



Full wwPDB X-ray Structure Validation Report ⓘ

May 22, 2020 – 09:19 am BST

PDB ID : 3LJ5
Title : Full Length Bacteriophage P22 Portal Protein
Authors : Olia, A.S.; Cingolani, G.
Deposited on : 2010-01-25
Resolution : 7.50 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

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

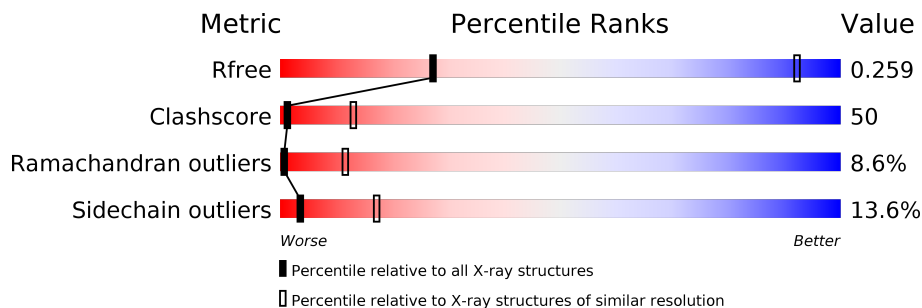
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 7.50 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))
R_{free}	130704	1004 (10.00-3.90)
Clashscore	141614	1069 (10.00-3.90)
Ramachandran outliers	138981	1002 (10.00-3.90)
Sidechain outliers	138945	1002 (10.00-3.86)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 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 $\leq 5\%$.

Mol	Chain	Length	Quality of chain
1	A	725	38% 45% 12% • 5%
1	B	725	39% 45% 12% • 5%
1	C	725	39% 44% 12% • 5%
1	D	725	38% 45% 12% • 5%
1	E	725	37% 45% 12% • 5%
1	F	725	39% 44% 12% • 5%
1	G	725	37% 47% 12% 5%

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Mol	Chain	Length	Quality of chain
1	H	725	
1	I	725	
1	J	725	
1	K	725	
1	L	725	

2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 61512 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.

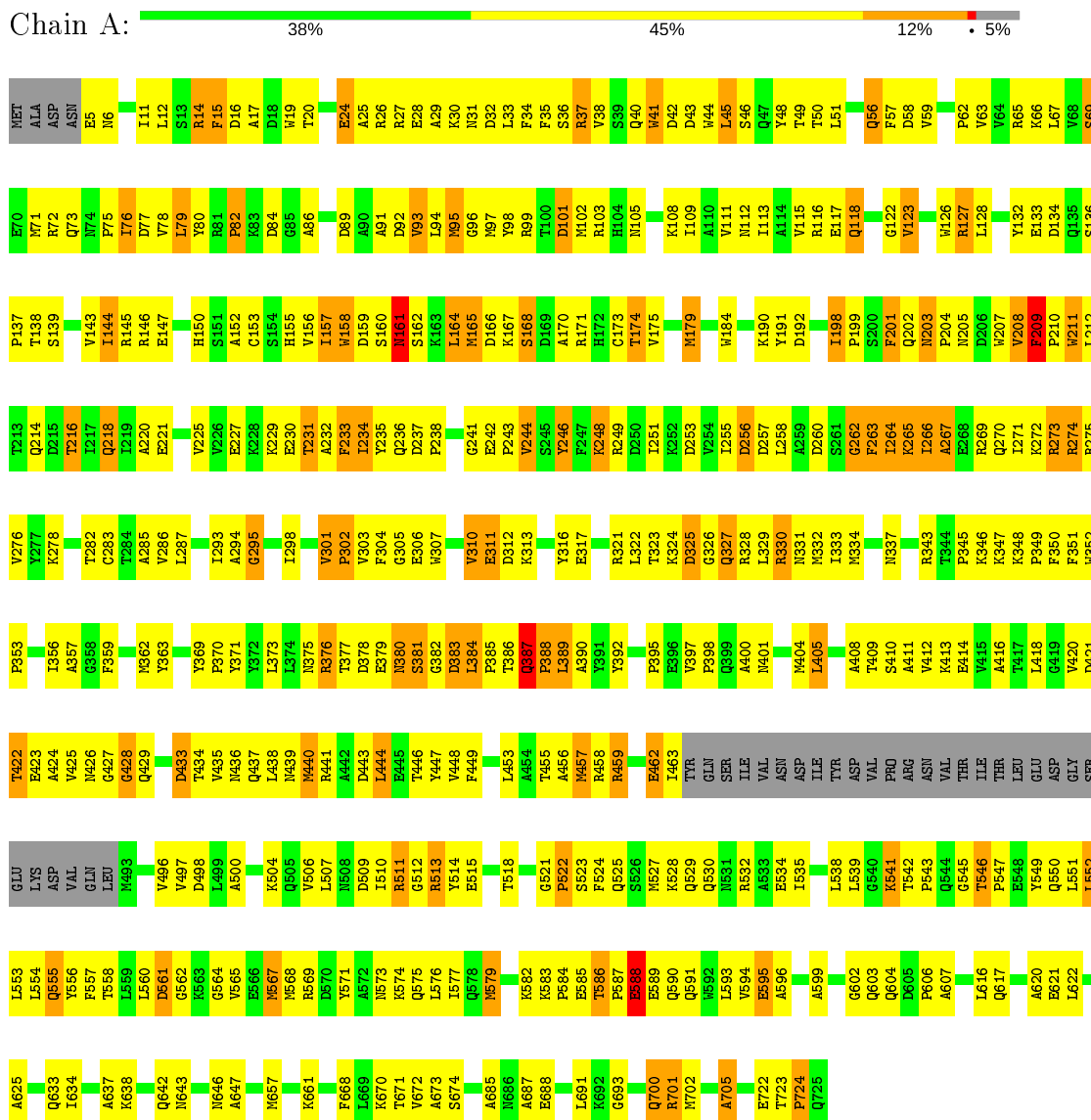
- Molecule 1 is a protein called Portal protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	692	5126	3204	900	1002	20	0	0	0
1	B	692	5126	3204	900	1002	20	0	0	0
1	C	692	5126	3204	900	1002	20	0	0	0
1	D	692	5126	3204	900	1002	20	0	0	0
1	E	692	5126	3204	900	1002	20	0	0	0
1	F	692	5126	3204	900	1002	20	0	0	0
1	G	692	5126	3204	900	1002	20	0	0	0
1	H	692	5126	3204	900	1002	20	0	0	0
1	I	692	5126	3204	900	1002	20	0	0	0
1	J	692	5126	3204	900	1002	20	0	0	0
1	K	692	5126	3204	900	1002	20	0	0	0
1	L	692	5126	3204	900	1002	20	0	0	0

3 Residue-property plots

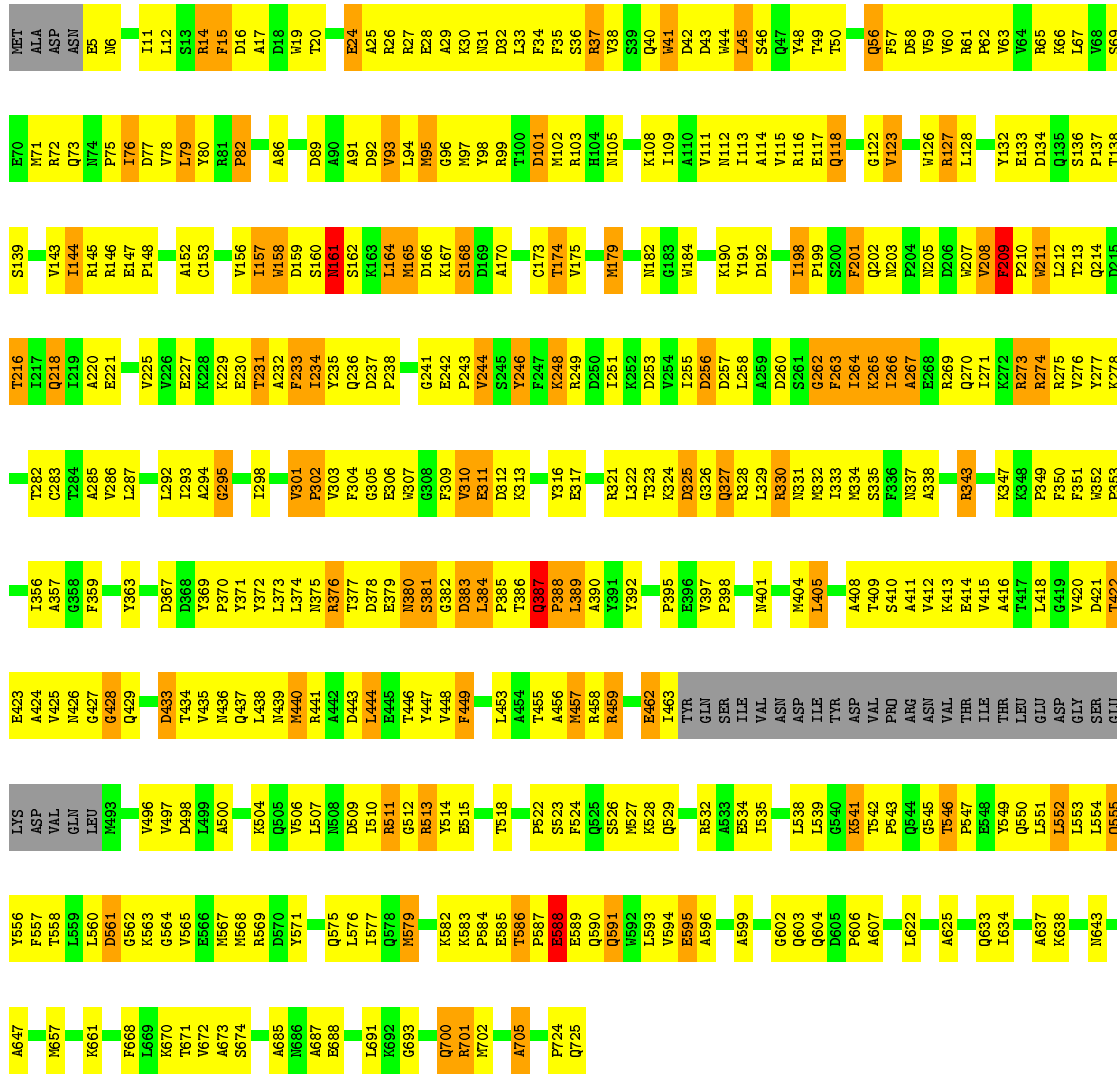
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded according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

- Molecule 1: Portal protein

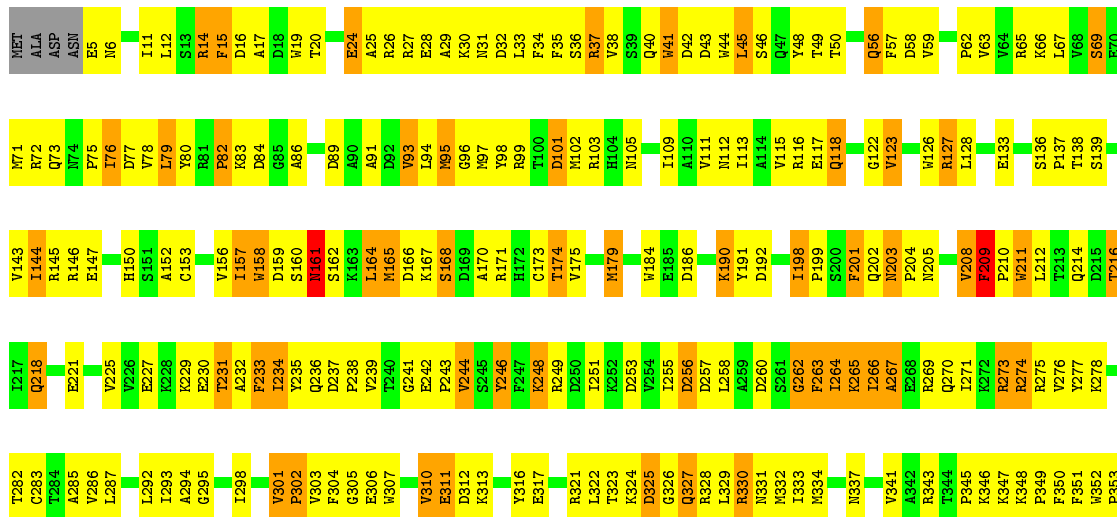


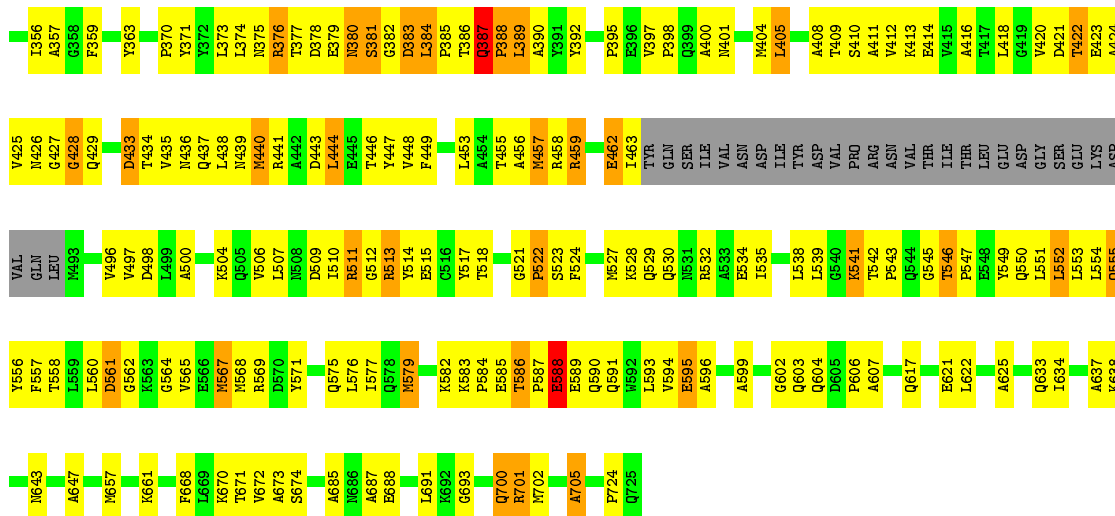
- Molecule 1: Portal protein



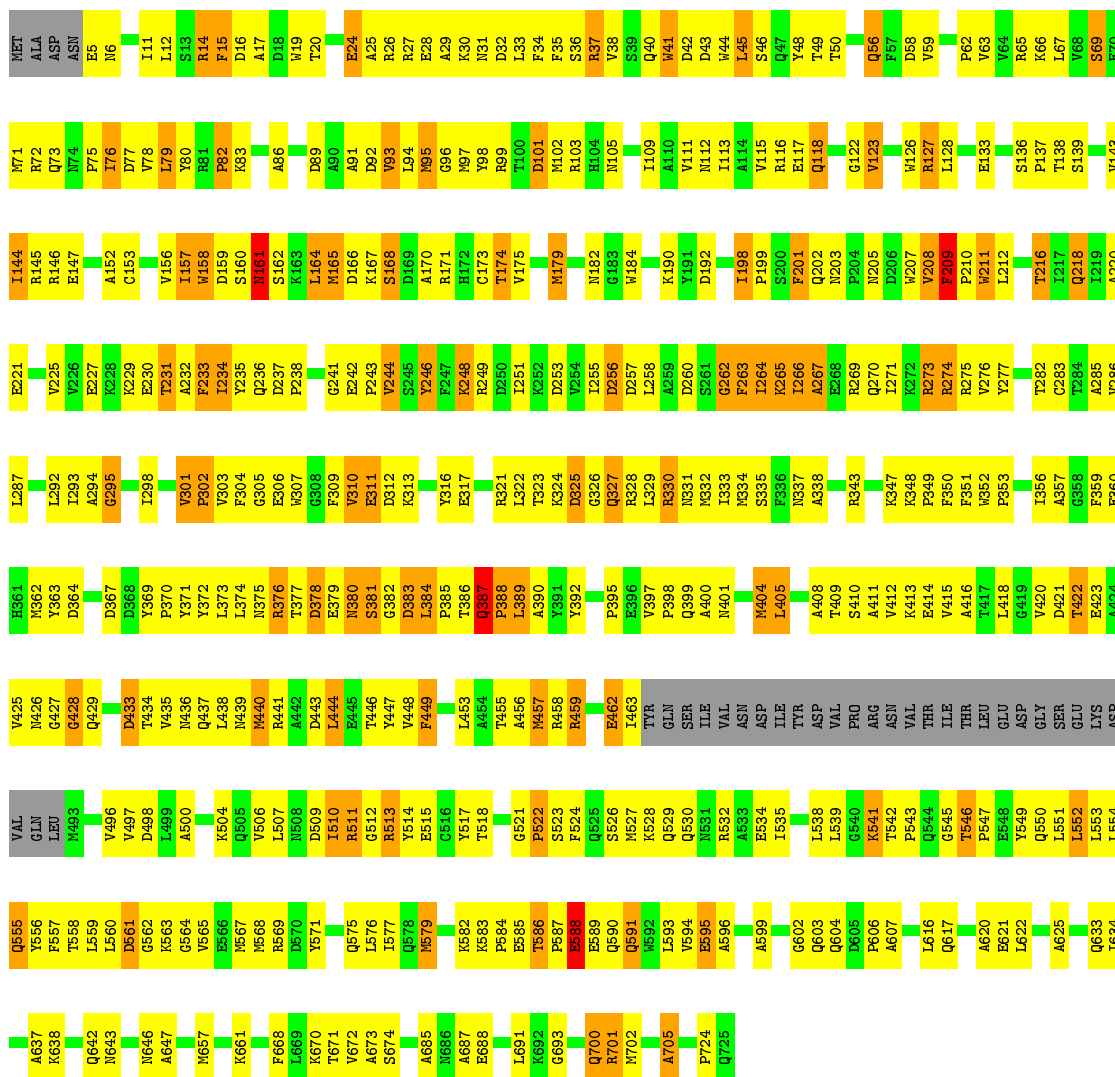
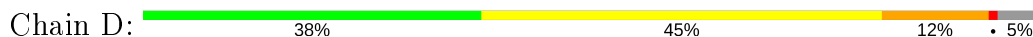


• Molecule 1: Portal protein



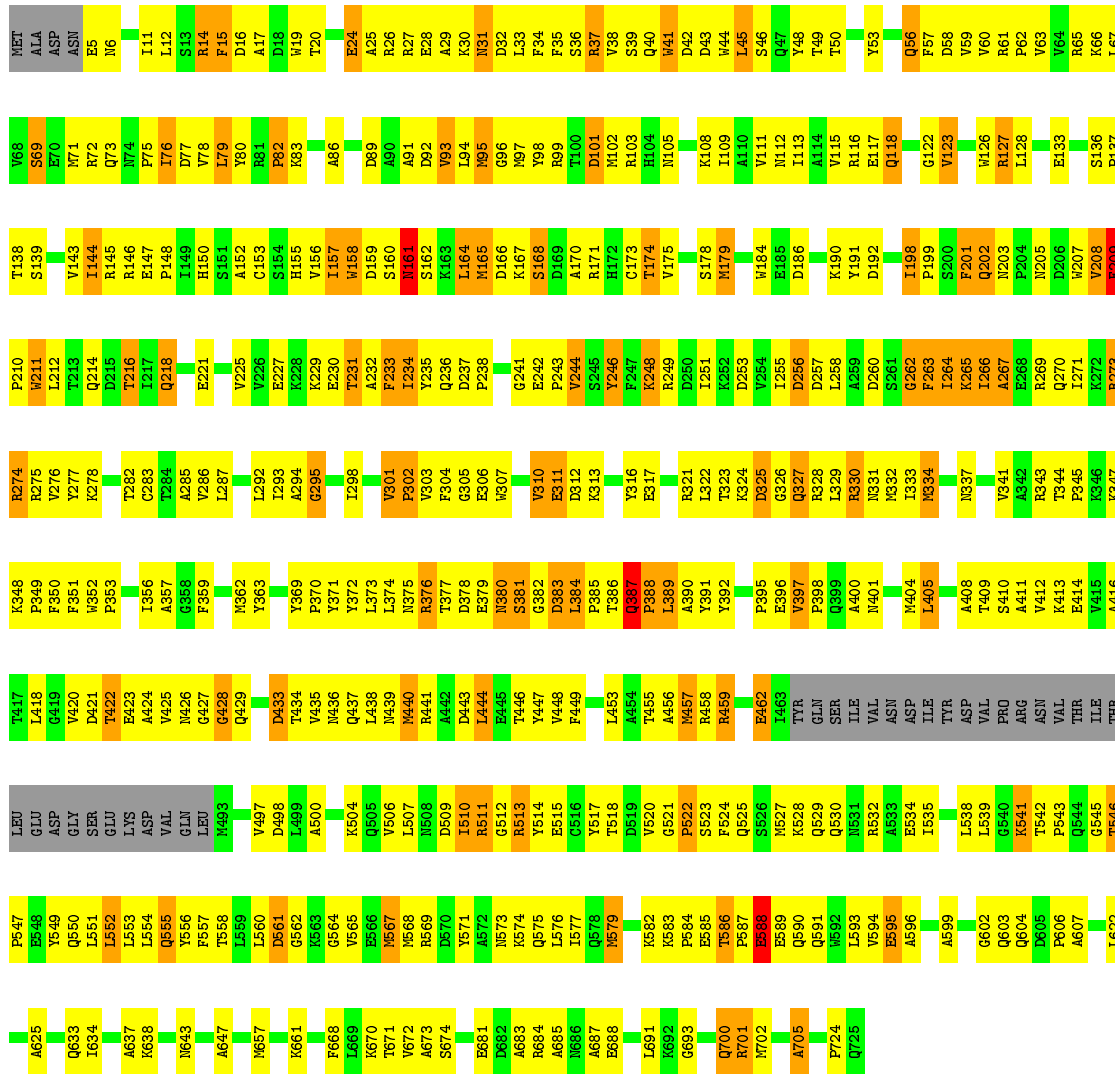


• Molecule 1: Portal protein



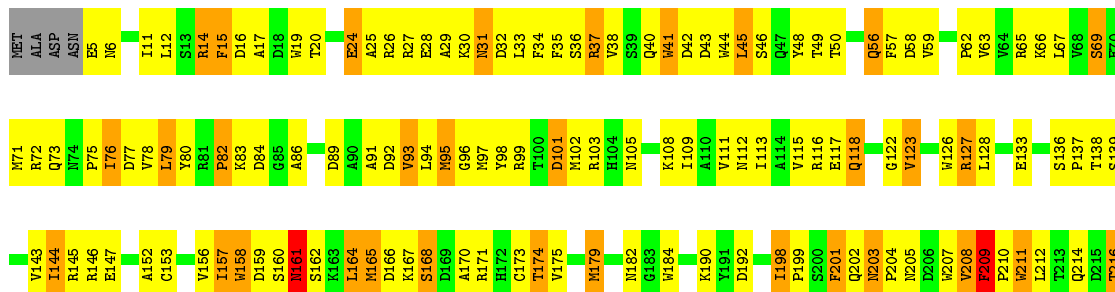
• Molecule 1: Portal protein

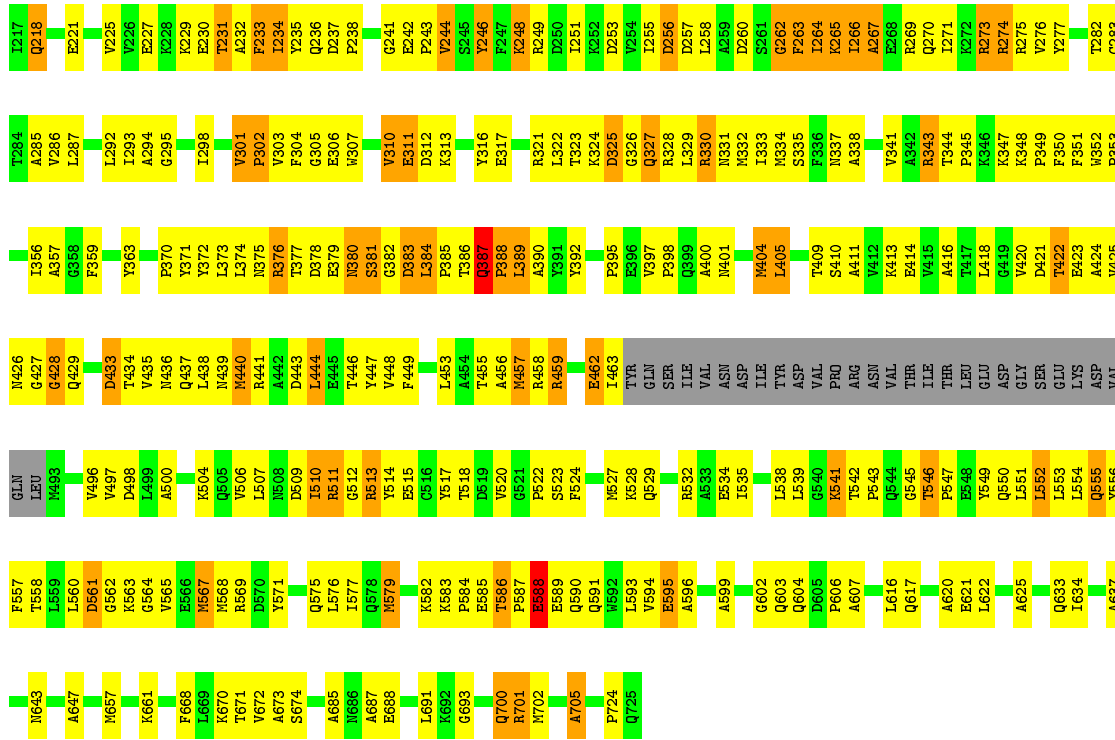
Chain E: 37% 45% 12% • 5%



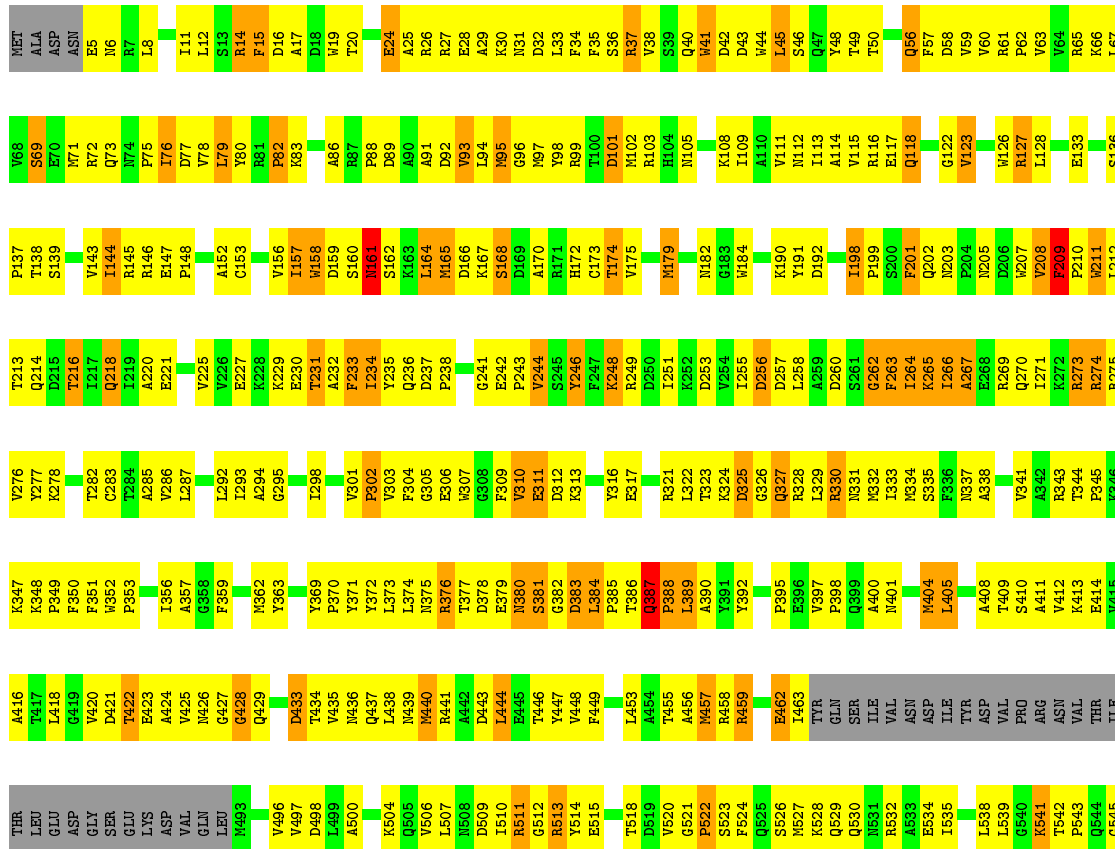
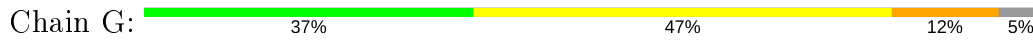
• Molecule 1: Portal protein

