LEU:H	2.31	0.42
1:A:109:LYS:O	1:A:112:GLU:N	2.52	0.42
1:A:390:GLU:HG3	1:A:391:PRO:HD2	2.01	0.42
1:A:403:GLU:C	1:A:405:LYS:N	2.71	0.42
1:B:78:PRO:CA	1:B:79:PHE:CD2	3.02	0.42
1:B:114:TYR:CD2	1:B:431:GLY:HA3	2.53	0.42
1:B:449:GLU:OE1	1:H:465:TYR:HE2	1.98	0.42
1:B:462:PHE:O	1:B:463:GLU:C	2.57	0.42
1:C:90:ASP:O	1:C:91:ILE:CG2	2.66	0.42
1:C:131:GLU:HG3	1:C:267:GLY:H	1.84	0.42
1:D:32:THR:O	1:E:208:ALA:HA	2.20	0.42
1:D:110:ARG:HH11	1:D:110:ARG:HD3	1.60	0.42
1:D:338:ASN:C	1:D:339:ARG:O	2.58	0.42
1:D:339:ARG:N	1:D:339:ARG:CZ	2.81	0.42
1:D:339:ARG:HD2	1:D:340:SER:N	2.34	0.42
1:D:390:GLU:HB3	1:D:391:PRO:CD	2.45	0.42
1:D:462:PHE:O	1:D:463:GLU:C	2.57	0.42
1:E:26:GLY:O	1:E:27:LYS:CG	2.57	0.42
1:E:33:ILE:HD13	1:F:208:ALA:HB2	2.02	0.42
1:E:39:ASN:ND2	1:E:39:ASN:N	2.67	0.42
1:E:68:MET:CE	1:E:88:ARG:HG3	2.49	0.42
1:E:120:ILE:CD1	1:E:382:ILE:CG2	2.94	0.42
1:E:207:GLU:O	1:E:208:ALA:CB	2.66	0.42
1:E:265:GLY:O	1:E:266:SER:C	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:339:ARG:N	1:E:339:ARG:CZ	2.81	0.42
1:E:403:GLU:C	1:E:405:LYS:N	2.71	0.42
1:F:67:LEU:O	1:F:86:ILE:CD1	2.66	0.42
1:F:252:THR:HG21	1:L:466:TYR:CZ	2.33	0.42
1:F:311:LEU:HD23	1:F:311:LEU:HA	1.55	0.42
1:F:390:GLU:CG	1:F:391:PRO:HD2	2.49	0.42
1:F:465:TYR:HE2	1:L:449:GLU:OE1	1.99	0.42
1:G:4:HIS:C	1:G:6:LEU:N	2.71	0.42
1:G:109:LYS:O	1:G:112:GLU:N	2.52	0.42
1:G:437:GLU:O	1:G:441:ALA:N	2.53	0.42
1:H:167:GLY:O	1:H:169:LYS:HG2	2.18	0.42
1:H:208:ALA:HB2	1:I:33:ILE:HD13	2.02	0.42
1:H:437:GLU:O	1:H:441:ALA:N	2.53	0.42
1:I:207:GLU:O	1:I:208:ALA:CB	2.66	0.42
1:I:403:GLU:OE1	1:I:406:GLU:HG3	2.19	0.42
1:I:412:GLY:C	1:I:413:SER:OG	2.58	0.42
1:J:295:LEU:O	1:J:388:PRO:CD	2.67	0.42
1:J:338:ASN:C	1:J:339:ARG:O	2.58	0.42
1:J:339:ARG:HD2	1:J:340:SER:N	2.34	0.42
1:J:445:LEU:HD23	1:J:445:LEU:HA	1.69	0.42
1:K:295:LEU:O	1:K:388:PRO:CD	2.67	0.42
1:L:295:LEU:HB3	1:L:388:PRO:HG3	2.01	0.42
1:L:325:GLY:C	1:L:326:TYR:CD2	2.91	0.42
1:L:350:SER:HA	1:L:351:PRO:HD2	1.65	0.42
1:L:462:PHE:O	1:L:463:GLU:C	2.57	0.42
1:A:4:HIS:C	1:A:6:LEU:N	2.71	0.42
1:A:239:LYS:NZ	1:A:363:PRO:O	2.53	0.42
1:A:325:GLY:C	1:A:326:TYR:CD2	2.90	0.42
1:A:437:GLU:O	1:A:441:ALA:N	2.53	0.42
1:B:19:LEU:HD11	1:B:240:TYR:CD1	2.54	0.42
1:B:67:LEU:HD11	1:B:88:ARG:HH11	1.84	0.42
1:B:265:GLY:O	1:B:266:SER:C	2.58	0.42
1:B:399:LEU:O	1:B:399:LEU:HG	2.19	0.42
1:C:66:VAL:HA	1:C:87:ILE:CD1	2.48	0.42
1:C:295:LEU:O	1:C:388:PRO:CD	2.67	0.42
1:C:403:GLU:OE1	1:C:406:GLU:HG3	2.19	0.42
1:C:409:GLN:O	1:C:411:ALA:N	2.52	0.42
1:D:36:HIS:HB2	1:D:37:GLN:H	1.45	0.42
1:D:240:TYR:O	1:D:244:ASN:HB2	2.20	0.42
1:D:258:LYS:N	1:D:317:ASN:ND2	2.67	0.42
1:D:403:GLU:OE1	1:D:406:GLU:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:295:LEU:O	1:E:388:PRO:CD	2.67	0.42
1:F:109:LYS:O	1:F:112:GLU:N	2.52	0.42
1:F:240:TYR:O	1:F:244:ASN:HB2	2.20	0.42
1:G:48:MET:HG2	1:G:48:MET:O	2.18	0.42
1:G:131:GLU:HG3	1:G:267:GLY:H	1.84	0.42
1:G:239:LYS:NZ	1:G:363:PRO:O	2.53	0.42
1:G:325:GLY:C	1:G:326:TYR:CD2	2.90	0.42
1:G:390:GLU:HG3	1:G:391:PRO:HD2	2.01	0.42
1:G:403:GLU:C	1:G:405:LYS:N	2.71	0.42
1:H:109:LYS:O	1:H:112:GLU:N	2.52	0.42
1:H:240:TYR:O	1:H:244:ASN:HB2	2.20	0.42
1:I:68:MET:CE	1:I:88:ARG:HG3	2.49	0.42
1:I:109:LYS:HG3	1:I:109:LYS:H	1.37	0.42
1:I:154:ILE:O	1:I:155:GLU:CB	2.50	0.42
1:I:202:MET:HG2	1:I:237:ILE:HG23	2.01	0.42
1:I:265:GLY:O	1:I:266:SER:C	2.58	0.42
1:I:339:ARG:N	1:I:339:ARG:CZ	2.81	0.42
1:I:462:PHE:O	1:I:463:GLU:C	2.57	0.42
1:J:119:GLY:C	1:J:121:ALA:H	2.23	0.42
1:J:274:LEU:HD11	1:J:282:PHE:CE1	2.44	0.42
1:J:387:HIS:HA	1:J:388:PRO:HD2	1.46	0.42
1:J:403:GLU:OE1	1:J:406:GLU:HG3	2.19	0.42
1:J:437:GLU:O	1:J:441:ALA:N	2.53	0.42
1:K:109:LYS:O	1:K:112:GLU:N	2.52	0.42
1:K:321:ARG:CG	1:K:322:LEU:N	2.82	0.42
1:K:399:LEU:O	1:K:399:LEU:HG	2.19	0.42
1:L:114:TYR:CD2	1:L:431:GLY:HA3	2.54	0.42
1:L:235:ILE:HB	1:L:367:PRO:HG2	2.01	0.42
1:L:265:GLY:O	1:L:266:SER:C	2.58	0.42
1:L:306:LYS:O	1:L:307:ALA:C	2.56	0.42
1:A:131:GLU:HG3	1:A:267:GLY:H	1.84	0.42
1:A:207:GLU:O	1:A:208:ALA:CB	2.66	0.42
1:A:214:ALA:HB3	1:A:218:GLN:HG3	2.01	0.42
1:A:299:GLY:HA3	1:A:386:ILE:CG2	2.49	0.42
1:A:311:LEU:HD12	1:A:373:ALA:HB2	2.02	0.42
1:B:226:ASN:HB3	1:B:227:THR:H	1.53	0.42
1:B:227:THR:O	1:B:228:MET:O	2.38	0.42
1:B:240:TYR:O	1:B:244:ASN:HB2	2.20	0.42
1:B:258:LYS:N	1:B:317:ASN:ND2	2.67	0.42
1:B:385:LYS:O	1:B:386:ILE:HB	2.19	0.42
1:B:390:GLU:CG	1:B:391:PRO:HD2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:12:HIS:O	1:C:13:GLU:CB	2.43	0.42
1:C:32:THR:O	1:D:208:ALA:HA	2.19	0.42
1:C:114:TYR:O	1:C:115:LEU:C	2.57	0.42
1:C:240:TYR:O	1:C:244:ASN:HB2	2.20	0.42
1:D:58:LYS:HB3	1:E:337:ARG:HB2	2.00	0.42
1:D:131:GLU:HG3	1:D:267:GLY:H	1.84	0.42
1:D:228:MET:HE2	1:D:371:PHE:CA	2.49	0.42
1:D:309:ASN:CB	1:D:313:ASN:ND2	2.82	0.42
1:E:65:MET:N	1:E:87:ILE:CG2	2.82	0.42
1:E:437:GLU:O	1:E:441:ALA:N	2.53	0.42
1:F:2:ALA:HA	1:F:5:VAL:HB	2.02	0.42
1:F:227:THR:O	1:F:228:MET:O	2.38	0.42
1:F:295:LEU:O	1:F:388:PRO:CD	2.67	0.42
1:F:437:GLU:O	1:F:441:ALA:N	2.53	0.42
1:G:207:GLU:O	1:G:208:ALA:CB	2.67	0.42
1:G:227:THR:O	1:G:228:MET:O	2.38	0.42
1:G:274:LEU:HD11	1:G:282:PHE:CE1	2.44	0.42
1:H:67:LEU:O	1:H:86:ILE:CD1	2.66	0.42
1:H:295:LEU:O	1:H:388:PRO:CD	2.67	0.42
1:I:39:ASN:ND2	1:I:39:ASN:N	2.67	0.42
1:I:65:MET:N	1:I:87:ILE:CG2	2.82	0.42
1:I:110:ARG:O	1:I:114:TYR:N	2.43	0.42
1:I:120:ILE:CD1	1:I:382:ILE:CG2	2.94	0.42
1:I:134:LEU:HD12	1:I:134:LEU:HA	1.80	0.42
1:I:295:LEU:O	1:I:388:PRO:CD	2.67	0.42
1:I:337:ARG:HB2	1:J:58:LYS:HB3	2.00	0.42
1:I:387:HIS:HA	1:I:388:PRO:HD2	1.46	0.42
1:I:401:PRO:O	1:I:403:GLU:N	2.52	0.42
1:I:403:GLU:C	1:I:405:LYS:N	2.71	0.42
1:I:437:GLU:O	1:I:441:ALA:N	2.53	0.42
1:J:228:MET:HE2	1:J:371:PHE:CA	2.49	0.42
1:J:240:TYR:O	1:J:244:ASN:HB2	2.20	0.42
1:J:309:ASN:CB	1:J:313:ASN:ND2	2.82	0.42
1:J:426:GLU:OE1	1:J:426:GLU:HA	2.17	0.42
1:K:90:ASP:O	1:K:91:ILE:CG2	2.66	0.42
1:K:110:ARG:HH11	1:K:110:ARG:HD3	1.60	0.42
1:K:131:GLU:HG3	1:K:267:GLY:H	1.84	0.42
1:K:165:GLU:C	1:K:167:GLY:H	2.08	0.42
1:K:239:LYS:NZ	1:K:363:PRO:O	2.53	0.42
1:K:240:TYR:O	1:K:244:ASN:HB2	2.20	0.42
1:K:390:GLU:CG	1:K:391:PRO:HD2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:17:VAL:O	1:L:18:ASP:HB3	2.20	0.42
1:L:19:LEU:HD11	1:L:240:TYR:CD1	2.54	0.42
1:L:64:ASP:C	1:L:87:ILE:HG21	2.40	0.42
1:L:338:ASN:C	1:L:339:ARG:O	2.58	0.42
1:L:385:LYS:O	1:L:386:ILE:HB	2.19	0.42
1:L:399:LEU:O	1:L:399:LEU:HG	2.19	0.42
1:A:17:VAL:HG11	1:A:33:ILE:CG2	2.48	0.42
1:A:110:ARG:HH11	1:A:110:ARG:HD3	1.60	0.42
1:A:202:MET:HG2	1:A:237:ILE:HG23	2.01	0.42
1:A:216:ALA:HB3	1:A:260:MET:HE2	2.00	0.42
1:A:227:THR:O	1:A:228:MET:O	2.38	0.42
1:A:258:LYS:N	1:A:317:ASN:ND2	2.67	0.42
1:A:409:GLN:O	1:A:411:ALA:N	2.52	0.42
1:B:295:LEU:HB3	1:B:388:PRO:HG3	2.01	0.42
1:B:325:GLY:C	1:B:326:TYR:CD2	2.91	0.42
1:B:331:MET:HB2	1:B:341:ALA:HA	2.00	0.42
1:B:338:ASN:C	1:B:339:ARG:O	2.58	0.42
1:C:24:THR:HB	1:C:26:GLY:N	2.31	0.42
1:C:33:ILE:HD13	1:D:208:ALA:HB2	2.02	0.42
1:C:256:MET:HA	1:C:257:PRO:HD3	1.86	0.42
1:C:339:ARG:N	1:C:339:ARG:HH11	2.12	0.42
1:C:339:ARG:HD2	1:C:340:SER:N	2.34	0.42
1:D:295:LEU:O	1:D:388:PRO:CD	2.67	0.42
1:E:32:THR:O	1:F:208:ALA:HA	2.20	0.42
1:E:67:LEU:O	1:E:86:ILE:CD1	2.66	0.42
1:E:154:ILE:O	1:E:155:GLU:CB	2.50	0.42
1:E:202:MET:HG2	1:E:237:ILE:HG23	2.01	0.42
1:E:227:THR:O	1:E:228:MET:O	2.38	0.42
1:E:239:LYS:NZ	1:E:363:PRO:O	2.53	0.42
1:E:462:PHE:O	1:E:463:GLU:C	2.57	0.42
1:F:167:GLY:O	1:F:169:LYS:HG2	2.19	0.42
1:G:17:VAL:HG11	1:G:33:ILE:CG2	2.48	0.42
1:G:202:MET:HG2	1:G:237:ILE:HG23	2.01	0.42
1:G:214:ALA:HB3	1:G:218:GLN:HG3	2.01	0.42
1:H:2:ALA:HA	1:H:5:VAL:HB	2.02	0.42
1:H:227:THR:O	1:H:228:MET:O	2.38	0.42
1:H:294:ALA:C	1:H:298:ILE:CD1	2.82	0.42
1:H:339:ARG:HD2	1:H:340:SER:N	2.34	0.42
1:I:109:LYS:O	1:I:112:GLU:N	2.52	0.42
1:I:239:LYS:NZ	1:I:363:PRO:O	2.53	0.42
1:I:284:GLY:C	1:I:290:LEU:O	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:321:ARG:HH11	1:I:321:ARG:HD3	1.59	0.42
1:K:114:TYR:O	1:K:115:LEU:C	2.57	0.42
1:K:202:MET:HG2	1:K:237:ILE:HG23	2.01	0.42
1:K:208:ALA:HA	1:L:32:THR:O	2.19	0.42
1:K:409:GLN:O	1:K:411:ALA:N	2.52	0.42
1:L:67:LEU:HD11	1:L:88:ARG:HH11	1.84	0.42
1:L:214:ALA:HB3	1:L:218:GLN:HG3	2.01	0.42
1:L:227:THR:O	1:L:228:MET:O	2.38	0.42
1:L:351:PRO:CG	1:L:352:LYS:H	2.33	0.42
1:L:428:LEU:HD12	1:L:428:LEU:HA	1.88	0.42
1:A:19:LEU:HD11	1:A:240:TYR:CD1	2.54	0.42
1:A:114:TYR:O	1:A:115:LEU:C	2.57	0.42
1:A:240:TYR:O	1:A:244:ASN:HB2	2.20	0.42
1:A:362:ASP:HB2	1:A:363:PRO:HD2	2.00	0.42
1:A:451:ASP:O	1:A:454:ARG:N	2.53	0.42
1:B:64:ASP:C	1:B:87:ILE:HG21	2.40	0.42
1:B:214:ALA:HB3	1:B:218:GLN:HG3	2.01	0.42
1:C:239:LYS:NZ	1:C:363:PRO:O	2.53	0.42
1:C:407:ILE:HA	1:C:408:PRO:HD3	1.70	0.42
1:D:239:LYS:NZ	1:D:363:PRO:O	2.53	0.42
1:D:274:LEU:HD11	1:D:282:PHE:CE1	2.44	0.42
1:E:2:ALA:O	1:E:6:LEU:CD2	2.63	0.42
1:E:114:TYR:O	1:E:115:LEU:C	2.57	0.42
1:E:284:GLY:C	1:E:290:LEU:O	2.58	0.42
1:E:379:LEU:O	1:E:380:ASP:C	2.55	0.42
1:F:154:ILE:O	1:F:155:GLU:CB	2.50	0.42
1:F:256:MET:HB3	1:F:256:MET:HE2	1.85	0.42
1:F:265:GLY:O	1:F:266:SER:C	2.58	0.42
1:F:399:LEU:O	1:F:399:LEU:HG	2.19	0.42
1:G:114:TYR:O	1:G:115:LEU:C	2.57	0.42
1:G:240:TYR:O	1:G:244:ASN:HB2	2.20	0.42
1:G:258:LYS:N	1:G:317:ASN:ND2	2.67	0.42
1:G:265:GLY:O	1:G:266:SER:C	2.58	0.42
1:G:301:VAL:HG23	1:G:301:VAL:H	1.32	0.42
1:G:451:ASP:O	1:G:454:ARG:N	2.53	0.42
1:H:180:PHE:O	1:I:30:HIS:N	2.48	0.42
1:H:284:GLY:C	1:H:290:LEU:O	2.58	0.42
1:H:311:LEU:HD23	1:H:311:LEU:HA	1.54	0.42
1:I:2:ALA:O	1:I:6:LEU:CD2	2.63	0.42
1:I:26:GLY:O	1:I:27:LYS:CG	2.57	0.42
1:I:67:LEU:O	1:I:86:ILE:CD1	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:114:TYR:O	1:I:115:LEU:C	2.57	0.42
1:I:199:MET:HG2	1:I:204:LEU:CD1	2.50	0.42
1:I:409:GLN:O	1:I:411:ALA:N	2.52	0.42
1:J:92:LEU:CA	1:J:97:LEU:H	2.31	0.42
1:J:131:GLU:HG3	1:J:267:GLY:H	1.84	0.42
1:K:24:THR:HB	1:K:26:GLY:N	2.30	0.42
1:K:66:VAL:HA	1:K:87:ILE:CD1	2.48	0.42
1:K:169:LYS:C	1:L:252:THR:OG1	2.58	0.42
1:K:403:GLU:C	1:K:405:LYS:N	2.71	0.42
1:L:240:TYR:O	1:L:244:ASN:HB2	2.20	0.42
1:A:208:ALA:HB2	1:F:33:ILE:HD13	2.01	0.42
1:A:235:ILE:HB	1:A:367:PRO:HG2	2.00	0.42
1:A:265:GLY:O	1:A:266:SER:C	2.58	0.42
1:B:17:VAL:O	1:B:18:ASP:HB3	2.20	0.42
1:B:32:THR:O	1:C:208:ALA:HA	2.20	0.42
1:B:68:MET:CE	1:B:88:ARG:HG3	2.49	0.42
1:B:339:ARG:HD2	1:B:340:SER:N	2.34	0.42
1:C:30:HIS:N	1:D:180:PHE:O	2.48	0.42
1:C:39:ASN:ND2	1:C:39:ASN:N	2.67	0.42
1:C:199:MET:HG2	1:C:204:LEU:CD1	2.50	0.42
1:C:202:MET:HG2	1:C:237:ILE:HG23	2.01	0.42
1:C:437:GLU:O	1:C:441:ALA:N	2.53	0.42
1:C:461:GLU:CD	1:I:316:THR:HG21	2.39	0.42
1:D:90:ASP:O	1:D:91:ILE:CG2	2.66	0.42
1:D:216:ALA:HB3	1:D:260:MET:HE2	2.01	0.42
1:D:387:HIS:HA	1:D:388:PRO:HD2	1.46	0.42
1:E:110:ARG:O	1:E:114:TYR:N	2.43	0.42
1:E:154:ILE:H	1:E:154:ILE:HG13	1.39	0.42
1:E:256:MET:HA	1:E:257:PRO:HD3	1.86	0.42
1:E:387:HIS:HA	1:E:388:PRO:HD2	1.46	0.42
1:E:409:GLN:O	1:E:411:ALA:N	2.52	0.42
1:F:284:GLY:C	1:F:290:LEU:O	2.58	0.42
1:F:311:LEU:HD12	1:F:373:ALA:HB2	2.02	0.42
1:F:338:ASN:C	1:F:339:ARG:O	2.58	0.42
1:G:2:ALA:O	1:G:6:LEU:CD2	2.63	0.42
1:G:19:LEU:HD11	1:G:240:TYR:CD1	2.54	0.42
1:G:110:ARG:HH11	1:G:110:ARG:HD3	1.60	0.42
1:G:235:ILE:HB	1:G:367:PRO:HG2	2.01	0.42
1:G:311:LEU:HD12	1:G:373:ALA:HB2	2.02	0.42
1:G:362:ASP:HB2	1:G:363:PRO:HD2	2.01	0.42
1:G:409:GLN:O	1:G:411:ALA:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:116:ARG:HE	1:H:116:ARG:HB2	1.57	0.42
1:H:208:ALA:HA	1:I:32:THR:O	2.20	0.42
1:H:228:MET:HE2	1:H:371:PHE:CA	2.49	0.42
1:H:265:GLY:O	1:H:266:SER:C	2.58	0.42
1:H:338:ASN:C	1:H:339:ARG:O	2.58	0.42
1:H:399:LEU:O	1:H:399:LEU:HG	2.19	0.42
1:I:227:THR:O	1:I:228:MET:O	2.38	0.42
1:I:331:MET:HB2	1:I:341:ALA:HA	2.01	0.42
1:I:383:LYS:HE3	1:I:383:LYS:HB3	1.12	0.42
1:J:208:ALA:HA	1:K:32:THR:O	2.20	0.42
1:J:239:LYS:NZ	1:J:363:PRO:O	2.53	0.42
1:K:12:HIS:O	1:K:13:GLU:CB	2.43	0.42
1:K:208:ALA:HB2	1:L:33:ILE:HD13	2.01	0.42
1:L:67:LEU:HD12	1:L:68:MET:CG	2.26	0.42
1:L:284:GLY:C	1:L:290:LEU:O	2.58	0.42
1:L:445:LEU:HD23	1:L:445:LEU:HA	1.68	0.42
1:A:67:LEU:HG	1:A:88:ARG:HB3	2.02	0.42
1:A:284:GLY:C	1:A:290:LEU:O	2.58	0.42
1:A:339:ARG:HD2	1:A:340:SER:N	2.34	0.42
1:B:284:GLY:C	1:B:290:LEU:O	2.58	0.42
1:C:165:GLU:C	1:C:167:GLY:H	2.09	0.42
1:C:284:GLY:C	1:C:290:LEU:O	2.58	0.42
1:D:92:LEU:CA	1:D:97:LEU:H	2.31	0.42
1:D:284:GLY:C	1:D:290:LEU:O	2.58	0.42
1:D:376:MET:CE	1:D:433:VAL:HG13	2.41	0.42
1:D:445:LEU:HD23	1:D:445:LEU:HA	1.68	0.42
1:E:91:ILE:HG23	1:E:96:THR:HA	2.02	0.42
1:E:109:LYS:O	1:E:112:GLU:N	2.52	0.42
1:E:199:MET:HG2	1:E:204:LEU:CD1	2.50	0.42
1:E:252:THR:OG1	1:F:169:LYS:C	2.59	0.42
1:E:316:THR:HG21	1:K:461:GLU:CD	2.39	0.42
1:E:383:LYS:HE3	1:E:383:LYS:HB3	1.12	0.42
1:E:385:LYS:O	1:E:386:ILE:HB	2.19	0.42
1:F:339:ARG:HD2	1:F:340:SER:N	2.34	0.42
1:F:418:LEU:HA	1:F:418:LEU:HD22	1.44	0.42
1:G:4:HIS:HB3	1:G:5:VAL:H	1.65	0.42
1:G:169:LYS:C	1:H:252:THR:OG1	2.59	0.42
1:G:208:ALA:HA	1:H:32:THR:O	2.20	0.42
1:G:216:ALA:HB3	1:G:260:MET:HE2	2.00	0.42
1:G:284:GLY:C	1:G:290:LEU:O	2.58	0.42
1:G:339:ARG:HD2	1:G:340:SER:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:169:LYS:C	1:I:252:THR:OG1	2.58	0.42
1:I:2:ALA:HA	1:I:5:VAL:HB	2.02	0.42
1:I:385:LYS:O	1:I:386:ILE:HB	2.19	0.42
1:I:399:LEU:O	1:I:399:LEU:HG	2.19	0.42
1:J:120:ILE:CG2	1:J:382:ILE:HG23	2.46	0.42
1:J:311:LEU:HD12	1:J:373:ALA:HB2	2.02	0.42
1:J:376:MET:CE	1:J:433:VAL:HG13	2.41	0.42
1:J:385:LYS:O	1:J:386:ILE:HB	2.19	0.42
1:K:39:ASN:ND2	1:K:39:ASN:N	2.67	0.42
1:K:284:GLY:C	1:K:290:LEU:O	2.58	0.42
1:K:339:ARG:HD2	1:K:340:SER:N	2.34	0.42
1:K:412:GLY:C	1:K:413:SER:OG	2.58	0.42
1:L:68:MET:CE	1:L:88:ARG:HG3	2.49	0.42
1:L:199:MET:HG2	1:L:204:LEU:CD1	2.50	0.42
1:L:331:MET:CE	1:L:396:LEU:CD1	2.81	0.42
1:L:331:MET:HB2	1:L:341:ALA:HA	2.01	0.42
1:L:362:ASP:HB2	1:L:363:PRO:HD2	2.00	0.42
1:L:437:GLU:O	1:L:441:ALA:N	2.53	0.42
1:L:437:GLU:HB2	1:L:438:ALA:H	1.11	0.42
1:A:2:ALA:O	1:A:6:LEU:CD2	2.63	0.41
1:A:64:ASP:C	1:A:87:ILE:HG21	2.40	0.41
1:A:338:ASN:C	1:A:339:ARG:O	2.58	0.41
1:B:9:LEU:HD12	1:B:9:LEU:HA	1.72	0.41
1:B:24:THR:HB	1:B:26:GLY:N	2.30	0.41
1:B:111:ALA:CB	1:B:433:VAL:HG21	2.50	0.41
1:B:252:THR:OG1	1:C:169:LYS:C	2.59	0.41
1:B:351:PRO:CG	1:B:352:LYS:H	2.33	0.41
1:C:17:VAL:O	1:C:18:ASP:HB3	2.20	0.41
1:C:137:ASP:OD1	1:D:168:ASN:N	2.53	0.41
1:D:64:ASP:C	1:D:87:ILE:HG21	2.40	0.41
1:D:65:MET:N	1:D:87:ILE:CG2	2.82	0.41
1:D:120:ILE:CG2	1:D:382:ILE:HG23	2.46	0.41
1:D:385:LYS:O	1:D:386:ILE:HB	2.19	0.41
1:D:461:GLU:CD	1:J:316:THR:HG21	2.39	0.41
1:E:2:ALA:HA	1:E:5:VAL:HB	2.02	0.41
1:E:399:LEU:O	1:E:399:LEU:HG	2.19	0.41
1:F:412:GLY:C	1:F:413:SER:OG	2.58	0.41
1:G:89:CYS:C	1:G:91:ILE:H	2.20	0.41
1:G:111:ALA:CB	1:G:433:VAL:HG21	2.50	0.41
1:G:338:ASN:C	1:G:339:ARG:O	2.58	0.41
1:H:110:ARG:O	1:H:114:TYR:N	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:239:LYS:NZ	1:H:363:PRO:O	2.53	0.41
1:I:68:MET:HE1	1:I:88:ARG:HB2	1.89	0.41
1:J:36:HIS:HB2	1:J:37:GLN:H	1.45	0.41
1:J:64:ASP:C	1:J:87:ILE:HG21	2.40	0.41
1:J:216:ALA:HB3	1:J:260:MET:HE2	2.01	0.41
1:J:284:GLY:C	1:J:290:LEU:O	2.58	0.41
1:K:2:ALA:O	1:K:6:LEU:CD2	2.63	0.41
1:K:17:VAL:O	1:K:18:ASP:HB3	2.20	0.41
1:K:116:ARG:HE	1:K:116:ARG:HB2	1.57	0.41
1:K:199:MET:HG2	1:K:204:LEU:CD1	2.50	0.41
1:K:256:MET:HA	1:K:257:PRO:HD3	1.86	0.41
1:K:437:GLU:O	1:K:441:ALA:N	2.53	0.41
1:L:110:ARG:O	1:L:114:TYR:N	2.43	0.41
1:L:135:PHE:HB3	1:L:153:ASP:HB3	2.02	0.41
1:L:451:ASP:O	1:L:454:ARG:N	2.53	0.41
1:A:18:ASP:OD1	1:A:30:HIS:CG	2.73	0.41
1:A:169:LYS:C	1:F:252:THR:OG1	2.59	0.41
1:A:252:THR:OG1	1:B:169:LYS:C	2.58	0.41
1:A:274:LEU:HD11	1:A:282:PHE:CE1	2.44	0.41
1:B:33:ILE:HD13	1:C:208:ALA:HB2	2.02	0.41
1:B:144:ILE:HG23	1:B:145:SER:N	2.35	0.41
1:B:239:LYS:NZ	1:B:363:PRO:O	2.53	0.41
1:B:330:VAL:HA	1:B:410:VAL:CG1	2.50	0.41
1:B:376:MET:HE2	1:B:433:VAL:HG21	2.02	0.41
1:B:437:GLU:O	1:B:441:ALA:N	2.53	0.41
1:C:111:ALA:CB	1:C:433:VAL:HG21	2.50	0.41
1:C:227:THR:O	1:C:228:MET:O	2.38	0.41
1:D:2:ALA:HA	1:D:5:VAL:HB	2.02	0.41
1:D:426:GLU:OE1	1:D:426:GLU:HA	2.18	0.41
1:E:64:ASP:C	1:E:87:ILE:HG21	2.40	0.41
1:E:331:MET:HB2	1:E:341:ALA:HA	2.01	0.41
1:F:39:ASN:ND2	1:F:39:ASN:N	2.67	0.41
1:G:67:LEU:HG	1:G:88:ARG:HB3	2.02	0.41
1:H:144:ILE:HG23	1:H:145:SER:N	2.35	0.41
1:H:199:MET:HG2	1:H:204:LEU:CD1	2.50	0.41
1:H:311:LEU:HD12	1:H:373:ALA:HB2	2.02	0.41
1:H:412:GLY:C	1:H:413:SER:OG	2.58	0.41
1:J:16:PHE:CA	1:J:33:ILE:O	2.63	0.41
1:J:17:VAL:O	1:J:18:ASP:HB3	2.20	0.41
1:J:65:MET:N	1:J:87:ILE:CG2	2.82	0.41
1:J:90:ASP:O	1:J:91:ILE:CG2	2.66	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:110:ARG:HH11	1:J:110:ARG:HD3	1.60	0.41
1:J:111:ALA:HB2	1:J:433:VAL:CG2	2.50	0.41
1:J:168:ASN:N	1:K:137:ASP:OD1	2.53	0.41
1:J:180:PHE:O	1:K:30:HIS:N	2.48	0.41
1:K:75:VAL:CG2	1:K:84:THR:HG22	2.44	0.41
1:K:120:ILE:CG2	1:K:382:ILE:HG23	2.46	0.41
1:K:330:VAL:HA	1:K:410:VAL:CG1	2.50	0.41
1:L:18:ASP:OD1	1:L:30:HIS:CG	2.73	0.41
1:L:111:ALA:CB	1:L:433:VAL:HG21	2.50	0.41
1:L:226:ASN:HB3	1:L:227:THR:H	1.53	0.41
1:L:339:ARG:HD2	1:L:340:SER:N	2.34	0.41
1:L:418:LEU:HA	1:L:418:LEU:HD22	1.44	0.41
1:A:4:HIS:HB3	1:A:5:VAL:H	1.65	0.41
1:A:17:VAL:O	1:A:18:ASP:HB3	2.20	0.41
1:A:111:ALA:CB	1:A:433:VAL:HG21	2.50	0.41
1:A:412:GLY:C	1:A:413:SER:OG	2.58	0.41
1:B:18:ASP:OD1	1:B:30:HIS:CG	2.73	0.41
1:B:135:PHE:HB3	1:B:153:ASP:HB3	2.02	0.41
1:C:19:LEU:HD11	1:C:240:TYR:CD1	2.54	0.41
1:C:109:LYS:HZ3	1:C:229:THR:HG21	1.86	0.41
1:C:412:GLY:C	1:C:413:SER:OG	2.58	0.41
1:E:137:ASP:OD1	1:F:168:ASN:N	2.53	0.41
1:E:240:TYR:O	1:E:244:ASN:HB2	2.20	0.41
1:F:9:LEU:HD12	1:F:9:LEU:HA	1.72	0.41
1:F:199:MET:HG2	1:F:204:LEU:CD1	2.50	0.41
1:F:239:LYS:NZ	1:F:363:PRO:O	2.53	0.41
1:F:256:MET:HE3	1:L:466:TYR:HA	2.01	0.41
1:G:33:ILE:HD13	1:L:208:ALA:HB2	2.01	0.41
1:G:64:ASP:C	1:G:87:ILE:HG21	2.40	0.41
1:G:68:MET:O	1:G:71:ALA:HB3	2.20	0.41
1:G:208:ALA:HB2	1:H:33:ILE:HD13	2.02	0.41
1:G:252:THR:OG1	1:L:169:LYS:C	2.58	0.41
1:G:331:MET:HE3	1:G:396:LEU:CB	2.50	0.41
1:G:462:PHE:O	1:G:463:GLU:C	2.57	0.41
1:H:9:LEU:HD12	1:H:9:LEU:HA	1.72	0.41
1:H:39:ASN:ND2	1:H:39:ASN:N	2.67	0.41
1:H:309:ASN:CB	1:H:313:ASN:ND2	2.82	0.41
1:H:376:MET:HE3	1:H:433:VAL:HG22	1.94	0.41
1:I:17:VAL:O	1:I:18:ASP:HB3	2.20	0.41
1:I:64:ASP:C	1:I:87:ILE:HG21	2.40	0.41
1:I:81:ALA:C	1:I:82:ASP:OD1	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:91:ILE:HG23	1:I:96:THR:HA	2.02	0.41
1:I:240:TYR:O	1:I:244:ASN:HB2	2.20	0.41
1:I:308:ILE:HG12	1:I:308:ILE:H	1.37	0.41
1:I:337:ARG:C	1:J:58:LYS:HB3	2.41	0.41
1:J:2:ALA:HA	1:J:5:VAL:HB	2.02	0.41
1:K:331:MET:CE	1:K:396:LEU:CD1	2.81	0.41
1:K:387:HIS:HA	1:K:388:PRO:HD2	1.46	0.41
1:L:239:LYS:NZ	1:L:363:PRO:O	2.53	0.41
1:L:330:VAL:HA	1:L:410:VAL:CG1	2.51	0.41
1:A:2:ALA:HA	1:A:5:VAL:HB	2.02	0.41
1:A:33:ILE:HD13	1:B:208:ALA:HB2	2.02	0.41
1:A:68:MET:O	1:A:71:ALA:HB3	2.20	0.41
1:A:208:ALA:HA	1:F:32:THR:O	2.20	0.41
1:B:110:ARG:O	1:B:114:TYR:N	2.43	0.41
1:B:199:MET:HG2	1:B:204:LEU:CD1	2.51	0.41
1:B:451:ASP:O	1:B:454:ARG:N	2.53	0.41
1:C:387:HIS:HA	1:C:388:PRO:HD2	1.46	0.41
1:C:391:PRO:O	1:C:391:PRO:HG2	2.20	0.41
1:C:403:GLU:CB	1:C:406:GLU:CB	2.87	0.41
1:D:17:VAL:O	1:D:18:ASP:HB3	2.20	0.41
1:D:81:ALA:C	1:D:82:ASP:OD1	2.59	0.41
1:D:199:MET:C	1:D:204:LEU:HD12	2.41	0.41
1:D:311:LEU:HD12	1:D:373:ALA:HB2	2.02	0.41
1:D:316:THR:HG21	1:J:461:GLU:CD	2.39	0.41
1:E:24:THR:HB	1:E:26:GLY:N	2.30	0.41
1:E:111:ALA:HB2	1:E:433:VAL:CG2	2.51	0.41
1:E:390:GLU:HG3	1:E:391:PRO:HD2	2.01	0.41
1:E:426:GLU:OE1	1:E:426:GLU:HA	2.17	0.41
1:F:91:ILE:HG23	1:F:96:THR:HA	2.02	0.41
1:F:309:ASN:CB	1:F:313:ASN:ND2	2.82	0.41
1:F:330:VAL:HA	1:F:410:VAL:CG1	2.50	0.41
1:F:331:MET:HB2	1:F:341:ALA:HA	2.01	0.41
1:F:385:LYS:O	1:F:386:ILE:HB	2.19	0.41
1:F:390:GLU:HG3	1:F:391:PRO:HD2	2.01	0.41
1:G:18:ASP:OD1	1:G:30:HIS:CG	2.73	0.41
1:G:58:LYS:HB3	1:L:337:ARG:C	2.41	0.41
1:H:17:VAL:O	1:H:18:ASP:HB3	2.20	0.41
1:H:68:MET:O	1:H:71:ALA:HB3	2.20	0.41
1:H:111:ALA:CB	1:H:433:VAL:HG21	2.50	0.41
1:H:168:ASN:N	1:I:137:ASP:OD1	2.53	0.41
1:H:385:LYS:O	1:H:386:ILE:HB	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:445:LEU:HA	1:H:445:LEU:HD23	1.69	0.41
1:J:91:ILE:HG23	1:J:96:THR:HA	2.02	0.41
1:J:199:MET:HG2	1:J:204:LEU:CD1	2.50	0.41
1:K:111:ALA:CB	1:K:433:VAL:HG21	2.50	0.41
1:K:227:THR:O	1:K:228:MET:O	2.38	0.41
1:K:338:ASN:C	1:K:339:ARG:O	2.58	0.41
1:L:9:LEU:HD12	1:L:9:LEU:HA	1.72	0.41
1:L:24:THR:HB	1:L:26:GLY:N	2.31	0.41
1:L:144:ILE:HG23	1:L:145:SER:N	2.35	0.41
1:L:299:GLY:HA3	1:L:386:ILE:CG2	2.49	0.41
1:L:311:LEU:HD12	1:L:373:ALA:HB2	2.02	0.41
1:A:19:LEU:CD2	1:A:75:VAL:HG21	2.38	0.41
1:A:58:LYS:HB3	1:B:337:ARG:C	2.41	0.41
1:A:96:THR:CA	1:A:97:LEU:HG	2.40	0.41
1:A:331:MET:HE3	1:A:396:LEU:CB	2.50	0.41
1:A:331:MET:HB2	1:A:341:ALA:HA	2.01	0.41
1:A:462:PHE:O	1:A:463:GLU:C	2.57	0.41
1:B:2:ALA:HA	1:B:5:VAL:HB	2.02	0.41
1:B:90:ASP:O	1:B:91:ILE:CG2	2.66	0.41
1:B:207:GLU:O	1:B:208:ALA:CB	2.66	0.41
1:B:362:ASP:HB2	1:B:363:PRO:HD2	2.01	0.41
1:C:64:ASP:C	1:C:87:ILE:HG21	2.40	0.41
1:C:338:ASN:C	1:C:339:ARG:O	2.58	0.41
1:C:374:LEU:HD13	1:C:374:LEU:HA	1.87	0.41
1:D:16:PHE:CA	1:D:33:ILE:O	2.63	0.41
1:D:91:ILE:HG23	1:D:96:THR:HA	2.02	0.41
1:E:81:ALA:C	1:E:82:ASP:OD1	2.59	0.41
1:E:144:ILE:HG23	1:E:145:SER:N	2.35	0.41
1:E:272:MET:HE3	1:E:374:LEU:HB3	2.02	0.41
1:F:18:ASP:OD1	1:F:30:HIS:CG	2.73	0.41
1:F:68:MET:O	1:F:71:ALA:HB3	2.20	0.41
1:F:91:ILE:HD12	1:F:91:ILE:HA	1.94	0.41
1:F:110:ARG:O	1:F:114:TYR:N	2.43	0.41
1:F:144:ILE:HG23	1:F:145:SER:N	2.35	0.41
1:F:154:ILE:H	1:F:154:ILE:HG13	1.39	0.41
1:F:231:LYS:O	1:F:234:GLU:N	2.54	0.41
1:F:256:MET:HE2	1:L:466:TYR:HA	2.02	0.41
1:F:451:ASP:O	1:F:454:ARG:N	2.53	0.41
1:G:19:LEU:CD2	1:G:75:VAL:HG21	2.38	0.41
1:G:57:TRP:O	1:G:58:LYS:O	2.39	0.41
1:G:135:PHE:HB3	1:G:153:ASP:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:412:GLY:C	1:G:413:SER:OG	2.58	0.41
1:H:119:GLY:C	1:H:121:ALA:H	2.22	0.41
1:I:18:ASP:OD1	1:I:30:HIS:CG	2.73	0.41
1:I:111:ALA:HB2	1:I:433:VAL:CG2	2.51	0.41
1:I:144:ILE:HG23	1:I:145:SER:N	2.36	0.41
1:I:256:MET:HA	1:I:257:PRO:HD3	1.86	0.41
1:I:330:VAL:HA	1:I:410:VAL:CG1	2.51	0.41
1:I:390:GLU:HG3	1:I:391:PRO:HD2	2.01	0.41
1:J:81:ALA:C	1:J:82:ASP:OD1	2.59	0.41
1:J:126:PHE:CE1	1:J:228:MET:CE	3.01	0.41
1:J:227:THR:O	1:J:228:MET:O	2.38	0.41