Chain F: 39% 44% 12% • 5%





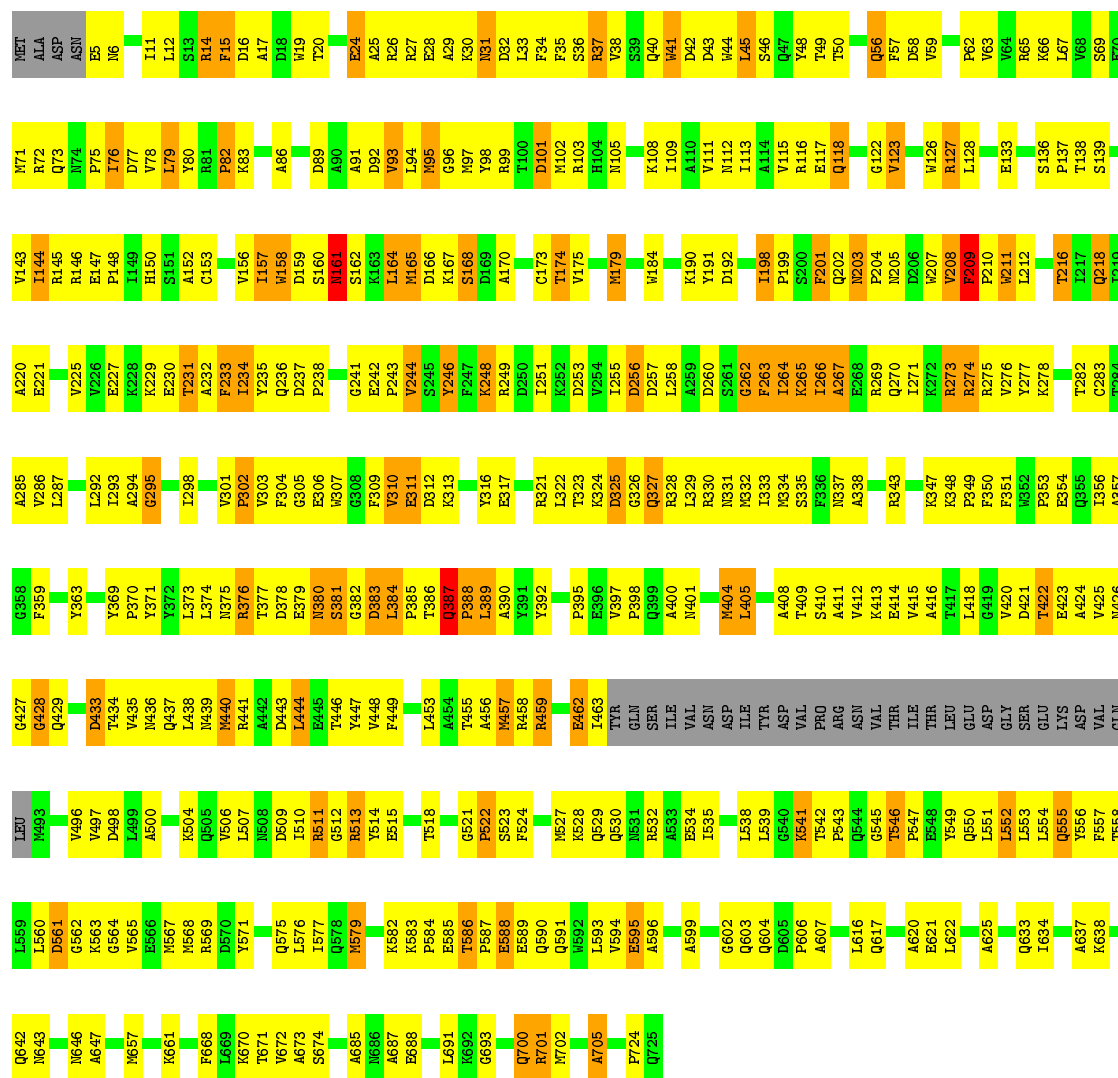
• Molecule 1: Portal protein





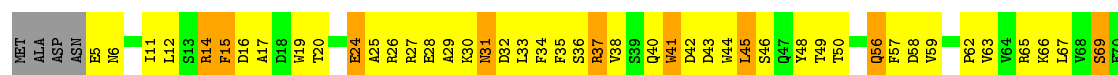
• Molecule 1: Portal protein

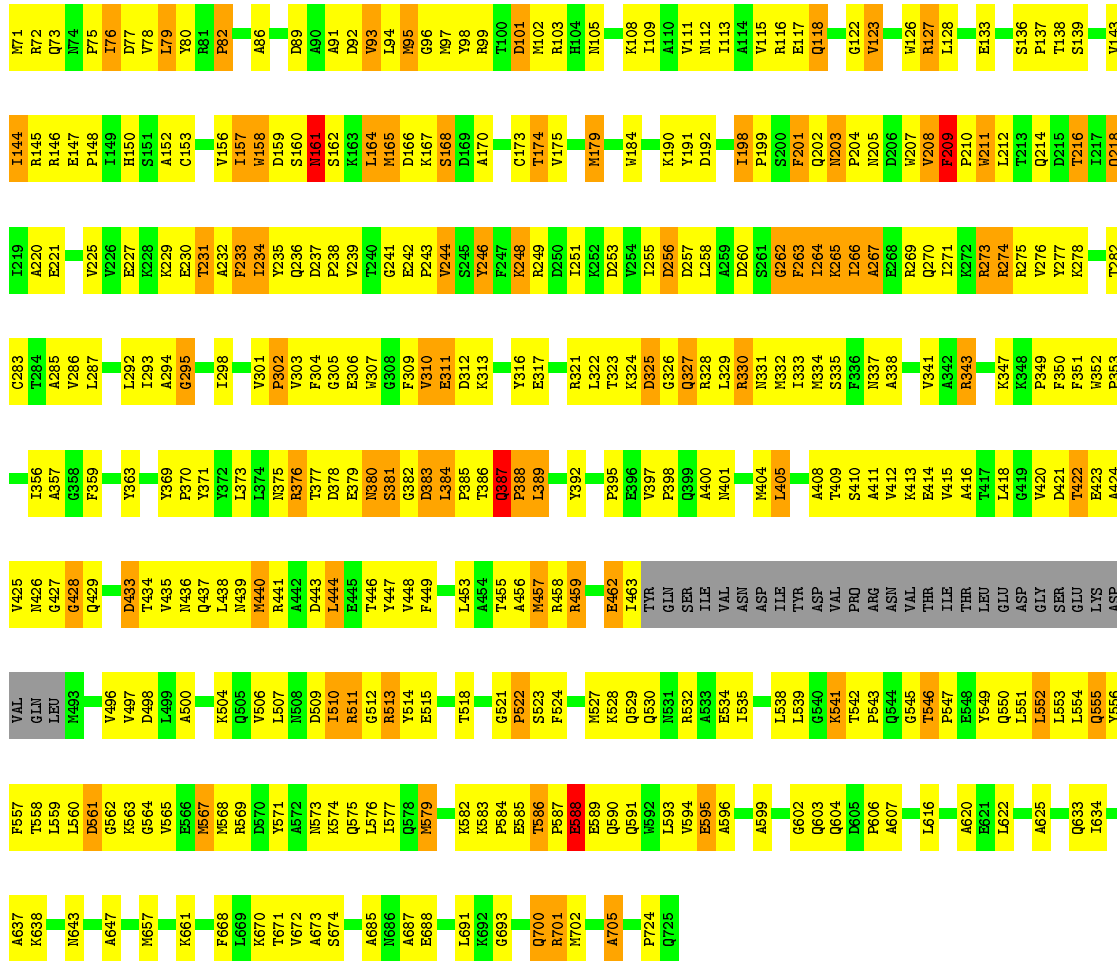
Chain H: 38% 45% 12% 5%



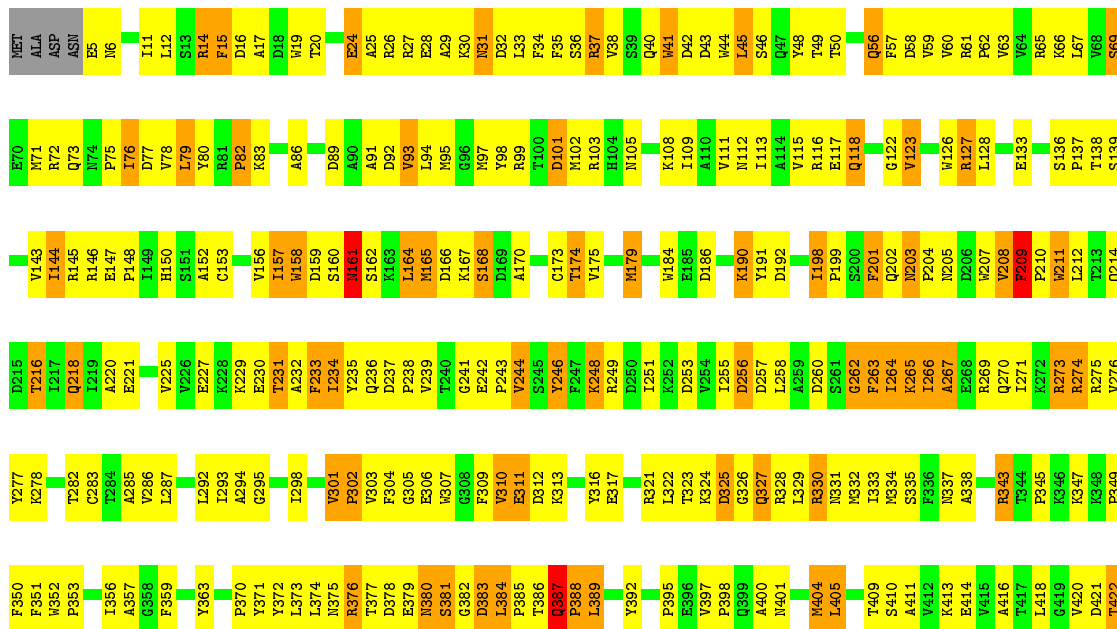
• Molecule 1: Portal protein

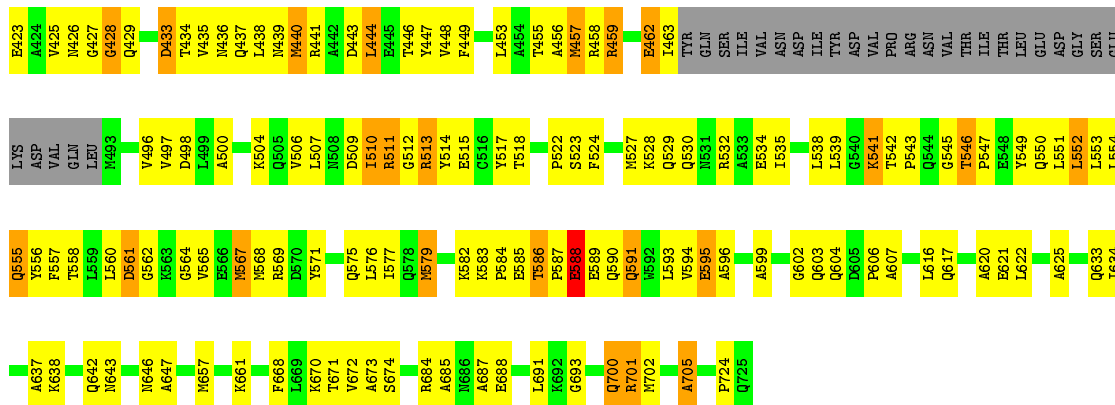
Chain I: 39% 44% 12% 5%



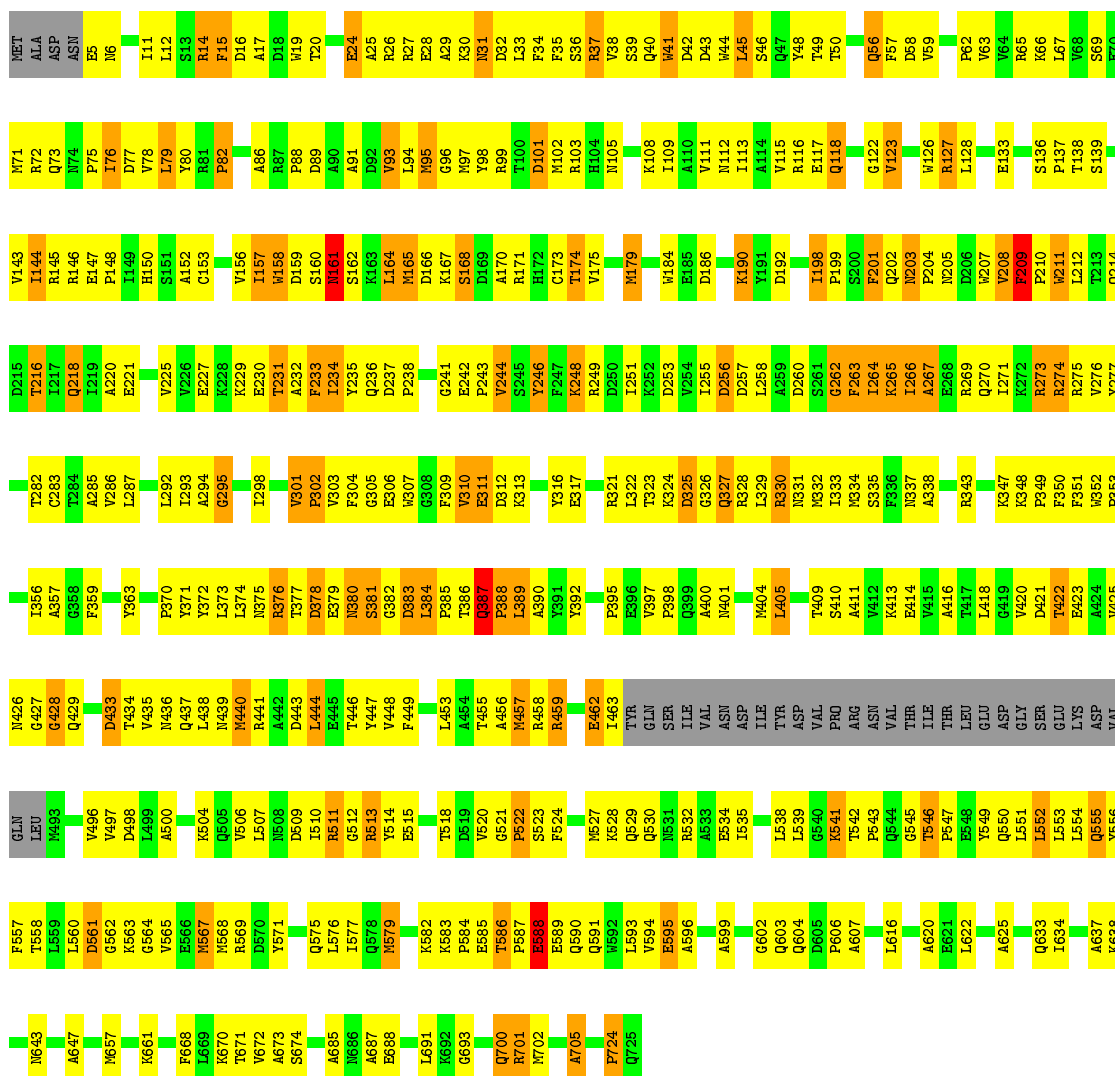


• Molecule 1: Portal protein

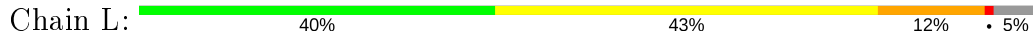




• Molecule 1: Portal protein



• Molecule 1: Portal protein



NET	R72	R73	R74	R75	R76	R77	R78	R79	R80	R81	R82	R83	R84	R85	R86	R87	R88	R89	R90	R91	R92	R93	R94	R95	R96	R97	R98	R99	R100	R101	R102	R103	R104	R105	R106	R107	R108	R109	R110	R111	R112	R113	R114	R115	R116	R117	R118	R119	R120	R121	R122	R123	R124	R125	R126	R127	R128	R129	R130	R131	R132	R133	R134	R135	R136	R137	R138	R139	R140	R141	R142	R143	R144	R145	R146	R147	R148	R149	R150	R151	R152	R153	R154	R155	R156	R157	R158	R159	R160	R161	R162	R163	R164	R165	R166	R167	R168	R169	R170	R171	R172	R173	R174	R175	R176	R177	R178	R179	R180	R181	R182	R183	R184	R185	R186	R187	R188	R189	R190	R191	R192	R193	R194	R195	R196	R197	R198	R199	R200	R201	R202	R203	R204	R205	R206	R207	R208	R209	R210	R211	R212	R213	R214	R215	R216	R217	R218	R219	R220	R221	R222	R223	R224	R225	R226	R227	R228	R229	R230	R231	R232	R233	R234	R235	R236	R237	R238	R239	R240	R241	R242	R243	R244	R245	R246	R247	R248	R249	R250	R251	R252	R253	R254	R255	R256	R257	R258	R259	R260	R261	R262	R263	R264	R265	R266	R267	R268	R269	R270	R271	R272	R273	R274	R275	R276	R277	R278	R279	R280	R281	R282	R283	R284	R285	R286	R287	R288	R289	R290	R291	R292	R293	R294	R295	R296	R297	R298	R299	R300	R301	R302	R303	R304	R305	R306	R307	R308	R309	R310	R311	R312	R313	R314	R315	R316	R317	R318	R319	R320	R321	R322	R323	R324	R325	R326	R327	R328	R329	R330	R331	R332	R333	R334	R335	R336	R337	R338	R339	R340	R341	R342	R343	R344	R345	R346	R347	R348	R349	R350	R351	R352	R353	R354	R355	R356	R357	R358	R359	R360	R361	R362	R363	R364	R365	R366	R367	R368	R369	R370	R371	R372	R373	R374	R375	R376	R377	R378	R379	R380	R381	R382	R383	R384	R385	R386	R387	R388	R389	R390	R391	R392	R393	R394	R395	R396	R397	R398	R399	R400	R401	R402	R403	R404	R405	R406	R407	R408	R409	R410	R411	R412	R413	R414	R415	R416	R417	R418	R419	R420	R421	R422	R423	R424	R425	R426	R427	R428	R429	R430	R431	R432	R433	R434	R435	R436	R437	R438	R439	R440	R441	R442	R443	R444	R445	R446	R447	R448	R449	R450	R451	R452	R453	R454	R455	R456	R457	R458	R459	R460	R461	R462	R463	R464	R465	R466	R467	R468	R469	R470	R471	R472	R473	R474	R475	R476	R477	R478	R479	R480	R481	R482	R483	R484	R485	R486	R487	R488	R489	R490	R491	R492	R493	R494	R495	R496	R497	R498	R499	R500	R501	R502	R503	R504	R505	R506	R507	R508	R509	R510	R511	R512	R513	R514	R515	R516	R517	R518	R519	R520	R521	R522	R523	R524	R525	R526	R527	R528	R529	R530	R531	R532	R533	R534	R535	R536	R537	R538	R539	R540	R541	R542	R543	R544	R545	R546	R547	R548	R549	R550	R551	R552	R553	R554	R555	R556	R557	R558	R559	R560	R561	R562	R563	R564	R565	R566	R567	R568	R569	R570	R571	R572	R573	R574	R575	R576	R577	R578	R579	R580	R581	R582	R583	R584	R585	R586	R587	R588	R589	R590	R591	R592	R593	R594	R595	R596	R597	R598	R599	R600	R601	R602	R603	R604	R605	R606	R607	R608	R609	R610	R611	R612	R613	R614	R615	R616	R617	R618	R619	R620	R621	R622	R623	R624	R625	R626	R627	R628	R629	R630	R631	R632	R633	R634	R635	R636	R637	R638	R639	R640	R641	R642	R643	R644	R645	R646	R647	R648	R649	R650	R651	R652	R653	R654	R655	R656	R657	R658	R659	R660	R661	R662	R663	R664	R665	R666	R667	R668	R669	R670	R671	R672	R673	R674	R675	R676	R677	R678	R679	R680	R681	R682	R683	R684	R685	R686	R687	R688	R689	R690	R691	R692	R693	R694	R695	R696	R697	R698	R699	R700	R701	R702	R703	R704	R705	R706	R707	R708	R709	R710	R711	R712	R713	R714	R715	R716	R717	R718	R719	R720	R721	R722	R723	R724	R725
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4 Data and refinement statistics

Property	Value	Source
Space group	I 4	Depositor
Cell constants a, b, c, α , β , γ	408.95Å 408.95Å 260.01Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	59.48 – 7.50 59.48 – 7.50	Depositor EDS
% Data completeness (in resolution range)	92.8 (59.48-7.50) 93.1 (59.48-7.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.10	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.90 (at 7.40Å)	Xtrriage
Refinement program	PHENIX (phenix.refine: 1.5_2)	Depositor
R, R_{free}	0.187 , 0.263 0.183 , 0.259	Depositor DCC
R_{free} test set	1994 reflections (7.33%)	wwPDB-VP
Wilson B-factor (Å ²)	236.8	Xtrriage
Anisotropy	0.019	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.42 , 547.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.28$	Xtrriage
Estimated twinning fraction	0.035 for -k,-h,-l	Xtrriage
F_o, F_c correlation	0.81	EDS
Total number of atoms	61512	wwPDB-VP
Average B, all atoms (Å ²)	297.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.70% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	A	0.50	11/5222 (0.2%)	0.58	1/7114 (0.0%)
1	B	0.50	11/5222 (0.2%)	0.58	1/7114 (0.0%)
1	C	0.50	11/5222 (0.2%)	0.58	1/7114 (0.0%)
1	D	0.50	11/5222 (0.2%)	0.58	1/7114 (0.0%)
1	E	0.50	11/5222 (0.2%)	0.58	1/7114 (0.0%)
1	F	0.50	11/5222 (0.2%)	0.58	1/7114 (0.0%)
1	G	0.50	11/5222 (0.2%)	0.58	1/7114 (0.0%)
1	H	0.50	11/5222 (0.2%)	0.58	1/7114 (0.0%)
1	I	0.50	11/5222 (0.2%)	0.58	1/7114 (0.0%)
1	J	0.50	11/5222 (0.2%)	0.58	1/7114 (0.0%)
1	K	0.50	11/5222 (0.2%)	0.58	1/7114 (0.0%)
1	L	0.50	11/5222 (0.2%)	0.58	1/7114 (0.0%)
All	All	0.50	132/62664 (0.2%)	0.58	12/85368 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	B	0	1
1	C	0	1
1	D	0	1
1	E	0	1
1	F	0	1
1	G	0	1
1	H	0	1
1	I	0	1
1	J	0	1
1	K	0	1
1	L	0	1
All	All	0	12

All (132) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	165	MET	CG-SD	6.91	1.99	1.81
1	G	165	MET	CG-SD	6.91	1.99	1.81
1	J	165	MET	CG-SD	6.91	1.99	1.81
1	H	165	MET	CG-SD	6.90	1.99	1.81
1	I	165	MET	CG-SD	6.89	1.99	1.81
1	A	165	MET	CG-SD	6.89	1.99	1.81
1	E	165	MET	CG-SD	6.89	1.99	1.81
1	D	165	MET	CG-SD	6.88	1.99	1.81
1	C	165	MET	CG-SD	6.87	1.99	1.81
1	K	165	MET	CG-SD	6.87	1.99	1.81
1	B	165	MET	CG-SD	6.87	1.99	1.81
1	L	165	MET	CG-SD	6.86	1.99	1.81
1	B	579	MET	CG-SD	6.22	1.97	1.81
1	F	579	MET	CG-SD	6.22	1.97	1.81
1	I	579	MET	CG-SD	6.22	1.97	1.81
1	G	579	MET	CG-SD	6.22	1.97	1.81
1	A	579	MET	CG-SD	6.21	1.97	1.81
1	C	579	MET	CG-SD	6.21	1.97	1.81
1	D	579	MET	CG-SD	6.21	1.97	1.81
1	J	579	MET	CG-SD	6.21	1.97	1.81
1	K	579	MET	CG-SD	6.21	1.97	1.81
1	H	579	MET	CG-SD	6.21	1.97	1.81
1	E	579	MET	CG-SD	6.18	1.97	1.81
1	L	579	MET	CG-SD	6.18	1.97	1.81
1	K	457	MET	CG-SD	6.14	1.97	1.81
1	H	457	MET	CG-SD	6.13	1.97	1.81
1	D	457	MET	CG-SD	6.13	1.97	1.81
1	J	457	MET	CG-SD	6.12	1.97	1.81
1	B	457	MET	CG-SD	6.12	1.97	1.81
1	C	457	MET	CG-SD	6.12	1.97	1.81
1	A	457	MET	CG-SD	6.12	1.97	1.81
1	E	457	MET	CG-SD	6.11	1.97	1.81
1	L	457	MET	CG-SD	6.11	1.97	1.81
1	G	457	MET	CG-SD	6.10	1.97	1.81
1	F	457	MET	CG-SD	6.10	1.97	1.81
1	I	457	MET	CG-SD	6.09	1.97	1.81
1	K	334	MET	CG-SD	6.02	1.96	1.81
1	E	334	MET	CG-SD	6.01	1.96	1.81
1	B	334	MET	CG-SD	6.00	1.96	1.81
1	G	334	MET	CG-SD	6.00	1.96	1.81
1	C	334	MET	CG-SD	6.00	1.96	1.81
1	A	334	MET	CG-SD	5.99	1.96	1.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	334	MET	CG-SD	5.99	1.96	1.81
1	J	334	MET	CG-SD	5.99	1.96	1.81
1	D	334	MET	CG-SD	5.99	1.96	1.81
1	L	334	MET	CG-SD	5.99	1.96	1.81
1	I	334	MET	CG-SD	5.99	1.96	1.81
1	H	334	MET	CG-SD	5.98	1.96	1.81
1	C	95	MET	CG-SD	5.93	1.96	1.81
1	E	95	MET	CG-SD	5.93	1.96	1.81
1	H	95	MET	CG-SD	5.93	1.96	1.81
1	K	95	MET	CG-SD	5.92	1.96	1.81
1	B	95	MET	CG-SD	5.92	1.96	1.81
1	A	95	MET	CG-SD	5.91	1.96	1.81
1	D	95	MET	CG-SD	5.91	1.96	1.81
1	J	95	MET	CG-SD	5.91	1.96	1.81
1	G	95	MET	CG-SD	5.90	1.96	1.81
1	F	95	MET	CG-SD	5.89	1.96	1.81
1	I	95	MET	CG-SD	5.89	1.96	1.81
1	L	95	MET	CG-SD	5.89	1.96	1.81
1	L	440	MET	CG-SD	5.59	1.95	1.81
1	C	440	MET	CG-SD	5.57	1.95	1.81
1	D	440	MET	CG-SD	5.57	1.95	1.81
1	G	440	MET	CG-SD	5.56	1.95	1.81
1	I	440	MET	CG-SD	5.56	1.95	1.81
1	J	440	MET	CG-SD	5.56	1.95	1.81
1	H	440	MET	CG-SD	5.56	1.95	1.81
1	B	440	MET	CG-SD	5.56	1.95	1.81
1	A	440	MET	CG-SD	5.55	1.95	1.81
1	E	440	MET	CG-SD	5.55	1.95	1.81
1	F	440	MET	CG-SD	5.55	1.95	1.81
1	K	440	MET	CG-SD	5.55	1.95	1.81
1	L	568	MET	CG-SD	5.51	1.95	1.81
1	D	567	MET	CG-SD	5.51	1.95	1.81
1	F	568	MET	CG-SD	5.50	1.95	1.81
1	B	567	MET	CG-SD	5.50	1.95	1.81
1	E	567	MET	CG-SD	5.50	1.95	1.81
1	I	567	MET	CG-SD	5.50	1.95	1.81
1	A	567	MET	CG-SD	5.50	1.95	1.81
1	F	567	MET	CG-SD	5.50	1.95	1.81
1	K	567	MET	CG-SD	5.50	1.95	1.81
1	L	567	MET	CG-SD	5.50	1.95	1.81
1	B	568	MET	CG-SD	5.50	1.95	1.81
1	C	568	MET	CG-SD	5.50	1.95	1.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	567	MET	CG-SD	5.49	1.95	1.81
1	J	567	MET	CG-SD	5.49	1.95	1.81
1	A	568	MET	CG-SD	5.49	1.95	1.81
1	C	567	MET	CG-SD	5.49	1.95	1.81
1	H	568	MET	CG-SD	5.49	1.95	1.81
1	I	568	MET	CG-SD	5.48	1.95	1.81
1	H	567	MET	CG-SD	5.48	1.95	1.81
1	D	568	MET	CG-SD	5.47	1.95	1.81
1	K	568	MET	CG-SD	5.47	1.95	1.81
1	J	568	MET	CG-SD	5.46	1.95	1.81
1	G	568	MET	CG-SD	5.46	1.95	1.81
1	E	568	MET	CG-SD	5.46	1.95	1.81
1	H	179	MET	CG-SD	5.40	1.95	1.81
1	L	179	MET	CG-SD	5.39	1.95	1.81
1	F	179	MET	CG-SD	5.39	1.95	1.81
1	B	179	MET	CG-SD	5.39	1.95	1.81
1	A	179	MET	CG-SD	5.39	1.95	1.81
1	K	179	MET	CG-SD	5.39	1.95	1.81
1	E	179	MET	CG-SD	5.38	1.95	1.81
1	C	179	MET	CG-SD	5.38	1.95	1.81
1	I	179	MET	CG-SD	5.37	1.95	1.81
1	G	179	MET	CG-SD	5.37	1.95	1.81
1	J	179	MET	CG-SD	5.37	1.95	1.81
1	D	179	MET	CG-SD	5.37	1.95	1.81
1	G	527	MET	CG-SD	5.21	1.94	1.81
1	K	527	MET	CG-SD	5.21	1.94	1.81
1	F	527	MET	CG-SD	5.20	1.94	1.81
1	E	527	MET	CG-SD	5.20	1.94	1.81
1	L	527	MET	CG-SD	5.20	1.94	1.81
1	A	527	MET	CG-SD	5.19	1.94	1.81
1	D	527	MET	CG-SD	5.19	1.94	1.81
1	I	527	MET	CG-SD	5.19	1.94	1.81
1	B	527	MET	CG-SD	5.19	1.94	1.81
1	K	404	MET	CG-SD	5.18	1.94	1.81
1	J	527	MET	CG-SD	5.17	1.94	1.81
1	C	527	MET	CG-SD	5.17	1.94	1.81
1	H	527	MET	CG-SD	5.17	1.94	1.81
1	B	404	MET	CG-SD	5.17	1.94	1.81
1	H	404	MET	CG-SD	5.16	1.94	1.81
1	A	404	MET	CG-SD	5.15	1.94	1.81
1	I	404	MET	CG-SD	5.15	1.94	1.81
1	G	404	MET	CG-SD	5.15	1.94	1.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	404	MET	CG-SD	5.14	1.94	1.81
1	E	404	MET	CG-SD	5.14	1.94	1.81
1	F	404	MET	CG-SD	5.13	1.94	1.81
1	L	404	MET	CG-SD	5.13	1.94	1.81
1	J	404	MET	CG-SD	5.13	1.94	1.81
1	D	404	MET	CG-SD	5.13	1.94	1.81

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	97	MET	CB-CG-SD	-6.24	93.67	112.40
1	E	97	MET	CB-CG-SD	-6.24	93.68	112.40
1	B	97	MET	CB-CG-SD	-6.24	93.68	112.40
1	A	97	MET	CB-CG-SD	-6.24	93.69	112.40
1	I	97	MET	CB-CG-SD	-6.24	93.69	112.40
1	H	97	MET	CB-CG-SD	-6.23	93.70	112.40
1	K	97	MET	CB-CG-SD	-6.23	93.71	112.40
1	L	97	MET	CB-CG-SD	-6.23	93.71	112.40
1	C	97	MET	CB-CG-SD	-6.23	93.71	112.40
1	D	97	MET	CB-CG-SD	-6.23	93.71	112.40
1	F	97	MET	CB-CG-SD	-6.23	93.72	112.40
1	J	97	MET	CB-CG-SD	-6.23	93.72	112.40

There are no chirality outliers.

All (12) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	231	THR	Peptide
1	B	231	THR	Peptide
1	C	231	THR	Peptide
1	D	231	THR	Peptide
1	E	231	THR	Peptide
1	F	231	THR	Peptide
1	G	231	THR	Peptide
1	H	231	THR	Peptide
1	I	231	THR	Peptide
1	J	231	THR	Peptide
1	K	231	THR	Peptide
1	L	231	THR	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	5126	0	4586	548	9
1	B	5126	0	4586	522	0
1	C	5126	0	4586	499	0
1	D	5126	0	4586	559	0
1	E	5126	0	4586	551	8
1	F	5126	0	4586	522	1
1	G	5126	0	4586	538	0
1	H	5126	0	4586	509	3
1	I	5126	0	4586	516	0
1	J	5126	0	4586	516	3
1	K	5126	0	4586	510	0
1	L	5126	0	4586	538	0
All	All	61512	0	55032	5771	12

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 50.