1:J:399:LEU:O	1:J:400:PRO:C	2.59	0.41
1:K:64:ASP:C	1:K:87:ILE:HG21	2.40	0.41
1:L:257:PRO:HG2	1:L:318:SER:HA	2.03	0.41
1:A:57:TRP:O	1:A:58:LYS:O	2.39	0.41
1:A:135:PHE:HB3	1:A:153:ASP:HB3	2.02	0.41
1:B:137:ASP:OD1	1:C:168:ASN:N	2.53	0.41
1:B:231:LYS:O	1:B:234:GLU:N	2.54	0.41
1:B:311:LEU:HD12	1:B:373:ALA:HB2	2.02	0.41
1:B:331:MET:CE	1:B:396:LEU:CD1	2.81	0.41
1:B:418:LEU:HD22	1:B:418:LEU:HA	1.44	0.41
1:C:2:ALA:O	1:C:6:LEU:CD2	2.63	0.41
1:C:2:ALA:HA	1:C:5:VAL:HB	2.02	0.41
1:C:68:MET:O	1:C:71:ALA:HB3	2.20	0.41
1:C:116:ARG:HE	1:C:116:ARG:HB2	1.57	0.41
1:C:120:ILE:CG2	1:C:382:ILE:HG23	2.46	0.41
1:C:311:LEU:HD12	1:C:373:ALA:HB2	2.02	0.41
1:C:330:VAL:HA	1:C:410:VAL:CG1	2.51	0.41
1:D:111:ALA:HB2	1:D:433:VAL:CG2	2.51	0.41
1:D:126:PHE:CE1	1:D:228:MET:CE	3.00	0.41
1:D:199:MET:HG2	1:D:204:LEU:CD1	2.51	0.41
1:D:227:THR:O	1:D:228:MET:O	2.38	0.41
1:D:399:LEU:O	1:D:400:PRO:C	2.59	0.41
1:E:17:VAL:O	1:E:18:ASP:HB3	2.20	0.41
1:E:18:ASP:OD1	1:E:30:HIS:CG	2.73	0.41
1:E:132:PHE:CE2	1:E:219:ASN:HB2	2.56	0.41
1:E:330:VAL:HA	1:E:410:VAL:CG1	2.51	0.41
1:E:391:PRO:O	1:E:391:PRO:HG2	2.20	0.41
1:F:19:LEU:CD2	1:F:75:VAL:HG21	2.38	0.41
1:F:19:LEU:HD11	1:F:240:TYR:CD1	2.54	0.41
1:F:57:TRP:O	1:F:58:LYS:O	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:64:ASP:C	1:F:87:ILE:HG21	2.40	0.41
1:F:116:ARG:HE	1:F:116:ARG:HB2	1.57	0.41
1:F:351:PRO:CG	1:F:352:LYS:H	2.33	0.41
1:G:390:GLU:HB3	1:G:391:PRO:CD	2.45	0.41
1:H:18:ASP:OD1	1:H:30:HIS:CG	2.73	0.41
1:H:64:ASP:C	1:H:87:ILE:HG21	2.40	0.41
1:H:110:ARG:H	1:H:110:ARG:HG2	1.74	0.41
1:H:231:LYS:O	1:H:234:GLU:N	2.54	0.41
1:H:245:VAL:O	1:H:249:PHE:N	2.48	0.41
1:H:330:VAL:HA	1:H:410:VAL:CG1	2.51	0.41
1:H:331:MET:HB2	1:H:341:ALA:HA	2.01	0.41
1:H:451:ASP:O	1:H:454:ARG:N	2.53	0.41
1:I:135:PHE:HB3	1:I:153:ASP:HB3	2.02	0.41
1:I:168:ASN:N	1:J:137:ASP:OD1	2.53	0.41
1:J:18:ASP:OD1	1:J:30:HIS:CG	2.73	0.41
1:J:111:ALA:CB	1:J:433:VAL:HG21	2.50	0.41
1:J:199:MET:C	1:J:204:LEU:HD12	2.41	0.41
1:K:2:ALA:HA	1:K:5:VAL:HB	2.02	0.41
1:K:68:MET:O	1:K:71:ALA:HB3	2.20	0.41
1:K:374:LEU:HD13	1:K:374:LEU:HA	1.87	0.41
1:K:391:PRO:O	1:K:391:PRO:HG2	2.20	0.41
1:L:2:ALA:HA	1:L:5:VAL:HB	2.02	0.41
1:L:207:GLU:O	1:L:208:ALA:CB	2.66	0.41
1:L:231:LYS:O	1:L:234:GLU:N	2.54	0.41
1:L:387:HIS:HA	1:L:388:PRO:HD2	1.46	0.41
1:L:391:PRO:HG2	1:L:391:PRO:O	2.20	0.41
1:L:399:LEU:O	1:L:400:PRO:C	2.59	0.41
1:L:407:ILE:HA	1:L:408:PRO:HD3	1.71	0.41
1:A:399:LEU:O	1:A:400:PRO:C	2.59	0.41
1:B:91:ILE:HG23	1:B:96:THR:HA	2.02	0.41
1:B:111:ALA:HB2	1:B:433:VAL:CG2	2.51	0.41
1:B:114:TYR:O	1:B:115:LEU:C	2.57	0.41
1:B:299:GLY:HA3	1:B:386:ILE:CG2	2.49	0.41
1:C:75:VAL:CG2	1:C:84:THR:HG22	2.44	0.41
1:C:252:THR:OG1	1:D:169:LYS:C	2.58	0.41
1:C:331:MET:CE	1:C:396:LEU:CD1	2.81	0.41
1:C:351:PRO:CG	1:C:352:LYS:H	2.33	0.41
1:D:17:VAL:HG11	1:D:33:ILE:CG2	2.48	0.41
1:D:58:LYS:HB3	1:E:337:ARG:C	2.41	0.41
1:D:111:ALA:CB	1:D:433:VAL:HG21	2.50	0.41
1:D:137:ASP:OD1	1:E:168:ASN:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:299:GLY:HA3	1:D:386:ILE:CG2	2.49	0.41
1:E:135:PHE:HB3	1:E:153:ASP:HB3	2.02	0.41
1:E:245:VAL:O	1:E:249:PHE:N	2.48	0.41
1:E:256:MET:HE3	1:K:466:TYR:HA	2.02	0.41
1:F:17:VAL:O	1:F:18:ASP:HB3	2.20	0.41
1:F:119:GLY:C	1:F:121:ALA:H	2.23	0.41
1:F:245:VAL:O	1:F:249:PHE:N	2.48	0.41
1:F:331:MET:HE3	1:F:396:LEU:CD1	2.45	0.41
1:F:445:LEU:HD23	1:F:445:LEU:HA	1.69	0.41
1:G:2:ALA:HA	1:G:5:VAL:HB	2.02	0.41
1:G:96:THR:CA	1:G:97:LEU:HG	2.39	0.41
1:G:309:ASN:CB	1:G:313:ASN:ND2	2.82	0.41
1:H:111:ALA:CA	1:H:433:VAL:CG2	2.96	0.41
1:H:165:GLU:H	1:H:167:GLY:HA2	1.86	0.41
1:H:351:PRO:CG	1:H:352:LYS:H	2.33	0.41
1:H:390:GLU:HG3	1:H:391:PRO:HD2	2.01	0.41
1:H:418:LEU:HA	1:H:418:LEU:HD22	1.44	0.41
1:I:19:LEU:HB3	1:I:75:VAL:HG21	2.03	0.41
1:I:24:THR:HB	1:I:26:GLY:N	2.30	0.41
1:I:391:PRO:O	1:I:391:PRO:HG2	2.20	0.41
1:J:237:ILE:O	1:J:238:TYR:C	2.59	0.41
1:J:345:ILE:HA	1:J:346:PRO:HD2	1.92	0.41
1:K:19:LEU:HD11	1:K:240:TYR:CD1	2.54	0.41
1:K:168:ASN:N	1:L:137:ASP:OD1	2.53	0.41
1:K:311:LEU:HD12	1:K:373:ALA:HB2	2.02	0.41
1:L:57:TRP:O	1:L:58:LYS:O	2.39	0.41
1:L:111:ALA:HB2	1:L:433:VAL:CG2	2.51	0.41
1:L:443:ILE:H	1:L:443:ILE:HG12	1.77	0.41
1:A:309:ASN:CB	1:A:313:ASN:ND2	2.82	0.41
1:A:390:GLU:HB3	1:A:391:PRO:CD	2.45	0.41
1:B:43:PHE:CE2	1:B:69:PRO:HB3	2.45	0.41
1:B:57:TRP:O	1:B:58:LYS:O	2.39	0.41
1:B:111:ALA:CA	1:B:433:VAL:CG2	2.96	0.41
1:B:398:ASP:HB3	1:B:402:GLU:CD	2.41	0.41
1:B:445:LEU:HD23	1:B:445:LEU:HA	1.69	0.41
1:C:19:LEU:HB3	1:C:75:VAL:HG21	2.03	0.41
1:C:58:LYS:HB3	1:D:337:ARG:C	2.41	0.41
1:C:102:ARG:HB2	1:C:104:PRO:CD	2.11	0.41
1:D:18:ASP:OD1	1:D:30:HIS:CG	2.73	0.41
1:D:306:LYS:CG	1:D:411:ALA:CB	2.88	0.41
1:D:321:ARG:HH11	1:D:321:ARG:HD3	1.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:57:TRP:O	1:E:58:LYS:O	2.39	0.41
1:E:58:LYS:HB3	1:F:337:ARG:C	2.41	0.41
1:E:308:ILE:HG12	1:E:308:ILE:H	1.37	0.41
1:E:311:LEU:HD12	1:E:373:ALA:HB2	2.02	0.41
1:E:376:MET:CE	1:E:433:VAL:CG2	2.87	0.41
1:E:399:LEU:O	1:E:400:PRO:C	2.59	0.41
1:F:111:ALA:CB	1:F:433:VAL:HG21	2.50	0.41
1:F:165:GLU:H	1:F:167:GLY:HA2	1.86	0.41
1:G:30:HIS:O	1:L:180:PHE:CB	2.42	0.41
1:G:110:ARG:O	1:G:114:TYR:N	2.43	0.41
1:G:110:ARG:H	1:G:110:ARG:HG2	1.75	0.41
1:G:232:ALA:HA	1:G:371:PHE:CE1	2.56	0.41
1:G:331:MET:HB2	1:G:341:ALA:HA	2.01	0.41
1:G:399:LEU:O	1:G:400:PRO:C	2.59	0.41
1:H:57:TRP:O	1:H:58:LYS:O	2.39	0.41
1:H:81:ALA:C	1:H:82:ASP:OD1	2.59	0.41
1:H:91:ILE:HG23	1:H:96:THR:HA	2.02	0.41
1:H:202:MET:HG2	1:H:237:ILE:HG23	2.01	0.41
1:H:337:ARG:C	1:I:58:LYS:HB3	2.41	0.41
1:I:57:TRP:O	1:I:58:LYS:O	2.39	0.41
1:I:119:GLY:C	1:I:121:ALA:H	2.23	0.41
1:I:154:ILE:H	1:I:154:ILE:HG13	1.39	0.41
1:I:169:LYS:C	1:J:252:THR:OG1	2.59	0.41
1:I:232:ALA:HA	1:I:371:PHE:CE1	2.56	0.41
1:I:245:VAL:O	1:I:249:PHE:N	2.48	0.41
1:I:350:SER:HA	1:I:351:PRO:HD2	1.65	0.41
1:I:426:GLU:OE1	1:I:426:GLU:HA	2.18	0.41
1:J:17:VAL:HG11	1:J:33:ILE:CG2	2.48	0.41
1:J:93:GLU:O	1:J:96:THR:CG2	2.55	0.41
1:J:111:ALA:CA	1:J:433:VAL:CG2	2.96	0.41
1:J:132:PHE:CE2	1:J:219:ASN:HB2	2.56	0.41
1:J:169:LYS:C	1:K:252:THR:OG1	2.58	0.41
1:J:337:ARG:C	1:K:58:LYS:HB3	2.41	0.41
1:J:451:ASP:O	1:J:454:ARG:N	2.53	0.41
1:K:70:ASP:C	1:K:72:SER:N	2.71	0.41
1:K:351:PRO:CG	1:K:352:LYS:H	2.33	0.41
1:L:90:ASP:O	1:L:91:ILE:CG2	2.66	0.41
1:L:91:ILE:HG23	1:L:96:THR:HA	2.02	0.41
1:L:111:ALA:CA	1:L:433:VAL:CG2	2.96	0.41
1:L:114:TYR:O	1:L:115:LEU:C	2.57	0.41
1:A:30:HIS:O	1:B:180:PHE:CB	2.42	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:32:THR:O	1:B:208:ALA:HA	2.20	0.41
1:A:137:ASP:OD1	1:B:168:ASN:N	2.53	0.41
1:A:168:ASN:N	1:F:137:ASP:OD1	2.53	0.41
1:A:199:MET:HG2	1:A:204:LEU:CD1	2.50	0.41
1:A:232:ALA:HA	1:A:371:PHE:CE1	2.56	0.41
1:A:301:VAL:HG23	1:A:301:VAL:H	1.33	0.41
1:A:385:LYS:O	1:A:386:ILE:HB	2.19	0.41
1:B:19:LEU:HB3	1:B:75:VAL:HG21	2.03	0.41
1:B:68:MET:O	1:B:71:ALA:HB3	2.20	0.41
1:B:126:PHE:CE1	1:B:228:MET:CE	3.01	0.41
1:B:132:PHE:CE2	1:B:219:ASN:HB2	2.56	0.41
1:B:387:HIS:HA	1:B:388:PRO:HD2	1.46	0.41
1:B:391:PRO:HG2	1:B:391:PRO:O	2.20	0.41
1:B:399:LEU:O	1:B:400:PRO:C	2.59	0.41
1:B:403:GLU:C	1:B:405:LYS:N	2.71	0.41
1:C:57:TRP:O	1:C:58:LYS:O	2.39	0.41
1:C:237:ILE:O	1:C:238:TYR:C	2.59	0.41
1:C:383:LYS:HB3	1:C:384:ASN:H	1.52	0.41
1:C:398:ASP:HB3	1:C:402:GLU:CD	2.42	0.41
1:D:18:ASP:O	1:D:21:PHE:CE2	2.74	0.41
1:D:27:LYS:HZ3	1:D:239:LYS:HZ1	0.43	0.41
1:D:67:LEU:HG	1:D:88:ARG:HB3	2.02	0.41
1:D:105:ARG:O	1:D:109:LYS:HG3	2.21	0.41
1:D:132:PHE:CE2	1:D:219:ASN:HB2	2.56	0.41
1:D:231:LYS:O	1:D:234:GLU:N	2.54	0.41
1:D:237:ILE:O	1:D:238:TYR:C	2.59	0.41
1:D:257:PRO:HG2	1:D:318:SER:HA	2.03	0.41
1:D:318:SER:OG	1:D:362:ASP:OD2	2.32	0.41
1:D:330:VAL:HA	1:D:410:VAL:CG1	2.51	0.41
1:D:437:GLU:HB2	1:D:438:ALA:H	1.11	0.41
1:D:451:ASP:O	1:D:454:ARG:N	2.53	0.41
1:E:18:ASP:O	1:E:21:PHE:CE2	2.74	0.41
1:E:19:LEU:HB3	1:E:75:VAL:HG21	2.03	0.41
1:E:119:GLY:C	1:E:121:ALA:H	2.23	0.41
1:E:176:LYS:HA	1:E:213:VAL:O	2.21	0.41
1:E:231:LYS:O	1:E:234:GLU:N	2.54	0.41
1:E:232:ALA:HA	1:E:371:PHE:CE1	2.56	0.41
1:E:398:ASP:HB3	1:E:402:GLU:CD	2.41	0.41
1:F:4:HIS:C	1:F:6:LEU:N	2.71	0.41
1:F:64:ASP:O	1:F:66:VAL:N	2.47	0.41
1:F:66:VAL:HA	1:F:87:ILE:CD1	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:105:ARG:O	1:F:109:LYS:HG3	2.21	0.41
1:F:111:ALA:CA	1:F:433:VAL:CG2	2.96	0.41
1:F:160:SER:OG	1:F:161:SER:N	2.54	0.41
1:F:199:MET:CB	1:F:204:LEU:CD1	2.99	0.41
1:F:202:MET:HG2	1:F:237:ILE:HG23	2.01	0.41
1:F:426:GLU:C	1:F:428:LEU:N	2.75	0.41
1:G:132:PHE:CE2	1:G:219:ASN:HB2	2.56	0.41
1:G:137:ASP:OD1	1:L:168:ASN:N	2.53	0.41
1:G:168:ASN:N	1:H:137:ASP:OD1	2.53	0.41
1:G:199:MET:HG2	1:G:204:LEU:CD1	2.51	0.41
1:G:199:MET:C	1:G:204:LEU:HD12	2.41	0.41
1:G:385:LYS:O	1:G:386:ILE:HB	2.19	0.41
1:H:19:LEU:CD2	1:H:75:VAL:HG21	2.38	0.41
1:H:19:LEU:HD11	1:H:240:TYR:CD1	2.54	0.41
1:H:19:LEU:HB3	1:H:75:VAL:HG21	2.03	0.41
1:H:25:LYS:HD2	1:H:25:LYS:HA	1.66	0.41
1:H:64:ASP:O	1:H:66:VAL:N	2.48	0.41
1:H:66:VAL:HA	1:H:87:ILE:CD1	2.48	0.41
1:H:105:ARG:O	1:H:109:LYS:HG3	2.21	0.41
1:H:160:SER:OG	1:H:161:SER:N	2.54	0.41
1:H:308:ILE:HG12	1:H:308:ILE:H	1.37	0.41
1:I:18:ASP:O	1:I:21:PHE:CE2	2.74	0.41
1:I:48:MET:CB	1:I:62:GLU:O	2.63	0.41
1:I:67:LEU:HG	1:I:88:ARG:HB3	2.02	0.41
1:I:68:MET:O	1:I:71:ALA:HB3	2.20	0.41
1:I:132:PHE:CE2	1:I:219:ASN:HB2	2.56	0.41
1:I:231:LYS:O	1:I:234:GLU:N	2.54	0.41
1:I:299:GLY:HA3	1:I:386:ILE:CG2	2.49	0.41
1:I:311:LEU:HD12	1:I:373:ALA:HB2	2.02	0.41
1:I:398:ASP:HB3	1:I:402:GLU:CD	2.41	0.41
1:I:399:LEU:O	1:I:400:PRO:C	2.59	0.41
1:I:451:ASP:O	1:I:454:ARG:N	2.53	0.41
1:J:18:ASP:O	1:J:21:PHE:CE2	2.74	0.41
1:J:67:LEU:HG	1:J:88:ARG:HB3	2.02	0.41
1:J:135:PHE:HB3	1:J:153:ASP:HB3	2.02	0.41
1:J:231:LYS:O	1:J:234:GLU:N	2.54	0.41
1:J:232:ALA:HA	1:J:371:PHE:CE1	2.56	0.41
1:J:292:GLU:HB3	1:J:293:GLN:H	1.69	0.41
1:J:299:GLY:HA3	1:J:386:ILE:CG2	2.49	0.41
1:J:330:VAL:HA	1:J:410:VAL:CG1	2.51	0.41
1:J:412:GLY:C	1:J:413:SER:OG	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:18:ASP:OD1	1:K:30:HIS:CG	2.73	0.41
1:K:19:LEU:HB3	1:K:75:VAL:HG21	2.03	0.41
1:K:57:TRP:O	1:K:58:LYS:O	2.39	0.41
1:K:81:ALA:C	1:K:82:ASP:OD1	2.59	0.41
1:K:135:PHE:HB3	1:K:153:ASP:HB3	2.02	0.41
1:K:309:ASN:CB	1:K:313:ASN:ND2	2.82	0.41
1:K:398:ASP:HB3	1:K:402:GLU:CD	2.42	0.41
1:K:403:GLU:CB	1:K:406:GLU:CB	2.87	0.41
1:L:43:PHE:CE2	1:L:69:PRO:HB3	2.44	0.41
1:L:68:MET:O	1:L:71:ALA:HB3	2.20	0.41
1:L:132:PHE:CE2	1:L:219:ASN:HB2	2.56	0.41
1:L:228:MET:HE1	1:L:371:PHE:O	2.20	0.41
1:L:331:MET:HE1	1:L:396:LEU:HA	2.03	0.41
1:L:398:ASP:HB3	1:L:402:GLU:CD	2.42	0.41
1:L:403:GLU:C	1:L:405:LYS:N	2.71	0.41
1:L:414:LEU:O	1:L:416:GLU:N	2.54	0.41
1:A:75:VAL:CG2	1:A:84:THR:CB	2.90	0.41
1:A:231:LYS:O	1:A:234:GLU:N	2.54	0.41
1:A:414:LEU:O	1:A:416:GLU:N	2.54	0.41
1:B:199:MET:C	1:B:204:LEU:HD12	2.41	0.41
1:C:135:PHE:HB3	1:C:153:ASP:HB3	2.02	0.41
1:C:309:ASN:CB	1:C:313:ASN:ND2	2.82	0.41
1:C:399:LEU:O	1:C:400:PRO:C	2.59	0.41
1:D:111:ALA:CA	1:D:433:VAL:CG2	2.96	0.41
1:D:135:PHE:HB3	1:D:153:ASP:HB3	2.02	0.41
1:D:176:LYS:HA	1:D:213:VAL:O	2.21	0.41
1:D:292:GLU:HB3	1:D:293:GLN:H	1.69	0.41
1:D:443:ILE:H	1:D:443:ILE:HG12	1.77	0.41
1:E:68:MET:O	1:E:71:ALA:HB3	2.20	0.41
1:E:111:ALA:CB	1:E:433:VAL:HG21	2.50	0.41
1:E:199:MET:CB	1:E:204:LEU:CD1	2.99	0.41
1:E:256:MET:HE2	1:K:466:TYR:HA	2.02	0.41
1:E:451:ASP:O	1:E:454:ARG:N	2.53	0.41
1:F:81:ALA:C	1:F:82:ASP:OD1	2.59	0.41
1:F:232:ALA:HA	1:F:371:PHE:CE1	2.56	0.41
1:G:17:VAL:O	1:G:18:ASP:HB3	2.20	0.41
1:G:32:THR:O	1:L:208:ALA:HA	2.20	0.41
1:G:111:ALA:HB2	1:G:433:VAL:CG2	2.51	0.41
1:G:231:LYS:O	1:G:234:GLU:N	2.54	0.41
1:G:376:MET:CE	1:G:433:VAL:HG13	2.41	0.41
1:G:414:LEU:O	1:G:416:GLU:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:89:CYS:HB3	1:H:90:ASP:CG	2.37	0.41
1:I:24:THR:CG2	1:I:25:LYS:H	2.30	0.41
1:I:176:LYS:HA	1:I:213:VAL:O	2.21	0.41
1:I:199:MET:CB	1:I:204:LEU:CD1	2.99	0.41
1:I:331:MET:CE	1:I:396:LEU:CD1	2.81	0.41
1:J:19:LEU:CD2	1:J:75:VAL:HG21	2.38	0.41
1:J:33:ILE:HD13	1:J:33:ILE:HA	1.75	0.41
1:J:57:TRP:O	1:J:58:LYS:O	2.39	0.41
1:J:105:ARG:O	1:J:109:LYS:HG3	2.21	0.41
1:K:237:ILE:O	1:K:238:TYR:C	2.59	0.41
1:L:19:LEU:HB3	1:L:75:VAL:HG21	2.03	0.41
1:L:199:MET:C	1:L:204:LEU:HD12	2.41	0.41
1:A:110:ARG:H	1:A:110:ARG:HG2	1.75	0.40
1:A:111:ALA:HB2	1:A:433:VAL:CG2	2.51	0.40
1:A:132:PHE:CE2	1:A:219:ASN:HB2	2.56	0.40
1:A:144:ILE:HG23	1:A:145:SER:N	2.35	0.40
1:A:199:MET:C	1:A:204:LEU:HD12	2.41	0.40
1:A:330:VAL:HA	1:A:410:VAL:CG1	2.51	0.40
1:A:398:ASP:HB3	1:A:402:GLU:CD	2.42	0.40
1:B:4:HIS:C	1:B:6:LEU:N	2.71	0.40
1:B:92:LEU:CA	1:B:97:LEU:H	2.31	0.40
1:B:257:PRO:HG2	1:B:318:SER:HA	2.03	0.40
1:B:318:SER:OG	1:B:362:ASP:OD1	2.39	0.40
1:C:81:ALA:C	1:C:82:ASP:OD1	2.59	0.40
1:C:91:ILE:HG23	1:C:96:THR:HA	2.02	0.40
1:C:176:LYS:HA	1:C:213:VAL:O	2.22	0.40
1:C:231:LYS:O	1:C:234:GLU:N	2.54	0.40
1:D:57:TRP:O	1:D:58:LYS:O	2.39	0.40
1:D:68:MET:O	1:D:71:ALA:HB3	2.20	0.40
1:D:199:MET:CB	1:D:204:LEU:CD1	2.99	0.40
1:D:252:THR:OG1	1:E:169:LYS:C	2.59	0.40
1:D:384:ASN:O	1:D:385:LYS:CG	2.68	0.40
1:E:24:THR:CG2	1:E:25:LYS:H	2.30	0.40
1:E:199:MET:HE1	1:E:238:TYR:CE2	2.56	0.40
1:E:299:GLY:HA3	1:E:386:ILE:CG2	2.49	0.40
1:F:135:PHE:HB3	1:F:153:ASP:HB3	2.02	0.40
1:G:351:PRO:CG	1:G:352:LYS:H	2.33	0.40
1:H:4:HIS:C	1:H:6:LEU:N	2.71	0.40
1:H:91:ILE:HD12	1:H:91:ILE:HA	1.94	0.40
1:H:111:ALA:HB2	1:H:433:VAL:CG2	2.50	0.40
1:H:135:PHE:HB3	1:H:153:ASP:HB3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:232:ALA:HA	1:H:371:PHE:CE1	2.56	0.40
1:H:272:MET:HE3	1:H:374:LEU:HB3	2.03	0.40
1:I:228:MET:HE1	1:I:371:PHE:O	2.20	0.40
1:I:306:LYS:O	1:I:307:ALA:C	2.56	0.40
1:J:176:LYS:HA	1:J:213:VAL:O	2.21	0.40
1:J:325:GLY:C	1:J:326:TYR:CD2	2.90	0.40
1:J:384:ASN:O	1:J:385:LYS:CG	2.68	0.40
1:J:426:GLU:C	1:J:428:LEU:N	2.75	0.40
1:K:89:CYS:HB3	1:K:90:ASP:CG	2.37	0.40
1:K:337:ARG:C	1:L:58:LYS:HB3	2.41	0.40
1:L:235:ILE:HD13	1:L:235:ILE:HA	1.90	0.40
1:L:267:GLY:C	1:L:363:PRO:HD3	2.42	0.40
1:L:309:ASN:CB	1:L:313:ASN:ND2	2.82	0.40
1:A:19:LEU:HB3	1:A:75:VAL:HG21	2.03	0.40
1:B:24:THR:CB	1:B:26:GLY:H	2.32	0.40
1:C:18:ASP:OD1	1:C:30:HIS:CG	2.73	0.40
1:C:89:CYS:HB3	1:C:90:ASP:CG	2.37	0.40
1:C:132:PHE:CE2	1:C:219:ASN:HB2	2.56	0.40
1:C:451:ASP:O	1:C:454:ARG:N	2.53	0.40
1:D:15:LYS:N	1:D:15:LYS:CD	2.67	0.40
1:D:19:LEU:HB3	1:D:75:VAL:HG21	2.03	0.40
1:D:75:VAL:CG2	1:D:84:THR:CB	2.90	0.40
1:D:93:GLU:O	1:D:96:THR:CG2	2.55	0.40
1:D:232:ALA:HA	1:D:371:PHE:CE1	2.56	0.40
1:D:246:ALA:CB	1:D:253:ALA:HB2	2.51	0.40
1:D:330:VAL:HA	1:D:410:VAL:HB	2.03	0.40
1:D:345:ILE:HA	1:D:346:PRO:HD2	1.93	0.40
1:E:67:LEU:HG	1:E:88:ARG:HB3	2.03	0.40
1:E:199:MET:C	1:E:204:LEU:HD12	2.41	0.40
1:E:339:ARG:N	1:E:339:ARG:HH11	2.11	0.40
1:F:110:ARG:H	1:F:110:ARG:HG2	1.75	0.40
1:G:58:LYS:HB3	1:L:338:ASN:N	2.36	0.40
1:G:116:ARG:HE	1:G:116:ARG:HB2	1.57	0.40
1:G:144:ILE:HG23	1:G:145:SER:N	2.35	0.40
1:G:172:ARG:CB	1:G:173:PRO:CD	2.89	0.40
1:G:330:VAL:HA	1:G:410:VAL:CG1	2.50	0.40
1:G:398:ASP:HB3	1:G:402:GLU:CD	2.42	0.40
1:H:111:ALA:O	1:H:112:GLU:C	2.60	0.40
1:H:154:ILE:H	1:H:154:ILE:HG13	1.39	0.40
1:H:199:MET:CB	1:H:204:LEU:CD1	3.00	0.40
1:H:409:GLN:O	1:H:411:ALA:N	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:111:ALA:CB	1:I:433:VAL:HG21	2.50	0.40
1:I:199:MET:C	1:I:204:LEU:HD12	2.41	0.40
1:I:458:HIS:O	1:I:459:PRO:C	2.60	0.40
1:J:103:ASP:CG	1:J:106:SER:CB	2.83	0.40
1:K:91:ILE:HG23	1:K:96:THR:HA	2.02	0.40
1:K:231:LYS:O	1:K:234:GLU:N	2.54	0.40
1:K:383:LYS:HB3	1:K:384:ASN:H	1.52	0.40
1:K:399:LEU:O	1:K:400:PRO:C	2.59	0.40
1:K:451:ASP:O	1:K:454:ARG:N	2.53	0.40
1:L:92:LEU:CA	1:L:97:LEU:H	2.31	0.40
1:L:116:ARG:HE	1:L:116:ARG:HB2	1.57	0.40
1:L:318:SER:OG	1:L:362:ASP:OD1	2.39	0.40
1:A:182:VAL:HG13	1:A:182:VAL:H	1.61	0.40
1:A:257:PRO:HG2	1:A:318:SER:HA	2.03	0.40
1:A:318:SER:OG	1:A:362:ASP:OD1	2.39	0.40
1:B:58:LYS:HB3	1:C:338:ASN:N	2.37	0.40
1:B:407:ILE:HA	1:B:408:PRO:HD3	1.71	0.40
1:B:414:LEU:O	1:B:416:GLU:N	2.55	0.40
1:C:79:PHE:CB	1:D:190:ASP:OD2	2.65	0.40
1:C:148:HIS:HB2	1:I:148:HIS:HB2	2.03	0.40
1:C:246:ALA:CB	1:C:253:ALA:HB2	2.51	0.40
1:C:287:TYR:O	1:C:290:LEU:HB2	2.22	0.40
1:D:57:TRP:CZ2	1:E:337:ARG:NH1	2.90	0.40
1:D:351:PRO:CG	1:D:352:LYS:H	2.33	0.40
1:D:426:GLU:C	1:D:428:LEU:N	2.75	0.40
1:E:48:MET:CB	1:E:62:GLU:O	2.64	0.40
1:E:75:VAL:HG22	1:E:84:THR:CG2	2.52	0.40
1:E:301:VAL:HG23	1:E:301:VAL:H	1.32	0.40
1:E:330:VAL:HA	1:E:410:VAL:HB	2.04	0.40
1:E:458:HIS:O	1:E:459:PRO:C	2.60	0.40
1:F:19:LEU:HB3	1:F:75:VAL:HG21	2.03	0.40
1:F:67:LEU:HD11	1:F:88:ARG:HH11	1.84	0.40
1:F:103:ASP:OD1	1:F:106:SER:N	2.54	0.40
1:F:111:ALA:O	1:F:112:GLU:C	2.60	0.40
1:F:111:ALA:HB2	1:F:433:VAL:CG2	2.51	0.40
1:F:256:MET:HA	1:F:257:PRO:HD3	1.86	0.40
1:F:376:MET:CE	1:F:433:VAL:HG13	2.41	0.40
1:F:391:PRO:O	1:F:391:PRO:HG2	2.20	0.40
1:F:399:LEU:O	1:F:400:PRO:C	2.59	0.40
1:F:409:GLN:O	1:F:411:ALA:N	2.52	0.40
1:G:19:LEU:HB3	1:G:75:VAL:HG21	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:103:ASP:OD1	1:G:106:SER:N	2.54	0.40
1:G:165:GLU:H	1:G:167:GLY:HA2	1.86	0.40
1:H:60:ILE:HA	1:H:60:ILE:HD12	1.51	0.40
1:H:103:ASP:OD1	1:H:106:SER:N	2.54	0.40
1:H:176:LYS:HA	1:H:213:VAL:O	2.21	0.40
1:H:331:MET:HE3	1:H:396:LEU:CD1	2.46	0.40
1:H:391:PRO:O	1:H:391:PRO:HG2	2.20	0.40
1:H:399:LEU:O	1:H:400:PRO:C	2.59	0.40
1:I:49:PHE:HD2	1:I:49:PHE:N	2.03	0.40
1:I:75:VAL:HG22	1:I:84:THR:CG2	2.52	0.40
1:I:120:ILE:HD11	1:I:383:LYS:HG2	2.03	0.40
1:I:330:VAL:HA	1:I:410:VAL:HB	2.03	0.40
1:I:337:ARG:NH1	1:J:57:TRP:CZ2	2.90	0.40
1:J:228:MET:HE1	1:J:372:ALA:CA	2.51	0.40
1:J:246:ALA:CB	1:J:253:ALA:HB2	2.51	0.40
1:J:306:LYS:CG	1:J:411:ALA:CB	2.88	0.40
1:J:337:ARG:NH1	1:K:57:TRP:CZ2	2.90	0.40
1:J:391:PRO:O	1:J:391:PRO:HG2	2.20	0.40
1:J:443:ILE:H	1:J:443:ILE:HG12	1.77	0.40
1:K:132:PHE:CE2	1:K:219:ASN:HB2	2.56	0.40
1:K:176:LYS:HA	1:K:213:VAL:O	2.22	0.40
1:K:287:TYR:O	1:K:290:LEU:HB2	2.22	0.40
1:K:414:LEU:O	1:K:416:GLU:N	2.54	0.40
1:L:296:TYR:HB2	1:L:382:ILE:CA	2.33	0.40
1:A:103:ASP:OD1	1:A:106:SER:N	2.54	0.40
1:A:272:MET:HE3	1:A:374:LEU:HB3	2.03	0.40
1:B:58:LYS:HB3	1:C:337:ARG:C	2.41	0.40
1:B:105:ARG:O	1:B:109:LYS:HG3	2.21	0.40
1:B:246:ALA:CB	1:B:253:ALA:HB2	2.51	0.40
1:B:309:ASN:CB	1:B:313:ASN:ND2	2.82	0.40
1:B:332:LEU:HD11	1:B:410:VAL:CA	2.51	0.40
1:B:355:ARG:HD3	1:B:355:ARG:N	2.37	0.40
1:C:57:TRP:CZ2	1:D:337:ARG:NH1	2.90	0.40
1:C:330:VAL:HA	1:C:410:VAL:HB	2.04	0.40
1:D:19:LEU:CD2	1:D:75:VAL:HG21	2.38	0.40
1:D:27:LYS:HD2	1:D:239:LYS:CE	2.52	0.40
1:D:228:MET:HE1	1:D:372:ALA:CA	2.51	0.40
1:D:391:PRO:O	1:D:391:PRO:HG2	2.20	0.40
1:D:458:HIS:O	1:D:459:PRO:C	2.60	0.40
1:E:4:HIS:C	1:E:6:LEU:N	2.72	0.40
1:E:57:TRP:CZ2	1:F:337:ARG:NH1	2.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:111:ALA:O	1:E:112:GLU:C	2.60	0.40
1:E:228:MET:HE1	1:E:371:PHE:O	2.20	0.40
1:E:246:ALA:CB	1:E:253:ALA:HB2	2.51	0.40
1:E:256:MET:HE2	1:E:256:MET:HB3	1.85	0.40
1:E:267:GLY:C	1:E:363:PRO:HD3	2.42	0.40
1:E:294:ALA:C	1:E:298:ILE:CD1	2.82	0.40
1:E:350:SER:HA	1:E:351:PRO:HD2	1.65	0.40
1:F:75:VAL:CG2	1:F:84:THR:HG21	2.50	0.40
1:F:89:CYS:HB3	1:F:90:ASP:CG	2.37	0.40
1:F:176:LYS:HA	1:F:213:VAL:O	2.21	0.40
1:F:330:VAL:HA	1:F:410:VAL:HB	2.04	0.40
1:F:383:LYS:HB3	1:F:384:ASN:H	1.52	0.40
1:F:414:LEU:O	1:F:416:GLU:N	2.55	0.40
1:G:33:ILE:HD13	1:G:33:ILE:HA	1.75	0.40
1:G:75:VAL:CG2	1:G:84:THR:CB	2.90	0.40
1:G:81:ALA:C	1:G:82:ASP:OD1	2.59	0.40
1:G:257:PRO:HG2	1:G:318:SER:HA	2.03	0.40
1:G:318:SER:OG	1:G:362:ASP:OD1	2.39	0.40
1:G:337:ARG:NH1	1:H:57:TRP:CZ2	2.90	0.40
1:H:132:PHE:CE2	1:H:219:ASN:HB2	2.56	0.40
1:H:330:VAL:HA	1:H:410:VAL:HB	2.04	0.40
1:H:337:ARG:NH1	1:I:57:TRP:CZ2	2.90	0.40
1:H:356:ILE:HD13	1:H:356:ILE:HA	1.93	0.40
1:H:398:ASP:HB3	1:H:402:GLU:CD	2.41	0.40
1:H:414:LEU:O	1:H:416:GLU:N	2.54	0.40
1:I:27:LYS:HD2	1:I:239:LYS:CE	2.52	0.40
1:I:111:ALA:O	1:I:112:GLU:C	2.60	0.40
1:I:257:PRO:HG2	1:I:318:SER:HA	2.03	0.40
1:I:267:GLY:C	1:I:363:PRO:HD3	2.42	0.40
1:J:19:LEU:HB3	1:J:75:VAL:HG21	2.03	0.40
1:J:75:VAL:CG2	1:J:84:THR:CB	2.90	0.40
1:J:199:MET:CB	1:J:204:LEU:CD1	3.00	0.40
1:J:347:VAL:O	1:J:348:VAL:HG13	2.22	0.40
1:J:351:PRO:CG	1:J:352:LYS:H	2.33	0.40
1:K:199:MET:CB	1:K:204:LEU:CD1	2.99	0.40
1:K:338:ASN:N	1:L:58:LYS:HB3	2.37	0.40
1:L:4:HIS:C	1:L:6:LEU:N	2.72	0.40
1:L:433:VAL:H	1:L:433:VAL:HG12	1.37	0.40
1:A:58:LYS:HB3	1:B:338:ASN:N	2.37	0.40
1:A:91:ILE:HG23	1:A:96:THR:HA	2.02	0.40
1:A:111:ALA:O	1:A:112:GLU:C	2.60	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:165:GLU:H	1:A:167:GLY:HA2	1.86	0.40
1:A:337:ARG:C	1:F:58:LYS:HB3	2.41	0.40
1:A:347:VAL:O	1:A:348:VAL:HG13	2.22	0.40
1:A:351:PRO:CG	1:A:352:LYS:H	2.33	0.40
1:B:267:GLY:C	1:B:363:PRO:HD3	2.42	0.40
1:B:296:TYR:HB2	1:B:382:ILE:CA	2.33	0.40
1:B:355:ARG:HH11	1:B:355:ARG:HD2	1.55	0.40
1:C:103:ASP:OD1	1:C:106:SER:N	2.54	0.40
1:C:111:ALA:HB2	1:C:433:VAL:CG2	2.51	0.40
1:C:165:GLU:H	1:C:167:GLY:HA2	1.86	0.40
1:C:199:MET:C	1:C:204:LEU:HD12	2.41	0.40
1:C:316:THR:HG21	1:I:461:GLU:CD	2.39	0.40
1:C:414:LEU:O	1:C:416:GLU:N	2.55	0.40
1:D:75:VAL:HG22	1:D:84:THR:CG2	2.51	0.40
1:D:267:GLY:C	1:D:363:PRO:HD3	2.42	0.40
1:E:148:HIS:HB2	1:K:148:HIS:HB2	2.03	0.40
1:E:414:LEU:O	1:E:416:GLU:N	2.54	0.40
1:F:19:LEU:O	1:F:20:ARG:HB2	2.21	0.40
1:F:308:ILE:HG12	1:F:308:ILE:H	1.37	0.40
1:F:321:ARG:HH11	1:F:321:ARG:HD3	1.60	0.40
1:G:67:LEU:HD11	1:G:88:ARG:HH11	1.84	0.40
1:G:111:ALA:O	1:G:112:GLU:C	2.60	0.40
1:G:182:VAL:HG13	1:G:182:VAL:H	1.62	0.40
1:G:199:MET:CB	1:G:204:LEU:CD1	2.99	0.40
1:G:347:VAL:O	1:G:348:VAL:HG13	2.22	0.40
1:G:407:ILE:HA	1:G:408:PRO:HD3	1.70	0.40
1:H:199:MET:C	1:H:204:LEU:HD12	2.41	0.40
1:I:4:HIS:C	1:I:6:LEU:N	2.72	0.40
1:I:246:ALA:CB	1:I:253:ALA:HB2	2.51	0.40
1:I:294:ALA:C	1:I:298:ILE:CD1	2.82	0.40
1:J:4:HIS:C	1:J:6:LEU:N	2.71	0.40
1:J:27:LYS:HD2	1:J:239:LYS:CE	2.52	0.40
1:J:68:MET:O	1:J:71:ALA:HB3	2.20	0.40
1:J:267:GLY:C	1:J:363:PRO:HD3	2.42	0.40
1:J:332:LEU:HD11	1:J:410:VAL:CA	2.51	0.40
1:J:437:GLU:HB2	1:J:438:ALA:H	1.11	0.40
1:K:103:ASP:OD1	1:K:106:SER:N	2.54	0.40
1:K:199:MET:C	1:K:204:LEU:HD12	2.41	0.40
1:K:257:PRO:HG2	1:K:318:SER:HA	2.03	0.40
1:K:330:VAL:HA	1:K:410:VAL:HB	2.04	0.40
1:L:24:THR:CB	1:L:26:GLY:H	2.32	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:355:ARG:N	1:L:355:ARG:HD3	2.37	0.40
1:L:384:ASN:O	1:L:385:LYS:CG	2.68	0.40

All (62) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:11:GLU:CG	1:L:39:ASN:O[4_445]	0.34	1.86
1:C:11:GLU:OE2	1:E:40:ALA:N[4_444]	0.65	1.55
1:C:11:GLU:CD	1:E:40:ALA:N[4_444]	0.70	1.50
1:H:11:GLU:N	1:L:41:GLU:OE1[4_445]	0.72	1.48
1:H:10:ASN:C	1:L:41:GLU:OE1[4_445]	1.03	1.17
1:H:11:GLU:CG	1:L:39:ASN:C[4_445]	1.05	1.15
1:C:11:GLU:CD	1:E:39:ASN:C[4_444]	1.07	1.13
1:H:10:ASN:O	1:L:41:GLU:OE2[4_445]	1.12	1.08
1:H:11:GLU:OE2	1:L:40:ALA:N[4_445]	1.19	1.01
1:H:11:GLU:OE1	1:L:39:ASN:ND2[4_445]	1.22	0.98
1:H:11:GLU:CB	1:L:39:ASN:O[4_445]	1.31	0.89
1:H:11:GLU:CD	1:L:39:ASN:ND2[4_445]	1.32	0.88
1:C:11:GLU:OE1	1:E:40:ALA:O[4_444]	1.34	0.86
1:C:11:GLU:CD	1:E:40:ALA:CA[4_444]	1.37	0.83
1:C:11:GLU:CG	1:E:39:ASN:O[4_444]	1.39	0.81
1:C:11:GLU:OE1	1:E:40:ALA:C[4_444]	1.40	0.80
1:H:11:GLU:CD	1:L:39:ASN:C[4_445]	1.40	0.80
1:B:44:GLU:OE2	1:D:10:ASN:CB[4_444]	1.45	0.75
1:C:11:GLU:CG	1:E:39:ASN:C[4_444]	1.56	0.64
1:H:10:ASN:C	1:L:41:GLU:CD[4_445]	1.56	0.64
1:C:7:THR:OG1	1:E:39:ASN:CB[4_444]	1.57	0.63
1:C:11:GLU:CB	1:E:39:ASN:O[4_444]	1.57	0.63
1:H:11:GLU:OE2	1:L:39:ASN:C[4_445]	1.59	0.61
1:H:11:GLU:CA	1:L:40:ALA:O[4_445]	1.59	0.61
1:H:10:ASN:O	1:L:41:GLU:CD[4_445]	1.60	0.60
1:C:11:GLU:OE1	1:E:40:ALA:N[4_444]	1.64	0.56
1:H:11:GLU:OE2	1:L:39:ASN:ND2[4_445]	1.66	0.54
1:C:11:GLU:CD	1:E:39:ASN:O[4_444]	1.67	0.53
1:H:11:GLU:CA	1:L:41:GLU:OE1[4_445]	1.69	0.51
1:H:11:GLU:OE1	1:L:39:ASN:CG[4_445]	1.71	0.49
1:C:11:GLU:OE2	1:E:40:ALA:CA[4_444]	1.72	0.48
1:C:11:GLU:OE1	1:E:39:ASN:C[4_444]	1.73	0.47
1:H:11:GLU:OE1	1:L:40:ALA:O[4_445]	1.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:11:GLU:CG	1:E:40:ALA:CB[4_444]	1.77	0.43
1:H:11:GLU:CD	1:L:39:ASN:O[4_445]	1.77	0.43
1:H:11:GLU:CD	1:L:40:ALA:N[4_445]	1.78	0.42
1:C:11:GLU:OE1	1:E:40:ALA:CA[4_444]	1.80	0.40
1:C:11:GLU:OE2	1:E:39:ASN:C[4_444]	1.84	0.36
1:H:10:ASN:O	1:L:41:GLU:OE1[4_445]	1.86	0.34
1:C:11:GLU:N	1:E:41:GLU:OE1[4_444]	1.87	0.33
1:C:10:ASN:C	1:E:41:GLU:OE1[4_444]	1.88	0.32
1:C:11:GLU:OE1	1:E:39:ASN:O[4_444]	1.88	0.32
1:H:11:GLU:CD	1:L:40:ALA:O[4_445]	1.91	0.29
1:H:11:GLU:CD	1:L:39:ASN:CG[4_445]	1.93	0.27
1:G:10:ASN:O	1:I:44:GLU:OE2[4_455]	1.94	0.26
1:H:11:GLU:N	1:L:41:GLU:CD[4_445]	1.95	0.25
1:H:10:ASN:C	1:L:41:GLU:OE2[4_445]	1.96	0.24
1:C:11:GLU:OE1	1:E:39:ASN:ND2[4_444]	1.97	0.23
1:C:11:GLU:CG	1:E:40:ALA:N[4_444]	1.98	0.22
1:G:10:ASN:CB	1:I:44:GLU:OE2[4_455]	1.98	0.22
1:C:10:ASN:CB	1:E:41:GLU:OE1[4_444]	2.03	0.17
1:H:11:GLU:CG	1:L:39:ASN:CA[4_445]	2.03	0.17
1:C:10:ASN:CA	1:E:41:GLU:OE1[4_444]	2.05	0.15
1:C:11:GLU:CA	1:E:40:ALA:O[4_444]	2.05	0.15
1:C:11:GLU:CD	1:E:40:ALA:CB[4_444]	2.07	0.13
1:G:10:ASN:C	1:I:44:GLU:OE2[4_455]	2.08	0.12
1:G:10:ASN:CA	1:I:44:GLU:OE2[4_455]	2.09	0.11
1:C:11:GLU:CD	1:E:40:ALA:C[4_444]	2.10	0.10
1:C:11:GLU:CB	1:E:40:ALA:CB[4_444]	2.11	0.09
1:H:11:GLU:CG	1:L:40:ALA:N[4_445]	2.11	0.09
1:B:44:GLU:OE2	1:D:10:ASN:CA[4_444]	2.19	0.01
1:H:11:GLU:OE1	1:L:39:ASN:OD1[4_445]	2.19	0.01