All (5771) 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:A:58:ASP:OD2	1:L:322:LEU:CD1	1.73	1.35
1:G:322:LEU:HD12	1:H:58:ASP:OD2	1.23	1.34
1:I:322:LEU:HD12	1:J:58:ASP:OD2	1.26	1.34
1:F:322:LEU:HD12	1:G:58:ASP:OD2	1.19	1.32
1:H:322:LEU:HD12	1:I:58:ASP:OD2	1.19	1.31
1:J:322:LEU:HD12	1:K:58:ASP:OD2	1.21	1.27
1:F:322:LEU:CD1	1:G:58:ASP:OD2	1.84	1.26
1:E:322:LEU:HD12	1:F:58:ASP:OD2	1.34	1.25
1:D:322:LEU:HD12	1:E:58:ASP:OD2	1.15	1.25
1:J:322:LEU:CD1	1:K:58:ASP:OD2	1.83	1.24
1:G:322:LEU:CD1	1:H:58:ASP:OD2	1.87	1.22
1:B:322:LEU:HD12	1:C:58:ASP:OD2	1.36	1.21
1:A:58:ASP:OD2	1:L:322:LEU:HD12	1.02	1.20
1:A:322:LEU:CD1	1:B:58:ASP:OD2	1.91	1.18
1:H:322:LEU:CD1	1:I:58:ASP:OD2	1.91	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:322:LEU:HD12	1:B:58:ASP:OD2	1.38	1.16
1:I:322:LEU:CD1	1:J:58:ASP:OD2	1.94	1.14
1:A:561:ASP:HB2	1:L:89:ASP:HA	1.28	1.12
1:K:322:LEU:HD12	1:L:58:ASP:OD2	1.48	1.12
1:C:322:LEU:HD12	1:D:58:ASP:OD2	1.50	1.12
1:F:26:ARG:HG2	1:G:212:LEU:HD22	1.32	1.11
1:J:82:PRO:HD2	1:K:560:LEU:HD13	1.31	1.11
1:A:560:LEU:HD22	1:L:82:PRO:HG2	1.14	1.11
1:I:82:PRO:HG2	1:J:560:LEU:HD22	1.33	1.09
1:I:82:PRO:HD2	1:J:560:LEU:HD13	1.26	1.09
1:A:560:LEU:HD13	1:L:82:PRO:HD2	1.07	1.07
1:D:82:PRO:HD2	1:E:560:LEU:HD13	1.34	1.06
1:D:82:PRO:HG2	1:E:560:LEU:HD22	1.34	1.06
1:D:322:LEU:CD1	1:E:58:ASP:OD2	2.04	1.05
1:A:26:ARG:HG2	1:B:212:LEU:HD22	1.32	1.05
1:A:56:GLN:HB2	1:L:325:ASP:OD2	1.57	1.05
1:A:554:LEU:HD21	1:B:564:GLY:HA2	1.35	1.05
1:I:89:ASP:HA	1:J:561:ASP:HB2	1.37	1.05
1:G:82:PRO:HD2	1:H:560:LEU:HD13	1.38	1.04
1:C:554:LEU:HD21	1:D:564:GLY:HA2	1.40	1.03
1:E:322:LEU:CD1	1:F:58:ASP:OD2	2.05	1.03
1:K:77:ASP:HB2	1:K:523:SER:HA	1.40	1.03
1:A:77:ASP:HB2	1:A:523:SER:HA	1.40	1.02
1:I:77:ASP:HB2	1:I:523:SER:HA	1.40	1.02
1:F:77:ASP:HB2	1:F:523:SER:HA	1.40	1.02
1:J:77:ASP:HB2	1:J:523:SER:HA	1.40	1.02
1:D:77:ASP:HB2	1:D:523:SER:HA	1.40	1.01
1:L:77:ASP:HB2	1:L:523:SER:HA	1.40	1.01
1:C:322:LEU:CD1	1:D:58:ASP:OD2	2.09	1.00
1:B:77:ASP:HB2	1:B:523:SER:HA	1.40	1.00
1:C:77:ASP:HB2	1:C:523:SER:HA	1.40	1.00
1:E:77:ASP:HB2	1:E:523:SER:HA	1.40	0.99
1:G:77:ASP:HB2	1:G:523:SER:HA	1.40	0.99
1:H:77:ASP:HB2	1:H:523:SER:HA	1.40	0.99
1:F:82:PRO:HD2	1:G:560:LEU:HD13	1.40	0.99
1:H:236:GLN:HB2	1:H:265:LYS:HZ3	1.28	0.99
1:F:554:LEU:HD21	1:G:564:GLY:HA2	1.45	0.99
1:K:236:GLN:HB2	1:K:265:LYS:HZ3	1.28	0.99
1:F:78:VAL:HG21	1:F:444:LEU:HD11	1.46	0.98
1:J:78:VAL:HG21	1:J:444:LEU:HD11	1.46	0.98
1:D:78:VAL:HG21	1:D:444:LEU:HD11	1.46	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:72:ARG:HG2	1:L:434:THR:HG21	1.44	0.98
1:J:59:VAL:O	1:J:62:PRO:HD2	1.64	0.98
1:F:59:VAL:O	1:F:62:PRO:HD2	1.64	0.98
1:D:59:VAL:O	1:D:62:PRO:HD2	1.64	0.97
1:C:78:VAL:HG21	1:C:444:LEU:HD11	1.46	0.97
1:D:352:TRP:CZ2	1:E:385:PRO:HG2	1.99	0.97
1:J:82:PRO:HG2	1:K:560:LEU:HD22	1.42	0.97
1:A:78:VAL:HG21	1:A:444:LEU:HD11	1.46	0.97
1:K:78:VAL:HG21	1:K:444:LEU:HD11	1.46	0.97
1:C:59:VAL:O	1:C:62:PRO:HD2	1.64	0.97
1:G:89:ASP:HA	1:H:561:ASP:HB2	1.40	0.97
1:B:59:VAL:O	1:B:62:PRO:HD2	1.64	0.97
1:G:236:GLN:HB2	1:G:265:LYS:HZ3	1.29	0.97
1:H:82:PRO:HD2	1:I:560:LEU:HD13	1.46	0.97
1:B:322:LEU:CD1	1:C:58:ASP:OD2	2.11	0.96
1:E:78:VAL:HG21	1:E:444:LEU:HD11	1.46	0.96
1:A:59:VAL:O	1:A:62:PRO:HD2	1.64	0.96
1:E:554:LEU:HD21	1:F:564:GLY:HA2	1.47	0.96
1:E:59:VAL:O	1:E:62:PRO:HD2	1.64	0.96
1:K:59:VAL:O	1:K:62:PRO:HD2	1.64	0.96
1:L:59:VAL:O	1:L:62:PRO:HD2	1.64	0.96
1:A:546:THR:HG23	1:A:547:PRO:HD3	1.48	0.96
1:G:59:VAL:O	1:G:62:PRO:HD2	1.64	0.96
1:B:546:THR:HG23	1:B:547:PRO:HD3	1.48	0.96
1:H:78:VAL:HG21	1:H:444:LEU:HD11	1.46	0.96
1:E:546:THR:HG23	1:E:547:PRO:HD3	1.48	0.95
1:H:59:VAL:O	1:H:62:PRO:HD2	1.64	0.95
1:J:236:GLN:HB2	1:J:265:LYS:HZ3	1.30	0.95
1:A:82:PRO:HD2	1:B:560:LEU:HD13	1.48	0.95
1:B:78:VAL:HG21	1:B:444:LEU:HD11	1.46	0.95
1:I:14:ARG:HA	1:I:14:ARG:HE	1.31	0.95
1:J:26:ARG:HG2	1:K:212:LEU:HD22	1.46	0.95
1:L:78:VAL:HG21	1:L:444:LEU:HD11	1.46	0.95
1:G:78:VAL:HG21	1:G:444:LEU:HD11	1.46	0.95
1:I:78:VAL:HG21	1:I:444:LEU:HD11	1.46	0.95
1:A:561:ASP:OD2	1:L:92:ASP:HB3	1.65	0.95
1:D:411:ALA:CB	1:E:57:PHE:HD1	1.79	0.95
1:I:59:VAL:O	1:I:62:PRO:HD2	1.64	0.95
1:J:546:THR:HG23	1:J:547:PRO:HD3	1.48	0.95
1:A:14:ARG:HA	1:A:14:ARG:HE	1.31	0.95
1:C:236:GLN:HB2	1:C:265:LYS:HZ3	1.30	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:546:THR:HG23	1:C:547:PRO:HD3	1.48	0.94
1:E:14:ARG:HE	1:E:14:ARG:HA	1.31	0.94
1:J:14:ARG:HA	1:J:14:ARG:HE	1.31	0.94
1:L:546:THR:HG23	1:L:547:PRO:HD3	1.48	0.94
1:H:89:ASP:HA	1:I:561:ASP:HB2	1.50	0.94
1:K:546:THR:HG23	1:K:547:PRO:HD3	1.48	0.94
1:H:14:ARG:HA	1:H:14:ARG:HE	1.31	0.94
1:J:89:ASP:HA	1:K:561:ASP:HB2	1.50	0.94
1:H:546:THR:HG23	1:H:547:PRO:HD3	1.48	0.94
1:C:11:ILE:HD12	1:C:285:ALA:HA	1.50	0.94
1:G:546:THR:HG23	1:G:547:PRO:HD3	1.48	0.94
1:I:11:ILE:HD12	1:I:285:ALA:HA	1.50	0.94
1:A:236:GLN:HB2	1:A:265:LYS:HZ3	1.33	0.93
1:K:14:ARG:HE	1:K:14:ARG:HA	1.31	0.93
1:G:14:ARG:HA	1:G:14:ARG:HE	1.31	0.93
1:F:236:GLN:HB2	1:F:265:LYS:HZ3	1.33	0.93
1:A:11:ILE:HD12	1:A:285:ALA:HA	1.50	0.93
1:G:11:ILE:HD12	1:G:285:ALA:HA	1.50	0.93
1:G:82:PRO:HG2	1:H:560:LEU:HD22	1.50	0.93
1:D:546:THR:HG23	1:D:547:PRO:HD3	1.48	0.93
1:J:11:ILE:HD12	1:J:285:ALA:HA	1.50	0.93
1:I:236:GLN:HB2	1:I:265:LYS:HZ3	1.30	0.93
1:L:14:ARG:HA	1:L:14:ARG:HE	1.31	0.93
1:D:11:ILE:HD12	1:D:285:ALA:HA	1.50	0.92
1:B:511:ARG:HA	1:B:513:ARG:HD2	1.52	0.92
1:F:546:THR:HG23	1:F:547:PRO:HD3	1.48	0.92
1:F:14:ARG:HA	1:F:14:ARG:HE	1.31	0.92
1:J:511:ARG:HA	1:J:513:ARG:HD2	1.52	0.92
1:L:236:GLN:HB2	1:L:265:LYS:HZ3	1.35	0.92
1:B:14:ARG:HA	1:B:14:ARG:HE	1.31	0.92
1:D:14:ARG:HE	1:D:14:ARG:HA	1.31	0.92
1:B:82:PRO:HD2	1:C:560:LEU:HD13	1.52	0.92
1:D:511:ARG:HA	1:D:513:ARG:HD2	1.52	0.92
1:K:511:ARG:HA	1:K:513:ARG:HD2	1.52	0.92
1:E:511:ARG:HA	1:E:513:ARG:HD2	1.52	0.91
1:I:511:ARG:HA	1:I:513:ARG:HD2	1.52	0.91
1:L:511:ARG:HA	1:L:513:ARG:HD2	1.52	0.91
1:G:37:ARG:HH21	1:G:37:ARG:HB3	1.36	0.91
1:C:511:ARG:HA	1:C:513:ARG:HD2	1.52	0.91
1:E:82:PRO:HD2	1:F:560:LEU:HD13	1.52	0.91
1:I:546:THR:HG23	1:I:547:PRO:HD3	1.48	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:37:ARG:HH21	1:J:37:ARG:HB3	1.36	0.91
1:L:37:ARG:HB3	1:L:37:ARG:HH21	1.36	0.91
1:A:511:ARG:HA	1:A:513:ARG:HD2	1.52	0.91
1:H:511:ARG:HA	1:H:513:ARG:HD2	1.52	0.91
1:J:554:LEU:HD21	1:K:564:GLY:HA2	1.52	0.91
1:E:236:GLN:HB2	1:E:265:LYS:HZ3	1.35	0.91
1:H:11:ILE:HD12	1:H:285:ALA:HA	1.50	0.91
1:C:14:ARG:HE	1:C:14:ARG:HA	1.31	0.91
1:D:401:ASN:OD1	1:E:341:VAL:HG13	1.70	0.91
1:G:26:ARG:HG2	1:H:212:LEU:HD22	1.53	0.91
1:C:37:ARG:HH21	1:C:37:ARG:HB3	1.36	0.90
1:D:37:ARG:HB3	1:D:37:ARG:HH21	1.36	0.90
1:B:11:ILE:HD12	1:B:285:ALA:HA	1.50	0.90
1:K:11:ILE:HD12	1:K:285:ALA:HA	1.50	0.90
1:E:11:ILE:HD12	1:E:285:ALA:HA	1.50	0.90
1:F:34:PHE:HZ	1:F:328:ARG:HH22	1.19	0.90
1:G:77:ASP:HB2	1:G:523:SER:CA	2.02	0.90
1:F:11:ILE:HD12	1:F:285:ALA:HA	1.50	0.90
1:F:37:ARG:HH21	1:F:37:ARG:HB3	1.36	0.90
1:B:37:ARG:HB3	1:B:37:ARG:HH21	1.36	0.90
1:D:77:ASP:HB2	1:D:523:SER:CA	2.02	0.90
1:I:37:ARG:HH21	1:I:37:ARG:HB3	1.36	0.90
1:A:37:ARG:HB3	1:A:37:ARG:HH21	1.36	0.90
1:H:37:ARG:HH21	1:H:37:ARG:HB3	1.36	0.90
1:E:77:ASP:HB2	1:E:523:SER:CA	2.02	0.90
1:F:89:ASP:HA	1:G:561:ASP:HB2	1.54	0.90
1:L:11:ILE:HD12	1:L:285:ALA:HA	1.50	0.90
1:L:77:ASP:HB2	1:L:523:SER:CA	2.02	0.90
1:B:77:ASP:HB2	1:B:523:SER:CA	2.01	0.90
1:D:236:GLN:HB2	1:D:265:LYS:HZ3	1.36	0.90
1:C:77:ASP:HB2	1:C:523:SER:CA	2.02	0.89
1:G:511:ARG:HA	1:G:513:ARG:HD2	1.52	0.89
1:I:34:PHE:HZ	1:I:328:ARG:HH22	1.19	0.89
1:J:77:ASP:HB2	1:J:523:SER:CA	2.01	0.89
1:K:37:ARG:HH21	1:K:37:ARG:HB3	1.36	0.89
1:K:77:ASP:HB2	1:K:523:SER:CA	2.02	0.89
1:F:511:ARG:HA	1:F:513:ARG:HD2	1.52	0.89
1:F:82:PRO:HG2	1:G:560:LEU:HD22	1.53	0.89
1:B:236:GLN:HB2	1:B:265:LYS:HZ3	1.35	0.89
1:E:37:ARG:HH21	1:E:37:ARG:HB3	1.36	0.89
1:F:77:ASP:HB2	1:F:523:SER:CA	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:77:ASP:HB2	1:I:523:SER:CA	2.02	0.89
1:A:210:PRO:HD2	1:A:211:TRP:CZ3	2.08	0.89
1:B:210:PRO:HD2	1:B:211:TRP:CZ3	2.08	0.89
1:C:27:ARG:HG2	1:D:212:LEU:HD13	1.53	0.89
1:D:309:PHE:HB2	1:E:150:HIS:CG	2.08	0.89
1:J:210:PRO:HD2	1:J:211:TRP:CZ3	2.08	0.89
1:D:138:THR:H	1:D:143:VAL:HG22	1.37	0.89
1:A:77:ASP:HB2	1:A:523:SER:CA	2.02	0.89
1:C:34:PHE:HZ	1:C:328:ARG:HH22	1.19	0.89
1:H:77:ASP:HB2	1:H:523:SER:CA	2.02	0.89
1:F:210:PRO:HD2	1:F:211:TRP:CZ3	2.08	0.88
1:I:25:ALA:O	1:I:29:ALA:HB3	1.73	0.88
1:E:210:PRO:HD2	1:E:211:TRP:CZ3	2.08	0.88
1:E:26:ARG:HG2	1:F:212:LEU:HD22	1.55	0.88
1:D:378:ASP:OD2	1:E:376:ARG:NH2	2.06	0.88
1:D:390:ALA:CB	1:E:387:GLN:HB2	2.04	0.88
1:F:25:ALA:O	1:F:29:ALA:HB3	1.74	0.88
1:G:89:ASP:HA	1:H:561:ASP:CB	2.03	0.88
1:J:577:ILE:HG12	1:J:582:LYS:HG2	1.56	0.88
1:B:34:PHE:HZ	1:B:328:ARG:HH22	1.19	0.88
1:G:210:PRO:HD2	1:G:211:TRP:CZ3	2.08	0.88
1:L:25:ALA:O	1:L:29:ALA:HB3	1.73	0.88
1:D:34:PHE:HZ	1:D:328:ARG:HH22	1.19	0.88
1:D:411:ALA:HB1	1:E:57:PHE:HD1	1.37	0.88
1:K:210:PRO:HD2	1:K:211:TRP:CZ3	2.08	0.88
1:C:210:PRO:HD2	1:C:211:TRP:CZ3	2.08	0.88
1:L:210:PRO:HD2	1:L:211:TRP:CZ3	2.08	0.88
1:E:34:PHE:HZ	1:E:328:ARG:HH22	1.19	0.88
1:J:34:PHE:HZ	1:J:328:ARG:HH22	1.19	0.88
1:K:25:ALA:O	1:K:29:ALA:HB3	1.73	0.88
1:K:427:GLY:HA3	1:K:429:GLN:HE22	1.39	0.88
1:D:210:PRO:HD2	1:D:211:TRP:CZ3	2.08	0.88
1:F:138:THR:HG23	1:F:143:VAL:HG22	1.56	0.88
1:J:138:THR:HG23	1:J:143:VAL:HG22	1.56	0.88
1:D:577:ILE:HG12	1:D:582:LYS:HG2	1.56	0.88
1:I:138:THR:HG23	1:I:143:VAL:HG22	1.56	0.88
1:C:25:ALA:O	1:C:29:ALA:HB3	1.73	0.88
1:H:210:PRO:HD2	1:H:211:TRP:CZ3	2.08	0.88
1:I:210:PRO:HD2	1:I:211:TRP:CZ3	2.08	0.88
1:J:25:ALA:O	1:J:29:ALA:HB3	1.73	0.88
1:K:554:LEU:HD21	1:L:564:GLY:HA2	1.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:587:PRO:HD2	1:L:589:GLU:HG3	1.56	0.88
1:E:587:PRO:HD2	1:E:589:GLU:HG3	1.56	0.88
1:F:138:THR:H	1:F:143:VAL:HG22	1.37	0.88
1:H:587:PRO:HD2	1:H:589:GLU:HG3	1.56	0.88
1:E:138:THR:HG23	1:E:143:VAL:HG22	1.56	0.87
1:E:577:ILE:HG12	1:E:582:LYS:HG2	1.56	0.87
1:I:577:ILE:HG12	1:I:582:LYS:HG2	1.56	0.87
1:J:138:THR:H	1:J:143:VAL:HG22	1.37	0.87
1:A:25:ALA:O	1:A:29:ALA:HB3	1.73	0.87
1:C:577:ILE:HG12	1:C:582:LYS:HG2	1.56	0.87
1:C:138:THR:H	1:C:143:VAL:HG22	1.37	0.87
1:F:577:ILE:HG12	1:F:582:LYS:HG2	1.56	0.87
1:L:427:GLY:HA3	1:L:429:GLN:HE22	1.39	0.87
1:H:25:ALA:O	1:H:29:ALA:HB3	1.73	0.87
1:B:138:THR:HG23	1:B:143:VAL:HG22	1.56	0.87
1:E:25:ALA:O	1:E:29:ALA:HB3	1.74	0.87
1:L:138:THR:H	1:L:143:VAL:HG22	1.37	0.87
1:D:25:ALA:O	1:D:29:ALA:HB3	1.73	0.87
1:G:34:PHE:HZ	1:G:328:ARG:HH22	1.19	0.87
1:H:26:ARG:HG2	1:I:212:LEU:HD22	1.57	0.87
1:A:577:ILE:HG12	1:A:582:LYS:HG2	1.56	0.87
1:B:587:PRO:HD2	1:B:589:GLU:HG3	1.56	0.87
1:A:587:PRO:HD2	1:A:589:GLU:HG3	1.56	0.86
1:G:427:GLY:HA3	1:G:429:GLN:HE22	1.39	0.86
1:H:144:ILE:HG12	1:H:447:TYR:HE1	1.40	0.86
1:I:587:PRO:HD2	1:I:589:GLU:HG3	1.56	0.86
1:J:427:GLY:HA3	1:J:429:GLN:HE22	1.39	0.86
1:L:577:ILE:HG12	1:L:582:LYS:HG2	1.56	0.86
1:A:138:THR:H	1:A:143:VAL:HG22	1.37	0.86
1:B:25:ALA:O	1:B:29:ALA:HB3	1.74	0.86
1:C:144:ILE:HG12	1:C:447:TYR:HE1	1.40	0.86
1:D:427:GLY:HA3	1:D:429:GLN:HE22	1.39	0.86
1:G:25:ALA:O	1:G:29:ALA:HB3	1.73	0.86
1:L:144:ILE:HG12	1:L:447:TYR:HE1	1.40	0.86
1:C:587:PRO:HD2	1:C:589:GLU:HG3	1.56	0.86
1:G:144:ILE:HG12	1:G:447:TYR:HE1	1.40	0.86
1:H:34:PHE:HZ	1:H:328:ARG:HH22	1.19	0.86
1:H:427:GLY:HA3	1:H:429:GLN:HE22	1.39	0.86
1:A:427:GLY:HA3	1:A:429:GLN:HE22	1.39	0.86
1:G:138:THR:H	1:G:143:VAL:HG22	1.37	0.86
1:F:27:ARG:CZ	1:G:211:TRP:HB3	2.05	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:138:THR:H	1:I:143:VAL:HG22	1.37	0.86
1:A:138:THR:HG23	1:A:143:VAL:HG22	1.56	0.86
1:A:322:LEU:HD11	1:B:58:ASP:OD2	1.75	0.86
1:A:57:PHE:HD1	1:L:411:ALA:HB1	1.38	0.86
1:A:72:ARG:CG	1:L:434:THR:HG21	2.05	0.86
1:B:138:THR:H	1:B:143:VAL:HG22	1.37	0.86
1:B:577:ILE:HG12	1:B:582:LYS:HG2	1.56	0.86
1:D:138:THR:HG23	1:D:143:VAL:HG22	1.56	0.86
1:H:82:PRO:HG2	1:I:560:LEU:HD22	1.55	0.86
1:B:82:PRO:HG2	1:C:560:LEU:HD22	1.57	0.86
1:E:138:THR:H	1:E:143:VAL:HG22	1.37	0.86
1:I:427:GLY:HA3	1:I:429:GLN:HE22	1.39	0.86
1:K:144:ILE:HG12	1:K:447:TYR:HE1	1.40	0.86
1:J:434:THR:HG21	1:K:72:ARG:HG2	1.57	0.86
1:B:144:ILE:HG12	1:B:447:TYR:HE1	1.40	0.86
1:F:398:PRO:HB3	1:G:395:PRO:HD2	1.58	0.86
1:G:138:THR:HG23	1:G:143:VAL:HG22	1.56	0.86
1:D:144:ILE:HG12	1:D:447:TYR:HE1	1.40	0.86
1:H:577:ILE:HG12	1:H:582:LYS:HG2	1.56	0.86
1:H:138:THR:HG23	1:H:143:VAL:HG22	1.56	0.86
1:A:560:LEU:HD22	1:L:82:PRO:CG	2.03	0.86
1:A:350:PHE:HA	1:B:372:TYR:O	1.75	0.85
1:B:427:GLY:HA3	1:B:429:GLN:HE22	1.39	0.85
1:E:427:GLY:HA3	1:E:429:GLN:HE22	1.39	0.85
1:K:138:THR:HG23	1:K:143:VAL:HG22	1.56	0.85
1:A:34:PHE:HZ	1:A:328:ARG:HH22	1.19	0.85
1:C:138:THR:HG23	1:C:143:VAL:HG22	1.56	0.85
1:G:577:ILE:HG12	1:G:582:LYS:HG2	1.55	0.85
1:K:587:PRO:HD2	1:K:589:GLU:HG3	1.56	0.85
1:L:138:THR:HG23	1:L:143:VAL:HG22	1.56	0.85
1:G:587:PRO:HD2	1:G:589:GLU:HG3	1.56	0.85
1:H:138:THR:H	1:H:143:VAL:HG22	1.37	0.85
1:J:587:PRO:HD2	1:J:589:GLU:HG3	1.56	0.85
1:K:34:PHE:HZ	1:K:328:ARG:HH22	1.19	0.85
1:B:89:ASP:HA	1:C:561:ASP:HB2	1.57	0.85
1:D:587:PRO:HD2	1:D:589:GLU:HG3	1.56	0.85
1:K:138:THR:H	1:K:143:VAL:HG22	1.37	0.85
1:C:427:GLY:HA3	1:C:429:GLN:HE22	1.39	0.85
1:E:27:ARG:HG2	1:F:212:LEU:HD13	1.58	0.85
1:I:144:ILE:HG12	1:I:447:TYR:HE1	1.40	0.85
1:K:577:ILE:HG12	1:K:582:LYS:HG2	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:34:PHE:HZ	1:L:328:ARG:HH22	1.19	0.85
1:D:89:ASP:HA	1:E:561:ASP:HB2	1.59	0.85
1:A:560:LEU:CD1	1:L:82:PRO:HD2	2.00	0.85
1:E:144:ILE:HG12	1:E:447:TYR:HE1	1.40	0.84
1:A:561:ASP:CB	1:L:89:ASP:HA	2.07	0.84
1:F:587:PRO:HD2	1:F:589:GLU:HG3	1.56	0.84
1:J:144:ILE:HG12	1:J:447:TYR:HE1	1.40	0.84
1:G:413:LYS:HA	1:G:416:ALA:HB3	1.60	0.84
1:G:41:TRP:CE3	1:G:42:ASP:O	2.31	0.84
1:I:14:ARG:HA	1:I:14:ARG:NE	1.93	0.84
1:J:14:ARG:HA	1:J:14:ARG:NE	1.93	0.84
1:J:41:TRP:CE3	1:J:42:ASP:O	2.31	0.84
1:K:41:TRP:CE3	1:K:42:ASP:O	2.31	0.84
1:C:26:ARG:HG2	1:D:212:LEU:HD22	1.57	0.84
1:A:144:ILE:HG12	1:A:447:TYR:HE1	1.40	0.84
1:K:413:LYS:HA	1:K:416:ALA:HB3	1.60	0.84
1:L:99:ARG:NH1	1:L:524:PHE:HB2	1.93	0.84
1:A:99:ARG:NH1	1:A:524:PHE:HB2	1.93	0.84
1:D:41:TRP:CE3	1:D:42:ASP:O	2.31	0.84
1:F:427:GLY:HA3	1:F:429:GLN:HE22	1.39	0.84
1:I:41:TRP:CE3	1:I:42:ASP:O	2.31	0.84
1:K:99:ARG:NH1	1:K:524:PHE:HB2	1.93	0.84
1:A:41:TRP:CE3	1:A:42:ASP:O	2.31	0.83
1:A:66:LYS:HZ3	1:A:420:VAL:HG21	1.42	0.83
1:E:41:TRP:CE3	1:E:42:ASP:O	2.31	0.83
1:J:99:ARG:NH1	1:J:524:PHE:HB2	1.93	0.83
1:F:27:ARG:HG2	1:G:212:LEU:HD13	1.59	0.83
1:F:413:LYS:HA	1:F:416:ALA:HB3	1.60	0.83
1:D:413:LYS:HA	1:D:416:ALA:HB3	1.60	0.83
1:G:99:ARG:NH1	1:G:524:PHE:HB2	1.93	0.83
1:F:41:TRP:CE3	1:F:42:ASP:O	2.31	0.83
1:J:413:LYS:HA	1:J:416:ALA:HB3	1.60	0.83
1:A:27:ARG:CZ	1:B:211:TRP:HB3	2.09	0.83
1:B:99:ARG:NH1	1:B:524:PHE:HB2	1.93	0.83
1:I:99:ARG:NH1	1:I:524:PHE:HB2	1.93	0.83
1:F:14:ARG:NE	1:F:14:ARG:HA	1.93	0.83
1:F:99:ARG:NH1	1:F:524:PHE:HB2	1.93	0.83
1:B:41:TRP:CE3	1:B:42:ASP:O	2.31	0.83
1:D:411:ALA:CB	1:E:57:PHE:CD1	2.61	0.83
1:D:99:ARG:NH1	1:D:524:PHE:HB2	1.93	0.83
1:F:144:ILE:HG12	1:F:447:TYR:HE1	1.40	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:82:PRO:HD2	1:D:560:LEU:HD13	1.61	0.83
1:D:26:ARG:HG2	1:E:212:LEU:HD22	1.59	0.83
1:A:27:ARG:HG2	1:B:212:LEU:HD13	1.61	0.83
1:E:413:LYS:HA	1:E:416:ALA:HB3	1.60	0.83
1:L:41:TRP:CE3	1:L:42:ASP:O	2.31	0.82
1:H:41:TRP:CE3	1:H:42:ASP:O	2.31	0.82
1:H:99:ARG:NH1	1:H:524:PHE:HB2	1.93	0.82
1:C:41:TRP:CE3	1:C:42:ASP:O	2.31	0.82
1:C:99:ARG:NH1	1:C:524:PHE:HB2	1.93	0.82
1:D:348:LYS:HB2	1:E:372:TYR:CE2	2.13	0.82
1:E:82:PRO:HG2	1:F:560:LEU:HD22	1.61	0.82
1:B:413:LYS:HA	1:B:416:ALA:HB3	1.60	0.82
1:E:99:ARG:NH1	1:E:524:PHE:HB2	1.93	0.82
1:F:434:THR:HG21	1:G:72:ARG:HG2	1.62	0.82
1:D:415:VAL:HA	1:E:62:PRO:HG3	1.62	0.82
1:B:235:TYR:HA	1:B:265:LYS:HB3	1.62	0.82
1:H:413:LYS:HA	1:H:416:ALA:HB3	1.60	0.82
1:A:235:TYR:HA	1:A:265:LYS:HB3	1.62	0.82
1:A:413:LYS:HA	1:A:416:ALA:HB3	1.60	0.82
1:C:14:ARG:NE	1:C:14:ARG:HA	1.93	0.82
1:L:413:LYS:HA	1:L:416:ALA:HB3	1.60	0.82
1:D:14:ARG:NE	1:D:14:ARG:HA	1.93	0.81
1:H:235:TYR:HA	1:H:265:LYS:HB3	1.62	0.81
1:I:235:TYR:HA	1:I:265:LYS:HB3	1.62	0.81
1:B:34:PHE:HE2	1:B:45:LEU:HG	1.45	0.81
1:E:235:TYR:HA	1:E:265:LYS:HB3	1.62	0.81
1:G:34:PHE:HE2	1:G:45:LEU:HG	1.45	0.81
1:I:413:LYS:HA	1:I:416:ALA:HB3	1.60	0.81
1:H:34:PHE:HE2	1:H:45:LEU:HG	1.45	0.81
1:L:235:TYR:HA	1:L:265:LYS:HB3	1.62	0.81
1:L:66:LYS:HZ3	1:L:420:VAL:HG21	1.44	0.81
1:A:82:PRO:HG2	1:B:560:LEU:HD22	1.63	0.81
1:K:322:LEU:CD1	1:L:58:ASP:OD2	2.27	0.81
1:I:34:PHE:HE2	1:I:45:LEU:HG	1.45	0.81
1:K:14:ARG:NE	1:K:14:ARG:HA	1.93	0.81
1:J:235:TYR:HA	1:J:265:LYS:HB3	1.62	0.81
1:A:56:GLN:HE21	1:A:58:ASP:HB2	1.46	0.81
1:G:14:ARG:NE	1:G:14:ARG:HA	1.93	0.81
1:G:89:ASP:CA	1:H:561:ASP:HB2	2.11	0.81