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	466/469 (99%)	249 (53%)	117 (25%)	100 (22%)	0	1
1	B	466/469 (99%)	249 (53%)	117 (25%)	100 (22%)	0	1
1	C	466/469 (99%)	249 (53%)	117 (25%)	100 (22%)	0	1
1	D	466/469 (99%)	249 (53%)	117 (25%)	100 (22%)	0	1
1	E	466/469 (99%)	249 (53%)	117 (25%)	100 (22%)	0	1
1	F	466/469 (99%)	248 (53%)	118 (25%)	100 (22%)	0	1
1	G	466/469 (99%)	249 (53%)	117 (25%)	100 (22%)	0	1
1	H	466/469 (99%)	249 (53%)	117 (25%)	100 (22%)	0	1
1	I	466/469 (99%)	249 (53%)	117 (25%)	100 (22%)	0	1
1	J	466/469 (99%)	249 (53%)	117 (25%)	100 (22%)	0	1
1	K	466/469 (99%)	249 (53%)	117 (25%)	100 (22%)	0	1
1	L	466/469 (99%)	249 (53%)	117 (25%)	100 (22%)	0	1
All	All	5592/5628 (99%)	2987 (53%)	1405 (25%)	1200 (22%)	0	1

All (1200) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	8	MET
1	A	13	GLU
1	A	14	VAL
1	A	21	PHE
1	A	28	GLU
1	A	36	HIS
1	A	37	GLN
1	A	39	ASN
1	A	41	GLU
1	A	51	GLY
1	A	58	LYS
1	A	59	GLY
1	A	66	VAL
1	A	77	ASP
1	A	79	PHE
1	A	86	ILE
1	A	89	CYS
1	A	93	GLU
1	A	102	ARG
1	A	103	ASP
1	A	144	ILE
1	A	155	GLU

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Mol	Chain	Res	Type
1	A	158	TRP
1	A	165	GLU
1	A	168	ASN
1	A	170	GLY
1	A	175	VAL
1	A	176	LYS
1	A	180	PHE
1	A	183	PRO
1	A	187	SER
1	A	188	ALA
1	A	190	ASP
1	A	208	ALA
1	A	215	THR
1	A	225	PHE
1	A	265	GLY
1	A	281	LEU
1	A	315	THR
1	A	316	THR
1	A	326	TYR
1	A	337	ARG
1	A	339	ARG
1	A	347	VAL
1	A	349	ALA
1	A	360	PHE
1	A	363	PRO
1	A	383	LYS
1	A	396	LEU
1	A	397	TYR
1	A	400	PRO
1	A	401	PRO
1	A	413	SER
1	A	414	LEU
1	A	425	ARG
1	A	426	GLU
1	A	434	PHE
1	B	8	MET
1	B	13	GLU
1	B	14	VAL
1	B	21	PHE
1	B	28	GLU
1	B	36	HIS
1	B	37	GLN

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Mol	Chain	Res	Type
1	B	39	ASN
1	B	41	GLU
1	B	51	GLY
1	B	58	LYS
1	B	59	GLY
1	B	66	VAL
1	B	77	ASP
1	B	79	PHE
1	B	86	ILE
1	B	89	CYS
1	B	93	GLU
1	B	102	ARG
1	B	103	ASP
1	B	144	ILE
1	B	155	GLU
1	B	158	TRP
1	B	165	GLU
1	B	168	ASN
1	B	170	GLY
1	B	175	VAL
1	B	176	LYS
1	B	180	PHE
1	B	183	PRO
1	B	187	SER
1	B	188	ALA
1	B	190	ASP
1	B	208	ALA
1	B	215	THR
1	B	225	PHE
1	B	265	GLY
1	B	281	LEU
1	B	315	THR
1	B	316	THR
1	B	326	TYR
1	B	337	ARG
1	B	339	ARG
1	B	347	VAL
1	B	349	ALA
1	B	360	PHE
1	B	363	PRO
1	B	383	LYS
1	B	396	LEU

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Mol	Chain	Res	Type
1	B	397	TYR
1	B	400	PRO
1	B	401	PRO
1	B	413	SER
1	B	414	LEU
1	B	425	ARG
1	B	426	GLU
1	B	434	PHE
1	C	8	MET
1	C	13	GLU
1	C	14	VAL
1	C	21	PHE
1	C	28	GLU
1	C	36	HIS
1	C	37	GLN
1	C	39	ASN
1	C	41	GLU
1	C	51	GLY
1	C	58	LYS
1	C	59	GLY
1	C	66	VAL
1	C	77	ASP
1	C	79	PHE
1	C	86	ILE
1	C	89	CYS
1	C	93	GLU
1	C	102	ARG
1	C	103	ASP
1	C	144	ILE
1	C	155	GLU
1	C	158	TRP
1	C	165	GLU
1	C	168	ASN
1	C	170	GLY
1	C	175	VAL
1	C	176	LYS
1	C	180	PHE
1	C	183	PRO
1	C	187	SER
1	C	188	ALA
1	C	190	ASP
1	C	208	ALA

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Mol	Chain	Res	Type
1	C	215	THR
1	C	225	PHE
1	C	265	GLY
1	C	281	LEU
1	C	315	THR
1	C	316	THR
1	C	326	TYR
1	C	337	ARG
1	C	339	ARG
1	C	347	VAL
1	C	349	ALA
1	C	360	PHE
1	C	363	PRO
1	C	383	LYS
1	C	396	LEU
1	C	397	TYR
1	C	400	PRO
1	C	401	PRO
1	C	413	SER
1	C	414	LEU
1	C	425	ARG
1	C	426	GLU
1	C	434	PHE
1	D	8	MET
1	D	13	GLU
1	D	14	VAL
1	D	21	PHE
1	D	28	GLU
1	D	36	HIS
1	D	37	GLN
1	D	39	ASN
1	D	41	GLU
1	D	51	GLY
1	D	58	LYS
1	D	59	GLY
1	D	66	VAL
1	D	77	ASP
1	D	79	PHE
1	D	86	ILE
1	D	89	CYS
1	D	93	GLU
1	D	102	ARG

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Mol	Chain	Res	Type
1	D	103	ASP
1	D	144	ILE
1	D	155	GLU
1	D	158	TRP
1	D	165	GLU
1	D	168	ASN
1	D	170	GLY
1	D	175	VAL
1	D	176	LYS
1	D	180	PHE
1	D	183	PRO
1	D	187	SER
1	D	188	ALA
1	D	190	ASP
1	D	208	ALA
1	D	215	THR
1	D	225	PHE
1	D	265	GLY
1	D	281	LEU
1	D	315	THR
1	D	316	THR
1	D	326	TYR
1	D	337	ARG
1	D	339	ARG
1	D	347	VAL
1	D	349	ALA
1	D	360	PHE
1	D	363	PRO
1	D	383	LYS
1	D	396	LEU
1	D	397	TYR
1	D	400	PRO
1	D	401	PRO
1	D	413	SER
1	D	414	LEU
1	D	425	ARG
1	D	426	GLU
1	D	434	PHE
1	E	8	MET
1	E	13	GLU
1	E	14	VAL
1	E	21	PHE

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Mol	Chain	Res	Type
1	E	28	GLU
1	E	36	HIS
1	E	37	GLN
1	E	39	ASN
1	E	41	GLU
1	E	51	GLY
1	E	58	LYS
1	E	59	GLY
1	E	66	VAL
1	E	77	ASP
1	E	79	PHE
1	E	86	ILE
1	E	89	CYS
1	E	93	GLU
1	E	102	ARG
1	E	103	ASP
1	E	144	ILE
1	E	155	GLU
1	E	158	TRP
1	E	165	GLU
1	E	168	ASN
1	E	170	GLY
1	E	175	VAL
1	E	176	LYS
1	E	180	PHE
1	E	183	PRO
1	E	187	SER
1	E	188	ALA
1	E	190	ASP
1	E	208	ALA
1	E	215	THR
1	E	225	PHE
1	E	265	GLY
1	E	281	LEU
1	E	315	THR
1	E	316	THR
1	E	326	TYR
1	E	337	ARG
1	E	339	ARG
1	E	347	VAL
1	E	349	ALA
1	E	360	PHE

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Mol	Chain	Res	Type
1	E	363	PRO
1	E	383	LYS
1	E	396	LEU
1	E	397	TYR
1	E	400	PRO
1	E	401	PRO
1	E	413	SER
1	E	414	LEU
1	E	425	ARG
1	E	426	GLU
1	E	434	PHE
1	F	8	MET
1	F	13	GLU
1	F	14	VAL
1	F	21	PHE
1	F	28	GLU
1	F	36	HIS
1	F	37	GLN
1	F	39	ASN
1	F	41	GLU
1	F	51	GLY
1	F	58	LYS
1	F	59	GLY
1	F	66	VAL
1	F	77	ASP
1	F	79	PHE
1	F	86	ILE
1	F	89	CYS
1	F	93	GLU
1	F	102	ARG
1	F	103	ASP
1	F	144	ILE
1	F	155	GLU
1	F	158	TRP
1	F	165	GLU
1	F	168	ASN
1	F	170	GLY
1	F	175	VAL
1	F	176	LYS
1	F	180	PHE
1	F	183	PRO
1	F	187	SER

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Mol	Chain	Res	Type
1	F	188	ALA
1	F	190	ASP
1	F	208	ALA
1	F	215	THR
1	F	225	PHE
1	F	265	GLY
1	F	281	LEU
1	F	315	THR
1	F	316	THR
1	F	326	TYR
1	F	337	ARG
1	F	339	ARG
1	F	347	VAL
1	F	349	ALA
1	F	360	PHE
1	F	363	PRO
1	F	383	LYS
1	F	396	LEU
1	F	397	TYR
1	F	400	PRO
1	F	401	PRO
1	F	413	SER
1	F	414	LEU
1	F	425	ARG
1	F	426	GLU
1	F	434	PHE
1	G	8	MET
1	G	13	GLU
1	G	14	VAL
1	G	21	PHE
1	G	28	GLU
1	G	36	HIS
1	G	37	GLN
1	G	39	ASN
1	G	41	GLU
1	G	51	GLY
1	G	58	LYS
1	G	59	GLY
1	G	66	VAL
1	G	77	ASP
1	G	79	PHE
1	G	86	ILE

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Mol	Chain	Res	Type
1	G	89	CYS
1	G	93	GLU
1	G	102	ARG
1	G	103	ASP
1	G	144	ILE
1	G	155	GLU
1	G	158	TRP
1	G	165	GLU
1	G	168	ASN
1	G	170	GLY
1	G	175	VAL
1	G	176	LYS
1	G	180	PHE
1	G	183	PRO
1	G	187	SER
1	G	188	ALA
1	G	190	ASP
1	G	208	ALA
1	G	215	THR
1	G	225	PHE
1	G	265	GLY
1	G	281	LEU
1	G	315	THR
1	G	316	THR
1	G	326	TYR
1	G	337	ARG
1	G	339	ARG
1	G	347	VAL
1	G	349	ALA
1	G	360	PHE
1	G	363	PRO
1	G	383	LYS
1	G	396	LEU
1	G	397	TYR
1	G	400	PRO
1	G	401	PRO
1	G	413	SER
1	G	414	LEU
1	G	425	ARG
1	G	426	GLU
1	G	434	PHE
1	H	8	MET

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Mol	Chain	Res	Type
1	H	13	GLU
1	H	14	VAL
1	H	21	PHE
1	H	28	GLU
1	H	36	HIS
1	H	37	GLN
1	H	39	ASN
1	H	41	GLU
1	H	51	GLY
1	H	58	LYS
1	H	59	GLY
1	H	66	VAL
1	H	77	ASP
1	H	79	PHE
1	H	86	ILE
1	H	89	CYS
1	H	93	GLU
1	H	102	ARG
1	H	103	ASP
1	H	144	ILE
1	H	155	GLU
1	H	158	TRP
1	H	165	GLU
1	H	168	ASN
1	H	170	GLY
1	H	175	VAL
1	H	176	LYS
1	H	180	PHE
1	H	183	PRO
1	H	187	SER
1	H	188	ALA
1	H	190	ASP
1	H	208	ALA
1	H	215	THR
1	H	225	PHE
1	H	265	GLY
1	H	281	LEU
1	H	315	THR
1	H	316	THR
1	H	326	TYR
1	H	337	ARG
1	H	339	ARG

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Mol	Chain	Res	Type
1	H	347	VAL
1	H	349	ALA
1	H	360	PHE
1	H	363	PRO
1	H	383	LYS
1	H	396	LEU
1	H	397	TYR
1	H	400	PRO
1	H	401	PRO
1	H	413	SER
1	H	414	LEU
1	H	425	ARG
1	H	426	GLU
1	H	434	PHE
1	I	8	MET
1	I	13	GLU
1	I	14	VAL
1	I	21	PHE
1	I	28	GLU
1	I	36	HIS
1	I	37	GLN
1	I	39	ASN
1	I	41	GLU
1	I	51	GLY
1	I	58	LYS
1	I	59	GLY
1	I	66	VAL
1	I	77	ASP
1	I	79	PHE
1	I	86	ILE
1	I	89	CYS
1	I	93	GLU
1	I	102	ARG
1	I	103	ASP
1	I	144	ILE
1	I	155	GLU
1	I	158	TRP
1	I	165	GLU
1	I	168	ASN
1	I	170	GLY
1	I	175	VAL
1	I	176	LYS

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Mol	Chain	Res	Type
1	I	180	PHE
1	I	183	PRO
1	I	187	SER
1	I	188	ALA
1	I	190	ASP
1	I	208	ALA
1	I	215	THR
1	I	225	PHE
1	I	265	GLY
1	I	281	LEU
1	I	315	THR
1	I	316	THR
1	I	326	TYR
1	I	337	ARG
1	I	339	ARG
1	I	347	VAL
1	I	349	ALA
1	I	360	PHE
1	I	363	PRO
1	I	383	LYS
1	I	396	LEU
1	I	397	TYR
1	I	400	PRO
1	I	401	PRO
1	I	413	SER
1	I	414	LEU
1	I	425	ARG
1	I	426	GLU
1	I	434	PHE
1	J	8	MET
1	J	13	GLU
1	J	14	VAL
1	J	21	PHE
1	J	28	GLU
1	J	36	HIS
1	J	37	GLN
1	J	39	ASN
1	J	41	GLU
1	J	51	GLY
1	J	58	LYS
1	J	59	GLY
1	J	66	VAL

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Mol	Chain	Res	Type
1	J	77	ASP
1	J	79	PHE
1	J	86	ILE
1	J	89	CYS
1	J	93	GLU
1	J	102	ARG
1	J	103	ASP
1	J	144	ILE
1	J	155	GLU
1	J	158	TRP
1	J	165	GLU
1	J	168	ASN
1	J	170	GLY
1	J	175	VAL
1	J	176	LYS
1	J	180	PHE
1	J	183	PRO
1	J	187	SER
1	J	188	ALA
1	J	190	ASP
1	J	208	ALA
1	J	215	THR
1	J	225	PHE
1	J	265	GLY
1	J	281	LEU
1	J	315	THR
1	J	316	THR
1	J	326	TYR
1	J	337	ARG
1	J	339	ARG
1	J	347	VAL
1	J	349	ALA
1	J	360	PHE
1	J	363	PRO
1	J	383	LYS
1	J	396	LEU
1	J	397	TYR
1	J	400	PRO
1	J	401	PRO
1	J	413	SER
1	J	414	LEU
1	J	425	ARG

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Mol	Chain	Res	Type
1	J	426	GLU
1	J	434	PHE
1	K	8	MET
1	K	13	GLU
1	K	14	VAL
1	K	21	PHE
1	K	28	GLU
1	K	36	HIS
1	K	37	GLN
1	K	39	ASN
1	K	41	GLU
1	K	51	GLY
1	K	58	LYS
1	K	59	GLY
1	K	66	VAL
1	K	77	ASP
1	K	79	PHE
1	K	86	ILE
1	K	89	CYS
1	K	93	GLU
1	K	102	ARG
1	K	103	ASP
1	K	144	ILE
1	K	155	GLU
1	K	158	TRP
1	K	165	GLU
1	K	168	ASN
1	K	170	GLY
1	K	175	VAL
1	K	176	LYS
1	K	180	PHE
1	K	183	PRO
1	K	187	SER
1	K	188	ALA
1	K	190	ASP
1	K	208	ALA
1	K	215	THR
1	K	225	PHE
1	K	265	GLY
1	K	281	LEU
1	K	315	THR
1	K	316	THR

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Mol	Chain	Res	Type
1	K	326	TYR
1	K	337	ARG
1	K	339	ARG
1	K	347	VAL
1	K	349	ALA
1	K	360	PHE
1	K	363	PRO
1	K	383	LYS
1	K	396	LEU
1	K	397	TYR
1	K	400	PRO
1	K	401	PRO
1	K	413	SER
1	K	414	LEU
1	K	425	ARG
1	K	426	GLU
1	K	434	PHE
1	L	8	MET
1	L	13	GLU
1	L	14	VAL
1	L	21	PHE
1	L	28	GLU
1	L	36	HIS
1	L	37	GLN
1	L	39	ASN
1	L	41	GLU
1	L	51	GLY
1	L	58	LYS
1	L	59	GLY
1	L	66	VAL
1	L	77	ASP
1	L	79	PHE
1	L	86	ILE
1	L	89	CYS
1	L	93	GLU
1	L	102	ARG
1	L	103	ASP
1	L	144	ILE
1	L	155	GLU
1	L	158	TRP
1	L	165	GLU
1	L	168	ASN

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Mol	Chain	Res	Type
1	L	170	GLY
1	L	175	VAL
1	L	176	LYS
1	L	180	PHE
1	L	183	PRO
1	L	187	SER
1	L	188	ALA
1	L	190	ASP
1	L	208	ALA
1	L	215	THR
1	L	225	PHE
1	L	265	GLY
1	L	281	LEU
1	L	315	THR
1	L	316	THR
1	L	326	TYR
1	L	337	ARG
1	L	339	ARG
1	L	347	VAL
1	L	349	ALA
1	L	360	PHE
1	L	363	PRO
1	L	383	LYS
1	L	396	LEU
1	L	397	TYR
1	L	400	PRO
1	L	401	PRO
1	L	413	SER
1	L	414	LEU
1	L	425	ARG
1	L	426	GLU
1	L	434	PHE
1	A	18	ASP
1	A	19	LEU
1	A	24	THR
1	A	53	SER
1	A	54	ILE
1	A	71	ALA
1	A	91	ILE
1	A	97	LEU
1	A	156	GLY
1	A	167	GLY