1:B:56:GLN:HE21	1:B:58:ASP:HB2	1.46	0.81
1:C:413:LYS:HA	1:C:416:ALA:HB3	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:89:ASP:HA	1:B:561:ASP:HB2	1.61	0.81
1:I:89:ASP:HA	1:J:561:ASP:CB	2.10	0.81
1:L:14:ARG:HA	1:L:14:ARG:NE	1.93	0.81
1:H:554:LEU:HD21	1:I:564:GLY:HA2	1.63	0.80
1:I:56:GLN:HE21	1:I:58:ASP:HB2	1.46	0.80
1:C:235:TYR:HA	1:C:265:LYS:HB3	1.62	0.80
1:C:34:PHE:HE2	1:C:45:LEU:HG	1.45	0.80
1:D:236:GLN:CB	1:D:265:LYS:HZ3	1.94	0.80
1:G:235:TYR:HA	1:G:265:LYS:HB3	1.62	0.80
1:L:34:PHE:HE2	1:L:45:LEU:HG	1.45	0.80
1:E:34:PHE:O	1:E:37:ARG:HB2	1.82	0.80
1:E:34:PHE:HE2	1:E:45:LEU:HG	1.45	0.80
1:F:235:TYR:HA	1:F:265:LYS:HB3	1.62	0.80
1:F:49:THR:O	1:F:49:THR:HG22	1.82	0.80
1:A:212:LEU:HD22	1:L:26:ARG:HG2	1.64	0.80
1:A:34:PHE:O	1:A:37:ARG:HB2	1.82	0.80
1:K:34:PHE:O	1:K:37:ARG:HB2	1.82	0.80
1:L:49:THR:HG22	1:L:49:THR:O	1.82	0.80
1:D:325:ASP:OD2	1:E:56:GLN:HB2	1.80	0.80
1:D:56:GLN:HE21	1:D:58:ASP:HB2	1.46	0.80
1:E:14:ARG:NE	1:E:14:ARG:HA	1.93	0.80
1:G:34:PHE:O	1:G:37:ARG:HB2	1.82	0.80
1:C:34:PHE:O	1:C:37:ARG:HB2	1.82	0.80
1:B:34:PHE:O	1:B:37:ARG:HB2	1.82	0.80
1:E:89:ASP:HA	1:F:561:ASP:HB2	1.64	0.80
1:I:34:PHE:O	1:I:37:ARG:HB2	1.82	0.80
1:C:56:GLN:HE21	1:C:58:ASP:HB2	1.46	0.80
1:E:49:THR:HG22	1:E:49:THR:O	1.82	0.80
1:H:49:THR:O	1:H:49:THR:HG22	1.82	0.80
1:B:158:TRP:HB3	1:B:173:CYS:HA	1.65	0.79
1:E:56:GLN:HE21	1:E:58:ASP:HB2	1.46	0.79
1:C:158:TRP:HB3	1:C:173:CYS:HA	1.65	0.79
1:H:14:ARG:HA	1:H:14:ARG:NE	1.93	0.79
1:J:34:PHE:O	1:J:37:ARG:HB2	1.82	0.79
1:A:400:ALA:CB	1:B:395:PRO:HB2	2.12	0.79
1:F:322:LEU:HD11	1:G:58:ASP:OD2	1.83	0.79
1:I:325:ASP:OD2	1:J:56:GLN:HB2	1.81	0.79
1:J:49:THR:HG22	1:J:49:THR:O	1.82	0.79
1:J:56:GLN:HE21	1:J:58:ASP:HB2	1.46	0.79
1:A:37:ARG:HB3	1:A:37:ARG:NH2	1.98	0.79
1:K:34:PHE:HE2	1:K:45:LEU:HG	1.45	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:34:PHE:HE2	1:A:45:LEU:HG	1.45	0.79
1:D:34:PHE:HE2	1:D:45:LEU:HG	1.45	0.79
1:G:49:THR:HG22	1:G:49:THR:O	1.82	0.79
1:I:37:ARG:NH2	1:I:37:ARG:HB3	1.98	0.79
1:J:37:ARG:NH2	1:J:37:ARG:HB3	1.98	0.79
1:B:14:ARG:HA	1:B:14:ARG:NE	1.93	0.79
1:D:235:TYR:HA	1:D:265:LYS:HB3	1.62	0.79
1:A:14:ARG:HA	1:A:14:ARG:NE	1.93	0.79
1:F:158:TRP:HB3	1:F:173:CYS:HA	1.64	0.79
1:L:34:PHE:O	1:L:37:ARG:HB2	1.82	0.79
1:C:66:LYS:HZ3	1:C:420:VAL:HG21	1.48	0.79
1:D:92:ASP:HB3	1:E:561:ASP:OD2	1.82	0.79
1:J:34:PHE:HE2	1:J:45:LEU:HG	1.45	0.79
1:L:37:ARG:HB3	1:L:37:ARG:NH2	1.98	0.79
1:B:49:THR:O	1:B:49:THR:HG22	1.82	0.79
1:G:37:ARG:NH2	1:G:37:ARG:HB3	1.98	0.79
1:H:158:TRP:HB3	1:H:173:CYS:HA	1.65	0.79
1:L:56:GLN:HE21	1:L:58:ASP:HB2	1.46	0.79
1:D:34:PHE:O	1:D:37:ARG:HB2	1.82	0.79
1:G:506:VAL:HG12	1:G:507:LEU:HG	1.65	0.79
1:J:158:TRP:HB3	1:J:173:CYS:HA	1.65	0.79
1:K:158:TRP:HB3	1:K:173:CYS:HA	1.65	0.79
1:A:158:TRP:HB3	1:A:173:CYS:HA	1.65	0.78
1:I:506:VAL:HG12	1:I:507:LEU:HG	1.65	0.78
1:H:411:ALA:HB1	1:I:57:PHE:HD1	1.48	0.78
1:D:45:LEU:HD21	1:D:328:ARG:HH21	1.49	0.78
1:I:49:THR:O	1:I:49:THR:HG22	1.82	0.78
1:K:235:TYR:HA	1:K:265:LYS:HB3	1.62	0.78
1:K:27:ARG:HG2	1:L:212:LEU:HD13	1.65	0.78
1:K:56:GLN:HE21	1:K:58:ASP:HB2	1.46	0.78
1:F:56:GLN:HE21	1:F:58:ASP:HB2	1.46	0.78
1:H:34:PHE:O	1:H:37:ARG:HB2	1.82	0.78
1:H:56:GLN:HE21	1:H:58:ASP:HB2	1.46	0.78
1:I:434:THR:HG21	1:J:72:ARG:HG2	1.64	0.78
1:B:37:ARG:HB3	1:B:37:ARG:NH2	1.98	0.78
1:B:506:VAL:HG12	1:B:507:LEU:HG	1.65	0.78
1:E:379:GLU:O	1:E:380:ASN:HB2	1.84	0.78
1:H:37:ARG:NH2	1:H:37:ARG:HB3	1.98	0.78
1:K:45:LEU:HD21	1:K:328:ARG:HH21	1.49	0.78
1:D:158:TRP:HB3	1:D:173:CYS:HA	1.65	0.78
1:G:434:THR:HG21	1:H:72:ARG:HG2	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:49:THR:O	1:D:49:THR:HG22	1.82	0.78
1:F:34:PHE:O	1:F:37:ARG:HB2	1.82	0.78
1:L:158:TRP:HB3	1:L:173:CYS:HA	1.65	0.78
1:A:49:THR:HG22	1:A:49:THR:O	1.82	0.78
1:C:37:ARG:NH2	1:C:37:ARG:HB3	1.98	0.78
1:C:49:THR:O	1:C:49:THR:HG22	1.82	0.78
1:D:37:ARG:HB3	1:D:37:ARG:NH2	1.98	0.78
1:G:56:GLN:HE21	1:G:58:ASP:HB2	1.46	0.78
1:H:236:GLN:CB	1:H:265:LYS:HZ3	1.97	0.78
1:H:379:GLU:O	1:H:380:ASN:HB2	1.84	0.78
1:J:506:VAL:HG12	1:J:507:LEU:HG	1.65	0.78
1:E:37:ARG:NH2	1:E:37:ARG:HB3	1.98	0.78
1:F:34:PHE:HE2	1:F:45:LEU:HG	1.45	0.78
1:J:427:GLY:HA3	1:J:429:GLN:NE2	1.99	0.78
1:K:49:THR:O	1:K:49:THR:HG22	1.82	0.78
1:E:158:TRP:HB3	1:E:173:CYS:HA	1.65	0.78
1:F:56:GLN:NE2	1:F:58:ASP:HB2	1.99	0.78
1:H:45:LEU:HD21	1:H:328:ARG:HH21	1.49	0.78
1:A:561:ASP:HB2	1:L:89:ASP:CA	2.12	0.77
1:D:379:GLU:O	1:D:380:ASN:HB2	1.84	0.77
1:G:158:TRP:HB3	1:G:173:CYS:HA	1.65	0.77
1:H:56:GLN:NE2	1:H:58:ASP:HB2	1.99	0.77
1:C:56:GLN:NE2	1:C:58:ASP:HB2	1.99	0.77
1:D:352:TRP:CE2	1:E:385:PRO:HG2	2.20	0.77
1:D:554:LEU:HD22	1:E:567:MET:HE2	1.67	0.77
1:G:427:GLY:HA3	1:G:429:GLN:NE2	1.99	0.77
1:I:26:ARG:HG2	1:J:212:LEU:HD22	1.66	0.77
1:C:427:GLY:HA3	1:C:429:GLN:NE2	1.99	0.77
1:F:427:GLY:HA3	1:F:429:GLN:NE2	1.99	0.77
1:K:506:VAL:HG12	1:K:507:LEU:HG	1.65	0.77
1:K:352:TRP:HD1	1:L:374:LEU:O	1.67	0.77
1:A:57:PHE:CD1	1:L:411:ALA:HB1	2.20	0.77
1:E:45:LEU:HD21	1:E:328:ARG:HH21	1.49	0.77
1:E:506:VAL:HG12	1:E:507:LEU:HG	1.65	0.77
1:I:158:TRP:HB3	1:I:173:CYS:HA	1.65	0.77
1:L:379:GLU:O	1:L:380:ASN:HB2	1.84	0.77
1:A:506:VAL:HG12	1:A:507:LEU:HG	1.65	0.77
1:A:56:GLN:CB	1:L:325:ASP:OD2	2.32	0.77
1:B:379:GLU:O	1:B:380:ASN:HB2	1.84	0.77
1:C:45:LEU:HD21	1:C:328:ARG:HH21	1.49	0.77
1:E:427:GLY:HA3	1:E:429:GLN:NE2	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:379:GLU:O	1:K:380:ASN:HB2	1.84	0.77
1:L:506:VAL:HG12	1:L:507:LEU:HG	1.65	0.77
1:E:56:GLN:NE2	1:E:58:ASP:HB2	1.99	0.77
1:F:506:VAL:HG12	1:F:507:LEU:HG	1.65	0.77
1:K:56:GLN:NE2	1:K:58:ASP:HB2	1.99	0.77
1:L:227:GLU:HA	1:L:274:ARG:HA	1.67	0.77
1:B:45:LEU:HD21	1:B:328:ARG:HH21	1.49	0.77
1:K:227:GLU:HA	1:K:274:ARG:HA	1.67	0.77
1:A:209:PHE:N	1:A:210:PRO:HD3	2.00	0.77
1:A:56:GLN:NE2	1:A:58:ASP:HB2	1.99	0.77
1:A:348:LYS:HB3	1:B:371:TYR:HA	1.67	0.77
1:B:56:GLN:NE2	1:B:58:ASP:HB2	1.99	0.77
1:H:427:GLY:HA3	1:H:429:GLN:NE2	1.99	0.77
1:J:322:LEU:HD11	1:K:58:ASP:OD2	1.79	0.77
1:K:37:ARG:HB3	1:K:37:ARG:NH2	1.98	0.77
1:A:427:GLY:HA3	1:A:429:GLN:NE2	1.99	0.77
1:C:227:GLU:HA	1:C:274:ARG:HA	1.67	0.77
1:D:348:LYS:HB2	1:E:372:TYR:CD2	2.19	0.77
1:F:379:GLU:O	1:F:380:ASN:HB2	1.84	0.77
1:F:577:ILE:HA	1:F:582:LYS:HB3	1.67	0.77
1:G:56:GLN:NE2	1:G:58:ASP:HB2	1.99	0.77
1:H:506:VAL:HG12	1:H:507:LEU:HG	1.65	0.77
1:A:45:LEU:HD21	1:A:328:ARG:HH21	1.49	0.77
1:F:37:ARG:NH2	1:F:37:ARG:HB3	1.98	0.77
1:G:45:LEU:HD21	1:G:328:ARG:HH21	1.49	0.77
1:G:66:LYS:HZ3	1:G:420:VAL:HG21	1.49	0.77
1:G:379:GLU:O	1:G:380:ASN:HB2	1.84	0.76
1:H:209:PHE:N	1:H:210:PRO:HD3	2.00	0.76
1:H:227:GLU:HA	1:H:274:ARG:HA	1.67	0.76
1:K:427:GLY:HA3	1:K:429:GLN:NE2	1.99	0.76
1:D:506:VAL:HG12	1:D:507:LEU:HG	1.65	0.76
1:G:227:GLU:HA	1:G:274:ARG:HA	1.67	0.76
1:I:379:GLU:O	1:I:380:ASN:HB2	1.84	0.76
1:A:577:ILE:HA	1:A:582:LYS:HB3	1.67	0.76
1:B:427:GLY:HA3	1:B:429:GLN:NE2	1.99	0.76
1:D:227:GLU:HA	1:D:274:ARG:HA	1.67	0.76
1:E:227:GLU:HA	1:E:274:ARG:HA	1.67	0.76
1:I:427:GLY:HA3	1:I:429:GLN:NE2	1.99	0.76
1:I:56:GLN:NE2	1:I:58:ASP:HB2	1.99	0.76
1:L:56:GLN:NE2	1:L:58:ASP:HB2	1.99	0.76
1:A:227:GLU:HA	1:A:274:ARG:HA	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:577:ILE:HA	1:B:582:LYS:HB3	1.67	0.76
1:C:506:VAL:HG12	1:C:507:LEU:HG	1.65	0.76
1:I:66:LYS:HZ3	1:I:420:VAL:HG21	1.50	0.76
1:J:379:GLU:O	1:J:380:ASN:HB2	1.84	0.76
1:J:56:GLN:NE2	1:J:58:ASP:HB2	1.99	0.76
1:K:209:PHE:N	1:K:210:PRO:HD3	2.00	0.76
1:A:434:THR:HG21	1:B:72:ARG:HG2	1.68	0.76
1:B:209:PHE:N	1:B:210:PRO:HD3	2.00	0.76
1:F:209:PHE:N	1:F:210:PRO:HD3	2.00	0.76
1:F:45:LEU:HD21	1:F:328:ARG:HH21	1.49	0.76
1:H:89:ASP:HA	1:I:561:ASP:CB	2.14	0.76
1:K:398:PRO:HB3	1:L:395:PRO:HD2	1.66	0.76
1:D:209:PHE:N	1:D:210:PRO:HD3	2.00	0.76
1:D:554:LEU:HD21	1:E:564:GLY:HA2	1.66	0.76
1:J:209:PHE:N	1:J:210:PRO:HD3	2.00	0.76
1:I:92:ASP:HB3	1:J:561:ASP:OD2	1.85	0.76
1:K:401:ASN:OD1	1:L:341:VAL:HG13	1.86	0.76
1:L:427:GLY:HA3	1:L:429:GLN:NE2	1.99	0.76
1:C:577:ILE:HA	1:C:582:LYS:HB3	1.67	0.76
1:J:66:LYS:HZ1	1:J:420:VAL:HG11	1.50	0.76
1:L:45:LEU:HD21	1:L:328:ARG:HH21	1.49	0.76
1:H:577:ILE:HA	1:H:582:LYS:HB3	1.68	0.76
1:I:45:LEU:HD21	1:I:328:ARG:HH21	1.49	0.76
1:G:577:ILE:HA	1:G:582:LYS:HB3	1.67	0.76
1:I:209:PHE:N	1:I:210:PRO:HD3	2.00	0.76
1:I:227:GLU:HA	1:I:274:ARG:HA	1.67	0.76
1:D:427:GLY:HA3	1:D:429:GLN:NE2	1.99	0.76
1:I:528:LYS:HD2	1:I:560:LEU:HD21	1.68	0.75
1:L:528:LYS:HD2	1:L:560:LEU:HD21	1.68	0.75
1:A:379:GLU:O	1:A:380:ASN:HB2	1.84	0.75
1:B:554:LEU:HD21	1:C:564:GLY:HA2	1.67	0.75
1:D:438:LEU:HD11	1:E:108:LYS:HD2	1.67	0.75
1:A:58:ASP:OD2	1:L:322:LEU:HD11	1.83	0.75
1:E:209:PHE:N	1:E:210:PRO:HD3	2.00	0.75
1:G:209:PHE:N	1:G:210:PRO:HD3	2.00	0.75
1:G:554:LEU:HD21	1:H:564:GLY:HA2	1.67	0.75
1:L:209:PHE:N	1:L:210:PRO:HD3	2.00	0.75
1:K:528:LYS:HD2	1:K:560:LEU:HD21	1.68	0.75
1:E:577:ILE:HA	1:E:582:LYS:HB3	1.67	0.75
1:F:227:GLU:HA	1:F:274:ARG:HA	1.67	0.75
1:J:45:LEU:HD21	1:J:328:ARG:HH21	1.49	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:577:ILE:HA	1:J:582:LYS:HB3	1.67	0.75
1:D:56:GLN:NE2	1:D:58:ASP:HB2	1.99	0.75
1:J:227:GLU:HA	1:J:274:ARG:HA	1.67	0.75
1:G:398:PRO:HB3	1:H:395:PRO:HD2	1.68	0.75
1:J:162:SER:HB2	1:J:170:ALA:HB2	1.69	0.75
1:B:227:GLU:HA	1:B:274:ARG:HA	1.67	0.75
1:C:209:PHE:N	1:C:210:PRO:HD3	2.00	0.75
1:C:27:ARG:CZ	1:D:211:TRP:HB3	2.16	0.75
1:C:379:GLU:O	1:C:380:ASN:HB2	1.84	0.75
1:G:162:SER:HB2	1:G:170:ALA:HB2	1.69	0.75
1:K:577:ILE:HA	1:K:582:LYS:HB3	1.67	0.75
1:B:528:LYS:HD2	1:B:560:LEU:HD21	1.68	0.74
1:G:528:LYS:HD2	1:G:560:LEU:HD21	1.68	0.74
1:H:528:LYS:HD2	1:H:560:LEU:HD21	1.68	0.74
1:I:248:LYS:HZ2	1:I:251:ILE:HD12	1.51	0.74
1:K:390:ALA:CB	1:L:387:GLN:HB2	2.17	0.74
1:L:577:ILE:HA	1:L:582:LYS:HB3	1.67	0.74
1:D:398:PRO:HB3	1:E:395:PRO:HD2	1.69	0.74
1:D:434:THR:OG1	1:E:108:LYS:NZ	2.20	0.74
1:D:528:LYS:HD2	1:D:560:LEU:HD21	1.68	0.74
1:E:528:LYS:HD2	1:E:560:LEU:HD21	1.68	0.74
1:I:577:ILE:HA	1:I:582:LYS:HB3	1.67	0.74
1:K:236:GLN:CB	1:K:265:LYS:HZ3	1.98	0.74
1:A:352:TRP:HD1	1:B:374:LEU:O	1.69	0.74
1:C:89:ASP:HA	1:D:561:ASP:HB2	1.67	0.74
1:K:248:LYS:HZ2	1:K:251:ILE:HD12	1.52	0.74
1:G:158:TRP:CH2	1:G:302:PRO:HG3	2.23	0.74
1:G:322:LEU:HD11	1:H:58:ASP:OD2	1.85	0.74
1:H:158:TRP:CH2	1:H:302:PRO:HG3	2.23	0.74
1:K:158:TRP:CH2	1:K:302:PRO:HG3	2.23	0.74
1:B:158:TRP:CH2	1:B:302:PRO:HG3	2.23	0.74
1:D:352:TRP:HD1	1:E:374:LEU:O	1.69	0.74
1:D:577:ILE:HA	1:D:582:LYS:HB3	1.67	0.74
1:I:162:SER:HB2	1:I:170:ALA:HB2	1.68	0.74
1:I:89:ASP:CA	1:J:561:ASP:HB2	2.17	0.74
1:A:150:HIS:ND1	1:L:309:PHE:HB2	2.02	0.74
1:F:162:SER:HB2	1:F:170:ALA:HB2	1.69	0.74
1:E:27:ARG:CZ	1:F:211:TRP:HB3	2.17	0.74
1:A:528:LYS:HD2	1:A:560:LEU:HD21	1.68	0.74
1:D:158:TRP:CH2	1:D:302:PRO:HG3	2.23	0.74
1:F:158:TRP:CH2	1:F:302:PRO:HG3	2.23	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:162:SER:HB2	1:H:170:ALA:HB2	1.69	0.74
1:H:66:LYS:HZ3	1:H:420:VAL:HG21	1.52	0.74
1:K:162:SER:HB2	1:K:170:ALA:HB2	1.69	0.74
1:E:162:SER:HB2	1:E:170:ALA:HB2	1.69	0.73
1:E:158:TRP:CH2	1:E:302:PRO:HG3	2.23	0.73
1:H:158:TRP:CD1	1:H:158:TRP:N	2.56	0.73
1:J:158:TRP:CH2	1:J:302:PRO:HG3	2.23	0.73
1:A:158:TRP:CH2	1:A:302:PRO:HG3	2.23	0.73
1:F:89:ASP:HA	1:G:561:ASP:CB	2.18	0.73
1:J:40:GLN:O	1:J:41:TRP:HB2	1.88	0.73
1:J:528:LYS:HD2	1:J:560:LEU:HD21	1.68	0.73
1:C:40:GLN:O	1:C:41:TRP:HB2	1.88	0.73
1:F:66:LYS:HZ3	1:F:420:VAL:HG11	1.53	0.73
1:H:325:ASP:OD2	1:I:56:GLN:HB2	1.88	0.73
1:A:162:SER:HB2	1:A:170:ALA:HB2	1.69	0.73
1:B:158:TRP:N	1:B:158:TRP:CD1	2.56	0.73
1:K:66:LYS:HZ3	1:K:420:VAL:HG21	1.53	0.73
1:A:350:PHE:HE1	1:B:363:TYR:HE1	1.37	0.73
1:C:528:LYS:HD2	1:C:560:LEU:HD21	1.68	0.73
1:E:40:GLN:O	1:E:41:TRP:HB2	1.88	0.73
1:A:158:TRP:CD1	1:A:158:TRP:N	2.56	0.73
1:I:158:TRP:CH2	1:I:302:PRO:HG3	2.23	0.73
1:J:158:TRP:N	1:J:158:TRP:CD1	2.56	0.73
1:L:162:SER:HB2	1:L:170:ALA:HB2	1.68	0.73
1:D:162:SER:HB2	1:D:170:ALA:HB2	1.69	0.73
1:E:66:LYS:HZ3	1:E:420:VAL:HG21	1.52	0.73
1:J:236:GLN:CB	1:J:265:LYS:HZ3	2.02	0.73
1:L:40:GLN:O	1:L:41:TRP:HB2	1.88	0.73
1:C:236:GLN:CB	1:C:265:LYS:HZ3	2.02	0.73
1:F:99:ARG:O	1:F:103:ARG:HG3	1.89	0.73
1:F:158:TRP:N	1:F:158:TRP:CD1	2.56	0.73
1:F:400:ALA:CB	1:G:395:PRO:HB2	2.19	0.73
1:I:40:GLN:O	1:I:41:TRP:HB2	1.88	0.73
1:C:158:TRP:CH2	1:C:302:PRO:HG3	2.23	0.73
1:D:99:ARG:O	1:D:103:ARG:HG3	1.89	0.73
1:L:158:TRP:CH2	1:L:302:PRO:HG3	2.23	0.73
1:H:27:ARG:HG2	1:I:212:LEU:HD13	1.71	0.73
1:B:40:GLN:O	1:B:41:TRP:HB2	1.88	0.72
1:L:158:TRP:CD1	1:L:158:TRP:N	2.56	0.72
1:B:162:SER:HB2	1:B:170:ALA:HB2	1.69	0.72
1:F:528:LYS:HD2	1:F:560:LEU:HD21	1.68	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:99:ARG:O	1:G:103:ARG:HG3	1.89	0.72
1:C:162:SER:HB2	1:C:170:ALA:HB2	1.69	0.72
1:F:40:GLN:O	1:F:41:TRP:HB2	1.88	0.72
1:G:27:ARG:HG2	1:H:212:LEU:HD13	1.70	0.72
1:A:15:PHE:HZ	1:A:283:CYS:HG	1.35	0.72
1:D:40:GLN:O	1:D:41:TRP:HB2	1.88	0.72
1:G:236:GLN:CB	1:G:265:LYS:HZ3	2.01	0.72
1:A:35:PHE:C	1:A:37:ARG:H	1.93	0.72
1:F:35:PHE:C	1:F:37:ARG:H	1.93	0.72
1:H:434:THR:HG21	1:I:72:ARG:HG2	1.72	0.72
1:G:158:TRP:CD1	1:G:158:TRP:N	2.56	0.72
1:J:99:ARG:O	1:J:103:ARG:HG3	1.89	0.72
1:D:411:ALA:HB2	1:E:57:PHE:CD1	2.23	0.72
1:G:40:GLN:O	1:G:41:TRP:HB2	1.88	0.72
1:J:248:LYS:HG3	1:J:511:ARG:HH11	1.55	0.72
1:A:40:GLN:O	1:A:41:TRP:HB2	1.88	0.72
1:E:99:ARG:O	1:E:103:ARG:HG3	1.89	0.72
1:G:199:PRO:HB3	1:G:282:THR:HG22	1.72	0.72
1:H:99:ARG:O	1:H:103:ARG:HG3	1.89	0.72
1:H:152:ALA:O	1:H:156:VAL:HG22	1.90	0.72
1:J:35:PHE:C	1:J:37:ARG:H	1.93	0.72
1:L:99:ARG:O	1:L:103:ARG:HG3	1.89	0.72
1:D:66:LYS:HZ3	1:D:420:VAL:HG21	1.54	0.72
1:E:199:PRO:HB3	1:E:282:THR:HG22	1.72	0.72
1:L:35:PHE:C	1:L:37:ARG:H	1.93	0.72
1:A:99:ARG:O	1:A:103:ARG:HG3	1.89	0.72
1:A:152:ALA:O	1:A:156:VAL:HG22	1.90	0.72
1:A:199:PRO:HB3	1:A:282:THR:HG22	1.72	0.72
1:B:248:LYS:HG3	1:B:511:ARG:HH11	1.55	0.72
1:H:40:GLN:O	1:H:41:TRP:HB2	1.88	0.72
1:I:99:ARG:O	1:I:103:ARG:HG3	1.89	0.72
1:J:152:ALA:O	1:J:156:VAL:HG22	1.90	0.72
1:J:89:ASP:HA	1:K:561:ASP:CB	2.19	0.72
1:E:152:ALA:O	1:E:156:VAL:HG22	1.90	0.71
1:H:248:LYS:HG3	1:H:511:ARG:HH11	1.55	0.71
1:B:236:GLN:HB2	1:B:265:LYS:NZ	2.05	0.71
1:I:236:GLN:HB2	1:I:265:LYS:NZ	2.06	0.71
1:K:158:TRP:N	1:K:158:TRP:CD1	2.56	0.71
1:A:89:ASP:HA	1:B:561:ASP:CB	2.21	0.71
1:B:35:PHE:C	1:B:37:ARG:H	1.93	0.71
1:E:248:LYS:HG3	1:E:511:ARG:HH11	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:352:TRP:HD1	1:G:374:LEU:O	1.74	0.71
1:H:199:PRO:HB3	1:H:282:THR:HG22	1.72	0.71
1:A:248:LYS:HG3	1:A:511:ARG:HH11	1.55	0.71
1:E:248:LYS:HZ2	1:E:251:ILE:HD12	1.55	0.71
1:L:152:ALA:O	1:L:156:VAL:HG22	1.90	0.71
1:A:567:MET:HE2	1:L:554:LEU:HD22	1.72	0.71
1:A:560:LEU:CD2	1:L:82:PRO:HG2	2.07	0.71
1:B:66:LYS:HZ3	1:B:420:VAL:HG11	1.55	0.71
1:C:99:ARG:O	1:C:103:ARG:HG3	1.89	0.71
1:J:199:PRO:HB3	1:J:282:THR:HG22	1.72	0.71
1:K:152:ALA:O	1:K:156:VAL:HG22	1.90	0.71
1:A:236:GLN:HB2	1:A:265:LYS:NZ	2.05	0.71
1:B:99:ARG:O	1:B:103:ARG:HG3	1.89	0.71
1:B:325:ASP:OD2	1:C:56:GLN:HB2	1.91	0.71
1:C:236:GLN:HB2	1:C:265:LYS:NZ	2.06	0.71
1:C:248:LYS:HG3	1:C:511:ARG:HH11	1.55	0.71
1:J:236:GLN:HB2	1:J:265:LYS:NZ	2.06	0.71
1:K:40:GLN:O	1:K:41:TRP:HB2	1.88	0.71
1:K:99:ARG:O	1:K:103:ARG:HG3	1.89	0.71
1:L:199:PRO:HB3	1:L:282:THR:HG22	1.72	0.71
1:B:152:ALA:O	1:B:156:VAL:HG22	1.90	0.71
1:C:152:ALA:O	1:C:156:VAL:HG22	1.90	0.71
1:D:152:ALA:O	1:D:156:VAL:HG22	1.90	0.71
1:D:236:GLN:HB2	1:D:265:LYS:NZ	2.06	0.71
1:F:199:PRO:HB3	1:F:282:THR:HG22	1.72	0.71
1:I:152:ALA:O	1:I:156:VAL:HG22	1.90	0.71
1:I:236:GLN:CB	1:I:265:LYS:HZ3	2.02	0.71
1:E:398:PRO:HB3	1:F:395:PRO:HD2	1.71	0.71
1:G:376:ARG:O	1:G:383:ASP:HB3	1.91	0.71
1:K:376:ARG:O	1:K:383:ASP:HB3	1.91	0.71
1:C:158:TRP:CD1	1:C:158:TRP:N	2.56	0.71
1:E:158:TRP:N	1:E:158:TRP:CD1	2.56	0.71
1:F:248:LYS:HG3	1:F:511:ARG:HH11	1.55	0.71
1:J:458:ARG:HG3	1:J:459:ARG:H	1.56	0.71
1:F:236:GLN:HB2	1:F:265:LYS:NZ	2.05	0.71
1:H:376:ARG:O	1:H:383:ASP:HB3	1.91	0.71
1:K:78:VAL:HG12	1:K:79:LEU:N	2.06	0.71
1:H:398:PRO:HB3	1:I:395:PRO:HD2	1.72	0.70
1:J:27:ARG:CZ	1:K:211:TRP:HB3	2.21	0.70
1:K:458:ARG:HG3	1:K:459:ARG:H	1.56	0.70
1:C:199:PRO:HB3	1:C:282:THR:HG22	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:78:VAL:HG12	1:C:79:LEU:N	2.06	0.70
1:D:248:LYS:HG3	1:D:511:ARG:HH11	1.55	0.70
1:D:78:VAL:HG12	1:D:79:LEU:N	2.06	0.70
1:F:152:ALA:O	1:F:156:VAL:HG22	1.90	0.70
1:F:400:ALA:HB3	1:G:395:PRO:HB2	1.72	0.70
1:B:199:PRO:HB3	1:B:282:THR:HG22	1.72	0.70
1:B:458:ARG:HG3	1:B:459:ARG:H	1.56	0.70
1:B:77:ASP:CB	1:B:523:SER:HA	2.21	0.70
1:E:376:ARG:O	1:E:383:ASP:HB3	1.91	0.70
1:E:78:VAL:HG12	1:E:79:LEU:N	2.06	0.70
1:J:78:VAL:HG12	1:J:79:LEU:N	2.06	0.70
1:L:376:ARG:O	1:L:383:ASP:HB3	1.91	0.70
1:D:199:PRO:HB3	1:D:282:THR:HG22	1.72	0.70
1:D:351:PHE:CE1	1:D:388:PRO:HG3	2.27	0.70
1:F:248:LYS:HZ2	1:F:251:ILE:HD12	1.54	0.70
1:F:351:PHE:CE1	1:F:388:PRO:HG3	2.27	0.70
1:G:35:PHE:C	1:G:37:ARG:H	1.93	0.70
1:J:376:ARG:O	1:J:383:ASP:HB3	1.91	0.70
1:J:34:PHE:CE2	1:J:45:LEU:HG	2.27	0.70
1:C:351:PHE:CE1	1:C:388:PRO:HG3	2.27	0.70
1:D:158:TRP:CD1	1:D:158:TRP:N	2.56	0.70
1:E:351:PHE:CE1	1:E:388:PRO:HG3	2.27	0.70
1:G:34:PHE:CE2	1:G:45:LEU:HG	2.27	0.70
1:J:225:VAL:HG22	1:J:276:VAL:HG12	1.74	0.70
1:C:35:PHE:C	1:C:37:ARG:H	1.93	0.70
1:F:34:PHE:CE2	1:F:45:LEU:HG	2.27	0.70
1:H:77:ASP:CB	1:H:523:SER:HA	2.21	0.70
1:I:376:ARG:O	1:I:383:ASP:HB3	1.91	0.70
1:I:248:LYS:HG3	1:I:511:ARG:HH11	1.55	0.70
1:K:199:PRO:HB3	1:K:282:THR:HG22	1.72	0.70
1:L:585:GLU:C	1:L:587:PRO:HD3	2.12	0.70
1:A:376:ARG:O	1:A:383:ASP:HB3	1.91	0.70
1:B:225:VAL:HG22	1:B:276:VAL:HG12	1.74	0.70
1:D:77:ASP:CB	1:D:523:SER:HA	2.21	0.70
1:H:78:VAL:HG12	1:H:79:LEU:N	2.06	0.70
1:I:199:PRO:HB3	1:I:282:THR:HG22	1.72	0.70
1:I:584:PRO:HG2	1:I:590:GLN:HG2	1.74	0.70
1:J:325:ASP:OD2	1:K:56:GLN:HB2	1.92	0.70
1:D:376:ARG:O	1:D:383:ASP:HB3	1.91	0.70
1:F:210:PRO:HD2	1:F:211:TRP:CH2	2.27	0.70
1:G:78:VAL:HG12	1:G:79:LEU:N	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:584:PRO:HG2	1:H:590:GLN:HG2	1.74	0.70
1:I:210:PRO:HD2	1:I:211:TRP:CH2	2.27	0.70
1:K:248:LYS:HG3	1:K:511:ARG:HH11	1.55	0.70
1:B:210:PRO:HD2	1:B:211:TRP:CH2	2.27	0.70
1:B:351:PHE:CE1	1:B:388:PRO:HG3	2.27	0.70
1:C:376:ARG:O	1:C:383:ASP:HB3	1.91	0.70
1:C:458:ARG:HG3	1:C:459:ARG:H	1.56	0.70
1:C:34:PHE:CE2	1:C:45:LEU:HG	2.27	0.70
1:D:585:GLU:C	1:D:587:PRO:HD3	2.12	0.70
1:G:248:LYS:HG3	1:G:511:ARG:HH11	1.55	0.70
1:I:35:PHE:C	1:I:37:ARG:H	1.93	0.70
1:J:351:PHE:CE1	1:J:388:PRO:HG3	2.27	0.70
1:E:35:PHE:C	1:E:37:ARG:H	1.93	0.70
1:F:376:ARG:O	1:F:383:ASP:HB3	1.91	0.70
1:F:458:ARG:HG3	1:F:459:ARG:H	1.56	0.70
1:F:78:VAL:HG12	1:F:79:LEU:N	2.06	0.70
1:G:585:GLU:C	1:G:587:PRO:HD3	2.12	0.70
1:K:35:PHE:C	1:K:37:ARG:H	1.93	0.70
1:A:78:VAL:HG12	1:A:79:LEU:N	2.06	0.69
1:C:144:ILE:HG12	1:C:447:TYR:CE1	2.27	0.69
1:C:210:PRO:HD2	1:C:211:TRP:CH2	2.27	0.69
1:D:382:GLY:O	1:D:384:LEU:HD13	1.92	0.69
1:D:458:ARG:HG3	1:D:459:ARG:H	1.56	0.69
1:F:382:GLY:O	1:F:384:LEU:HD13	1.92	0.69
1:G:225:VAL:HG22	1:G:276:VAL:HG12	1.74	0.69
1:G:351:PHE:CE1	1:G:388:PRO:HG3	2.27	0.69
1:G:382:GLY:O	1:G:384:LEU:HD13	1.92	0.69
1:I:225:VAL:HG22	1:I:276:VAL:HG12	1.74	0.69
1:K:26:ARG:HG2	1:L:212:LEU:HD22	1.73	0.69
1:A:225:VAL:HG22	1:A:276:VAL:HG12	1.74	0.69
1:D:66:LYS:NZ	1:D:420:VAL:HG11	2.08	0.69
1:E:585:GLU:C	1:E:587:PRO:HD3	2.12	0.69
1:G:236:GLN:HB2	1:G:265:LYS:NZ	2.06	0.69
1:F:411:ALA:HB1	1:G:57:PHE:HD1	1.56	0.69
1:H:210:PRO:HD2	1:H:211:TRP:CH2	2.27	0.69
1:H:35:PHE:C	1:H:37:ARG:H	1.93	0.69
1:H:66:LYS:NZ	1:H:420:VAL:HG11	2.08	0.69
1:K:236:GLN:HB2	1:K:265:LYS:HG2	1.75	0.69
1:L:382:GLY:O	1:L:384:LEU:HD13	1.92	0.69
1:A:210:PRO:HD2	1:A:211:TRP:CH2	2.27	0.69
1:A:337:ASN:HD21	1:A:401:ASN:HD22	1.41	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:351:PHE:CE1	1:A:388:PRO:HG3	2.27	0.69
1:B:78:VAL:HG12	1:B:79:LEU:N	2.06	0.69
1:C:66:LYS:NZ	1:C:420:VAL:HG11	2.08	0.69
1:C:585:GLU:C	1:C:587:PRO:HD3	2.12	0.69
1:C:82:PRO:HG2	1:D:560:LEU:HD22	1.73	0.69
1:E:210:PRO:HD2	1:E:211:TRP:CH2	2.27	0.69
1:G:458:ARG:HG3	1:G:459:ARG:H	1.56	0.69
1:H:458:ARG:HG3	1:H:459:ARG:H	1.56	0.69
1:I:351:PHE:CE1	1:I:388:PRO:HG3	2.27	0.69
1:J:434:THR:HA	1:J:437:GLN:CD	2.13	0.69
1:K:351:PHE:CE1	1:K:388:PRO:HG3	2.27	0.69
1:D:35:PHE:C	1:D:37:ARG:H	1.93	0.69
1:F:434:THR:HA	1:F:437:GLN:CD	2.13	0.69
1:F:584:PRO:HG2	1:F:590:GLN:HG2	1.74	0.69
1:G:144:ILE:HG12	1:G:447:TYR:CE1	2.27	0.69
1:G:152:ALA:O	1:G:156:VAL:HG22	1.90	0.69
1:H:34:PHE:CE2	1:H:45:LEU:HG	2.27	0.69
1:I:434:THR:HA	1:I:437:GLN:CD	2.13	0.69
1:L:434:THR:HA	1:L:437:GLN:CD	2.13	0.69
1:L:248:LYS:HG3	1:L:511:ARG:HH11	1.55	0.69
1:B:27:ARG:HG2	1:C:212:LEU:HD13	1.75	0.69
1:B:376:ARG:O	1:B:383:ASP:HB3	1.91	0.69
1:C:400:ALA:CB	1:D:395:PRO:HB2	2.22	0.69
1:C:434:THR:HA	1:C:437:GLN:CD	2.13	0.69
1:D:210:PRO:HD2	1:D:211:TRP:CH2	2.27	0.69
1:D:34:PHE:CE2	1:D:45:LEU:HG	2.27	0.69
1:H:351:PHE:CE1	1:H:388:PRO:HG3	2.27	0.69
1:I:236:GLN:HB2	1:I:265:LYS:HG2	1.75	0.69
1:I:585:GLU:C	1:I:587:PRO:HD3	2.12	0.69
1:K:210:PRO:HD2	1:K:211:TRP:CH2	2.27	0.69
1:K:584:PRO:HG2	1:K:590:GLN:HG2	1.74	0.69
1:L:458:ARG:HG3	1:L:459:ARG:H	1.56	0.69
1:L:34:PHE:CE2	1:L:45:LEU:HG	2.27	0.69
1:A:458:ARG:HG3	1:A:459:ARG:H	1.56	0.69
1:B:66:LYS:NZ	1:B:420:VAL:HG11	2.08	0.69
1:B:5:GLU:HG2	1:B:6:ASN:H	1.58	0.69
1:E:34:PHE:CE2	1:E:45:LEU:HG	2.27	0.69
1:G:411:ALA:HB1	1:H:57:PHE:HD1	1.57	0.69
1:K:77:ASP:CB	1:K:523:SER:HA	2.21	0.69
1:L:236:GLN:HB2	1:L:265:LYS:NZ	2.06	0.69
1:L:351:PHE:CE1	1:L:388:PRO:HG3	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:34:PHE:CE2	1:B:45:LEU:HG	2.27	0.69
1:C:337:ASN:HD21	1:C:401:ASN:HD22	1.41	0.69
1:D:236:GLN:HB2	1:D:265:LYS:HG2	1.75	0.69
1:E:225:VAL:HG22	1:E:276:VAL:HG12	1.74	0.69
1:E:66:LYS:NZ	1:E:420:VAL:HG11	2.08	0.69
1:E:5:GLU:HG2	1:E:6:ASN:H	1.58	0.69
1:H:225:VAL:HG22	1:H:276:VAL:HG12	1.74	0.69
1:H:5:GLU:HG2	1:H:6:ASN:H	1.58	0.69
1:I:158:TRP:CD1	1:I:158:TRP:N	2.56	0.69
1:I:34:PHE:CE2	1:I:45:LEU:HG	2.27	0.69
1:J:66:LYS:NZ	1:J:420:VAL:HG11	2.08	0.69
1:J:585:GLU:C	1:J:587:PRO:HD3	2.12	0.69
1:L:78:VAL:HG12	1:L:79:LEU:N	2.06	0.69
1:A:66:LYS:NZ	1:A:420:VAL:HG11	2.08	0.69
1:F:585:GLU:C	1:F:587:PRO:HD3	2.12	0.69
1:H:34:PHE:HZ	1:H:328:ARG:NH2	1.91	0.69
1:I:337:ASN:HD21	1:I:401:ASN:HD22	1.41	0.69
1:I:458:ARG:HG3	1:I:459:ARG:H	1.56	0.69
1:I:5:GLU:HG2	1:I:6:ASN:H	1.58	0.69
1:J:236:GLN:HB2	1:J:265:LYS:HG2	1.75	0.69
1:L:584:PRO:HG2	1:L:590:GLN:HG2	1.74	0.69
1:L:66:LYS:NZ	1:L:420:VAL:HG11	2.08	0.69
1:A:236:GLN:CB	1:A:265:LYS:HZ3	2.06	0.69
1:F:236:GLN:HB2	1:F:265:LYS:HG2	1.75	0.69
1:F:66:LYS:NZ	1:F:420:VAL:HG11	2.08	0.69
1:G:337:ASN:HD21	1:G:401:ASN:HD22	1.40	0.69
1:G:27:ARG:CZ	1:H:211:TRP:HB3	2.22	0.69
1:I:382:GLY:O	1:I:384:LEU:HD13	1.92	0.69
1:I:78:VAL:HG12	1:I:79:LEU:N	2.06	0.69
1:J:5:GLU:HG2	1:J:6:ASN:H	1.58	0.69
1:K:34:PHE:HZ	1:K:328:ARG:NH2	1.91	0.69
1:A:34:PHE:CE2	1:A:45:LEU:HG	2.27	0.69
1:A:584:PRO:HG2	1:A:590:GLN:HG2	1.74	0.69
1:B:236:GLN:HB2	1:B:265:LYS:HG2	1.75	0.69
1:B:670:LYS:O	1:B:673:ALA:HB3	1.93	0.69
1:E:236:GLN:HB2	1:E:265:LYS:HG2	1.75	0.69
1:E:458:ARG:HG3	1:E:459:ARG:H	1.56	0.69
1:F:34:PHE:HZ	1:F:328:ARG:NH2	1.91	0.69
1:G:210:PRO:HD2	1:G:211:TRP:CH2	2.27	0.69
1:G:5:GLU:HG2	1:G:6:ASN:H	1.58	0.69
1:J:337:ASN:HD21	1:J:401:ASN:HD22	1.41	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:66:LYS:NZ	1:K:420:VAL:HG11	2.08	0.69
1:K:34:PHE:CE2	1:K:45:LEU:HG	2.27	0.69
1:K:585:GLU:C	1:K:587:PRO:HD3	2.12	0.69
1:K:5:GLU:HG2	1:K:6:ASN:H	1.58	0.69
1:A:434:THR:HA	1:A:437:GLN:CD	2.13	0.69
1:A:57:PHE:HD1	1:L:411:ALA:CB	2.06	0.69
1:A:585:GLU:C	1:A:587:PRO:HD3	2.12	0.69
1:C:382:GLY:O	1:C:384:LEU:HD13	1.92	0.69
1:D:434:THR:HG21	1:E:72:ARG:HG2	1.75	0.69
1:D:441:ARG:HH21	1:E:525:GLN:NE2	1.90	0.69
1:G:77:ASP:CB	1:G:523:SER:HA	2.21	0.69
1:J:27:ARG:HG2	1:K:212:LEU:HD13	1.75	0.69
1:L:112:ASN:O	1:L:115:VAL:HG22	1.94	0.69
1:K:352:TRP:CZ2	1:L:385:PRO:HG2	2.28	0.69
1:A:5:GLU:HG2	1:A:6:ASN:H	1.58	0.68
1:B:382:GLY:O	1:B:384:LEU:HD13	1.92	0.68
1:B:66:LYS:HZ3	1:B:420:VAL:HG21	1.57	0.68
1:E:236:GLN:HB2	1:E:265:LYS:NZ	2.06	0.68
1:F:77:ASP:CB	1:F:523:SER:HA	2.21	0.68
1:F:89:ASP:CA	1:G:561:ASP:HB2	2.24	0.68
1:H:236:GLN:HB2	1:H:265:LYS:NZ	2.05	0.68
1:H:382:GLY:O	1:H:384:LEU:HD13	1.92	0.68
1:H:434:THR:HA	1:H:437:GLN:CD	2.13	0.68
1:I:34:PHE:HZ	1:I:328:ARG:NH2	1.91	0.68
1:K:225:VAL:HG22	1:K:276:VAL:HG12	1.74	0.68
1:K:382:GLY:O	1:K:384:LEU:HD13	1.92	0.68
1:K:546:THR:CG2	1:K:547:PRO:HD3	2.23	0.68
1:K:670:LYS:O	1:K:673:ALA:HB3	1.93	0.68
1:A:144:ILE:HG12	1:A:447:TYR:CE1	2.27	0.68
1:B:434:THR:HA	1:B:437:GLN:CD	2.13	0.68
1:C:77:ASP:CB	1:C:523:SER:HA	2.21	0.68
1:D:546:THR:CG2	1:D:547:PRO:HD3	2.23	0.68
1:D:584:PRO:HG2	1:D:590:GLN:HG2	1.74	0.68
1:D:5:GLU:HG2	1:D:6:ASN:H	1.58	0.68
1:E:584:PRO:HG2	1:E:590:GLN:HG2	1.74	0.68
1:J:210:PRO:HD2	1:J:211:TRP:CH2	2.27	0.68
1:A:112:ASN:O	1:A:115:VAL:HG22	1.94	0.68
1:B:26:ARG:HG2	1:C:212:LEU:HD22	1.75	0.68
1:C:236:GLN:HB2	1:C:265:LYS:HG2	1.75	0.68
1:D:434:THR:HA	1:D:437:GLN:CD	2.13	0.68
1:F:670:LYS:O	1:F:673:ALA:HB3	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:236:GLN:HB2	1:G:265:LYS:HG2	1.75	0.68
1:G:34:PHE:HZ	1:G:328:ARG:NH2	1.91	0.68
1:J:77:ASP:CB	1:J:523:SER:HA	2.21	0.68
1:K:37:ARG:NH2	1:K:41:TRP:CE3	2.62	0.68
1:L:236:GLN:HB2	1:L:265:LYS:HG2	1.75	0.68
1:B:337:ASN:HD21	1:B:401:ASN:HD22	1.41	0.68
1:E:434:THR:HA	1:E:437:GLN:CD	2.13	0.68
1:F:37:ARG:NH2	1:F:41:TRP:CE3	2.62	0.68
1:J:37:ARG:NH2	1:J:41:TRP:CE3	2.62	0.68
1:L:34:PHE:HZ	1:L:328:ARG:NH2	1.91	0.68
1:L:546:THR:CG2	1:L:547:PRO:HD3	2.23	0.68
1:A:670:LYS:O	1:A:673:ALA:HB3	1.93	0.68
1:A:557:PHE:CE2	1:B:563:LYS:HD3	2.28	0.68
1:C:225:VAL:HG22	1:C:276:VAL:HG12	1.74	0.68
1:C:5:GLU:HG2	1:C:6:ASN:H	1.58	0.68
1:D:225:VAL:HG22	1:D:276:VAL:HG12	1.74	0.68
1:D:670:LYS:O	1:D:673:ALA:HB3	1.93	0.68
1:G:584:PRO:HG2	1:G:590:GLN:HG2	1.74	0.68
1:H:585:GLU:C	1:H:587:PRO:HD3	2.12	0.68
1:H:670:LYS:O	1:H:673:ALA:HB3	1.93	0.68
1:I:66:LYS:NZ	1:I:420:VAL:HG11	2.08	0.68
1:I:670:LYS:O	1:I:673:ALA:HB3	1.93	0.68
1:J:584:PRO:HG2	1:J:590:GLN:HG2	1.74	0.68
1:K:434:THR:HA	1:K:437:GLN:CD	2.13	0.68
1:K:82:PRO:HD2	1:L:560:LEU:HD13	1.75	0.68
1:L:210:PRO:HD2	1:L:211:TRP:CH2	2.27	0.68
1:L:225:VAL:HG22	1:L:276:VAL:HG12	1.74	0.68
1:C:670:LYS:O	1:C:673:ALA:HB3	1.93	0.68
1:E:382:GLY:O	1:E:384:LEU:HD13	1.92	0.68
1:E:37:ARG:NH2	1:E:41:TRP:CE3	2.62	0.68
1:G:434:THR:HA	1:G:437:GLN:CD	2.13	0.68
1:J:112:ASN:O	1:J:115:VAL:HG22	1.94	0.68
1:J:382:GLY:O	1:J:384:LEU:HD13	1.92	0.68
1:C:112:ASN:O	1:C:115:VAL:HG22	1.94	0.68
1:G:546:THR:CG2	1:G:547:PRO:HD3	2.24	0.68
1:G:670:LYS:O	1:G:673:ALA:HB3	1.93	0.68
1:J:670:LYS:O	1:J:673:ALA:HB3	1.93	0.68
1:L:37:ARG:NH2	1:L:41:TRP:CE3	2.62	0.68
1:A:382:GLY:O	1:A:384:LEU:HD13	1.92	0.68
1:B:585:GLU:C	1:B:587:PRO:HD3	2.12	0.68
1:C:34:PHE:HZ	1:C:328:ARG:NH2	1.91	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:670:LYS:O	1:E:673:ALA:HB3	1.93	0.68
1:F:66:LYS:HZ3	1:F:420:VAL:HG21	1.59	0.68
1:F:5:GLU:HG2	1:F:6:ASN:H	1.58	0.68
1:G:112:ASN:O	1:G:115:VAL:HG22	1.94	0.68
1:G:37:ARG:NH2	1:G:41:TRP:CE3	2.62	0.68
1:G:66:LYS:NZ	1:G:420:VAL:HG11	2.08	0.68
1:I:37:ARG:NH2	1:I:41:TRP:CE3	2.62	0.68
1:I:554:LEU:HD21	1:J:564:GLY:HA2	1.76	0.68
1:K:118:GLN:HA	1:K:123:VAL:O	1.94	0.68
1:L:144:ILE:HG12	1:L:447:TYR:CE1	2.27	0.68
1:A:62:PRO:HG3	1:L:415:VAL:HA	1.75	0.68
1:A:37:ARG:NH2	1:A:41:TRP:CE3	2.62	0.68
1:A:398:PRO:HB3	1:B:395:PRO:HD2	1.76	0.68
1:D:400:ALA:HA	1:E:397:VAL:HG23	1.75	0.68
1:D:411:ALA:HB1	1:E:57:PHE:CD1	2.24	0.68
1:F:225:VAL:HG22	1:F:276:VAL:HG12	1.74	0.68
1:H:37:ARG:NH2	1:H:41:TRP:CE3	2.62	0.68
1:J:34:PHE:HZ	1:J:328:ARG:NH2	1.91	0.68
1:D:352:TRP:CD1	1:E:374:LEU:O	2.47	0.68
1:K:112:ASN:O	1:K:115:VAL:HG22	1.94	0.68
1:K:236:GLN:HB2	1:K:265:LYS:NZ	2.05	0.68
1:L:5:GLU:HG2	1:L:6:ASN:H	1.58	0.68
1:A:57:PHE:CD1	1:L:411:ALA:CB	2.77	0.67
1:C:118:GLN:HA	1:C:123:VAL:O	1.94	0.67
1:C:584:PRO:HG2	1:C:590:GLN:HG2	1.74	0.67
1:D:112:ASN:O	1:D:115:VAL:HG22	1.94	0.67
1:I:118:GLN:HA	1:I:123:VAL:O	1.94	0.67
1:I:427:GLY:C	1:I:429:GLN:H	1.98	0.67
1:D:118:GLN:HA	1:D:123:VAL:O	1.94	0.67
1:D:37:ARG:NH2	1:D:41:TRP:CE3	2.62	0.67
1:I:112:ASN:O	1:I:115:VAL:HG22	1.94	0.67
1:K:337:ASN:HD21	1:K:401:ASN:HD22	1.41	0.67
1:K:144:ILE:HG12	1:K:447:TYR:CE1	2.27	0.67
1:J:89:ASP:CA	1:K:561:ASP:HB2	2.24	0.67
1:L:670:LYS:O	1:L:673:ALA:HB3	1.93	0.67
1:A:77:ASP:CB	1:A:523:SER:HA	2.21	0.67
1:D:427:GLY:C	1:D:429:GLN:H	1.98	0.67
1:F:112:ASN:O	1:F:115:VAL:HG22	1.94	0.67
1:G:118:GLN:HA	1:G:123:VAL:O	1.94	0.67
1:H:118:GLN:HA	1:H:123:VAL:O	1.94	0.67
1:H:89:ASP:CA	1:I:561:ASP:HB2	2.23	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:92:ASP:HB3	1:K:561:ASP:OD2	1.95	0.67
1:K:427:GLY:C	1:K:429:GLN:H	1.98	0.67
1:L:118:GLN:HA	1:L:123:VAL:O	1.94	0.67
1:L:427:GLY:C	1:L:429:GLN:H	1.98	0.67
1:B:112:ASN:O	1:B:115:VAL:HG22	1.94	0.67
1:C:37:ARG:NH2	1:C:41:TRP:CE3	2.62	0.67
1:B:584:PRO:HG2	1:B:590:GLN:HG2	1.74	0.67
1:D:575:GLN:O	1:D:579:MET:HG2	1.95	0.67
1:E:112:ASN:O	1:E:115:VAL:HG22	1.94	0.67
1:D:309:PHE:HB2	1:E:150:HIS:ND1	2.09	0.67
1:J:210:PRO:HD2	1:J:211:TRP:CE3	2.30	0.67
1:A:236:GLN:HB2	1:A:265:LYS:HG2	1.75	0.67
1:B:575:GLN:O	1:B:579:MET:HG2	1.95	0.67
1:I:77:ASP:CB	1:I:523:SER:HA	2.21	0.67
1:K:575:GLN:O	1:K:579:MET:HG2	1.95	0.67
1:A:311:GLU:O	1:A:312:ASP:HB2	1.95	0.67
1:B:34:PHE:HZ	1:B:328:ARG:NH2	1.91	0.67
1:G:210:PRO:HD2	1:G:211:TRP:CE3	2.30	0.67
1:H:236:GLN:HB2	1:H:265:LYS:HG2	1.75	0.67
1:H:427:GLY:C	1:H:429:GLN:H	1.98	0.67
1:A:390:ALA:HB3	1:B:387:GLN:OE1	1.95	0.67
1:A:546:THR:CG2	1:A:547:PRO:HD3	2.23	0.67
1:B:325:ASP:O	1:B:329:LEU:HD23	1.95	0.67
1:B:37:ARG:NH2	1:B:41:TRP:CE3	2.62	0.67
1:D:337:ASN:HD21	1:D:401:ASN:HD22	1.41	0.67
1:E:210:PRO:HD2	1:E:211:TRP:CE3	2.30	0.67
1:F:337:ASN:HD21	1:F:401:ASN:HD22	1.41	0.67
1:G:575:GLN:O	1:G:579:MET:HG2	1.95	0.67
1:I:144:ILE:HG12	1:I:447:TYR:CE1	2.27	0.67
1:I:210:PRO:HD2	1:I:211:TRP:CE3	2.30	0.67
1:A:554:LEU:HD21	1:B:564:GLY:CA	2.21	0.67
1:E:337:ASN:HD21	1:E:401:ASN:HD22	1.41	0.67
1:G:325:ASP:O	1:G:329:LEU:HD23	1.95	0.67
1:H:112:ASN:O	1:H:115:VAL:HG22	1.94	0.67
1:H:575:GLN:O	1:H:579:MET:HG2	1.95	0.67
1:I:546:THR:CG2	1:I:547:PRO:HD3	2.23	0.67
1:J:325:ASP:O	1:J:329:LEU:HD23	1.95	0.67
1:L:337:ASN:HD21	1:L:401:ASN:HD22	1.41	0.67
1:D:210:PRO:HD2	1:D:211:TRP:CE3	2.30	0.66
1:D:311:GLU:O	1:D:312:ASP:HB2	1.95	0.66
1:H:210:PRO:HD2	1:H:211:TRP:CE3	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:311:GLU:O	1:I:312:ASP:HB2	1.95	0.66
1:L:311:GLU:O	1:L:312:ASP:HB2	1.95	0.66
1:A:34:PHE:HZ	1:A:328:ARG:NH2	1.91	0.66
1:D:325:ASP:O	1:D:329:LEU:HD23	1.95	0.66
1:E:575:GLN:O	1:E:579:MET:HG2	1.95	0.66
1:J:575:GLN:O	1:J:579:MET:HG2	1.95	0.66
1:L:34:PHE:CZ	1:L:328:ARG:NH2	2.62	0.66
1:B:118:GLN:HA	1:B:123:VAL:O	1.94	0.66
1:E:352:TRP:HD1	1:F:374:LEU:O	1.78	0.66
1:F:210:PRO:HD2	1:F:211:TRP:CE3	2.30	0.66
1:G:32:ASP:HA	1:G:35:PHE:CE1	2.31	0.66
1:J:546:THR:CG2	1:J:547:PRO:HD3	2.23	0.66
1:L:101:ASP:HB2	1:L:144:ILE:O	1.96	0.66
1:A:58:ASP:CG	1:L:322:LEU:HD12	2.09	0.66
1:B:210:PRO:HD2	1:B:211:TRP:CE3	2.30	0.66
1:E:311:GLU:O	1:E:312:ASP:HB2	1.95	0.66
1:F:118:GLN:HA	1:F:123:VAL:O	1.94	0.66
1:I:101:ASP:HB2	1:I:144:ILE:O	1.96	0.66
1:I:32:ASP:HA	1:I:35:PHE:CE1	2.30	0.66
1:J:118:GLN:HA	1:J:123:VAL:O	1.94	0.66
1:J:427:GLY:C	1:J:429:GLN:H	1.98	0.66
1:K:325:ASP:O	1:K:329:LEU:HD23	1.95	0.66
1:L:77:ASP:CB	1:L:523:SER:HA	2.21	0.66
1:A:118:GLN:HA	1:A:123:VAL:O	1.94	0.66
1:C:311:GLU:O	1:C:312:ASP:HB2	1.95	0.66
1:C:350:PHE:HA	1:D:372:TYR:O	1.95	0.66
1:E:118:GLN:HA	1:E:123:VAL:O	1.94	0.66
1:G:427:GLY:C	1:G:429:GLN:H	1.98	0.66
1:H:34:PHE:CZ	1:H:328:ARG:NH2	2.62	0.66
1:J:66:LYS:HZ1	1:J:420:VAL:HG21	1.61	0.66
1:K:101:ASP:HB2	1:K:144:ILE:O	1.96	0.66
1:A:325:ASP:O	1:A:329:LEU:HD23	1.95	0.66
1:A:65:ARG:HG2	1:L:306:GLU:OE2	1.95	0.66
1:D:32:ASP:HA	1:D:35:PHE:CE1	2.31	0.66
1:D:34:PHE:HZ	1:D:328:ARG:NH2	1.91	0.66
1:F:311:GLU:O	1:F:312:ASP:HB2	1.95	0.66
1:F:66:LYS:NZ	1:F:420:VAL:HG21	2.11	0.66
1:K:32:ASP:HA	1:K:35:PHE:CE1	2.31	0.66
1:L:32:ASP:HA	1:L:35:PHE:CE1	2.31	0.66
1:A:32:ASP:HA	1:A:35:PHE:CE1	2.31	0.66
1:C:101:ASP:HB2	1:C:144:ILE:O	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:101:ASP:HB2	1:D:144:ILE:O	1.96	0.66
1:I:575:GLN:O	1:I:579:MET:HG2	1.95	0.66
1:K:210:PRO:HD2	1:K:211:TRP:CE3	2.30	0.66
1:A:310:VAL:C	1:A:312:ASP:H	1.99	0.66
1:A:528:LYS:CD	1:A:560:LEU:HD21	2.26	0.66
1:D:66:LYS:HZ3	1:D:420:VAL:HG11	1.59	0.66
1:E:427:GLY:C	1:E:429:GLN:H	1.98	0.66
1:H:32:ASP:HA	1:H:35:PHE:CE1	2.30	0.66
1:J:32:ASP:HA	1:J:35:PHE:CE1	2.30	0.66
1:L:325:ASP:O	1:L:329:LEU:HD23	1.95	0.66
1:C:210:PRO:HD2	1:C:211:TRP:CE3	2.30	0.66
1:D:364:ASP:HA	1:E:370:PRO:HB3	1.78	0.66
1:F:310:VAL:C	1:F:312:ASP:H	1.99	0.66
1:F:325:ASP:O	1:F:329:LEU:HD23	1.95	0.66
1:G:101:ASP:HB2	1:G:144:ILE:O	1.96	0.66
1:A:150:HIS:CG	1:L:309:PHE:HB2	2.31	0.66
1:A:210:PRO:HD2	1:A:211:TRP:CE3	2.30	0.66
1:B:311:GLU:O	1:B:312:ASP:HB2	1.95	0.66
1:D:34:PHE:CZ	1:D:328:ARG:NH2	2.62	0.66
1:E:101:ASP:HB2	1:E:144:ILE:O	1.96	0.66
1:E:34:PHE:HZ	1:E:328:ARG:NH2	1.91	0.66
1:G:528:LYS:CD	1:G:560:LEU:HD21	2.26	0.66
1:H:27:ARG:CZ	1:I:211:TRP:HB3	2.25	0.66
1:J:66:LYS:NZ	1:J:420:VAL:HG21	2.11	0.66
1:K:352:TRP:CD1	1:L:374:LEU:O	2.49	0.66
1:A:101:ASP:HB2	1:A:144:ILE:O	1.96	0.65
1:A:108:LYS:CE	1:L:438:LEU:HD11	2.27	0.65
1:C:32:ASP:HA	1:C:35:PHE:CE1	2.31	0.65
1:B:89:ASP:HA	1:C:561:ASP:CB	2.25	0.65
1:C:575:GLN:O	1:C:579:MET:HG2	1.95	0.65
1:G:325:ASP:OD2	1:H:56:GLN:HB2	1.96	0.65
1:G:34:PHE:CZ	1:G:328:ARG:NH2	2.62	0.65
1:H:325:ASP:O	1:H:329:LEU:HD23	1.95	0.65
1:L:210:PRO:HD2	1:L:211:TRP:CE3	2.30	0.65
1:L:528:LYS:CD	1:L:560:LEU:HD21	2.26	0.65
1:K:89:ASP:HA	1:L:561:ASP:HB2	1.76	0.65