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Mol	Chain	Res	Type
1	A	266	SER
1	A	292	GLU
1	A	338	ASN
1	A	378	GLY
1	A	384	ASN
1	A	410	VAL
1	A	427	PHE
1	A	437	GLU
1	A	443	ILE
1	A	444	ALA
1	A	466	TYR
1	B	18	ASP
1	B	19	LEU
1	B	24	THR
1	B	53	SER
1	B	54	ILE
1	B	71	ALA
1	B	91	ILE
1	B	97	LEU
1	B	156	GLY
1	B	167	GLY
1	B	266	SER
1	B	292	GLU
1	B	338	ASN
1	B	378	GLY
1	B	410	VAL
1	B	427	PHE
1	B	437	GLU
1	B	443	ILE
1	B	444	ALA
1	B	466	TYR
1	C	18	ASP
1	C	19	LEU
1	C	24	THR
1	C	53	SER
1	C	54	ILE
1	C	71	ALA
1	C	91	ILE
1	C	97	LEU
1	C	156	GLY
1	C	167	GLY
1	C	266	SER

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Mol	Chain	Res	Type
1	C	292	GLU
1	C	338	ASN
1	C	378	GLY
1	C	384	ASN
1	C	410	VAL
1	C	427	PHE
1	C	437	GLU
1	C	443	ILE
1	C	444	ALA
1	C	466	TYR
1	D	18	ASP
1	D	19	LEU
1	D	24	THR
1	D	53	SER
1	D	54	ILE
1	D	71	ALA
1	D	91	ILE
1	D	97	LEU
1	D	156	GLY
1	D	167	GLY
1	D	266	SER
1	D	292	GLU
1	D	338	ASN
1	D	378	GLY
1	D	384	ASN
1	D	410	VAL
1	D	427	PHE
1	D	437	GLU
1	D	443	ILE
1	D	444	ALA
1	D	466	TYR
1	E	18	ASP
1	E	19	LEU
1	E	24	THR
1	E	53	SER
1	E	54	ILE
1	E	71	ALA
1	E	91	ILE
1	E	97	LEU
1	E	156	GLY
1	E	167	GLY
1	E	266	SER

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Mol	Chain	Res	Type
1	E	292	GLU
1	E	338	ASN
1	E	378	GLY
1	E	410	VAL
1	E	427	PHE
1	E	437	GLU
1	E	443	ILE
1	E	444	ALA
1	E	466	TYR
1	F	18	ASP
1	F	19	LEU
1	F	24	THR
1	F	53	SER
1	F	54	ILE
1	F	71	ALA
1	F	91	ILE
1	F	97	LEU
1	F	156	GLY
1	F	167	GLY
1	F	266	SER
1	F	292	GLU
1	F	338	ASN
1	F	378	GLY
1	F	384	ASN
1	F	410	VAL
1	F	427	PHE
1	F	437	GLU
1	F	443	ILE
1	F	444	ALA
1	F	466	TYR
1	G	18	ASP
1	G	19	LEU
1	G	24	THR
1	G	53	SER
1	G	54	ILE
1	G	71	ALA
1	G	91	ILE
1	G	97	LEU
1	G	156	GLY
1	G	167	GLY
1	G	266	SER
1	G	292	GLU

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Mol	Chain	Res	Type
1	G	338	ASN
1	G	378	GLY
1	G	410	VAL
1	G	427	PHE
1	G	437	GLU
1	G	443	ILE
1	G	444	ALA
1	G	466	TYR
1	H	18	ASP
1	H	19	LEU
1	H	24	THR
1	H	53	SER
1	H	54	ILE
1	H	71	ALA
1	H	91	ILE
1	H	97	LEU
1	H	156	GLY
1	H	167	GLY
1	H	266	SER
1	H	292	GLU
1	H	338	ASN
1	H	378	GLY
1	H	410	VAL
1	H	427	PHE
1	H	437	GLU
1	H	443	ILE
1	H	444	ALA
1	H	466	TYR
1	I	18	ASP
1	I	19	LEU
1	I	24	THR
1	I	53	SER
1	I	54	ILE
1	I	71	ALA
1	I	91	ILE
1	I	97	LEU
1	I	156	GLY
1	I	167	GLY
1	I	266	SER
1	I	292	GLU
1	I	338	ASN
1	I	378	GLY

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Mol	Chain	Res	Type
1	I	384	ASN
1	I	410	VAL
1	I	427	PHE
1	I	437	GLU
1	I	443	ILE
1	I	444	ALA
1	I	466	TYR
1	J	18	ASP
1	J	19	LEU
1	J	24	THR
1	J	53	SER
1	J	54	ILE
1	J	71	ALA
1	J	91	ILE
1	J	97	LEU
1	J	156	GLY
1	J	167	GLY
1	J	266	SER
1	J	292	GLU
1	J	338	ASN
1	J	378	GLY
1	J	384	ASN
1	J	410	VAL
1	J	427	PHE
1	J	437	GLU
1	J	443	ILE
1	J	444	ALA
1	J	466	TYR
1	K	18	ASP
1	K	19	LEU
1	K	24	THR
1	K	53	SER
1	K	54	ILE
1	K	71	ALA
1	K	91	ILE
1	K	97	LEU
1	K	156	GLY
1	K	167	GLY
1	K	266	SER
1	K	292	GLU
1	K	338	ASN
1	K	378	GLY

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Mol	Chain	Res	Type
1	K	384	ASN
1	K	410	VAL
1	K	427	PHE
1	K	437	GLU
1	K	443	ILE
1	K	444	ALA
1	K	466	TYR
1	L	18	ASP
1	L	19	LEU
1	L	24	THR
1	L	53	SER
1	L	54	ILE
1	L	71	ALA
1	L	91	ILE
1	L	97	LEU
1	L	156	GLY
1	L	167	GLY
1	L	266	SER
1	L	292	GLU
1	L	338	ASN
1	L	378	GLY
1	L	384	ASN
1	L	410	VAL
1	L	427	PHE
1	L	437	GLU
1	L	443	ILE
1	L	444	ALA
1	L	466	TYR
1	A	111	ALA
1	A	184	PRO
1	A	287	TYR
1	A	386	ILE
1	A	392	MET
1	A	440	ASP
1	B	111	ALA
1	B	184	PRO
1	B	287	TYR
1	B	384	ASN
1	B	386	ILE
1	B	392	MET
1	B	440	ASP
1	C	111	ALA

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Mol	Chain	Res	Type
1	C	184	PRO
1	C	287	TYR
1	C	386	ILE
1	C	392	MET
1	C	440	ASP
1	D	111	ALA
1	D	184	PRO
1	D	287	TYR
1	D	386	ILE
1	D	392	MET
1	D	440	ASP
1	E	111	ALA
1	E	184	PRO
1	E	287	TYR
1	E	384	ASN
1	E	386	ILE
1	E	392	MET
1	E	440	ASP
1	F	111	ALA
1	F	184	PRO
1	F	287	TYR
1	F	386	ILE
1	F	392	MET
1	F	440	ASP
1	G	111	ALA
1	G	184	PRO
1	G	287	TYR
1	G	384	ASN
1	G	386	ILE
1	G	392	MET
1	G	440	ASP
1	H	111	ALA
1	H	184	PRO
1	H	287	TYR
1	H	384	ASN
1	H	386	ILE
1	H	392	MET
1	H	440	ASP
1	I	111	ALA
1	I	184	PRO
1	I	287	TYR
1	I	386	ILE

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Mol	Chain	Res	Type
1	I	392	MET
1	I	440	ASP
1	J	111	ALA
1	J	184	PRO
1	J	287	TYR
1	J	386	ILE
1	J	392	MET
1	J	440	ASP
1	K	111	ALA
1	K	184	PRO
1	K	287	TYR
1	K	386	ILE
1	K	392	MET
1	K	440	ASP
1	L	111	ALA
1	L	184	PRO
1	L	287	TYR
1	L	386	ILE
1	L	392	MET
1	L	440	ASP
1	A	7	THR
1	A	40	ALA
1	A	143	SER
1	A	438	ALA
1	A	442	TYR
1	B	7	THR
1	B	40	ALA
1	B	143	SER
1	B	438	ALA
1	B	442	TYR
1	C	7	THR
1	C	40	ALA
1	C	143	SER
1	C	438	ALA
1	C	442	TYR
1	D	7	THR
1	D	40	ALA
1	D	143	SER
1	D	438	ALA
1	D	442	TYR
1	E	7	THR
1	E	40	ALA

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Mol	Chain	Res	Type
1	E	143	SER
1	E	438	ALA
1	E	442	TYR
1	E	467	SER
1	F	7	THR
1	F	40	ALA
1	F	143	SER
1	F	438	ALA
1	F	442	TYR
1	G	7	THR
1	G	40	ALA
1	G	143	SER
1	G	438	ALA
1	G	442	TYR
1	H	7	THR
1	H	40	ALA
1	H	143	SER
1	H	438	ALA
1	H	442	TYR
1	H	467	SER
1	I	7	THR
1	I	40	ALA
1	I	143	SER
1	I	438	ALA
1	I	442	TYR
1	I	467	SER
1	J	7	THR
1	J	40	ALA
1	J	143	SER
1	J	438	ALA
1	J	442	TYR
1	K	7	THR
1	K	40	ALA
1	K	143	SER
1	K	438	ALA
1	K	442	TYR
1	K	467	SER
1	L	7	THR
1	L	40	ALA
1	L	143	SER
1	L	438	ALA
1	L	442	TYR

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Mol	Chain	Res	Type
1	A	98	GLN
1	A	348	VAL
1	A	388	PRO
1	A	415	GLU
1	A	467	SER
1	B	98	GLN
1	B	348	VAL
1	B	388	PRO
1	B	415	GLU
1	B	467	SER
1	C	98	GLN
1	C	348	VAL
1	C	388	PRO
1	C	415	GLU
1	C	467	SER
1	D	98	GLN
1	D	388	PRO
1	D	415	GLU
1	D	467	SER
1	E	65	MET
1	E	98	GLN
1	E	388	PRO
1	F	98	GLN
1	F	388	PRO
1	F	415	GLU
1	F	467	SER
1	G	98	GLN
1	G	388	PRO
1	G	415	GLU
1	G	467	SER
1	H	98	GLN
1	H	388	PRO
1	H	415	GLU
1	I	98	GLN
1	I	348	VAL
1	I	388	PRO
1	J	98	GLN
1	J	388	PRO
1	J	415	GLU
1	J	467	SER
1	K	98	GLN
1	K	388	PRO

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Mol	Chain	Res	Type
1	K	415	GLU
1	L	98	GLN
1	L	388	PRO
1	L	415	GLU
1	L	467	SER
1	A	20	ARG
1	A	65	MET
1	A	76	ILE
1	A	226	ASN
1	B	20	ARG
1	B	65	MET
1	B	76	ILE
1	B	226	ASN
1	C	20	ARG
1	C	65	MET
1	C	76	ILE
1	C	226	ASN
1	D	20	ARG
1	D	65	MET
1	D	76	ILE
1	D	226	ASN
1	D	348	VAL
1	E	20	ARG
1	E	76	ILE
1	E	226	ASN
1	E	348	VAL
1	E	415	GLU
1	F	20	ARG
1	F	65	MET
1	F	76	ILE
1	F	226	ASN
1	F	348	VAL
1	G	20	ARG
1	G	65	MET
1	G	76	ILE
1	G	226	ASN
1	G	348	VAL
1	H	20	ARG
1	H	65	MET
1	H	76	ILE
1	H	226	ASN
1	H	348	VAL

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Mol	Chain	Res	Type
1	I	20	ARG
1	I	65	MET
1	I	76	ILE
1	I	226	ASN
1	I	415	GLU
1	J	20	ARG
1	J	65	MET
1	J	76	ILE
1	J	226	ASN
1	J	348	VAL
1	K	20	ARG
1	K	65	MET
1	K	76	ILE
1	K	226	ASN
1	K	348	VAL
1	L	20	ARG
1	L	65	MET
1	L	76	ILE
1	L	226	ASN
1	L	348	VAL
1	A	433	VAL
1	B	433	VAL
1	C	433	VAL
1	D	433	VAL
1	E	433	VAL
1	F	433	VAL
1	G	433	VAL
1	H	433	VAL
1	I	433	VAL
1	J	433	VAL
1	K	433	VAL
1	L	433	VAL
1	B	301	VAL
1	D	301	VAL
1	J	301	VAL
1	L	301	VAL
1	A	301	VAL
1	C	301	VAL
1	E	301	VAL
1	F	301	VAL
1	G	301	VAL
1	H	301	VAL

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Mol	Chain	Res	Type
1	I	301	VAL
1	K	301	VAL

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	384/385 (100%)	226 (59%)	158 (41%)	0	1
1	B	384/385 (100%)	227 (59%)	157 (41%)	0	1
1	C	384/385 (100%)	226 (59%)	158 (41%)	0	1
1	D	384/385 (100%)	226 (59%)	158 (41%)	0	1
1	E	384/385 (100%)	226 (59%)	158 (41%)	0	1
1	F	384/385 (100%)	226 (59%)	158 (41%)	0	1
1	G	384/385 (100%)	226 (59%)	158 (41%)	0	1
1	H	384/385 (100%)	227 (59%)	157 (41%)	0	1
1	I	384/385 (100%)	226 (59%)	158 (41%)	0	1
1	J	384/385 (100%)	226 (59%)	158 (41%)	0	1
1	K	384/385 (100%)	226 (59%)	158 (41%)	0	1
1	L	384/385 (100%)	227 (59%)	157 (41%)	0	1
All	All	4608/4620 (100%)	2715 (59%)	1893 (41%)	0	1

All (1893) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	SER
1	A	3	GLU
1	A	9	LEU
1	A	11	GLU
1	A	13	GLU
1	A	14	VAL
1	A	15	LYS
1	A	18	ASP

Continued on next page...

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Mol	Chain	Res	Type
1	A	19	LEU
1	A	20	ARG
1	A	21	PHE
1	A	24	THR
1	A	30	HIS
1	A	33	ILE
1	A	36	HIS
1	A	39	ASN
1	A	41	GLU
1	A	44	GLU
1	A	47	LYS
1	A	48	MET
1	A	49	PHE
1	A	54	ILE
1	A	57	TRP
1	A	58	LYS
1	A	60	ILE
1	A	61	ASN
1	A	63	SER
1	A	64	ASP
1	A	65	MET
1	A	67	LEU
1	A	68	MET
1	A	70	ASP
1	A	73	THR
1	A	76	ILE
1	A	77	ASP
1	A	82	ASP
1	A	83	SER
1	A	84	THR
1	A	85	LEU
1	A	86	ILE
1	A	87	ILE
1	A	90	ASP
1	A	91	ILE
1	A	92	LEU
1	A	93	GLU
1	A	97	LEU
1	A	100	TYR
1	A	104	PRO
1	A	105	ARG
1	A	106	SER

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Mol	Chain	Res	Type
1	A	109	LYS
1	A	110	ARG
1	A	113	ASP
1	A	114	TYR
1	A	115	LEU
1	A	118	THR
1	A	122	ASP
1	A	123	THR
1	A	125	LEU
1	A	129	GLU
1	A	131	GLU
1	A	135	PHE
1	A	138	ILE
1	A	145	SER
1	A	153	ASP
1	A	154	ILE
1	A	163	LYS
1	A	165	GLU
1	A	168	ASN
1	A	169	LYS
1	A	172	ARG
1	A	175	VAL
1	A	176	LYS
1	A	179	TYR
1	A	180	PHE
1	A	182	VAL
1	A	183	PRO
1	A	189	GLN
1	A	190	ASP
1	A	191	ILE
1	A	202	MET
1	A	204	LEU
1	A	209	HIS
1	A	212	GLU
1	A	213	VAL
1	A	215	THR
1	A	224	ARG
1	A	226	ASN
1	A	228	MET
1	A	230	LYS
1	A	231	LYS
1	A	233	ASP

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Mol	Chain	Res	Type
1	A	236	GLN
1	A	239	LYS
1	A	241	VAL
1	A	247	HIS
1	A	248	ARG
1	A	252	THR
1	A	260	MET
1	A	263	ASP
1	A	266	SER
1	A	270	CYS
1	A	273	SER
1	A	274	LEU
1	A	276	LYS
1	A	280	ASN
1	A	281	LEU
1	A	286	LYS
1	A	308	ILE
1	A	311	LEU
1	A	317	ASN
1	A	322	LEU
1	A	323	VAL
1	A	326	TYR
1	A	327	GLU
1	A	329	PRO
1	A	339	ARG
1	A	344	ARG
1	A	345	ILE
1	A	347	VAL
1	A	348	VAL
1	A	350	SER
1	A	354	ARG
1	A	355	ARG
1	A	356	ILE
1	A	359	ARG
1	A	360	PHE
1	A	366	ASN
1	A	374	LEU
1	A	375	LEU
1	A	379	LEU
1	A	380	ASP
1	A	382	ILE
1	A	383	LYS

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Mol	Chain	Res	Type
1	A	384	ASN
1	A	386	ILE
1	A	392	MET
1	A	393	ASP
1	A	397	TYR
1	A	399	LEU
1	A	402	GLU
1	A	405	LYS
1	A	406	GLU
1	A	407	ILE
1	A	410	VAL
1	A	418	LEU
1	A	424	ASP
1	A	428	LEU
1	A	429	LYS
1	A	433	VAL
1	A	446	ARG
1	A	447	ARG
1	A	449	GLU
1	A	452	ARG
1	A	454	ARG
1	A	464	LEU
1	A	467	SER
1	A	468	VAL
1	B	1	SER
1	B	3	GLU
1	B	9	LEU
1	B	11	GLU
1	B	13	GLU
1	B	14	VAL
1	B	15	LYS
1	B	18	ASP
1	B	19	LEU
1	B	20	ARG
1	B	21	PHE
1	B	24	THR
1	B	30	HIS
1	B	33	ILE
1	B	36	HIS
1	B	39	ASN
1	B	41	GLU
1	B	44	GLU

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Mol	Chain	Res	Type
1	B	47	LYS
1	B	48	MET
1	B	49	PHE
1	B	54	ILE
1	B	57	TRP
1	B	58	LYS
1	B	60	ILE
1	B	61	ASN
1	B	63	SER
1	B	64	ASP
1	B	65	MET
1	B	67	LEU
1	B	68	MET
1	B	70	ASP
1	B	73	THR
1	B	76	ILE
1	B	77	ASP
1	B	82	ASP
1	B	83	SER
1	B	84	THR
1	B	85	LEU
1	B	86	ILE
1	B	87	ILE
1	B	90	ASP
1	B	91	ILE
1	B	92	LEU
1	B	93	GLU
1	B	97	LEU
1	B	100	TYR
1	B	104	PRO
1	B	105	ARG
1	B	106	SER
1	B	109	LYS
1	B	110	ARG
1	B	113	ASP
1	B	114	TYR
1	B	115	LEU
1	B	118	THR
1	B	122	ASP
1	B	123	THR
1	B	125	LEU
1	B	129	GLU

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Mol	Chain	Res	Type
1	B	131	GLU
1	B	135	PHE
1	B	138	ILE
1	B	145	SER
1	B	153	ASP
1	B	154	ILE
1	B	163	LYS
1	B	165	GLU
1	B	168	ASN
1	B	169	LYS
1	B	172	ARG
1	B	175	VAL
1	B	176	LYS
1	B	179	TYR
1	B	180	PHE
1	B	182	VAL
1	B	189	GLN
1	B	190	ASP
1	B	191	ILE
1	B	202	MET
1	B	204	LEU
1	B	209	HIS
1	B	212	GLU
1	B	213	VAL
1	B	215	THR
1	B	224	ARG
1	B	226	ASN
1	B	228	MET
1	B	230	LYS
1	B	231	LYS
1	B	233	ASP
1	B	236	GLN
1	B	239	LYS
1	B	241	VAL
1	B	247	HIS
1	B	248	ARG
1	B	252	THR
1	B	260	MET
1	B	263	ASP
1	B	266	SER
1	B	270	CYS
1	B	273	SER

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Mol	Chain	Res	Type
1	B	274	LEU
1	B	276	LYS
1	B	280	ASN
1	B	281	LEU
1	B	286	LYS
1	B	308	ILE
1	B	311	LEU
1	B	317	ASN
1	B	322	LEU
1	B	323	VAL
1	B	326	TYR
1	B	327	GLU
1	B	329	PRO
1	B	339	ARG
1	B	344	ARG
1	B	345	ILE
1	B	347	VAL
1	B	348	VAL
1	B	350	SER
1	B	354	ARG
1	B	355	ARG
1	B	356	ILE
1	B	359	ARG
1	B	360	PHE
1	B	366	ASN
1	B	374	LEU
1	B	375	LEU
1	B	379	LEU
1	B	380	ASP
1	B	382	ILE
1	B	383	LYS
1	B	384	ASN
1	B	386	ILE
1	B	392	MET
1	B	393	ASP
1	B	397	TYR
1	B	399	LEU
1	B	402	GLU
1	B	405	LYS
1	B	406	GLU
1	B	407	ILE
1	B	410	VAL