1:L:575:GLN:O	1:L:579:MET:HG2	1.95	0.65
1:L:66:LYS:HZ3	1:L:420:VAL:CG2	2.08	0.65
1:A:427:GLY:C	1:A:429:GLN:H	1.98	0.65
1:B:427:GLY:C	1:B:429:GLN:H	1.98	0.65
1:C:66:LYS:NZ	1:C:420:VAL:HG21	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:248:LYS:CG	1:H:511:ARG:HH11	2.10	0.65
1:J:311:GLU:O	1:J:312:ASP:HB2	1.95	0.65
1:A:108:LYS:NZ	1:L:438:LEU:HD11	2.11	0.65
1:A:575:GLN:O	1:A:579:MET:HG2	1.95	0.65
1:B:32:ASP:HA	1:B:35:PHE:CE1	2.31	0.65
1:D:66:LYS:NZ	1:D:420:VAL:HG21	2.11	0.65
1:E:325:ASP:O	1:E:329:LEU:HD23	1.95	0.65
1:E:66:LYS:NZ	1:E:420:VAL:HG21	2.11	0.65
1:E:248:LYS:CG	1:E:511:ARG:HH11	2.10	0.65
1:F:34:PHE:CZ	1:F:328:ARG:NH2	2.62	0.65
1:H:273:ARG:HH22	1:H:453:LEU:CD2	2.10	0.65
1:H:310:VAL:C	1:H:312:ASP:H	1.99	0.65
1:H:337:ASN:HD21	1:H:401:ASN:HD22	1.41	0.65
1:K:350:PHE:HE1	1:L:363:TYR:HE1	1.43	0.65
1:A:66:LYS:NZ	1:A:420:VAL:HG21	2.11	0.65
1:B:66:LYS:NZ	1:B:420:VAL:HG21	2.11	0.65
1:C:310:VAL:C	1:C:312:ASP:H	1.99	0.65
1:F:546:THR:CG2	1:F:547:PRO:HD3	2.23	0.65
1:F:575:GLN:O	1:F:579:MET:HG2	1.95	0.65
1:G:311:GLU:O	1:G:312:ASP:HB2	1.95	0.65
1:I:325:ASP:O	1:I:329:LEU:HD23	1.95	0.65
1:L:248:LYS:CG	1:L:511:ARG:HH11	2.10	0.65
1:C:34:PHE:CZ	1:C:328:ARG:NH2	2.62	0.65
1:E:32:ASP:HA	1:E:35:PHE:CE1	2.31	0.65
1:H:66:LYS:NZ	1:H:420:VAL:HG21	2.11	0.65
1:K:66:LYS:NZ	1:K:420:VAL:HG21	2.11	0.65
1:A:273:ARG:HH22	1:A:453:LEU:CD2	2.10	0.65
1:B:144:ILE:HG12	1:B:447:TYR:CE1	2.27	0.65
1:C:45:LEU:N	1:C:45:LEU:HD22	2.12	0.65
1:C:89:ASP:HA	1:D:561:ASP:CB	2.26	0.65
1:E:546:THR:CG2	1:E:547:PRO:HD3	2.23	0.65
1:F:27:ARG:HD2	1:G:212:LEU:H	1.61	0.65
1:F:32:ASP:HA	1:F:35:PHE:CE1	2.31	0.65
1:G:248:LYS:CG	1:G:511:ARG:HH11	2.10	0.65
1:G:66:LYS:HZ3	1:G:420:VAL:CG2	2.10	0.65
1:H:101:ASP:HB2	1:H:144:ILE:O	1.96	0.65
1:H:552:LEU:O	1:H:555:GLN:HB3	1.97	0.65
1:I:273:ARG:HH22	1:I:453:LEU:CD2	2.10	0.65
1:J:45:LEU:N	1:J:45:LEU:HD22	2.12	0.65
1:K:273:ARG:HH22	1:K:453:LEU:CD2	2.10	0.65
1:B:273:ARG:HH22	1:B:453:LEU:CD2	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:528:LYS:CD	1:B:560:LEU:HD21	2.26	0.65
1:D:45:LEU:N	1:D:45:LEU:HD22	2.12	0.65
1:E:45:LEU:N	1:E:45:LEU:HD22	2.12	0.65
1:E:77:ASP:CB	1:E:523:SER:HA	2.21	0.65
1:F:144:ILE:HG12	1:F:447:TYR:CE1	2.27	0.65
1:F:236:GLN:CB	1:F:265:LYS:HZ3	2.07	0.65
1:H:144:ILE:HG12	1:H:447:TYR:CE1	2.27	0.65
1:J:528:LYS:CD	1:J:560:LEU:HD21	2.26	0.65
1:K:311:GLU:O	1:K:312:ASP:HB2	1.95	0.65
1:A:66:LYS:HZ3	1:A:420:VAL:CG2	2.07	0.65
1:C:528:LYS:CD	1:C:560:LEU:HD21	2.26	0.65
1:D:434:THR:HG21	1:E:72:ARG:CG	2.27	0.65
1:F:273:ARG:HH22	1:F:453:LEU:CD2	2.10	0.65
1:H:528:LYS:CD	1:H:560:LEU:HD21	2.26	0.65
1:I:248:LYS:CG	1:I:511:ARG:HH11	2.10	0.65
1:I:66:LYS:NZ	1:I:420:VAL:HG21	2.11	0.65
1:K:552:LEU:O	1:K:555:GLN:HB3	1.97	0.65
1:L:273:ARG:HH22	1:L:453:LEU:CD2	2.10	0.65
1:B:45:LEU:HD22	1:B:45:LEU:N	2.12	0.65
1:C:166:ASP:OD2	1:C:168:SER:HB3	1.97	0.65
1:C:248:LYS:CG	1:C:511:ARG:HH11	2.10	0.65
1:D:528:LYS:CD	1:D:560:LEU:HD21	2.26	0.65
1:G:273:ARG:HH22	1:G:453:LEU:CD2	2.10	0.65
1:G:66:LYS:NZ	1:G:420:VAL:HG21	2.11	0.65
1:H:546:THR:CG2	1:H:547:PRO:HD3	2.24	0.65
1:I:138:THR:H	1:I:143:VAL:CG2	2.10	0.65
1:I:310:VAL:C	1:I:312:ASP:H	1.99	0.65
1:I:45:LEU:HD22	1:I:45:LEU:N	2.12	0.65
1:I:528:LYS:CD	1:I:560:LEU:HD21	2.26	0.65
1:J:166:ASP:OD2	1:J:168:SER:HB3	1.97	0.65
1:L:66:LYS:NZ	1:L:420:VAL:HG21	2.11	0.65
1:B:546:THR:CG2	1:B:547:PRO:HD3	2.24	0.65
1:B:552:LEU:O	1:B:555:GLN:HB3	1.97	0.65
1:C:325:ASP:O	1:C:329:LEU:HD23	1.95	0.65
1:F:101:ASP:HB2	1:F:144:ILE:O	1.96	0.65
1:G:45:LEU:HD22	1:G:45:LEU:N	2.12	0.65
1:J:310:VAL:C	1:J:312:ASP:H	1.99	0.65
1:I:411:ALA:HB1	1:J:57:PHE:HD1	1.62	0.65
1:L:45:LEU:N	1:L:45:LEU:HD22	2.12	0.65
1:A:560:LEU:HD13	1:L:82:PRO:CD	2.04	0.64
1:B:444:LEU:O	1:B:448:VAL:HG23	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:264:ILE:O	1:C:265:LYS:HD3	1.98	0.64
1:C:273:ARG:HH22	1:C:453:LEU:CD2	2.10	0.64
1:D:248:LYS:CG	1:D:511:ARG:HH11	2.10	0.64
1:E:310:VAL:C	1:E:312:ASP:H	1.99	0.64
1:G:552:LEU:O	1:G:555:GLN:HB3	1.97	0.64
1:K:310:VAL:C	1:K:312:ASP:H	1.99	0.64
1:A:248:LYS:CG	1:A:511:ARG:HH11	2.10	0.64
1:D:264:ILE:O	1:D:265:LYS:HD3	1.98	0.64
1:F:166:ASP:OD2	1:F:168:SER:HB3	1.97	0.64
1:G:166:ASP:OD2	1:G:168:SER:HB3	1.97	0.64
1:G:209:PHE:HA	1:G:211:TRP:NE1	2.13	0.64
1:G:248:LYS:HZ2	1:G:251:ILE:HD12	1.61	0.64
1:H:166:ASP:OD2	1:H:168:SER:HB3	1.97	0.64
1:J:101:ASP:HB2	1:J:144:ILE:O	1.96	0.64
1:J:273:ARG:HH22	1:J:453:LEU:CD2	2.10	0.64
1:K:34:PHE:CZ	1:K:328:ARG:NH2	2.62	0.64
1:B:310:VAL:C	1:B:312:ASP:H	1.99	0.64
1:C:552:LEU:O	1:C:555:GLN:HB3	1.97	0.64
1:D:310:VAL:C	1:D:312:ASP:H	1.99	0.64
1:E:273:ARG:HH22	1:E:453:LEU:CD2	2.10	0.64
1:E:444:LEU:O	1:E:448:VAL:HG23	1.98	0.64
1:H:311:GLU:O	1:H:312:ASP:HB2	1.95	0.64
1:L:444:LEU:O	1:L:448:VAL:HG23	1.98	0.64
1:A:138:THR:H	1:A:143:VAL:CG2	2.10	0.64
1:D:166:ASP:OD2	1:D:168:SER:HB3	1.97	0.64
1:F:427:GLY:C	1:F:429:GLN:H	1.98	0.64
1:G:444:LEU:O	1:G:448:VAL:HG23	1.98	0.64
1:I:322:LEU:HD11	1:J:58:ASP:OD2	1.95	0.64
1:L:264:ILE:O	1:L:265:LYS:HD3	1.98	0.64
1:C:427:GLY:C	1:C:429:GLN:H	1.98	0.64
1:B:554:LEU:HD22	1:C:567:MET:HE2	1.79	0.64
1:E:144:ILE:HG12	1:E:447:TYR:CE1	2.27	0.64
1:F:264:ILE:O	1:F:265:LYS:HD3	1.98	0.64
1:G:310:VAL:C	1:G:312:ASP:H	1.99	0.64
1:H:411:ALA:CB	1:I:57:PHE:HD1	2.11	0.64
1:A:552:LEU:O	1:A:555:GLN:HB3	1.97	0.64
1:C:546:THR:CG2	1:C:547:PRO:HD3	2.23	0.64
1:D:444:LEU:O	1:D:448:VAL:HG23	1.98	0.64
1:F:248:LYS:CG	1:F:511:ARG:HH11	2.10	0.64
1:I:444:LEU:O	1:I:448:VAL:HG23	1.98	0.64
1:J:264:ILE:O	1:J:265:LYS:HD3	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:413:LYS:HA	1:J:416:ALA:CB	2.28	0.64
1:K:248:LYS:CG	1:K:511:ARG:HH11	2.10	0.64
1:K:528:LYS:CD	1:K:560:LEU:HD21	2.26	0.64
1:B:236:GLN:CB	1:B:265:LYS:HZ3	2.09	0.64
1:B:413:LYS:HA	1:B:416:ALA:CB	2.28	0.64
1:C:24:GLU:C	1:C:26:ARG:H	2.01	0.64
1:D:273:ARG:HH22	1:D:453:LEU:CD2	2.10	0.64
1:F:528:LYS:CD	1:F:560:LEU:HD21	2.26	0.64
1:J:144:ILE:HG12	1:J:447:TYR:CE1	2.27	0.64
1:L:209:PHE:HA	1:L:211:TRP:NE1	2.13	0.64
1:A:444:LEU:O	1:A:448:VAL:HG23	1.98	0.64
1:B:209:PHE:HA	1:B:211:TRP:NE1	2.13	0.64
1:B:248:LYS:CG	1:B:511:ARG:HH11	2.10	0.64
1:E:37:ARG:HH21	1:E:37:ARG:CB	2.11	0.64
1:E:528:LYS:CD	1:E:560:LEU:HD21	2.26	0.64
1:E:552:LEU:O	1:E:555:GLN:HB3	1.97	0.64
1:H:24:GLU:C	1:H:26:ARG:H	2.01	0.64
1:H:413:LYS:HA	1:H:416:ALA:CB	2.28	0.64
1:I:166:ASP:OD2	1:I:168:SER:HB3	1.97	0.64
1:J:248:LYS:CG	1:J:511:ARG:HH11	2.10	0.64
1:K:444:LEU:O	1:K:448:VAL:HG23	1.98	0.64
1:L:236:GLN:CB	1:L:265:LYS:HZ3	2.09	0.64
1:L:552:LEU:O	1:L:555:GLN:HB3	1.97	0.64
1:L:603:GLN:O	1:L:607:ALA:N	2.31	0.64
1:F:45:LEU:N	1:F:45:LEU:HD22	2.12	0.64
1:H:264:ILE:O	1:H:265:LYS:HD3	1.98	0.64
1:H:444:LEU:O	1:H:448:VAL:HG23	1.98	0.64
1:K:45:LEU:N	1:K:45:LEU:HD22	2.12	0.64
1:A:264:ILE:O	1:A:265:LYS:HD3	1.98	0.64
1:A:45:LEU:HD22	1:A:45:LEU:N	2.12	0.64
1:B:101:ASP:HB2	1:B:144:ILE:O	1.96	0.64
1:D:511:ARG:HA	1:D:513:ARG:CD	2.28	0.64
1:D:552:LEU:O	1:D:555:GLN:HB3	1.97	0.64
1:F:209:PHE:HA	1:F:211:TRP:NE1	2.12	0.64
1:I:552:LEU:O	1:I:555:GLN:HB3	1.97	0.64
1:J:209:PHE:HA	1:J:211:TRP:NE1	2.13	0.64
1:K:264:ILE:O	1:K:265:LYS:HD3	1.98	0.64
1:J:411:ALA:HB1	1:K:57:PHE:HD1	1.62	0.64
1:K:66:LYS:HZ3	1:K:420:VAL:HG11	1.62	0.64
1:C:248:LYS:HZ2	1:C:251:ILE:HD12	1.60	0.63
1:E:209:PHE:HA	1:E:211:TRP:NE1	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:552:LEU:O	1:F:555:GLN:HB3	1.97	0.63
1:F:603:GLN:O	1:F:607:ALA:N	2.31	0.63
1:H:45:LEU:HD22	1:H:45:LEU:N	2.12	0.63
1:K:166:ASP:OD2	1:K:168:SER:HB3	1.97	0.63
1:L:310:VAL:C	1:L:312:ASP:H	1.99	0.63
1:B:166:ASP:CG	1:B:168:SER:HB3	2.19	0.63
1:D:144:ILE:HG12	1:D:447:TYR:CE1	2.27	0.63
1:E:264:ILE:O	1:E:265:LYS:HD3	1.98	0.63
1:F:24:GLU:C	1:F:26:ARG:H	2.01	0.63
1:H:166:ASP:CG	1:H:168:SER:HB3	2.19	0.63
1:H:209:PHE:HA	1:H:211:TRP:NE1	2.13	0.63
1:I:209:PHE:HA	1:I:211:TRP:NE1	2.13	0.63
1:J:552:LEU:O	1:J:555:GLN:HB3	1.97	0.63
1:C:248:LYS:NZ	1:C:251:ILE:HD12	2.14	0.63
1:D:329:LEU:HD21	1:E:53:TYR:OH	1.97	0.63
1:D:413:LYS:HA	1:D:416:ALA:CB	2.28	0.63
1:E:166:ASP:CG	1:E:168:SER:HB3	2.19	0.63
1:F:166:ASP:CG	1:F:168:SER:HB3	2.19	0.63
1:G:12:LEU:O	1:G:16:ASP:HB2	1.99	0.63
1:I:166:ASP:CG	1:I:168:SER:HB3	2.19	0.63
1:I:12:LEU:O	1:I:16:ASP:HB2	1.99	0.63
1:J:37:ARG:HH21	1:J:37:ARG:CB	2.10	0.63
1:K:209:PHE:HA	1:K:211:TRP:NE1	2.12	0.63
1:K:413:LYS:HA	1:K:416:ALA:CB	2.28	0.63
1:L:71:MET:HE1	1:L:115:VAL:HB	1.79	0.63
1:L:166:ASP:OD2	1:L:168:SER:HB3	1.97	0.63
1:L:248:LYS:NZ	1:L:251:ILE:HD12	2.14	0.63
1:A:37:ARG:HH21	1:A:37:ARG:CB	2.11	0.63
1:A:400:ALA:HB3	1:B:395:PRO:HB2	1.80	0.63
1:A:89:ASP:CA	1:B:561:ASP:HB2	2.27	0.63
1:C:209:PHE:HA	1:C:211:TRP:NE1	2.13	0.63
1:B:411:ALA:HB1	1:C:57:PHE:HD1	1.63	0.63
1:C:66:LYS:HZ3	1:C:420:VAL:CG2	2.09	0.63
1:E:24:GLU:C	1:E:26:ARG:H	2.01	0.63
1:G:264:ILE:O	1:G:265:LYS:HD3	1.98	0.63
1:G:413:LYS:HA	1:G:416:ALA:CB	2.28	0.63
1:I:24:GLU:C	1:I:26:ARG:H	2.01	0.63
1:I:66:LYS:HZ3	1:I:420:VAL:CG2	2.10	0.63
1:J:511:ARG:HA	1:J:513:ARG:CD	2.28	0.63
1:J:66:LYS:HZ1	1:J:420:VAL:CG1	2.10	0.63
1:L:303:VAL:HA	1:L:439:ASN:ND2	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:37:ARG:CB	1:L:37:ARG:HH21	2.11	0.63
1:A:303:VAL:HA	1:A:439:ASN:ND2	2.14	0.63
1:A:41:TRP:HE3	1:A:42:ASP:O	1.82	0.63
1:B:166:ASP:OD2	1:B:168:SER:HB3	1.97	0.63
1:C:444:LEU:O	1:C:448:VAL:HG23	1.98	0.63
1:D:138:THR:H	1:D:143:VAL:CG2	2.10	0.63
1:E:12:LEU:O	1:E:16:ASP:HB2	1.99	0.63
1:G:166:ASP:CG	1:G:168:SER:HB3	2.19	0.63
1:G:248:LYS:NZ	1:G:251:ILE:HD12	2.14	0.63
1:J:444:LEU:O	1:J:448:VAL:HG23	1.98	0.63
1:L:413:LYS:HA	1:L:416:ALA:CB	2.28	0.63
1:A:166:ASP:OD2	1:A:168:SER:HB3	1.97	0.63
1:A:603:GLN:O	1:A:607:ALA:N	2.31	0.63
1:B:264:ILE:O	1:B:265:LYS:HD3	1.98	0.63
1:F:413:LYS:HA	1:F:416:ALA:CB	2.28	0.63
1:G:24:GLU:C	1:G:26:ARG:H	2.01	0.63
1:I:37:ARG:HH21	1:I:37:ARG:CB	2.11	0.63
1:I:413:LYS:HA	1:I:416:ALA:CB	2.28	0.63
1:I:603:GLN:O	1:I:607:ALA:N	2.31	0.63
1:K:12:LEU:O	1:K:16:ASP:HB2	1.99	0.63
1:A:248:LYS:NZ	1:A:251:ILE:HD12	2.14	0.63
1:B:303:VAL:HA	1:B:439:ASN:ND2	2.14	0.63
1:A:400:ALA:HB2	1:B:395:PRO:HB2	1.79	0.63
1:C:603:GLN:O	1:C:607:ALA:N	2.31	0.63
1:D:209:PHE:HA	1:D:211:TRP:NE1	2.13	0.63
1:E:236:GLN:CB	1:E:265:LYS:HZ3	2.09	0.63
1:F:12:LEU:O	1:F:16:ASP:HB2	1.99	0.63
1:G:303:VAL:HA	1:G:439:ASN:ND2	2.14	0.63
1:H:12:LEU:O	1:H:16:ASP:HB2	1.99	0.63
1:H:303:VAL:HA	1:H:439:ASN:ND2	2.14	0.63
1:I:41:TRP:HE3	1:I:42:ASP:O	1.82	0.63
1:J:12:LEU:O	1:J:16:ASP:HB2	1.99	0.63
1:K:166:ASP:CG	1:K:168:SER:HB3	2.19	0.63
1:K:248:LYS:NZ	1:K:251:ILE:HD12	2.14	0.63
1:A:209:PHE:HA	1:A:211:TRP:NE1	2.13	0.63
1:A:413:LYS:HA	1:A:416:ALA:CB	2.28	0.63
1:A:511:ARG:HA	1:A:513:ARG:CD	2.28	0.63
1:C:12:LEU:O	1:C:16:ASP:HB2	1.99	0.63
1:C:306:GLU:O	1:C:316:TYR:HA	1.99	0.63
1:D:306:GLU:O	1:D:316:TYR:HA	1.99	0.63
1:D:554:LEU:HD22	1:E:567:MET:CE	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:282:THR:HG23	1:F:287:LEU:HD11	1.81	0.63
1:F:557:PHE:CE2	1:G:563:LYS:HD3	2.33	0.63
1:J:303:VAL:HA	1:J:439:ASN:ND2	2.14	0.63
1:J:306:GLU:O	1:J:316:TYR:HA	1.99	0.63
1:L:12:LEU:O	1:L:16:ASP:HB2	1.99	0.63
1:B:248:LYS:NZ	1:B:251:ILE:HD12	2.14	0.63
1:B:37:ARG:CB	1:B:37:ARG:HH21	2.11	0.63
1:C:138:THR:H	1:C:143:VAL:CG2	2.10	0.63
1:E:166:ASP:OD2	1:E:168:SER:HB3	1.97	0.63
1:E:306:GLU:O	1:E:316:TYR:HA	1.99	0.63
1:F:248:LYS:NZ	1:F:251:ILE:HD12	2.14	0.63
1:G:37:ARG:HH21	1:G:37:ARG:CB	2.11	0.63
1:I:306:GLU:O	1:I:316:TYR:HA	1.99	0.63
1:J:603:GLN:O	1:J:607:ALA:N	2.31	0.63
1:L:511:ARG:HA	1:L:513:ARG:CD	2.28	0.63
1:B:12:LEU:O	1:B:16:ASP:HB2	1.99	0.62
1:B:34:PHE:CZ	1:B:328:ARG:NH2	2.62	0.62
1:B:511:ARG:HA	1:B:513:ARG:CD	2.27	0.62
1:C:166:ASP:CG	1:C:168:SER:HB3	2.19	0.62
1:C:303:VAL:HA	1:C:439:ASN:ND2	2.14	0.62
1:D:248:LYS:HZ2	1:D:251:ILE:HD12	1.64	0.62
1:D:24:GLU:C	1:D:26:ARG:H	2.01	0.62
1:C:345:PRO:HB3	1:D:372:TYR:OH	1.99	0.62
1:D:603:GLN:O	1:D:607:ALA:N	2.31	0.62
1:F:138:THR:H	1:F:143:VAL:CG2	2.10	0.62
1:I:248:LYS:NZ	1:I:251:ILE:HD12	2.14	0.62
1:I:511:ARG:HA	1:I:513:ARG:CD	2.28	0.62
1:K:306:GLU:O	1:K:316:TYR:HA	1.99	0.62
1:L:306:GLU:O	1:L:316:TYR:HA	1.99	0.62
1:A:24:GLU:C	1:A:26:ARG:H	2.01	0.62
1:E:413:LYS:HA	1:E:416:ALA:CB	2.28	0.62
1:E:66:LYS:HZ3	1:E:420:VAL:HG11	1.64	0.62
1:F:390:ALA:CB	1:G:387:GLN:HB2	2.29	0.62
1:H:66:LYS:HZ3	1:H:420:VAL:CG2	2.12	0.62
1:J:248:LYS:NZ	1:J:251:ILE:HD12	2.14	0.62
1:J:434:THR:HG21	1:K:72:ARG:CG	2.28	0.62
1:K:82:PRO:HG2	1:L:560:LEU:HD22	1.81	0.62
1:A:12:LEU:O	1:A:16:ASP:HB2	1.99	0.62
1:C:158:TRP:HB3	1:C:173:CYS:CA	2.30	0.62
1:C:410:SER:O	1:C:414:GLU:HG2	2.00	0.62
1:D:12:LEU:O	1:D:16:ASP:HB2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:282:THR:HG23	1:D:287:LEU:HD11	1.81	0.62
1:F:158:TRP:HB3	1:F:173:CYS:CA	2.30	0.62
1:F:444:LEU:O	1:F:448:VAL:HG23	1.98	0.62
1:K:282:THR:HG23	1:K:287:LEU:HD11	1.81	0.62
1:L:166:ASP:CG	1:L:168:SER:HB3	2.19	0.62
1:B:306:GLU:O	1:B:316:TYR:HA	1.99	0.62
1:B:398:PRO:HB3	1:C:395:PRO:HD2	1.81	0.62
1:F:66:LYS:HZ3	1:F:420:VAL:CG1	2.12	0.62
1:F:44:TRP:C	1:F:45:LEU:HD22	2.20	0.62
1:E:434:THR:HG21	1:F:72:ARG:HG2	1.81	0.62
1:K:303:VAL:HA	1:K:439:ASN:ND2	2.14	0.62
1:K:511:ARG:HA	1:K:513:ARG:CD	2.28	0.62
1:D:166:ASP:CG	1:D:168:SER:HB3	2.19	0.62
1:D:37:ARG:HH21	1:D:37:ARG:CB	2.11	0.62
1:E:44:TRP:C	1:E:45:LEU:HD22	2.20	0.62
1:F:303:VAL:HA	1:F:439:ASN:ND2	2.14	0.62
1:I:264:ILE:O	1:I:265:LYS:HD3	1.98	0.62
1:I:282:THR:HG23	1:I:287:LEU:HD11	1.81	0.62
1:I:303:VAL:HA	1:I:439:ASN:ND2	2.14	0.62
1:J:34:PHE:CZ	1:J:328:ARG:NH2	2.62	0.62
1:K:44:TRP:C	1:K:45:LEU:HD22	2.20	0.62
1:L:44:TRP:C	1:L:45:LEU:HD22	2.20	0.62
1:C:413:LYS:HA	1:C:416:ALA:CB	2.28	0.62
1:D:44:TRP:C	1:D:45:LEU:HD22	2.20	0.62
1:E:66:LYS:HZ3	1:E:420:VAL:CG2	2.12	0.62
1:F:349:PRO:HB2	1:F:351:PHE:CE2	2.35	0.62
1:G:349:PRO:HB2	1:G:351:PHE:CE2	2.35	0.62
1:H:410:SER:O	1:H:414:GLU:HG2	2.00	0.62
1:I:44:TRP:C	1:I:45:LEU:HD22	2.20	0.62
1:K:410:SER:O	1:K:414:GLU:HG2	2.00	0.62
1:L:24:GLU:C	1:L:26:ARG:H	2.01	0.62
1:L:282:THR:HG23	1:L:287:LEU:HD11	1.81	0.62
1:A:166:ASP:CG	1:A:168:SER:HB3	2.19	0.62
1:A:306:GLU:O	1:A:316:TYR:HA	1.99	0.62
1:B:44:TRP:C	1:B:45:LEU:HD22	2.20	0.62
1:J:166:ASP:CG	1:J:168:SER:HB3	2.19	0.62
1:J:282:THR:HG23	1:J:287:LEU:HD11	1.81	0.62
1:L:158:TRP:HB3	1:L:173:CYS:CA	2.30	0.62
1:A:282:THR:HG23	1:A:287:LEU:HD11	1.81	0.62
1:A:44:TRP:C	1:A:45:LEU:HD22	2.20	0.62
1:B:603:GLN:O	1:B:607:ALA:N	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:248:LYS:NZ	1:D:251:ILE:HD12	2.14	0.62
1:D:303:VAL:HA	1:D:439:ASN:ND2	2.14	0.62
1:D:349:PRO:HB2	1:D:351:PHE:CE2	2.35	0.62
1:E:282:THR:HG23	1:E:287:LEU:HD11	1.81	0.62
1:G:158:TRP:HB3	1:G:173:CYS:CA	2.30	0.62
1:G:400:ALA:CB	1:H:395:PRO:HB2	2.29	0.62
1:G:5:GLU:HG2	1:G:6:ASN:N	2.15	0.62
1:H:248:LYS:NZ	1:H:251:ILE:HD12	2.14	0.62
1:J:24:GLU:C	1:J:26:ARG:H	2.01	0.62
1:J:5:GLU:HG2	1:J:6:ASN:N	2.15	0.62
1:B:158:TRP:HB3	1:B:173:CYS:CA	2.30	0.62
1:B:24:GLU:C	1:B:26:ARG:H	2.01	0.62
1:C:457:MET:O	1:C:457:MET:HG3	2.00	0.62
1:H:158:TRP:HB3	1:H:173:CYS:CA	2.30	0.62
1:H:603:GLN:O	1:H:607:ALA:N	2.31	0.62
1:J:138:THR:H	1:J:143:VAL:CG2	2.10	0.62
1:D:101:ASP:HB3	1:D:143:VAL:HG13	1.82	0.62
1:E:158:TRP:HB3	1:E:173:CYS:CA	2.30	0.62
1:G:511:ARG:HA	1:G:513:ARG:CD	2.28	0.62
1:H:306:GLU:O	1:H:316:TYR:HA	1.99	0.62
1:H:37:ARG:HH21	1:H:37:ARG:CB	2.11	0.62
1:I:349:PRO:HB2	1:I:351:PHE:CE2	2.35	0.62
1:I:309:PHE:HB2	1:J:150:HIS:ND1	2.15	0.62
1:J:123:VAL:HG21	1:J:153:CYS:HB3	1.82	0.62
1:K:370:PRO:HB2	1:K:371:TYR:CD1	2.35	0.62
1:J:306:GLU:OE2	1:K:65:ARG:HG2	2.00	0.62
1:B:230:GLU:HG3	1:B:231:THR:N	2.15	0.61
1:A:352:TRP:CD1	1:B:374:LEU:O	2.52	0.61
1:C:230:GLU:HG3	1:C:231:THR:N	2.15	0.61
1:C:370:PRO:HB2	1:C:371:TYR:CD1	2.35	0.61
1:C:41:TRP:HE3	1:C:42:ASP:O	1.82	0.61
1:C:5:GLU:HG2	1:C:6:ASN:N	2.15	0.61
1:E:123:VAL:HG21	1:E:153:CYS:HB3	1.82	0.61
1:E:410:SER:O	1:E:414:GLU:HG2	2.00	0.61
1:E:603:GLN:O	1:E:607:ALA:N	2.31	0.61
1:H:370:PRO:HB2	1:H:371:TYR:CD1	2.35	0.61
1:J:158:TRP:HB3	1:J:173:CYS:CA	2.30	0.61
1:K:101:ASP:HB3	1:K:143:VAL:HG13	1.82	0.61
1:K:349:PRO:HB2	1:K:351:PHE:CE2	2.35	0.61
1:A:349:PRO:HB2	1:A:351:PHE:CE2	2.35	0.61
1:A:370:PRO:HB2	1:A:371:TYR:CD1	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:349:PRO:HB2	1:B:351:PHE:CE2	2.35	0.61
1:D:410:SER:O	1:D:414:GLU:HG2	2.00	0.61
1:E:5:GLU:HG2	1:E:6:ASN:N	2.15	0.61
1:G:282:THR:HG23	1:G:287:LEU:HD11	1.81	0.61
1:G:400:ALA:HB3	1:H:395:PRO:HB2	1.80	0.61
1:G:457:MET:O	1:G:457:MET:HG3	2.00	0.61
1:I:457:MET:HG3	1:I:457:MET:O	2.00	0.61
1:J:230:GLU:HG3	1:J:231:THR:N	2.15	0.61
1:J:349:PRO:HB2	1:J:351:PHE:CE2	2.35	0.61
1:J:44:TRP:C	1:J:45:LEU:HD22	2.20	0.61
1:L:457:MET:HG3	1:L:457:MET:O	2.00	0.61
1:B:370:PRO:HB2	1:B:371:TYR:CD1	2.35	0.61
1:C:123:VAL:HG21	1:C:153:CYS:HB3	1.83	0.61
1:C:349:PRO:HB2	1:C:351:PHE:CE2	2.35	0.61
1:D:586:THR:N	1:D:587:PRO:HD3	2.16	0.61
1:D:5:GLU:HG2	1:D:6:ASN:N	2.15	0.61
1:E:248:LYS:NZ	1:E:251:ILE:HD12	2.14	0.61
1:E:303:VAL:HA	1:E:439:ASN:ND2	2.14	0.61
1:F:37:ARG:HH21	1:F:37:ARG:CB	2.11	0.61
1:H:230:GLU:HG3	1:H:231:THR:N	2.15	0.61
1:I:370:PRO:HB2	1:I:371:TYR:CD1	2.35	0.61
1:B:123:VAL:HG21	1:B:153:CYS:HB3	1.82	0.61
1:B:41:TRP:CD2	1:B:42:ASP:N	2.69	0.61
1:C:44:TRP:C	1:C:45:LEU:HD22	2.20	0.61
1:C:511:ARG:HA	1:C:513:ARG:CD	2.28	0.61
1:D:457:MET:O	1:D:457:MET:HG3	2.00	0.61
1:D:66:LYS:HZ3	1:D:420:VAL:CG2	2.13	0.61
1:E:230:GLU:HG3	1:E:231:THR:N	2.15	0.61
1:F:123:VAL:HG21	1:F:153:CYS:HB3	1.82	0.61
1:F:230:GLU:HG3	1:F:231:THR:N	2.15	0.61
1:F:410:SER:O	1:F:414:GLU:HG2	2.00	0.61
1:G:306:GLU:O	1:G:316:TYR:HA	1.99	0.61
1:G:41:TRP:HE3	1:G:42:ASP:O	1.82	0.61
1:H:5:GLU:HG2	1:H:6:ASN:N	2.15	0.61
1:K:66:LYS:HZ3	1:K:420:VAL:CG2	2.12	0.61
1:L:123:VAL:HG21	1:L:153:CYS:HB3	1.82	0.61
1:L:248:LYS:HZ2	1:L:251:ILE:HD12	1.66	0.61
1:L:586:THR:N	1:L:587:PRO:HD3	2.16	0.61
1:B:273:ARG:O	1:B:274:ARG:CB	2.49	0.61
1:B:282:THR:HG23	1:B:287:LEU:HD11	1.81	0.61
1:E:370:PRO:HB2	1:E:371:TYR:CD1	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:586:THR:N	1:E:587:PRO:HD3	2.16	0.61
1:F:457:MET:O	1:F:457:MET:HG3	2.00	0.61
1:F:511:ARG:HA	1:F:513:ARG:CD	2.28	0.61
1:G:410:SER:O	1:G:414:GLU:HG2	2.00	0.61
1:H:101:ASP:HB3	1:H:143:VAL:HG13	1.82	0.61
1:K:158:TRP:HB3	1:K:173:CYS:CA	2.30	0.61
1:K:41:TRP:HE3	1:K:42:ASP:O	1.82	0.61
1:L:5:GLU:HG2	1:L:6:ASN:N	2.15	0.61
1:A:34:PHE:CZ	1:A:328:ARG:NH2	2.62	0.61
1:B:457:MET:O	1:B:457:MET:HG3	2.00	0.61
1:E:89:ASP:HA	1:F:561:ASP:CB	2.29	0.61
1:G:230:GLU:HG3	1:G:231:THR:N	2.15	0.61
1:H:101:ASP:OD1	1:H:138:THR:HG21	2.01	0.61
1:H:66:LYS:HZ3	1:H:420:VAL:HG11	1.63	0.61
1:I:273:ARG:O	1:I:274:ARG:CB	2.49	0.61
1:I:586:THR:N	1:I:587:PRO:HD3	2.16	0.61
1:J:41:TRP:CD2	1:J:42:ASP:N	2.69	0.61
1:K:41:TRP:CD2	1:K:42:ASP:N	2.69	0.61
1:A:457:MET:O	1:A:457:MET:HG3	2.00	0.61
1:A:56:GLN:N	1:L:325:ASP:OD2	2.34	0.61
1:B:101:ASP:OD1	1:B:138:THR:HG21	2.01	0.61
1:A:306:GLU:OE2	1:B:65:ARG:HG2	2.00	0.61
1:C:398:PRO:HB3	1:D:395:PRO:HD2	1.83	0.61
1:C:41:TRP:CD2	1:C:42:ASP:N	2.69	0.61
1:C:586:THR:N	1:C:587:PRO:HD3	2.16	0.61
1:D:123:VAL:HG21	1:D:153:CYS:HB3	1.82	0.61
1:F:306:GLU:O	1:F:316:TYR:HA	1.99	0.61
1:G:123:VAL:HG21	1:G:153:CYS:HB3	1.82	0.61
1:G:603:GLN:O	1:G:607:ALA:N	2.31	0.61
1:I:41:TRP:CD2	1:I:42:ASP:N	2.69	0.61
1:J:101:ASP:HB3	1:J:143:VAL:HG13	1.82	0.61
1:J:101:ASP:OD1	1:J:138:THR:HG21	2.01	0.61
1:J:410:SER:O	1:J:414:GLU:HG2	2.00	0.61
1:K:24:GLU:C	1:K:26:ARG:H	2.01	0.61
1:L:349:PRO:HB2	1:L:351:PHE:CE2	2.35	0.61
1:L:410:SER:O	1:L:414:GLU:HG2	2.00	0.61
1:B:410:SER:O	1:B:414:GLU:HG2	2.00	0.61
1:C:37:ARG:CB	1:C:37:ARG:HH21	2.10	0.61
1:C:546:THR:HG23	1:C:547:PRO:CD	2.29	0.61
1:D:309:PHE:HB2	1:E:150:HIS:CB	2.30	0.61
1:F:370:PRO:HB2	1:F:371:TYR:CD1	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:101:ASP:OD1	1:G:138:THR:HG21	2.01	0.61
1:G:44:TRP:C	1:G:45:LEU:HD22	2.20	0.61
1:H:532:ARG:HH22	1:H:560:LEU:HD12	1.66	0.61
1:I:230:GLU:HG3	1:I:231:THR:N	2.15	0.61
1:I:532:ARG:HH22	1:I:560:LEU:HD12	1.66	0.61
1:J:586:THR:N	1:J:587:PRO:HD3	2.16	0.61
1:K:273:ARG:O	1:K:274:ARG:CB	2.49	0.61
1:A:41:TRP:CD2	1:A:42:ASP:N	2.69	0.61
1:A:5:GLU:HG2	1:A:6:ASN:N	2.15	0.61
1:D:370:PRO:HB2	1:D:371:TYR:CD1	2.35	0.61
1:D:401:ASN:CG	1:E:341:VAL:HG13	2.22	0.61
1:E:457:MET:HG3	1:E:457:MET:O	2.00	0.61
1:E:511:ARG:HA	1:E:513:ARG:CD	2.28	0.61
1:H:273:ARG:O	1:H:274:ARG:CB	2.49	0.61
1:H:282:THR:HG23	1:H:287:LEU:HD11	1.81	0.61
1:H:44:TRP:C	1:H:45:LEU:HD22	2.20	0.61
1:H:457:MET:O	1:H:457:MET:HG3	2.00	0.61
1:H:586:THR:N	1:H:587:PRO:HD3	2.16	0.61
1:I:158:TRP:HB3	1:I:173:CYS:CA	2.30	0.61
1:L:370:PRO:HB2	1:L:371:TYR:CD1	2.35	0.61
1:L:532:ARG:HH22	1:L:560:LEU:HD12	1.66	0.61
1:A:66:LYS:HZ1	1:A:420:VAL:HG11	1.64	0.61
1:C:101:ASP:HB3	1:C:143:VAL:HG13	1.83	0.61
1:C:273:ARG:O	1:C:274:ARG:CB	2.49	0.61
1:C:322:LEU:HD11	1:D:58:ASP:OD2	1.96	0.61
1:E:101:ASP:OD1	1:E:138:THR:HG21	2.01	0.61
1:E:349:PRO:HB2	1:E:351:PHE:CE2	2.35	0.61
1:K:539:LEU:HD21	1:K:551:LEU:HB3	1.83	0.61
1:L:101:ASP:HB3	1:L:143:VAL:HG13	1.83	0.61
1:B:138:THR:H	1:B:143:VAL:CG2	2.10	0.60
1:C:282:THR:HG23	1:C:287:LEU:HD11	1.81	0.60
1:D:532:ARG:HH22	1:D:560:LEU:HD12	1.66	0.60
1:E:350:PHE:HE1	1:F:363:TYR:HE1	1.48	0.60
1:F:539:LEU:HD21	1:F:551:LEU:HB3	1.83	0.60
1:G:586:THR:N	1:G:587:PRO:HD3	2.16	0.60
1:K:123:VAL:HG21	1:K:153:CYS:HB3	1.82	0.60
1:A:158:TRP:HB3	1:A:173:CYS:CA	2.30	0.60
1:E:101:ASP:HB3	1:E:143:VAL:HG13	1.82	0.60
1:E:532:ARG:HH22	1:E:560:LEU:HD12	1.66	0.60
1:D:82:PRO:CG	1:E:560:LEU:HD22	2.22	0.60
1:F:101:ASP:OD1	1:F:138:THR:HG21	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:5:GLU:HG2	1:F:6:ASN:N	2.15	0.60
1:H:349:PRO:HB2	1:H:351:PHE:CE2	2.35	0.60
1:J:370:PRO:HB2	1:J:371:TYR:CD1	2.35	0.60
1:A:101:ASP:HB3	1:A:143:VAL:HG13	1.82	0.60
1:A:586:THR:N	1:A:587:PRO:HD3	2.16	0.60
1:B:539:LEU:HD21	1:B:551:LEU:HB3	1.83	0.60
1:B:5:GLU:HG2	1:B:6:ASN:N	2.15	0.60
1:C:350:PHE:HE1	1:D:363:TYR:HE1	1.49	0.60
1:G:273:ARG:O	1:G:274:ARG:CB	2.49	0.60
1:G:539:LEU:HD21	1:G:551:LEU:HB3	1.83	0.60
1:H:539:LEU:HD21	1:H:551:LEU:HB3	1.83	0.60
1:I:5:GLU:HG2	1:I:6:ASN:N	2.15	0.60
1:L:41:TRP:CD2	1:L:42:ASP:N	2.69	0.60
1:A:532:ARG:HH22	1:A:560:LEU:HD12	1.66	0.60
1:B:101:ASP:HB3	1:B:143:VAL:HG13	1.82	0.60
1:F:41:TRP:CD2	1:F:42:ASP:N	2.69	0.60
1:F:350:PHE:HE1	1:G:363:TYR:HE1	1.50	0.60
1:G:370:PRO:HB2	1:G:371:TYR:CD1	2.35	0.60
1:H:41:TRP:CD2	1:H:42:ASP:N	2.69	0.60
1:H:511:ARG:HA	1:H:513:ARG:CD	2.28	0.60
1:I:101:ASP:OD1	1:I:138:THR:HG21	2.01	0.60
1:I:410:SER:O	1:I:414:GLU:HG2	2.00	0.60
1:J:457:MET:HG3	1:J:457:MET:O	2.00	0.60
1:K:230:GLU:HG3	1:K:231:THR:N	2.15	0.60
1:K:586:THR:N	1:K:587:PRO:HD3	2.16	0.60
1:K:5:GLU:HG2	1:K:6:ASN:N	2.15	0.60
1:L:602:GLY:O	1:L:606:PRO:CB	2.50	0.60
1:B:41:TRP:HE3	1:B:42:ASP:O	1.82	0.60
1:D:101:ASP:OD1	1:D:138:THR:HG21	2.01	0.60
1:E:273:ARG:O	1:E:274:ARG:CB	2.49	0.60
1:E:44:TRP:O	1:E:45:LEU:HD13	2.02	0.60
1:F:101:ASP:HB3	1:F:143:VAL:HG13	1.82	0.60
1:F:273:ARG:O	1:F:274:ARG:CB	2.49	0.60
1:I:546:THR:HG23	1:I:547:PRO:CD	2.29	0.60
1:K:457:MET:HG3	1:K:457:MET:O	2.00	0.60
1:A:230:GLU:HG3	1:A:231:THR:N	2.15	0.60
1:B:602:GLY:O	1:B:606:PRO:CB	2.50	0.60
1:G:41:TRP:CD2	1:G:42:ASP:N	2.69	0.60
1:H:44:TRP:O	1:H:45:LEU:HD13	2.02	0.60
1:I:34:PHE:CZ	1:I:328:ARG:NH2	2.62	0.60
1:J:532:ARG:HH22	1:J:560:LEU:HD12	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:602:GLY:O	1:K:606:PRO:CB	2.50	0.60
1:L:230:GLU:HG3	1:L:231:THR:N	2.15	0.60
1:L:273:ARG:O	1:L:274:ARG:CB	2.49	0.60
1:A:101:ASP:OD1	1:A:138:THR:HG21	2.01	0.60
1:C:158:TRP:HD1	1:C:158:TRP:H	1.50	0.60
1:C:539:LEU:HD21	1:C:551:LEU:HB3	1.83	0.60
1:D:44:TRP:O	1:D:45:LEU:HD13	2.02	0.60
1:E:138:THR:H	1:E:143:VAL:CG2	2.10	0.60
1:F:586:THR:N	1:F:587:PRO:HD3	2.16	0.60
1:G:138:THR:H	1:G:143:VAL:CG2	2.10	0.60
1:H:602:GLY:O	1:H:606:PRO:CB	2.50	0.60
1:I:434:THR:HG21	1:J:72:ARG:CG	2.30	0.60
1:I:44:TRP:O	1:I:45:LEU:HD13	2.02	0.60
1:I:539:LEU:HD21	1:I:551:LEU:HB3	1.83	0.60
1:J:273:ARG:O	1:J:274:ARG:CB	2.49	0.60
1:A:109:ILE:HG21	1:L:164:LEU:HB2	1.83	0.60
1:L:328:ARG:HA	1:L:331:ASN:HD22	1.67	0.60
1:A:44:TRP:O	1:A:45:LEU:HD13	2.02	0.60
1:D:41:TRP:CD2	1:D:42:ASP:N	2.69	0.60
1:E:328:ARG:HA	1:E:331:ASN:HD22	1.67	0.60
1:E:602:GLY:O	1:E:606:PRO:CB	2.50	0.60
1:G:158:TRP:HD1	1:G:158:TRP:H	1.50	0.60
1:I:123:VAL:HG21	1:I:153:CYS:HB3	1.82	0.60
1:J:602:GLY:O	1:J:606:PRO:CB	2.50	0.60
1:J:398:PRO:HB3	1:K:395:PRO:HD2	1.84	0.60
1:B:546:THR:HG23	1:B:547:PRO:CD	2.29	0.60
1:C:602:GLY:O	1:C:606:PRO:CB	2.50	0.60
1:D:230:GLU:HG3	1:D:231:THR:N	2.15	0.60
1:D:539:LEU:HD21	1:D:551:LEU:HB3	1.83	0.60
1:G:101:ASP:HB3	1:G:143:VAL:HG13	1.82	0.60
1:I:602:GLY:O	1:I:606:PRO:CB	2.50	0.60
1:K:158:TRP:HD1	1:K:158:TRP:H	1.50	0.60
1:L:101:ASP:OD1	1:L:138:THR:HG21	2.01	0.60
1:L:138:THR:H	1:L:143:VAL:CG2	2.10	0.60
1:L:158:TRP:H	1:L:158:TRP:HD1	1.50	0.60
1:L:255:ILE:O	1:L:257:ASP:N	2.35	0.60
1:A:273:ARG:O	1:A:274:ARG:CB	2.49	0.60
1:D:602:GLY:O	1:D:606:PRO:CB	2.50	0.60
1:E:166:ASP:OD1	1:E:168:SER:HB3	2.02	0.60
1:E:539:LEU:HD21	1:E:551:LEU:HB3	1.83	0.60
1:F:328:ARG:HA	1:F:331:ASN:HD22	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:41:TRP:HE3	1:F:42:ASP:O	1.82	0.60
1:G:44:TRP:O	1:G:45:LEU:HD13	2.02	0.60
1:I:328:ARG:HA	1:I:331:ASN:HD22	1.67	0.60
1:A:255:ILE:O	1:A:257:ASP:N	2.35	0.59
1:A:602:GLY:O	1:A:606:PRO:CB	2.50	0.59
1:C:101:ASP:OD1	1:C:138:THR:HG21	2.01	0.59
1:C:571:TYR:CZ	1:C:575:GLN:HG3	2.37	0.59
1:D:273:ARG:O	1:D:274:ARG:CB	2.49	0.59
1:D:41:TRP:HE3	1:D:42:ASP:O	1.82	0.59
1:F:602:GLY:O	1:F:606:PRO:CB	2.50	0.59
1:G:166:ASP:OD1	1:G:168:SER:HB3	2.02	0.59
1:H:123:VAL:HG21	1:H:153:CYS:HB3	1.82	0.59
1:I:273:ARG:O	1:I:274:ARG:HB2	2.02	0.59
1:J:571:TYR:CZ	1:J:575:GLN:HG3	2.37	0.59
1:K:101:ASP:OD1	1:K:138:THR:HG21	2.01	0.59
1:K:138:THR:H	1:K:143:VAL:CG2	2.10	0.59
1:A:328:ARG:HA	1:A:331:ASN:HD22	1.67	0.59
1:A:410:SER:O	1:A:414:GLU:HG2	2.00	0.59
1:B:571:TYR:CZ	1:B:575:GLN:HG3	2.38	0.59
1:B:586:THR:N	1:B:587:PRO:HD3	2.16	0.59
1:E:34:PHE:CZ	1:E:328:ARG:NH2	2.62	0.59
1:H:165:MET:HG3	1:H:307:TRP:CE3	2.37	0.59
1:H:273:ARG:O	1:H:274:ARG:HB2	2.02	0.59
1:I:101:ASP:HB3	1:I:143:VAL:HG13	1.82	0.59
1:J:539:LEU:HD21	1:J:551:LEU:HB3	1.83	0.59
1:K:255:ILE:O	1:K:257:ASP:N	2.35	0.59
1:K:273:ARG:O	1:K:274:ARG:HB2	2.02	0.59
1:C:165:MET:HG3	1:C:307:TRP:CE3	2.38	0.59
1:E:255:ILE:O	1:E:257:ASP:N	2.35	0.59
1:I:571:TYR:CZ	1:I:575:GLN:HG3	2.37	0.59
1:K:532:ARG:HH22	1:K:560:LEU:HD12	1.66	0.59
1:K:603:GLN:O	1:K:607:ALA:N	2.31	0.59
1:L:44:TRP:O	1:L:45:LEU:HD13	2.02	0.59
1:D:165:MET:HG3	1:D:307:TRP:CE3	2.37	0.59
1:D:571:TYR:CZ	1:D:575:GLN:HG3	2.37	0.59
1:G:328:ARG:HA	1:G:331:ASN:HD22	1.67	0.59
1:F:350:PHE:HA	1:G:372:TYR:O	2.02	0.59
1:G:92:ASP:HB3	1:H:561:ASP:OD2	2.02	0.59
1:K:571:TYR:CZ	1:K:575:GLN:HG3	2.38	0.59
1:L:118:GLN:NE2	1:L:303:VAL:HB	2.18	0.59
1:L:166:ASP:OD1	1:L:168:SER:HB3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:166:ASP:OD1	1:A:168:SER:HB3	2.02	0.59
1:B:66:LYS:HZ3	1:B:420:VAL:CG1	2.14	0.59
1:C:328:ARG:HA	1:C:331:ASN:HD22	1.67	0.59
1:D:158:TRP:HB3	1:D:173:CYS:CA	2.30	0.59
1:D:255:ILE:O	1:D:257:ASP:N	2.35	0.59
1:F:166:ASP:OD1	1:F:168:SER:HB3	2.02	0.59
1:F:118:GLN:NE2	1:F:303:VAL:HB	2.18	0.59
1:H:328:ARG:HA	1:H:331:ASN:HD22	1.67	0.59
1:I:165:MET:HG3	1:I:307:TRP:CE3	2.38	0.59
1:I:255:ILE:O	1:I:257:ASP:N	2.35	0.59
1:K:165:MET:HG3	1:K:307:TRP:CE3	2.38	0.59
1:K:27:ARG:CZ	1:L:211:TRP:HB3	2.32	0.59
1:A:546:THR:HG23	1:A:547:PRO:CD	2.29	0.59
1:B:328:ARG:HA	1:B:331:ASN:HD22	1.67	0.59
1:D:328:ARG:HA	1:D:331:ASN:HD22	1.67	0.59
1:E:118:GLN:NE2	1:E:303:VAL:HB	2.18	0.59
1:F:27:ARG:HB2	1:F:313:LYS:HE3	1.85	0.59
1:E:411:ALA:HB1	1:F:57:PHE:HD1	1.66	0.59
1:J:426:ASN:O	1:J:427:GLY:C	2.41	0.59
1:L:571:TYR:CZ	1:L:575:GLN:HG3	2.38	0.59
1:B:27:ARG:HB2	1:B:313:LYS:HE3	1.85	0.59
1:B:66:LYS:HZ3	1:B:420:VAL:CG2	2.15	0.59
1:C:118:GLN:NE2	1:C:303:VAL:HB	2.18	0.59
1:E:165:MET:HG3	1:E:307:TRP:CE3	2.38	0.59
1:E:27:ARG:HB2	1:E:313:LYS:HE3	1.85	0.59
1:F:44:TRP:O	1:F:45:LEU:HD13	2.02	0.59
1:G:255:ILE:O	1:G:257:ASP:N	2.35	0.59
1:K:166:ASP:OD1	1:K:168:SER:HB3	2.02	0.59
1:L:27:ARG:HB2	1:L:313:LYS:HE3	1.85	0.59
1:A:123:VAL:HG21	1:A:153:CYS:HB3	1.82	0.59
1:A:158:TRP:HD1	1:A:158:TRP:H	1.50	0.59
1:A:539:LEU:HD21	1:A:551:LEU:HB3	1.83	0.59
1:B:138:THR:OG1	1:B:143:VAL:HA	2.03	0.59
1:B:165:MET:HG3	1:B:307:TRP:CE3	2.38	0.59
1:C:273:ARG:O	1:C:274:ARG:HB2	2.02	0.59
1:D:273:ARG:O	1:D:274:ARG:HB2	2.02	0.59
1:D:118:GLN:NE2	1:D:303:VAL:HB	2.18	0.59
1:E:41:TRP:HE3	1:E:42:ASP:O	1.82	0.59
1:F:571:TYR:CZ	1:F:575:GLN:HG3	2.38	0.59
1:G:138:THR:OG1	1:G:143:VAL:HA	2.03	0.59
1:G:426:ASN:O	1:G:427:GLY:C	2.41	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:532:ARG:HH22	1:G:560:LEU:HD12	1.66	0.59
1:G:571:TYR:CZ	1:G:575:GLN:HG3	2.37	0.59
1:G:602:GLY:O	1:G:606:PRO:CB	2.50	0.59
1:H:322:LEU:HD11	1:I:58:ASP:OD2	1.96	0.59
1:J:255:ILE:O	1:J:257:ASP:N	2.35	0.59
1:J:118:GLN:NE2	1:J:303:VAL:HB	2.18	0.59
1:K:27:ARG:HB2	1:K:313:LYS:HE3	1.85	0.59
1:B:166:ASP:OD1	1:B:168:SER:HB3	2.02	0.59
1:B:255:ILE:O	1:B:257:ASP:N	2.35	0.59
1:D:158:TRP:H	1:D:158:TRP:HD1	1.50	0.59
1:C:352:TRP:HD1	1:D:374:LEU:O	1.86	0.59
1:E:41:TRP:CD2	1:E:42:ASP:N	2.69	0.59
1:F:138:THR:OG1	1:F:143:VAL:HA	2.03	0.59
1:F:255:ILE:O	1:F:257:ASP:N	2.35	0.59
1:F:426:ASN:O	1:F:427:GLY:C	2.41	0.59
1:J:165:MET:HG3	1:J:307:TRP:CE3	2.38	0.59
1:K:44:TRP:O	1:K:45:LEU:HD13	2.02	0.59
1:B:532:ARG:HH22	1:B:560:LEU:HD12	1.66	0.59
1:C:166:ASP:OD1	1:C:168:SER:HB3	2.02	0.59
1:C:553:LEU:HB2	1:C:576:LEU:HD21	1.85	0.59
1:E:231:THR:HG23	1:E:249:ARG:HE	1.68	0.59
1:H:138:THR:H	1:H:143:VAL:CG2	2.10	0.59
1:H:255:ILE:O	1:H:257:ASP:N	2.35	0.59
1:H:118:GLN:NE2	1:H:303:VAL:HB	2.18	0.59
1:H:27:ARG:HB2	1:H:313:LYS:HE3	1.85	0.59
1:J:44:TRP:O	1:J:45:LEU:HD13	2.02	0.59
1:K:118:GLN:NE2	1:K:303:VAL:HB	2.18	0.59
1:B:118:GLN:NE2	1:B:303:VAL:HB	2.18	0.58
1:B:426:ASN:O	1:B:427:GLY:C	2.41	0.58
1:C:255:ILE:O	1:C:257:ASP:N	2.35	0.58
1:F:273:ARG:O	1:F:274:ARG:HB2	2.02	0.58
1:F:532:ARG:HH22	1:F:560:LEU:HD12	1.66	0.58
1:I:138:THR:OG1	1:I:143:VAL:HA	2.03	0.58
1:I:166:ASP:OD1	1:I:168:SER:HB3	2.02	0.58
1:J:158:TRP:H	1:J:158:TRP:HD1	1.50	0.58
1:J:231:THR:HG23	1:J:249:ARG:HE	1.68	0.58
1:J:27:ARG:HB2	1:J:313:LYS:HE3	1.85	0.58
1:L:539:LEU:HD21	1:L:551:LEU:HB3	1.83	0.58
1:A:165:MET:HG3	1:A:307:TRP:CE3	2.38	0.58
1:D:347:LYS:HG3	1:D:392:TYR:O	2.04	0.58
1:E:400:ALA:CB	1:F:395:PRO:HB2	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:138:THR:OG1	1:H:143:VAL:HA	2.03	0.58
1:I:426:ASN:O	1:I:427:GLY:C	2.41	0.58
1:J:138:THR:OG1	1:J:143:VAL:HA	2.03	0.58
1:J:166:ASP:OD1	1:J:168:SER:HB3	2.02	0.58
1:J:347:LYS:HG3	1:J:392:TYR:O	2.04	0.58
1:J:41:TRP:HE3	1:J:42:ASP:O	1.82	0.58
1:K:347:LYS:HG3	1:K:392:TYR:O	2.04	0.58
1:L:426:ASN:O	1:L:427:GLY:C	2.41	0.58
1:A:118:GLN:NE2	1:A:303:VAL:HB	2.18	0.58
1:A:27:ARG:HD2	1:B:212:LEU:H	1.68	0.58
1:A:346:LYS:HG3	1:B:367:ASP:OD1	2.02	0.58
1:D:166:ASP:OD1	1:D:168:SER:HB3	2.02	0.58
1:D:231:THR:HG23	1:D:249:ARG:HE	1.68	0.58
1:G:27:ARG:HB2	1:G:313:LYS:HE3	1.85	0.58
1:H:158:TRP:H	1:H:158:TRP:HD1	1.50	0.58
1:H:166:ASP:OD1	1:H:168:SER:HB3	2.02	0.58
1:H:571:TYR:CZ	1:H:575:GLN:HG3	2.37	0.58
1:A:138:THR:OG1	1:A:143:VAL:HA	2.03	0.58
1:A:571:TYR:CZ	1:A:575:GLN:HG3	2.38	0.58
1:A:78:VAL:HG12	1:A:79:LEU:H	1.68	0.58
1:B:44:TRP:O	1:B:45:LEU:HD13	2.02	0.58
1:E:273:ARG:O	1:E:274:ARG:HB2	2.02	0.58
1:G:118:GLN:NE2	1:G:303:VAL:HB	2.18	0.58
1:G:347:LYS:HG3	1:G:392:TYR:O	2.04	0.58
1:H:411:ALA:HB1	1:I:57:PHE:CD1	2.36	0.58
1:K:328:ARG:HA	1:K:331:ASN:HD22	1.67	0.58
1:A:231:THR:HG23	1:A:249:ARG:HE	1.68	0.58
1:A:426:ASN:O	1:A:427:GLY:C	2.41	0.58
1:A:427:GLY:O	1:A:429:GLN:N	2.37	0.58
1:C:426:ASN:O	1:C:427:GLY:C	2.41	0.58
1:C:532:ARG:HH22	1:C:560:LEU:HD12	1.66	0.58
1:D:426:ASN:O	1:D:427:GLY:C	2.41	0.58
1:E:158:TRP:H	1:E:158:TRP:HD1	1.50	0.58
1:F:27:ARG:CZ	1:G:211:TRP:CB	2.80	0.58
1:G:165:MET:HG3	1:G:307:TRP:CE3	2.38	0.58
1:I:78:VAL:HG12	1:I:79:LEU:H	1.68	0.58
1:I:82:PRO:CG	1:J:560:LEU:HD22	2.21	0.58
1:K:231:THR:HG23	1:K:249:ARG:HE	1.68	0.58
1:K:37:ARG:HH21	1:K:37:ARG:CB	2.11	0.58
1:L:165:MET:HG3	1:L:307:TRP:CE3	2.38	0.58
1:B:270:GLN:O	1:B:271:ILE:HD13	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:27:ARG:HB2	1:C:313:LYS:HE3	1.85	0.58
1:C:44:TRP:O	1:C:45:LEU:HD13	2.02	0.58
1:D:270:GLN:O	1:D:271:ILE:HD13	2.04	0.58
1:D:78:VAL:HG12	1:D:79:LEU:H	1.68	0.58
1:E:571:TYR:CZ	1:E:575:GLN:HG3	2.38	0.58
1:F:165:MET:HG3	1:F:307:TRP:CE3	2.38	0.58
1:F:231:THR:HG23	1:F:249:ARG:HE	1.68	0.58
1:F:232:ALA:O	1:F:233:PHE:HB2	2.04	0.58
1:H:231:THR:HG23	1:H:249:ARG:HE	1.68	0.58
1:I:347:LYS:HG3	1:I:392:TYR:O	2.04	0.58
1:I:427:GLY:O	1:I:429:GLN:N	2.37	0.58
1:J:232:ALA:O	1:J:233:PHE:HB2	2.04	0.58
1:K:138:THR:OG1	1:K:143:VAL:HA	2.03	0.58
1:L:347:LYS:HG3	1:L:392:TYR:O	2.04	0.58
1:A:347:LYS:HG3	1:A:392:TYR:O	2.04	0.58
1:B:427:GLY:O	1:B:429:GLN:N	2.37	0.58
1:C:347:LYS:HG3	1:C:392:TYR:O	2.04	0.58
1:C:434:THR:HG21	1:D:72:ARG:HG2	1.85	0.58
1:E:270:GLN:O	1:E:271:ILE:HD13	2.04	0.58
1:F:158:TRP:H	1:F:158:TRP:HD1	1.50	0.58
1:G:427:GLY:O	1:G:429:GLN:N	2.37	0.58
1:H:270:GLN:O	1:H:271:ILE:HD13	2.04	0.58
1:H:347:LYS:HG3	1:H:392:TYR:O	2.04	0.58
1:J:328:ARG:HA	1:J:331:ASN:HD22	1.67	0.58
1:K:426:ASN:O	1:K:427:GLY:C	2.41	0.58
1:L:273:ARG:O	1:L:274:ARG:HB2	2.02	0.58
1:B:231:THR:HG23	1:B:249:ARG:HE	1.68	0.58
1:C:231:THR:HG23	1:C:249:ARG:HE	1.68	0.58
1:C:427:GLY:O	1:C:429:GLN:N	2.37	0.58
1:C:535:ILE:CD1	1:C:554:LEU:HG	2.34	0.58
1:D:27:ARG:HB2	1:D:313:LYS:HE3	1.85	0.58
1:F:347:LYS:HG3	1:F:392:TYR:O	2.04	0.58
1:H:28:GLU:HB2	1:H:313:LYS:HZ2	1.69	0.58
1:H:45:LEU:CD2	1:H:328:ARG:HH21	2.17	0.58
1:H:379:GLU:O	1:H:380:ASN:CB	2.52	0.58
1:H:535:ILE:CD1	1:H:554:LEU:HG	2.34	0.58