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Mol	Chain	Res	Type
1	B	418	LEU
1	B	424	ASP
1	B	428	LEU
1	B	429	LYS
1	B	433	VAL
1	B	446	ARG
1	B	447	ARG
1	B	449	GLU
1	B	452	ARG
1	B	454	ARG
1	B	464	LEU
1	B	467	SER
1	B	468	VAL
1	C	1	SER
1	C	3	GLU
1	C	9	LEU
1	C	11	GLU
1	C	13	GLU
1	C	14	VAL
1	C	15	LYS
1	C	18	ASP
1	C	19	LEU
1	C	20	ARG
1	C	21	PHE
1	C	24	THR
1	C	30	HIS
1	C	33	ILE
1	C	36	HIS
1	C	39	ASN
1	C	41	GLU
1	C	44	GLU
1	C	47	LYS
1	C	48	MET
1	C	49	PHE
1	C	54	ILE
1	C	57	TRP
1	C	58	LYS
1	C	60	ILE
1	C	61	ASN
1	C	63	SER
1	C	64	ASP
1	C	65	MET

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Mol	Chain	Res	Type
1	C	67	LEU
1	C	68	MET
1	C	70	ASP
1	C	73	THR
1	C	76	ILE
1	C	77	ASP
1	C	82	ASP
1	C	83	SER
1	C	84	THR
1	C	85	LEU
1	C	86	ILE
1	C	87	ILE
1	C	90	ASP
1	C	91	ILE
1	C	92	LEU
1	C	93	GLU
1	C	97	LEU
1	C	100	TYR
1	C	104	PRO
1	C	105	ARG
1	C	106	SER
1	C	109	LYS
1	C	110	ARG
1	C	113	ASP
1	C	114	TYR
1	C	115	LEU
1	C	118	THR
1	C	122	ASP
1	C	123	THR
1	C	125	LEU
1	C	129	GLU
1	C	131	GLU
1	C	135	PHE
1	C	138	ILE
1	C	145	SER
1	C	153	ASP
1	C	154	ILE
1	C	163	LYS
1	C	165	GLU
1	C	168	ASN
1	C	169	LYS
1	C	172	ARG

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Mol	Chain	Res	Type
1	C	175	VAL
1	C	176	LYS
1	C	179	TYR
1	C	180	PHE
1	C	182	VAL
1	C	183	PRO
1	C	189	GLN
1	C	190	ASP
1	C	191	ILE
1	C	202	MET
1	C	204	LEU
1	C	209	HIS
1	C	212	GLU
1	C	213	VAL
1	C	215	THR
1	C	224	ARG
1	C	226	ASN
1	C	228	MET
1	C	230	LYS
1	C	231	LYS
1	C	233	ASP
1	C	236	GLN
1	C	239	LYS
1	C	241	VAL
1	C	247	HIS
1	C	248	ARG
1	C	252	THR
1	C	260	MET
1	C	263	ASP
1	C	266	SER
1	C	270	CYS
1	C	273	SER
1	C	274	LEU
1	C	276	LYS
1	C	280	ASN
1	C	281	LEU
1	C	286	LYS
1	C	308	ILE
1	C	311	LEU
1	C	317	ASN
1	C	322	LEU
1	C	323	VAL

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Mol	Chain	Res	Type
1	C	326	TYR
1	C	327	GLU
1	C	329	PRO
1	C	339	ARG
1	C	344	ARG
1	C	345	ILE
1	C	347	VAL
1	C	348	VAL
1	C	350	SER
1	C	354	ARG
1	C	355	ARG
1	C	356	ILE
1	C	359	ARG
1	C	360	PHE
1	C	366	ASN
1	C	374	LEU
1	C	375	LEU
1	C	379	LEU
1	C	380	ASP
1	C	382	ILE
1	C	383	LYS
1	C	384	ASN
1	C	386	ILE
1	C	392	MET
1	C	393	ASP
1	C	397	TYR
1	C	399	LEU
1	C	402	GLU
1	C	405	LYS
1	C	406	GLU
1	C	407	ILE
1	C	410	VAL
1	C	418	LEU
1	C	424	ASP
1	C	428	LEU
1	C	429	LYS
1	C	433	VAL
1	C	446	ARG
1	C	447	ARG
1	C	449	GLU
1	C	452	ARG
1	C	454	ARG

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Mol	Chain	Res	Type
1	C	464	LEU
1	C	467	SER
1	C	468	VAL
1	D	1	SER
1	D	3	GLU
1	D	9	LEU
1	D	11	GLU
1	D	13	GLU
1	D	14	VAL
1	D	15	LYS
1	D	18	ASP
1	D	19	LEU
1	D	20	ARG
1	D	21	PHE
1	D	24	THR
1	D	30	HIS
1	D	33	ILE
1	D	36	HIS
1	D	39	ASN
1	D	41	GLU
1	D	44	GLU
1	D	47	LYS
1	D	48	MET
1	D	49	PHE
1	D	54	ILE
1	D	57	TRP
1	D	58	LYS
1	D	60	ILE
1	D	61	ASN
1	D	63	SER
1	D	64	ASP
1	D	65	MET
1	D	67	LEU
1	D	68	MET
1	D	70	ASP
1	D	73	THR
1	D	76	ILE
1	D	77	ASP
1	D	82	ASP
1	D	83	SER
1	D	84	THR
1	D	85	LEU

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Mol	Chain	Res	Type
1	D	86	ILE
1	D	87	ILE
1	D	90	ASP
1	D	91	ILE
1	D	92	LEU
1	D	93	GLU
1	D	97	LEU
1	D	100	TYR
1	D	104	PRO
1	D	105	ARG
1	D	106	SER
1	D	109	LYS
1	D	110	ARG
1	D	113	ASP
1	D	114	TYR
1	D	115	LEU
1	D	118	THR
1	D	122	ASP
1	D	123	THR
1	D	125	LEU
1	D	129	GLU
1	D	131	GLU
1	D	135	PHE
1	D	138	ILE
1	D	145	SER
1	D	153	ASP
1	D	154	ILE
1	D	163	LYS
1	D	165	GLU
1	D	168	ASN
1	D	169	LYS
1	D	172	ARG
1	D	175	VAL
1	D	176	LYS
1	D	179	TYR
1	D	180	PHE
1	D	182	VAL
1	D	183	PRO
1	D	189	GLN
1	D	190	ASP
1	D	191	ILE
1	D	202	MET

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Mol	Chain	Res	Type
1	D	204	LEU
1	D	209	HIS
1	D	212	GLU
1	D	213	VAL
1	D	215	THR
1	D	224	ARG
1	D	226	ASN
1	D	228	MET
1	D	230	LYS
1	D	231	LYS
1	D	233	ASP
1	D	236	GLN
1	D	239	LYS
1	D	241	VAL
1	D	247	HIS
1	D	248	ARG
1	D	252	THR
1	D	260	MET
1	D	263	ASP
1	D	266	SER
1	D	270	CYS
1	D	273	SER
1	D	274	LEU
1	D	276	LYS
1	D	280	ASN
1	D	281	LEU
1	D	286	LYS
1	D	308	ILE
1	D	311	LEU
1	D	317	ASN
1	D	322	LEU
1	D	323	VAL
1	D	326	TYR
1	D	327	GLU
1	D	329	PRO
1	D	339	ARG
1	D	344	ARG
1	D	345	ILE
1	D	347	VAL
1	D	348	VAL
1	D	350	SER
1	D	354	ARG

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Mol	Chain	Res	Type
1	D	355	ARG
1	D	356	ILE
1	D	359	ARG
1	D	360	PHE
1	D	366	ASN
1	D	374	LEU
1	D	375	LEU
1	D	379	LEU
1	D	380	ASP
1	D	382	ILE
1	D	383	LYS
1	D	384	ASN
1	D	386	ILE
1	D	392	MET
1	D	393	ASP
1	D	397	TYR
1	D	399	LEU
1	D	402	GLU
1	D	405	LYS
1	D	406	GLU
1	D	407	ILE
1	D	410	VAL
1	D	418	LEU
1	D	424	ASP
1	D	428	LEU
1	D	429	LYS
1	D	433	VAL
1	D	446	ARG
1	D	447	ARG
1	D	449	GLU
1	D	452	ARG
1	D	454	ARG
1	D	464	LEU
1	D	467	SER
1	D	468	VAL
1	E	1	SER
1	E	3	GLU
1	E	9	LEU
1	E	11	GLU
1	E	13	GLU
1	E	14	VAL
1	E	15	LYS

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Mol	Chain	Res	Type
1	E	18	ASP
1	E	19	LEU
1	E	20	ARG
1	E	21	PHE
1	E	24	THR
1	E	30	HIS
1	E	33	ILE
1	E	36	HIS
1	E	39	ASN
1	E	41	GLU
1	E	44	GLU
1	E	47	LYS
1	E	48	MET
1	E	49	PHE
1	E	54	ILE
1	E	57	TRP
1	E	58	LYS
1	E	60	ILE
1	E	61	ASN
1	E	63	SER
1	E	64	ASP
1	E	65	MET
1	E	67	LEU
1	E	68	MET
1	E	70	ASP
1	E	73	THR
1	E	76	ILE
1	E	77	ASP
1	E	82	ASP
1	E	83	SER
1	E	84	THR
1	E	85	LEU
1	E	86	ILE
1	E	87	ILE
1	E	90	ASP
1	E	91	ILE
1	E	92	LEU
1	E	93	GLU
1	E	97	LEU
1	E	100	TYR
1	E	104	PRO
1	E	105	ARG

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Mol	Chain	Res	Type
1	E	106	SER
1	E	109	LYS
1	E	110	ARG
1	E	113	ASP
1	E	114	TYR
1	E	115	LEU
1	E	118	THR
1	E	122	ASP
1	E	123	THR
1	E	125	LEU
1	E	129	GLU
1	E	131	GLU
1	E	135	PHE
1	E	138	ILE
1	E	145	SER
1	E	153	ASP
1	E	154	ILE
1	E	163	LYS
1	E	165	GLU
1	E	168	ASN
1	E	169	LYS
1	E	172	ARG
1	E	175	VAL
1	E	176	LYS
1	E	179	TYR
1	E	180	PHE
1	E	182	VAL
1	E	183	PRO
1	E	189	GLN
1	E	190	ASP
1	E	191	ILE
1	E	202	MET
1	E	204	LEU
1	E	209	HIS
1	E	212	GLU
1	E	213	VAL
1	E	215	THR
1	E	224	ARG
1	E	226	ASN
1	E	228	MET
1	E	230	LYS
1	E	231	LYS

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Mol	Chain	Res	Type
1	E	233	ASP
1	E	236	GLN
1	E	239	LYS
1	E	241	VAL
1	E	247	HIS
1	E	248	ARG
1	E	252	THR
1	E	260	MET
1	E	263	ASP
1	E	266	SER
1	E	270	CYS
1	E	273	SER
1	E	274	LEU
1	E	276	LYS
1	E	280	ASN
1	E	281	LEU
1	E	286	LYS
1	E	308	ILE
1	E	311	LEU
1	E	317	ASN
1	E	322	LEU
1	E	323	VAL
1	E	326	TYR
1	E	327	GLU
1	E	329	PRO
1	E	339	ARG
1	E	344	ARG
1	E	345	ILE
1	E	347	VAL
1	E	348	VAL
1	E	350	SER
1	E	354	ARG
1	E	355	ARG
1	E	356	ILE
1	E	359	ARG
1	E	360	PHE
1	E	366	ASN
1	E	374	LEU
1	E	375	LEU
1	E	379	LEU
1	E	380	ASP
1	E	382	ILE

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Mol	Chain	Res	Type
1	E	383	LYS
1	E	384	ASN
1	E	386	ILE
1	E	392	MET
1	E	393	ASP
1	E	397	TYR
1	E	399	LEU
1	E	402	GLU
1	E	405	LYS
1	E	406	GLU
1	E	407	ILE
1	E	410	VAL
1	E	418	LEU
1	E	424	ASP
1	E	428	LEU
1	E	429	LYS
1	E	433	VAL
1	E	446	ARG
1	E	447	ARG
1	E	449	GLU
1	E	452	ARG
1	E	454	ARG
1	E	464	LEU
1	E	467	SER
1	E	468	VAL
1	F	1	SER
1	F	3	GLU
1	F	9	LEU
1	F	11	GLU
1	F	13	GLU
1	F	14	VAL
1	F	15	LYS
1	F	18	ASP
1	F	19	LEU
1	F	20	ARG
1	F	21	PHE
1	F	24	THR
1	F	30	HIS
1	F	33	ILE
1	F	36	HIS
1	F	39	ASN
1	F	41	GLU

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Mol	Chain	Res	Type
1	F	44	GLU
1	F	47	LYS
1	F	48	MET
1	F	49	PHE
1	F	54	ILE
1	F	57	TRP
1	F	58	LYS
1	F	60	ILE
1	F	61	ASN
1	F	63	SER
1	F	64	ASP
1	F	65	MET
1	F	67	LEU
1	F	68	MET
1	F	70	ASP
1	F	73	THR
1	F	76	ILE
1	F	77	ASP
1	F	82	ASP
1	F	83	SER
1	F	84	THR
1	F	85	LEU
1	F	86	ILE
1	F	87	ILE
1	F	90	ASP
1	F	91	ILE
1	F	92	LEU
1	F	93	GLU
1	F	97	LEU
1	F	100	TYR
1	F	104	PRO
1	F	105	ARG
1	F	106	SER
1	F	109	LYS
1	F	110	ARG
1	F	113	ASP
1	F	114	TYR
1	F	115	LEU
1	F	118	THR
1	F	122	ASP
1	F	123	THR
1	F	125	LEU

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Mol	Chain	Res	Type
1	F	129	GLU
1	F	131	GLU
1	F	135	PHE
1	F	138	ILE
1	F	145	SER
1	F	153	ASP
1	F	154	ILE
1	F	163	LYS
1	F	165	GLU
1	F	168	ASN
1	F	169	LYS
1	F	172	ARG
1	F	175	VAL
1	F	176	LYS
1	F	179	TYR
1	F	180	PHE
1	F	182	VAL
1	F	183	PRO
1	F	189	GLN
1	F	190	ASP
1	F	191	ILE
1	F	202	MET
1	F	204	LEU
1	F	209	HIS
1	F	212	GLU
1	F	213	VAL
1	F	215	THR
1	F	224	ARG
1	F	226	ASN
1	F	228	MET
1	F	230	LYS
1	F	231	LYS
1	F	233	ASP
1	F	236	GLN
1	F	239	LYS
1	F	241	VAL
1	F	247	HIS
1	F	248	ARG
1	F	252	THR
1	F	260	MET
1	F	263	ASP
1	F	266	SER

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Mol	Chain	Res	Type
1	F	270	CYS
1	F	273	SER
1	F	274	LEU
1	F	276	LYS
1	F	280	ASN
1	F	281	LEU
1	F	286	LYS
1	F	308	ILE
1	F	311	LEU
1	F	317	ASN
1	F	322	LEU
1	F	323	VAL
1	F	326	TYR
1	F	327	GLU
1	F	329	PRO
1	F	339	ARG
1	F	344	ARG
1	F	345	ILE
1	F	347	VAL
1	F	348	VAL
1	F	350	SER
1	F	354	ARG
1	F	355	ARG
1	F	356	ILE
1	F	359	ARG
1	F	360	PHE
1	F	366	ASN
1	F	374	LEU
1	F	375	LEU
1	F	379	LEU
1	F	380	ASP
1	F	382	ILE
1	F	383	LYS
1	F	384	ASN
1	F	386	ILE
1	F	392	MET
1	F	393	ASP
1	F	397	TYR
1	F	399	LEU
1	F	402	GLU
1	F	405	LYS
1	F	406	GLU

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Mol	Chain	Res	Type
1	F	407	ILE
1	F	410	VAL
1	F	418	LEU
1	F	424	ASP
1	F	428	LEU
1	F	429	LYS
1	F	433	VAL
1	F	446	ARG
1	F	447	ARG
1	F	449	GLU
1	F	452	ARG
1	F	454	ARG
1	F	464	LEU
1	F	467	SER
1	F	468	VAL
1	G	1	SER
1	G	3	GLU
1	G	9	LEU
1	G	11	GLU
1	G	13	GLU
1	G	14	VAL
1	G	15	LYS
1	G	18	ASP
1	G	19	LEU
1	G	20	ARG
1	G	21	PHE
1	G	24	THR
1	G	30	HIS
1	G	33	ILE
1	G	36	HIS
1	G	39	ASN
1	G	41	GLU
1	G	44	GLU
1	G	47	LYS
1	G	48	MET
1	G	49	PHE
1	G	54	ILE
1	G	57	TRP
1	G	58	LYS
1	G	60	ILE
1	G	61	ASN
1	G	63	SER

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Mol	Chain	Res	Type
1	G	64	ASP
1	G	65	MET
1	G	67	LEU
1	G	68	MET
1	G	70	ASP
1	G	73	THR
1	G	76	ILE
1	G	77	ASP
1	G	82	ASP
1	G	83	SER
1	G	84	THR
1	G	85	LEU
1	G	86	ILE
1	G	87	ILE
1	G	90	ASP
1	G	91	ILE
1	G	92	LEU
1	G	93	GLU
1	G	97	LEU
1	G	100	TYR
1	G	104	PRO
1	G	105	ARG
1	G	106	SER
1	G	109	LYS
1	G	110	ARG
1	G	113	ASP
1	G	114	TYR
1	G	115	LEU
1	G	118	THR
1	G	122	ASP
1	G	123	THR
1	G	125	LEU
1	G	129	GLU
1	G	131	GLU
1	G	135	PHE
1	G	138	ILE
1	G	145	SER
1	G	153	ASP
1	G	154	ILE
1	G	163	LYS
1	G	165	GLU
1	G	168	ASN

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Mol	Chain	Res	Type
1	G	169	LYS
1	G	172	ARG
1	G	175	VAL
1	G	176	LYS
1	G	179	TYR
1	G	180	PHE
1	G	182	VAL
1	G	183	PRO
1	G	189	GLN
1	G	190	ASP
1	G	191	ILE
1	G	202	MET
1	G	204	LEU
1	G	209	HIS
1	G	212	GLU
1	G	213	VAL
1	G	215	THR
1	G	224	ARG
1	G	226	ASN
1	G	228	MET
1	G	230	LYS
1	G	231	LYS
1	G	233	ASP
1	G	236	GLN
1	G	239	LYS
1	G	241	VAL
1	G	247	HIS
1	G	248	ARG
1	G	252	THR
1	G	260	MET
1	G	263	ASP
1	G	266	SER
1	G	270	CYS
1	G	273	SER
1	G	274	LEU
1	G	276	LYS
1	G	280	ASN
1	G	281	LEU
1	G	286	LYS
1	G	308	ILE
1	G	311	LEU
1	G	317	ASN

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Mol	Chain	Res	Type
1	G	322	LEU
1	G	323	VAL
1	G	326	TYR
1	G	327	GLU
1	G	329	PRO
1	G	339	ARG
1	G	344	ARG
1	G	345	ILE
1	G	347	VAL
1	G	348	VAL
1	G	350	SER
1	G	354	ARG
1	G	355	ARG
1	G	356	ILE
1	G	359	ARG
1	G	360	PHE
1	G	366	ASN
1	G	374	LEU
1	G	375	LEU
1	G	379	LEU
1	G	380	ASP
1	G	382	ILE
1	G	383	LYS
1	G	384	ASN
1	G	386	ILE
1	G	392	MET
1	G	393	ASP
1	G	397	TYR
1	G	399	LEU
1	G	402	GLU
1	G	405	LYS
1	G	406	GLU
1	G	407	ILE
1	G	410	VAL
1	G	418	LEU
1	G	424	ASP
1	G	428	LEU
1	G	429	LYS
1	G	433	VAL
1	G	446	ARG
1	G	447	ARG
1	G	449	GLU

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Mol	Chain	Res	Type
1	G	452	ARG
1	G	454	ARG
1	G	464	LEU
1	G	467	SER
1	G	468	VAL
1	H	1	SER
1	H	3	GLU
1	H	9	LEU
1	H	11	GLU
1	H	13	GLU
1	H	14	VAL
1	H	15	LYS
1	H	18	ASP
1	H	19	LEU
1	H	20	ARG
1	H	21	PHE
1	H	24	THR
1	H	30	HIS
1	H	33	ILE
1	H	36	HIS
1	H	39	ASN
1	H	41	GLU
1	H	44	GLU
1	H	47	LYS
1	H	48	MET
1	H	49	PHE
1	H	54	ILE
1	H	57	TRP
1	H	58	LYS
1	H	60	ILE
1	H	61	ASN
1	H	63	SER
1	H	64	ASP
1	H	65	MET
1	H	67	LEU
1	H	68	MET
1	H	70	ASP
1	H	73	THR
1	H	76	ILE
1	H	77	ASP
1	H	82	ASP
1	H	83	SER

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Mol	Chain	Res	Type
1	H	84	THR
1	H	85	LEU
1	H	86	ILE
1	H	87	ILE
1	H	90	ASP
1	H	91	ILE
1	H	92	LEU
1	H	93	GLU
1	H	97	LEU
1	H	100	TYR
1	H	104	PRO
1	H	105	ARG
1	H	106	SER
1	H	109	LYS
1	H	110	ARG
1	H	113	ASP
1	H	114	TYR
1	H	115	LEU
1	H	118	THR
1	H	122	ASP
1	H	123	THR
1	H	125	LEU
1	H	129	GLU
1	H	131	GLU
1	H	135	PHE
1	H	138	ILE
1	H	145	SER
1	H	153	ASP
1	H	154	ILE
1	H	163	LYS
1	H	165	GLU
1	H	168	ASN
1	H	169	LYS
1	H	172	ARG
1	H	175	VAL
1	H	176	LYS
1	H	179	TYR
1	H	180	PHE
1	H	182	VAL
1	H	189	GLN
1	H	190	ASP
1	H	191	ILE

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Mol	Chain	Res	Type
1	H	202	MET
1	H	204	LEU
1	H	209	HIS
1	H	212	GLU
1	H	213	VAL
1	H	215	THR
1	H	224	ARG
1	H	226	ASN
1	H	228	MET
1	H	230	LYS
1	H	231	LYS
1	H	233	ASP
1	H	236	GLN
1	H	239	LYS
1	H	241	VAL
1	H	247	HIS
1	H	248	ARG
1	H	252	THR
1	H	260	MET
1	H	263	ASP
1	H	266	SER
1	H	270	CYS
1	H	273	SER
1	H	274	LEU
1	H	276	LYS
1	H	280	ASN
1	H	281	LEU
1	H	286	LYS
1	H	308	ILE
1	H	311	LEU
1	H	317	ASN
1	H	322	LEU
1	H	323	VAL
1	H	326	TYR
1	H	327	GLU
1	H	329	PRO
1	H	339	ARG
1	H	344	ARG
1	H	345	ILE
1	H	347	VAL
1	H	348	VAL
1	H	350	SER

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Mol	Chain	Res	Type
1	H	354	ARG
1	H	355	ARG
1	H	356	ILE
1	H	359	ARG
1	H	360	PHE
1	H	366	ASN
1	H	374	LEU
1	H	375	LEU
1	H	379	LEU
1	H	380	ASP
1	H	382	ILE
1	H	383	LYS
1	H	384	ASN
1	H	386	ILE
1	H	392	MET
1	H	393	ASP
1	H	397	TYR
1	H	399	LEU
1	H	402	GLU
1	H	405	LYS
1	H	406	GLU
1	H	407	ILE
1	H	410	VAL
1	H	418	LEU
1	H	424	ASP
1	H	428	LEU
1	H	429	LYS
1	H	433	VAL
1	H	446	ARG
1	H	447	ARG
1	H	449	GLU
1	H	452	ARG
1	H	454	ARG
1	H	464	LEU
1	H	467	SER
1	H	468	VAL
1	I	1	SER
1	I	3	GLU
1	I	9	LEU
1	I	11	GLU
1	I	13	GLU
1	I	14	VAL

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Mol	Chain	Res	Type
1	I	15	LYS
1	I	18	ASP
1	I	19	LEU
1	I	20	ARG
1	I	21	PHE
1	I	24	THR
1	I	30	HIS
1	I	33	ILE
1	I	36	HIS
1	I	39	ASN
1	I	41	GLU
1	I	44	GLU
1	I	47	LYS
1	I	48	MET
1	I	49	PHE
1	I	54	ILE
1	I	57	TRP
1	I	58	LYS
1	I	60	ILE
1	I	61	ASN
1	I	63	SER
1	I	64	ASP
1	I	65	MET
1	I	67	LEU
1	I	68	MET
1	I	70	ASP
1	I	73	THR
1	I	76	ILE
1	I	77	ASP
1	I	82	ASP
1	I	83	SER
1	I	84	THR
1	I	85	LEU
1	I	86	ILE
1	I	87	ILE
1	I	90	ASP
1	I	91	ILE
1	I	92	LEU
1	I	93	GLU
1	I	97	LEU
1	I	100	TYR
1	I	104	PRO

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Mol	Chain	Res	Type
1	I	105	ARG
1	I	106	SER
1	I	109	LYS
1	I	110	ARG
1	I	113	ASP
1	I	114	TYR
1	I	115	LEU
1	I	118	THR
1	I	122	ASP
1	I	123	THR
1	I	125	LEU
1	I	129	GLU
1	I	131	GLU
1	I	135	PHE
1	I	138	ILE
1	I	145	SER
1	I	153	ASP
1	I	154	ILE
1	I	163	LYS
1	I	165	GLU
1	I	168	ASN
1	I	169	LYS
1	I	172	ARG
1	I	175	VAL
1	I	176	LYS
1	I	179	TYR
1	I	180	PHE
1	I	182	VAL
1	I	183	PRO
1	I	189	GLN
1	I	190	ASP
1	I	191	ILE
1	I	202	MET
1	I	204	LEU
1	I	209	HIS
1	I	212	GLU
1	I	213	VAL
1	I	215	THR
1	I	224	ARG
1	I	226	ASN
1	I	228	MET
1	I	230	LYS

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Mol	Chain	Res	Type
1	I	231	LYS
1	I	233	ASP
1	I	236	GLN
1	I	239	LYS
1	I	241	VAL
1	I	247	HIS
1	I	248	ARG
1	I	252	THR
1	I	260	MET
1	I	263	ASP
1	I	266	SER
1	I	270	CYS
1	I	273	SER
1	I	274	LEU
1	I	276	LYS
1	I	280	ASN
1	I	281	LEU
1	I	286	LYS
1	I	308	ILE
1	I	311	LEU
1	I	317	ASN
1	I	322	LEU
1	I	323	VAL
1	I	326	TYR
1	I	327	GLU
1	I	329	PRO
1	I	339	ARG
1	I	344	ARG
1	I	345	ILE
1	I	347	VAL
1	I	348	VAL
1	I	350	SER
1	I	354	ARG
1	I	355	ARG
1	I	356	ILE
1	I	359	ARG
1	I	360	PHE
1	I	366	ASN
1	I	374	LEU
1	I	375	LEU
1	I	379	LEU
1	I	380	ASP

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Mol	Chain	Res	Type
1	I	382	ILE
1	I	383	LYS
1	I	384	ASN
1	I	386	ILE
1	I	392	MET
1	I	393	ASP
1	I	397	TYR
1	I	399	LEU
1	I	402	GLU
1	I	405	LYS
1	I	406	GLU
1	I	407	ILE
1	I	410	VAL
1	I	418	LEU
1	I	424	ASP
1	I	428	LEU
1	I	429	LYS
1	I	433	VAL
1	I	446	ARG
1	I	447	ARG
1	I	449	GLU
1	I	452	ARG
1	I	454	ARG
1	I	464	LEU
1	I	467	SER
1	I	468	VAL
1	J	1	SER
1	J	3	GLU
1	J	9	LEU
1	J	11	GLU
1	J	13	GLU
1	J	14	VAL
1	J	15	LYS
1	J	18	ASP
1	J	19	LEU
1	J	20	ARG
1	J	21	PHE
1	J	24	THR
1	J	30	HIS
1	J	33	ILE
1	J	36	HIS
1	J	39	ASN

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Mol	Chain	Res	Type
1	J	41	GLU
1	J	44	GLU
1	J	47	LYS
1	J	48	MET
1	J	49	PHE
1	J	54	ILE
1	J	57	TRP
1	J	58	LYS
1	J	60	ILE
1	J	61	ASN
1	J	63	SER
1	J	64	ASP
1	J	65	MET
1	J	67	LEU
1	J	68	MET
1	J	70	ASP
1	J	73	THR
1	J	76	ILE
1	J	77	ASP
1	J	82	ASP
1	J	83	SER
1	J	84	THR
1	J	85	LEU
1	J	86	ILE
1	J	87	ILE
1	J	90	ASP
1	J	91	ILE
1	J	92	LEU
1	J	93	GLU
1	J	97	LEU
1	J	100	TYR
1	J	104	PRO
1	J	105	ARG
1	J	106	SER
1	J	109	LYS
1	J	110	ARG
1	J	113	ASP
1	J	114	TYR
1	J	115	LEU
1	J	118	THR
1	J	122	ASP
1	J	123	THR

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Mol	Chain	Res	Type
1	J	125	LEU
1	J	129	GLU
1	J	131	GLU
1	J	135	PHE
1	J	138	ILE
1	J	145	SER
1	J	153	ASP
1	J	154	ILE
1	J	163	LYS
1	J	165	GLU
1	J	168	ASN
1	J	169	LYS
1	J	172	ARG
1	J	175	VAL
1	J	176	LYS
1	J	179	TYR
1	J	180	PHE
1	J	182	VAL
1	J	183	PRO
1	J	189	GLN
1	J	190	ASP
1	J	191	ILE
1	J	202	MET
1	J	204	LEU
1	J	209	HIS
1	J	212	GLU
1	J	213	VAL
1	J	215	THR
1	J	224	ARG
1	J	226	ASN
1	J	228	MET
1	J	230	LYS
1	J	231	LYS
1	J	233	ASP
1	J	236	GLN
1	J	239	LYS
1	J	241	VAL
1	J	247	HIS
1	J	248	ARG
1	J	252	THR
1	J	260	MET
1	J	263	ASP

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Mol	Chain	Res	Type
1	J	266	SER
1	J	270	CYS
1	J	273	SER
1	J	274	LEU
1	J	276	LYS
1	J	280	ASN
1	J	281	LEU
1	J	286	LYS
1	J	308	ILE
1	J	311	LEU
1	J	317	ASN
1	J	322	LEU
1	J	323	VAL
1	J	326	TYR
1	J	327	GLU
1	J	329	PRO
1	J	339	ARG
1	J	344	ARG
1	J	345	ILE
1	J	347	VAL
1	J	348	VAL
1	J	350	SER
1	J	354	ARG
1	J	355	ARG
1	J	356	ILE
1	J	359	ARG
1	J	360	PHE
1	J	366	ASN
1	J	374	LEU
1	J	375	LEU
1	J	379	LEU
1	J	380	ASP
1	J	382	ILE
1	J	383	LYS
1	J	384	ASN
1	J	386	ILE
1	J	392	MET
1	J	393	ASP
1	J	397	TYR
1	J	399	LEU
1	J	402	GLU
1	J	405	LYS

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Mol	Chain	Res	Type
1	J	406	GLU
1	J	407	ILE
1	J	410	VAL
1	J	418	LEU
1	J	424	ASP
1	J	428	LEU
1	J	429	LYS
1	J	433	VAL
1	J	446	ARG
1	J	447	ARG
1	J	449	GLU
1	J	452	ARG
1	J	454	ARG
1	J	464	LEU
1	J	467	SER
1	J	468	VAL
1	K	1	SER
1	K	3	GLU
1	K	9	LEU
1	K	11	GLU
1	K	13	GLU
1	K	14	VAL
1	K	15	LYS
1	K	18	ASP
1	K	19	LEU
1	K	20	ARG
1	K	21	PHE
1	K	24	THR
1	K	30	HIS
1	K	33	ILE
1	K	36	HIS
1	K	39	ASN
1	K	41	GLU
1	K	44	GLU
1	K	47	LYS
1	K	48	MET
1	K	49	PHE
1	K	54	ILE
1	K	57	TRP
1	K	58	LYS
1	K	60	ILE
1	K	61	ASN

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Mol	Chain	Res	Type
1	K	63	SER
1	K	64	ASP
1	K	65	MET
1	K	67	LEU
1	K	68	MET
1	K	70	ASP
1	K	73	THR
1	K	76	ILE
1	K	77	ASP
1	K	82	ASP
1	K	83	SER
1	K	84	THR
1	K	85	LEU
1	K	86	ILE
1	K	87	ILE
1	K	90	ASP
1	K	91	ILE
1	K	92	LEU
1	K	93	GLU
1	K	97	LEU
1	K	100	TYR
1	K	104	PRO
1	K	105	ARG
1	K	106	SER
1	K	109	LYS
1	K	110	ARG
1	K	113	ASP
1	K	114	TYR
1	K	115	LEU
1	K	118	THR
1	K	122	ASP
1	K	123	THR
1	K	125	LEU
1	K	129	GLU
1	K	131	GLU
1	K	135	PHE
1	K	138	ILE
1	K	145	SER
1	K	153	ASP
1	K	154	ILE
1	K	163	LYS
1	K	165	GLU

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Mol	Chain	Res	Type
1	K	168	ASN
1	K	169	LYS
1	K	172	ARG
1	K	175	VAL
1	K	176	LYS
1	K	179	TYR
1	K	180	PHE
1	K	182	VAL
1	K	183	PRO
1	K	189	GLN
1	K	190	ASP
1	K	191	ILE
1	K	202	MET
1	K	204	LEU
1	K	209	HIS
1	K	212	GLU
1	K	213	VAL
1	K	215	THR
1	K	224	ARG
1	K	226	ASN
1	K	228	MET
1	K	230	LYS
1	K	231	LYS
1	K	233	ASP
1	K	236	GLN
1	K	239	LYS
1	K	241	VAL
1	K	247	HIS
1	K	248	ARG
1	K	252	THR
1	K	260	MET
1	K	263	ASP
1	K	266	SER
1	K	270	CYS
1	K	273	SER
1	K	274	LEU
1	K	276	LYS
1	K	280	ASN
1	K	281	LEU
1	K	286	LYS
1	K	308	ILE
1	K	311	LEU

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Mol	Chain	Res	Type
1	K	317	ASN
1	K	322	LEU
1	K	323	VAL
1	K	326	TYR
1	K	327	GLU
1	K	329	PRO
1	K	339	ARG
1	K	344	ARG
1	K	345	ILE
1	K	347	VAL
1	K	348	VAL
1	K	350	SER
1	K	354	ARG
1	K	355	ARG
1	K	356	ILE
1	K	359	ARG
1	K	360	PHE
1	K	366	ASN
1	K	374	LEU
1	K	375	LEU
1	K	379	LEU
1	K	380	ASP
1	K	382	ILE
1	K	383	LYS
1	K	384	ASN
1	K	386	ILE
1	K	392	MET
1	K	393	ASP
1	K	397	TYR
1	K	399	LEU
1	K	402	GLU
1	K	405	LYS
1	K	406	GLU
1	K	407	ILE
1	K	410	VAL
1	K	418	LEU
1	K	424	ASP
1	K	428	LEU
1	K	429	LYS
1	K	433	VAL
1	K	446	ARG
1	K	447	ARG

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Mol	Chain	Res	Type
1	K	449	GLU
1	K	452	ARG
1	K	454	ARG
1	K	464	LEU
1	K	467	SER
1	K	468	VAL
1	L	1	SER
1	L	3	GLU
1	L	9	LEU
1	L	11	GLU
1	L	13	GLU
1	L	14	VAL
1	L	15	LYS
1	L	18	ASP
1	L	19	LEU
1	L	20	ARG
1	L	21	PHE
1	L	24	THR
1	L	30	HIS
1	L	33	ILE
1	L	36	HIS
1	L	39	ASN
1	L	41	GLU
1	L	44	GLU
1	L	47	LYS
1	L	48	MET
1	L	49	PHE
1	L	54	ILE
1	L	57	TRP
1	L	58	LYS
1	L	60	ILE
1	L	61	ASN
1	L	63	SER
1	L	64	ASP
1	L	65	MET
1	L	67	LEU
1	L	68	MET
1	L	70	ASP
1	L	73	THR
1	L	76	ILE
1	L	77	ASP
1	L	82	ASP

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Mol	Chain	Res	Type
1	L	83	SER
1	L	84	THR
1	L	85	LEU
1	L	86	ILE
1	L	87	ILE
1	L	90	ASP
1	L	91	ILE
1	L	92	LEU
1	L	93	GLU
1	L	97	LEU
1	L	100	TYR
1	L	104	PRO
1	L	105	ARG
1	L	106	SER
1	L	109	LYS
1	L	110	ARG
1	L	113	ASP
1	L	114	TYR
1	L	115	LEU
1	L	118	THR
1	L	122	ASP
1	L	123	THR
1	L	125	LEU
1	L	129	GLU
1	L	131	GLU
1	L	135	PHE
1	L	138	ILE
1	L	145	SER
1	L	153	ASP
1	L	154	ILE
1	L	163	LYS
1	L	165	GLU
1	L	168	ASN
1	L	169	LYS
1	L	172	ARG
1	L	175	VAL
1	L	176	LYS
1	L	179	TYR
1	L	180	PHE
1	L	182	VAL
1	L	189	GLN
1	L	190	ASP

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Mol	Chain	Res	Type
1	L	191	ILE
1	L	202	MET
1	L	204	LEU
1	L	209	HIS
1	L	212	GLU
1	L	213	VAL
1	L	215	THR
1	L	224	ARG
1	L	226	ASN
1	L	228	MET
1	L	230	LYS
1	L	231	LYS
1	L	233	ASP
1	L	236	GLN
1	L	239	LYS
1	L	241	VAL
1	L	247	HIS
1	L	248	ARG
1	L	252	THR
1	L	260	MET
1	L	263	ASP
1	L	266	SER
1	L	270	CYS
1	L	273	SER
1	L	274	LEU
1	L	276	LYS
1	L	280	ASN
1	L	281	LEU
1	L	286	LYS
1	L	308	ILE
1	L	311	LEU
1	L	317	ASN
1	L	322	LEU
1	L	323	VAL
1	L	326	TYR
1	L	327	GLU
1	L	329	PRO
1	L	339	ARG
1	L	344	ARG
1	L	345	ILE
1	L	347	VAL
1	L	348	VAL

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Mol	Chain	Res	Type
1	L	350	SER
1	L	354	ARG
1	L	355	ARG
1	L	356	ILE
1	L	359	ARG
1	L	360	PHE
1	L	366	ASN
1	L	374	LEU
1	L	375	LEU
1	L	379	LEU
1	L	380	ASP
1	L	382	ILE
1	L	383	LYS
1	L	384	ASN
1	L	386	ILE
1	L	392	MET
1	L	393	ASP
1	L	397	TYR
1	L	399	LEU
1	L	402	GLU
1	L	405	LYS
1	L	406	GLU
1	L	407	ILE
1	L	410	VAL
1	L	418	LEU
1	L	424	ASP
1	L	428	LEU
1	L	429	LYS
1	L	433	VAL
1	L	446	ARG
1	L	447	ARG
1	L	449	GLU
1	L	452	ARG
1	L	454	ARG
1	L	464	LEU
1	L	467	SER
1	L	468	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (176) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	12	HIS

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Mol	Chain	Res	Type
1	A	39	ASN
1	A	61	ASN
1	A	98	GLN
1	A	148	HIS
1	A	159	ASN
1	A	168	ASN
1	A	189	GLN
1	A	280	ASN
1	A	293	GLN
1	A	313	ASN
1	A	317	ASN
1	A	338	ASN
1	A	387	HIS
1	A	458	HIS
1	B	12	HIS
1	B	39	ASN
1	B	61	ASN
1	B	148	HIS
1	B	159	ASN
1	B	168	ASN
1	B	189	GLN
1	B	280	ASN
1	B	293	GLN
1	B	313	ASN
1	B	317	ASN
1	B	338	ASN
1	B	387	HIS
1	B	458	HIS
1	C	12	HIS
1	C	39	ASN
1	C	61	ASN
1	C	148	HIS
1	C	159	ASN
1	C	168	ASN
1	C	189	GLN
1	C	280	ASN
1	C	293	GLN
1	C	313	ASN
1	C	317	ASN
1	C	338	ASN
1	C	387	HIS
1	C	458	HIS

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Mol	Chain	Res	Type
1	D	12	HIS
1	D	39	ASN
1	D	61	ASN
1	D	98	GLN
1	D	148	HIS
1	D	159	ASN
1	D	168	ASN
1	D	189	GLN
1	D	280	ASN
1	D	293	GLN
1	D	313	ASN
1	D	317	ASN
1	D	338	ASN
1	D	387	HIS
1	D	458	HIS
1	E	12	HIS
1	E	39	ASN
1	E	61	ASN
1	E	98	GLN
1	E	148	HIS
1	E	159	ASN
1	E	168	ASN
1	E	189	GLN
1	E	280	ASN
1	E	293	GLN
1	E	313	ASN
1	E	317	ASN
1	E	338	ASN
1	E	387	HIS
1	E	458	HIS
1	F	12	HIS
1	F	39	ASN
1	F	61	ASN
1	F	148	HIS
1	F	159	ASN
1	F	168	ASN
1	F	189	GLN
1	F	280	ASN
1	F	293	GLN
1	F	313	ASN
1	F	317	ASN
1	F	338	ASN

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Mol	Chain	Res	Type
1	F	387	HIS
1	F	458	HIS
1	G	12	HIS
1	G	39	ASN
1	G	61	ASN
1	G	98	GLN
1	G	148	HIS
1	G	159	ASN
1	G	168	ASN
1	G	189	GLN
1	G	280	ASN
1	G	293	GLN
1	G	313	ASN
1	G	317	ASN
1	G	338	ASN
1	G	387	HIS
1	G	458	HIS
1	H	12	HIS
1	H	39	ASN
1	H	61	ASN
1	H	148	HIS
1	H	159	ASN
1	H	168	ASN
1	H	189	GLN
1	H	280	ASN
1	H	293	GLN
1	H	313	ASN
1	H	317	ASN
1	H	338	ASN
1	H	387	HIS
1	H	458	HIS
1	I	12	HIS
1	I	39	ASN
1	I	61	ASN
1	I	98	GLN
1	I	148	HIS
1	I	159	ASN
1	I	168	ASN
1	I	189	GLN
1	I	280	ASN
1	I	293	GLN
1	I	313	ASN

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Mol	Chain	Res	Type
1	I	317	ASN
1	I	338	ASN
1	I	387	HIS
1	I	458	HIS
1	J	12	HIS
1	J	39	ASN
1	J	61	ASN
1	J	98	GLN
1	J	148	HIS
1	J	159	ASN
1	J	168	ASN
1	J	189	GLN
1	J	280	ASN
1	J	293	GLN
1	J	313	ASN
1	J	317	ASN
1	J	338	ASN
1	J	387	HIS
1	J	458	HIS
1	K	12	HIS
1	K	39	ASN
1	K	61	ASN
1	K	98	GLN
1	K	148	HIS
1	K	159	ASN
1	K	168	ASN
1	K	189	GLN
1	K	280	ASN
1	K	293	GLN
1	K	313	ASN
1	K	317	ASN
1	K	338	ASN
1	K	387	HIS
1	K	458	HIS
1	L	12	HIS
1	L	39	ASN
1	L	61	ASN
1	L	98	GLN
1	L	148	HIS
1	L	159	ASN
1	L	168	ASN
1	L	189	GLN

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Mol	Chain	Res	Type
1	L	280	ASN
1	L	293	GLN
1	L	313	ASN
1	L	317	ASN
1	L	338	ASN
1	L	387	HIS
1	L	458	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 24 ligands modelled in this entry, 24 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

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

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

EDS was not executed - this section is therefore empty.

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

EDS was not executed - this section is therefore empty.

6.3 Carbohydrates [i](#)

EDS was not executed - this section is therefore empty.

6.4 Ligands [i](#)

EDS was not executed - this section is therefore empty.

6.5 Other polymers [i](#)

EDS was not executed - this section is therefore empty.