1:I:27:ARG:HB2	1:I:313:LYS:HE3	1.85	0.58
1:K:312:ASP:OD2	1:L:178:SER:HB2	2.04	0.58
1:K:553:LEU:HB2	1:K:576:LEU:HD21	1.85	0.58
1:L:270:GLN:O	1:L:271:ILE:HD13	2.04	0.58
1:L:553:LEU:HB2	1:L:576:LEU:HD21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:232:ALA:O	1:A:233:PHE:HB2	2.04	0.58
1:A:273:ARG:O	1:A:274:ARG:HB2	2.02	0.58
1:B:232:ALA:O	1:B:233:PHE:HB2	2.04	0.58
1:B:45:LEU:CD2	1:B:328:ARG:HH21	2.17	0.58
1:B:379:GLU:O	1:B:380:ASN:CB	2.52	0.58
1:C:216:THR:HB	1:C:218:GLN:OE1	2.04	0.58
1:D:138:THR:OG1	1:D:143:VAL:HA	2.03	0.58
1:D:379:GLU:O	1:D:380:ASN:CB	2.52	0.58
1:C:400:ALA:HB2	1:D:395:PRO:HB2	1.85	0.58
1:E:78:VAL:HG12	1:E:79:LEU:H	1.68	0.58
1:G:535:ILE:CD1	1:G:554:LEU:HG	2.34	0.58
1:H:354:GLU:OE2	1:I:376:ARG:NE	2.37	0.58
1:J:427:GLY:O	1:J:429:GLN:N	2.37	0.58
1:I:306:GLU:OE2	1:J:65:ARG:HG2	2.02	0.58
1:K:232:ALA:O	1:K:233:PHE:HB2	2.04	0.58
1:K:45:LEU:CD2	1:K:328:ARG:HH21	2.17	0.58
1:K:427:GLY:O	1:K:429:GLN:N	2.37	0.58
1:A:270:GLN:O	1:A:271:ILE:HD13	2.04	0.58
1:A:27:ARG:HB2	1:A:313:LYS:HE3	1.85	0.58
1:B:273:ARG:O	1:B:274:ARG:HB2	2.02	0.58
1:C:138:THR:OG1	1:C:143:VAL:HA	2.03	0.58
1:F:270:GLN:O	1:F:271:ILE:HD13	2.04	0.58
1:F:45:LEU:CD2	1:F:328:ARG:HH21	2.17	0.58
1:I:231:THR:HG23	1:I:249:ARG:HE	1.68	0.58
1:K:216:THR:HB	1:K:218:GLN:OE1	2.04	0.58
1:L:535:ILE:CD1	1:L:554:LEU:HG	2.34	0.58
1:B:248:LYS:HZ2	1:B:251:ILE:HD12	1.68	0.57
1:C:270:GLN:O	1:C:271:ILE:HD13	2.04	0.57
1:E:138:THR:OG1	1:E:143:VAL:HA	2.03	0.57
1:G:553:LEU:HB2	1:G:576:LEU:HD21	1.85	0.57
1:I:216:THR:HB	1:I:218:GLN:OE1	2.04	0.57
1:B:553:LEU:HB2	1:B:576:LEU:HD21	1.86	0.57
1:C:379:GLU:O	1:C:380:ASN:CB	2.52	0.57
1:E:232:ALA:O	1:E:233:PHE:HB2	2.04	0.57
1:E:535:ILE:CD1	1:E:554:LEU:HG	2.34	0.57
1:H:216:THR:HB	1:H:218:GLN:OE1	2.04	0.57
1:I:232:ALA:O	1:I:233:PHE:HB2	2.04	0.57
1:I:118:GLN:NE2	1:I:303:VAL:HB	2.18	0.57
1:J:270:GLN:O	1:J:271:ILE:HD13	2.04	0.57
1:J:45:LEU:CD2	1:J:328:ARG:HH21	2.17	0.57
1:J:78:VAL:HG12	1:J:79:LEU:H	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:78:VAL:HG12	1:L:79:LEU:H	1.68	0.57
1:B:209:PHE:HA	1:B:211:TRP:CE2	2.40	0.57
1:B:347:LYS:HG3	1:B:392:TYR:O	2.04	0.57
1:D:309:PHE:HB2	1:E:150:HIS:HB3	1.86	0.57
1:E:101:ASP:HB3	1:E:138:THR:HG21	1.87	0.57
1:D:27:ARG:CZ	1:E:211:TRP:HB3	2.34	0.57
1:D:352:TRP:HZ2	1:E:385:PRO:HG2	1.62	0.57
1:E:427:GLY:O	1:E:429:GLN:N	2.37	0.57
1:F:427:GLY:O	1:F:429:GLN:N	2.37	0.57
1:G:216:THR:HB	1:G:218:GLN:OE1	2.04	0.57
1:G:78:VAL:HG12	1:G:79:LEU:H	1.68	0.57
1:I:158:TRP:H	1:I:158:TRP:HD1	1.50	0.57
1:I:45:LEU:CD2	1:I:328:ARG:HH21	2.16	0.57
1:I:553:LEU:HB2	1:I:576:LEU:HD21	1.85	0.57
1:K:28:GLU:HB2	1:K:313:LYS:HZ2	1.68	0.57
1:K:535:ILE:CD1	1:K:554:LEU:HG	2.34	0.57
1:L:209:PHE:HA	1:L:211:TRP:CE2	2.40	0.57
1:A:216:THR:HB	1:A:218:GLN:OE1	2.04	0.57
1:B:554:LEU:HD22	1:C:567:MET:CE	2.35	0.57
1:F:553:LEU:HB2	1:F:576:LEU:HD21	1.86	0.57
1:G:422:THR:HG22	1:G:425:VAL:HG22	1.87	0.57
1:G:546:THR:HG23	1:G:547:PRO:CD	2.29	0.57
1:H:35:PHE:C	1:H:37:ARG:N	2.58	0.57
1:I:270:GLN:O	1:I:271:ILE:HD13	2.04	0.57
1:K:379:GLU:O	1:K:380:ASN:CB	2.52	0.57
1:K:422:THR:HG22	1:K:425:VAL:HG22	1.87	0.57
1:L:379:GLU:O	1:L:380:ASN:CB	2.52	0.57
1:L:66:LYS:HZ1	1:L:420:VAL:HG11	1.68	0.57
1:B:35:PHE:C	1:B:37:ARG:N	2.58	0.57
1:D:399:GLN:HB3	1:E:396:GLU:HA	1.87	0.57
1:E:209:PHE:HA	1:E:211:TRP:CE2	2.40	0.57
1:G:209:PHE:HA	1:G:211:TRP:CE2	2.40	0.57
1:G:273:ARG:O	1:G:274:ARG:HB2	2.02	0.57
1:H:553:LEU:HB2	1:H:576:LEU:HD21	1.85	0.57
1:J:535:ILE:CD1	1:J:554:LEU:HG	2.34	0.57
1:J:553:LEU:HB2	1:J:576:LEU:HD21	1.85	0.57
1:A:11:ILE:HD12	1:A:285:ALA:CA	2.31	0.57
1:A:35:PHE:C	1:A:37:ARG:N	2.58	0.57
1:B:248:LYS:HD2	1:B:248:LYS:H	1.70	0.57
1:C:45:LEU:CD2	1:C:328:ARG:HH21	2.17	0.57
1:C:35:PHE:C	1:C:37:ARG:N	2.58	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:35:PHE:C	1:D:37:ARG:N	2.58	0.57
1:F:92:ASP:HB3	1:G:561:ASP:OD2	2.05	0.57
1:I:209:PHE:HA	1:I:211:TRP:CE2	2.40	0.57
1:J:101:ASP:HB3	1:J:138:THR:HG21	1.87	0.57
1:J:246:TYR:HE2	1:J:512:GLY:N	2.03	0.57
1:L:231:THR:HG23	1:L:249:ARG:HE	1.68	0.57
1:L:248:LYS:HD2	1:L:248:LYS:H	1.70	0.57
1:A:535:ILE:CD1	1:A:554:LEU:HG	2.34	0.57
1:B:422:THR:HG22	1:B:425:VAL:HG22	1.87	0.57
1:D:101:ASP:HB3	1:D:138:THR:HG21	1.87	0.57
1:D:209:PHE:HA	1:D:211:TRP:CE2	2.40	0.57
1:E:347:LYS:HG3	1:E:392:TYR:O	2.04	0.57
1:E:634:ILE:HA	1:E:637:ALA:HB3	1.87	0.57
1:F:248:LYS:H	1:F:248:LYS:HD2	1.70	0.57
1:G:101:ASP:HB3	1:G:138:THR:HG21	1.87	0.57
1:H:232:ALA:O	1:H:233:PHE:HB2	2.04	0.57
1:H:427:GLY:O	1:H:429:GLN:N	2.37	0.57
1:K:440:MET:O	1:K:444:LEU:HD22	2.05	0.57
1:L:246:TYR:HE2	1:L:512:GLY:N	2.03	0.57
1:A:379:GLU:O	1:A:380:ASN:CB	2.52	0.57
1:A:634:ILE:HA	1:A:637:ALA:HB3	1.87	0.57
1:B:101:ASP:HB3	1:B:138:THR:HG21	1.87	0.57
1:B:78:VAL:HG12	1:B:79:LEU:H	1.68	0.57
1:C:248:LYS:H	1:C:248:LYS:HD2	1.70	0.57
1:E:426:ASN:O	1:E:427:GLY:C	2.41	0.57
1:F:216:THR:HB	1:F:218:GLN:OE1	2.04	0.57
1:F:35:PHE:C	1:F:37:ARG:N	2.58	0.57
1:F:535:ILE:CD1	1:F:554:LEU:HG	2.34	0.57
1:F:634:ILE:HA	1:F:637:ALA:HB3	1.87	0.57
1:G:634:ILE:HA	1:G:637:ALA:HB3	1.87	0.57
1:H:426:ASN:O	1:H:427:GLY:C	2.41	0.57
1:J:35:PHE:C	1:J:37:ARG:N	2.58	0.57
1:J:422:THR:HG22	1:J:425:VAL:HG22	1.87	0.57
1:K:248:LYS:HD2	1:K:248:LYS:H	1.70	0.57
1:L:232:ALA:O	1:L:233:PHE:HB2	2.04	0.57
1:L:35:PHE:C	1:L:37:ARG:N	2.58	0.57
1:B:216:THR:HB	1:B:218:GLN:OE1	2.04	0.57
1:B:535:ILE:CD1	1:B:554:LEU:HG	2.34	0.57
1:B:634:ILE:HA	1:B:637:ALA:HB3	1.87	0.57
1:B:643:ASN:O	1:B:647:ALA:N	2.36	0.57
1:C:78:VAL:HG12	1:C:79:LEU:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:353:PRO:HD3	1:E:374:LEU:O	2.04	0.57
1:D:634:ILE:HA	1:D:637:ALA:HB3	1.87	0.57
1:E:440:MET:O	1:E:444:LEU:HD22	2.05	0.57
1:F:78:VAL:HG12	1:F:79:LEU:H	1.68	0.57
1:G:35:PHE:C	1:G:37:ARG:N	2.58	0.57
1:G:539:LEU:HD21	1:G:551:LEU:CB	2.35	0.57
1:H:101:ASP:HB3	1:H:138:THR:HG21	1.87	0.57
1:I:82:PRO:HD2	1:J:560:LEU:CD1	2.18	0.57
1:J:248:LYS:H	1:J:248:LYS:HD2	1.70	0.57
1:J:273:ARG:O	1:J:274:ARG:HB2	2.02	0.57
1:J:440:MET:O	1:J:444:LEU:HD22	2.05	0.57
1:K:634:ILE:HA	1:K:637:ALA:HB3	1.87	0.57
1:L:138:THR:OG1	1:L:143:VAL:HA	2.03	0.57
1:L:427:GLY:O	1:L:429:GLN:N	2.37	0.57
1:A:564:GLY:HA2	1:L:554:LEU:HD21	1.86	0.57
1:B:246:TYR:HE2	1:B:512:GLY:N	2.03	0.57
1:A:345:PRO:HB3	1:B:372:TYR:OH	2.05	0.57
1:D:232:ALA:O	1:D:233:PHE:HB2	2.04	0.57
1:E:216:THR:HB	1:E:218:GLN:OE1	2.04	0.57
1:F:246:TYR:HE2	1:F:512:GLY:N	2.03	0.57
1:G:231:THR:HG23	1:G:249:ARG:HE	1.68	0.57
1:G:66:LYS:HZ3	1:G:420:VAL:HG11	1.69	0.57
1:H:78:VAL:HG12	1:H:79:LEU:H	1.68	0.57
1:I:246:TYR:HE2	1:I:512:GLY:N	2.03	0.57
1:J:216:THR:HB	1:J:218:GLN:OE1	2.04	0.57
1:J:539:LEU:HD21	1:J:551:LEU:CB	2.35	0.57
1:K:101:ASP:HB3	1:K:138:THR:HG21	1.87	0.57
1:K:246:TYR:HE2	1:K:512:GLY:N	2.03	0.57
1:L:440:MET:O	1:L:444:LEU:HD22	2.05	0.57
1:L:546:THR:HG23	1:L:547:PRO:CD	2.29	0.57
1:A:101:ASP:HB3	1:A:138:THR:HG21	1.87	0.56
1:A:561:ASP:OD2	1:L:92:ASP:CB	2.47	0.56
1:A:84:ASP:OD1	1:B:526:SER:HB2	2.05	0.56
1:C:539:LEU:HD21	1:C:551:LEU:CB	2.35	0.56
1:D:28:GLU:HB2	1:D:313:LYS:HZ2	1.70	0.56
1:D:535:ILE:CD1	1:D:554:LEU:HG	2.34	0.56
1:F:546:THR:HG23	1:F:547:PRO:CD	2.29	0.56
1:G:248:LYS:HD2	1:G:248:LYS:H	1.70	0.56
1:H:209:PHE:HA	1:H:211:TRP:CE2	2.40	0.56
1:H:411:ALA:CB	1:I:57:PHE:CD1	2.88	0.56
1:H:440:MET:O	1:H:444:LEU:HD22	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:440:MET:O	1:I:444:LEU:HD22	2.05	0.56
1:I:539:LEU:HD21	1:I:551:LEU:CB	2.35	0.56
1:K:270:GLN:O	1:K:271:ILE:HD13	2.04	0.56
1:L:634:ILE:HA	1:L:637:ALA:HB3	1.87	0.56
1:A:553:LEU:HB2	1:A:576:LEU:HD21	1.85	0.56
1:E:11:ILE:HD12	1:E:285:ALA:CA	2.31	0.56
1:E:35:PHE:C	1:E:37:ARG:N	2.58	0.56
1:E:379:GLU:O	1:E:380:ASN:CB	2.52	0.56
1:E:539:LEU:HD21	1:E:551:LEU:CB	2.35	0.56
1:E:553:LEU:HB2	1:E:576:LEU:HD21	1.85	0.56
1:G:270:GLN:O	1:G:271:ILE:HD13	2.04	0.56
1:I:27:ARG:HG2	1:J:212:LEU:HD13	1.87	0.56
1:I:35:PHE:C	1:I:37:ARG:N	2.58	0.56
1:I:535:ILE:CD1	1:I:554:LEU:HG	2.34	0.56
1:J:379:GLU:O	1:J:380:ASN:CB	2.52	0.56
1:K:35:PHE:C	1:K:37:ARG:N	2.58	0.56
1:L:539:LEU:HD21	1:L:551:LEU:CB	2.35	0.56
1:A:567:MET:CE	1:L:554:LEU:HD22	2.34	0.56
1:A:248:LYS:H	1:A:248:LYS:HD2	1.70	0.56
1:C:440:MET:O	1:C:444:LEU:HD22	2.05	0.56
1:C:634:ILE:HA	1:C:637:ALA:HB3	1.87	0.56
1:D:71:MET:HE1	1:D:115:VAL:HB	1.88	0.56
1:D:66:LYS:HZ3	1:D:420:VAL:CG1	2.17	0.56
1:D:553:LEU:HB2	1:D:576:LEU:HD21	1.86	0.56
1:E:422:THR:HG22	1:E:425:VAL:HG22	1.87	0.56
1:F:101:ASP:HB3	1:F:138:THR:HG21	1.87	0.56
1:F:209:PHE:HA	1:F:211:TRP:CE2	2.40	0.56
1:F:554:LEU:HD21	1:G:564:GLY:CA	2.28	0.56
1:F:66:LYS:HZ3	1:F:420:VAL:CG2	2.17	0.56
1:G:232:ALA:O	1:G:233:PHE:HB2	2.04	0.56
1:I:66:LYS:HZ3	1:I:420:VAL:HG11	1.68	0.56
1:J:634:ILE:HA	1:J:637:ALA:HB3	1.87	0.56
1:K:411:ALA:CB	1:L:57:PHE:HD1	2.19	0.56
1:A:246:TYR:HE2	1:A:512:GLY:N	2.03	0.56
1:A:440:MET:O	1:A:444:LEU:HD22	2.05	0.56
1:B:78:VAL:CG1	1:B:79:LEU:N	2.69	0.56
1:C:164:LEU:HA	1:C:307:TRP:HH2	1.70	0.56
1:D:216:THR:HB	1:D:218:GLN:OE1	2.04	0.56
1:E:325:ASP:OD2	1:F:56:GLN:HB2	2.05	0.56
1:E:380:ASN:O	1:E:381:SER:HB3	2.06	0.56
1:F:546:THR:O	1:F:550:GLN:OE1	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:248:LYS:HD2	1:H:248:LYS:H	1.70	0.56
1:I:101:ASP:HB3	1:I:138:THR:HG21	1.87	0.56
1:I:248:LYS:H	1:I:248:LYS:HD2	1.70	0.56
1:C:209:PHE:HA	1:C:211:TRP:CE2	2.40	0.56
1:D:404:MET:SD	1:E:337:ASN:HB2	2.44	0.56
1:D:422:THR:HG22	1:D:425:VAL:HG22	1.87	0.56
1:D:440:MET:O	1:D:444:LEU:HD22	2.05	0.56
1:F:422:THR:HG22	1:F:425:VAL:HG22	1.87	0.56
1:G:246:TYR:HE2	1:G:512:GLY:N	2.03	0.56
1:H:246:TYR:HE2	1:H:512:GLY:N	2.03	0.56
1:H:539:LEU:HD21	1:H:551:LEU:CB	2.35	0.56
1:J:438:LEU:HD11	1:K:108:LYS:NZ	2.21	0.56
1:K:209:PHE:HA	1:K:211:TRP:CE2	2.40	0.56
1:K:546:THR:O	1:K:550:GLN:OE1	2.24	0.56
1:L:216:THR:HB	1:L:218:GLN:OE1	2.04	0.56
1:L:45:LEU:CD2	1:L:328:ARG:HH21	2.17	0.56
1:B:158:TRP:HD1	1:B:158:TRP:H	1.50	0.56
1:B:539:LEU:HD21	1:B:551:LEU:CB	2.35	0.56
1:D:427:GLY:O	1:D:429:GLN:N	2.37	0.56
1:E:27:ARG:HD2	1:F:212:LEU:H	1.70	0.56
1:F:164:LEU:HA	1:F:307:TRP:HH2	1.71	0.56
1:F:440:MET:O	1:F:444:LEU:HD22	2.05	0.56
1:G:306:GLU:OE2	1:H:65:ARG:HG2	2.05	0.56
1:H:634:ILE:HA	1:H:637:ALA:HB3	1.87	0.56
1:I:24:GLU:C	1:I:26:ARG:N	2.59	0.56
1:J:380:ASN:O	1:J:381:SER:HB3	2.06	0.56
1:J:411:ALA:HA	1:J:414:GLU:HG3	1.88	0.56
1:K:49:THR:CG2	1:K:49:THR:O	2.54	0.56
1:K:78:VAL:HG12	1:K:79:LEU:H	1.69	0.56
1:K:78:VAL:CG1	1:K:79:LEU:N	2.69	0.56
1:A:238:PRO:HG3	1:A:263:PHE:HB3	1.88	0.56
1:C:101:ASP:HB3	1:C:138:THR:HG21	1.87	0.56
1:C:232:ALA:O	1:C:233:PHE:HB2	2.04	0.56
1:C:380:ASN:O	1:C:381:SER:HB3	2.06	0.56
1:C:78:VAL:CG1	1:C:79:LEU:N	2.69	0.56
1:D:546:THR:HG23	1:D:547:PRO:CD	2.29	0.56
1:F:337:ASN:ND2	1:F:401:ASN:HD22	2.04	0.56
1:G:380:ASN:O	1:G:381:SER:HB3	2.06	0.56
1:H:164:LEU:HA	1:H:307:TRP:HH2	1.71	0.56
1:H:78:VAL:CG1	1:H:79:LEU:N	2.69	0.56
1:I:238:PRO:HG3	1:I:263:PHE:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:28:GLU:HB2	1:I:313:LYS:HZ2	1.69	0.56
1:I:422:THR:HG22	1:I:425:VAL:HG22	1.87	0.56
1:I:546:THR:O	1:I:550:GLN:OE1	2.24	0.56
1:H:92:ASP:HB3	1:I:561:ASP:OD2	2.06	0.56
1:K:380:ASN:O	1:K:381:SER:HB3	2.06	0.56
1:A:236:GLN:CB	1:A:265:LYS:HG2	2.36	0.56
1:A:422:THR:HG22	1:A:425:VAL:HG22	1.87	0.56
1:B:236:GLN:CB	1:B:265:LYS:HG2	2.36	0.56
1:B:380:ASN:O	1:B:381:SER:HB3	2.06	0.56
1:C:238:PRO:HG3	1:C:263:PHE:HB3	1.88	0.56
1:C:411:ALA:HA	1:C:414:GLU:HG3	1.88	0.56
1:D:24:GLU:C	1:D:26:ARG:N	2.59	0.56
1:E:411:ALA:HA	1:E:414:GLU:HG3	1.88	0.56
1:F:325:ASP:OD2	1:G:56:GLN:HB2	2.05	0.56
1:F:78:VAL:CG1	1:F:79:LEU:N	2.69	0.56
1:F:348:LYS:HB3	1:G:371:TYR:HA	1.86	0.56
1:H:236:GLN:CB	1:H:265:LYS:HG2	2.36	0.56
1:L:164:LEU:HA	1:L:307:TRP:HH2	1.71	0.56
1:L:411:ALA:HA	1:L:414:GLU:HG3	1.88	0.56
1:L:422:THR:HG22	1:L:425:VAL:HG22	1.87	0.56
1:L:546:THR:O	1:L:550:GLN:OE1	2.24	0.56
1:D:144:ILE:HD12	1:D:145:ARG:N	2.21	0.56
1:D:238:PRO:HG3	1:D:263:PHE:HB3	1.88	0.56
1:E:164:LEU:HA	1:E:307:TRP:HH2	1.71	0.56
1:E:78:VAL:CG1	1:E:79:LEU:N	2.69	0.56
1:F:77:ASP:HB2	1:F:523:SER:CB	2.36	0.56
1:G:379:GLU:O	1:G:380:ASN:CB	2.52	0.56
1:H:144:ILE:HD12	1:H:145:ARG:N	2.21	0.56
1:K:77:ASP:HB2	1:K:523:SER:CB	2.36	0.56
1:L:101:ASP:HB3	1:L:138:THR:HG21	1.87	0.56
1:L:337:ASN:ND2	1:L:401:ASN:HD22	2.04	0.56
1:C:24:GLU:C	1:C:26:ARG:N	2.59	0.56
1:C:77:ASP:HB2	1:C:523:SER:CB	2.36	0.56
1:B:434:THR:HG21	1:C:72:ARG:HG2	1.87	0.56
1:D:246:TYR:HE2	1:D:512:GLY:N	2.03	0.56
1:D:236:GLN:CB	1:D:265:LYS:HG2	2.36	0.56
1:D:49:THR:O	1:D:49:THR:CG2	2.54	0.56
1:E:236:GLN:CB	1:E:265:LYS:HG2	2.36	0.56
1:F:24:GLU:C	1:F:26:ARG:N	2.59	0.56
1:G:45:LEU:CD2	1:G:328:ARG:HH21	2.17	0.56
1:H:422:THR:HG22	1:H:425:VAL:HG22	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:209:PHE:HA	1:J:211:TRP:CE2	2.40	0.56
1:J:164:LEU:HA	1:J:307:TRP:HH2	1.71	0.56
1:J:400:ALA:CB	1:K:395:PRO:HB2	2.36	0.56
1:K:164:LEU:HA	1:K:307:TRP:HH2	1.71	0.56
1:L:380:ASN:O	1:L:381:SER:HB3	2.06	0.56
1:B:411:ALA:HA	1:B:414:GLU:HG3	1.88	0.56
1:B:546:THR:O	1:B:550:GLN:OE1	2.24	0.56
1:C:246:TYR:HE2	1:C:512:GLY:N	2.03	0.56
1:C:376:ARG:HG2	1:C:377:THR:HG23	1.88	0.56
1:D:248:LYS:H	1:D:248:LYS:HD2	1.70	0.56
1:D:411:ALA:HA	1:D:414:GLU:HG3	1.88	0.56
1:D:539:LEU:HD21	1:D:551:LEU:CB	2.35	0.56
1:E:248:LYS:H	1:E:248:LYS:HD2	1.70	0.56
1:E:45:LEU:CD2	1:E:328:ARG:HH21	2.17	0.56
1:E:49:THR:CG2	1:E:49:THR:O	2.54	0.56
1:F:49:THR:CG2	1:F:49:THR:O	2.54	0.56
1:G:236:GLN:CB	1:G:265:LYS:HG2	2.36	0.56
1:G:49:THR:CG2	1:G:49:THR:O	2.54	0.56
1:G:77:ASP:HB2	1:G:523:SER:CB	2.36	0.56
1:G:546:THR:O	1:G:550:GLN:OE1	2.24	0.56
1:J:77:ASP:HB2	1:J:523:SER:CB	2.36	0.56
1:K:71:MET:HE1	1:K:115:VAL:HB	1.86	0.56
1:K:66:LYS:HZ3	1:K:420:VAL:CG1	2.19	0.56
1:K:539:LEU:HD21	1:K:551:LEU:CB	2.35	0.56
1:A:28:GLU:HB2	1:A:313:LYS:HZ2	1.71	0.55
1:A:546:THR:O	1:A:550:GLN:OE1	2.24	0.55
1:A:643:ASN:O	1:A:647:ALA:N	2.36	0.55
1:A:77:ASP:HB2	1:A:523:SER:CB	2.36	0.55
1:A:78:VAL:CG1	1:A:79:LEU:N	2.69	0.55
1:B:440:MET:O	1:B:444:LEU:HD22	2.05	0.55
1:B:89:ASP:CA	1:C:561:ASP:HB2	2.34	0.55
1:D:380:ASN:O	1:D:381:SER:HB3	2.06	0.55
1:F:379:GLU:O	1:F:380:ASN:CB	2.52	0.55
1:F:643:ASN:O	1:F:647:ALA:N	2.36	0.55
1:G:158:TRP:HH2	1:G:302:PRO:HG3	1.71	0.55
1:H:248:LYS:HZ2	1:H:251:ILE:HD12	1.71	0.55
1:H:24:GLU:C	1:H:26:ARG:N	2.59	0.55
1:H:337:ASN:ND2	1:H:401:ASN:HD22	2.04	0.55
1:I:78:VAL:CG1	1:I:79:LEU:N	2.69	0.55
1:J:24:GLU:C	1:J:26:ARG:N	2.59	0.55
1:J:66:LYS:HZ1	1:J:420:VAL:CG2	2.18	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:41:TRP:HE3	1:L:42:ASP:O	1.82	0.55
1:A:108:LYS:HD2	1:L:438:LEU:HD11	1.87	0.55
1:L:535:ILE:HD11	1:L:554:LEU:HG	1.88	0.55
1:A:209:PHE:HA	1:A:211:TRP:CE2	2.40	0.55
1:A:164:LEU:HA	1:A:307:TRP:HH2	1.71	0.55
1:A:539:LEU:HD21	1:A:551:LEU:CB	2.35	0.55
1:B:11:ILE:HD12	1:B:285:ALA:CA	2.31	0.55
1:B:238:PRO:HG3	1:B:263:PHE:HB3	1.88	0.55
1:C:236:GLN:CB	1:C:265:LYS:HG2	2.36	0.55
1:C:546:THR:O	1:C:550:GLN:OE1	2.24	0.55
1:C:535:ILE:HD11	1:C:554:LEU:HG	1.89	0.55
1:D:546:THR:O	1:D:550:GLN:OE1	2.24	0.55
1:D:633:GLN:O	1:D:637:ALA:N	2.35	0.55
1:E:376:ARG:HG2	1:E:377:THR:HG23	1.88	0.55
1:F:236:GLN:CB	1:F:265:LYS:HG2	2.36	0.55
1:F:539:LEU:HD21	1:F:551:LEU:CB	2.35	0.55
1:G:24:GLU:C	1:G:26:ARG:N	2.59	0.55
1:G:411:ALA:HA	1:G:414:GLU:HG3	1.88	0.55
1:H:41:TRP:HE3	1:H:42:ASP:O	1.82	0.55
1:H:77:ASP:HB2	1:H:523:SER:CB	2.36	0.55
1:H:546:THR:O	1:H:550:GLN:OE1	2.24	0.55
1:H:643:ASN:O	1:H:647:ALA:N	2.36	0.55
1:I:164:LEU:HA	1:I:307:TRP:HH2	1.71	0.55
1:K:236:GLN:CB	1:K:265:LYS:HG2	2.36	0.55
1:L:144:ILE:HD12	1:L:145:ARG:N	2.21	0.55
1:L:161:ASN:ND2	1:L:161:ASN:C	2.60	0.55
1:L:78:VAL:CG1	1:L:79:LEU:N	2.69	0.55
1:A:376:ARG:HG2	1:A:377:THR:HG23	1.88	0.55
1:A:444:LEU:C	1:A:446:THR:N	2.60	0.55
1:B:164:LEU:HA	1:B:307:TRP:HH2	1.70	0.55
1:C:136:SER:N	1:C:137:PRO:HD3	2.21	0.55
1:D:444:LEU:C	1:D:446:THR:N	2.60	0.55
1:E:144:ILE:HD12	1:E:145:ARG:N	2.21	0.55
1:E:161:ASN:C	1:E:161:ASN:ND2	2.60	0.55
1:F:238:PRO:HG3	1:F:263:PHE:HB3	1.88	0.55
1:G:534:GLU:O	1:G:538:LEU:HD23	2.07	0.55
1:H:376:ARG:HG2	1:H:377:THR:HG23	1.88	0.55
1:K:161:ASN:ND2	1:K:161:ASN:C	2.60	0.55
1:K:24:GLU:C	1:K:26:ARG:N	2.59	0.55
1:K:534:GLU:O	1:K:538:LEU:HD23	2.07	0.55
1:L:236:GLN:CB	1:L:265:LYS:HG2	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:633:GLN:O	1:A:637:ALA:N	2.35	0.55
1:B:118:GLN:CA	1:B:123:VAL:O	2.55	0.55
1:B:136:SER:N	1:B:137:PRO:HD3	2.21	0.55
1:B:158:TRP:HH2	1:B:302:PRO:HG3	1.71	0.55
1:D:77:ASP:HB2	1:D:523:SER:CB	2.36	0.55
1:E:546:THR:HG23	1:E:547:PRO:CD	2.29	0.55
1:E:546:THR:O	1:E:550:GLN:OE1	2.24	0.55
1:F:136:SER:N	1:F:137:PRO:HD3	2.21	0.55
1:F:380:ASN:O	1:F:381:SER:HB3	2.06	0.55
1:F:534:GLU:O	1:F:538:LEU:HD23	2.07	0.55
1:F:404:MET:CE	1:G:337:ASN:HB2	2.36	0.55
1:G:78:VAL:CG1	1:G:79:LEU:N	2.69	0.55
1:H:238:PRO:HG3	1:H:263:PHE:HB3	1.88	0.55
1:H:427:GLY:C	1:H:429:GLN:N	2.60	0.55
1:I:352:TRP:HD1	1:J:374:LEU:O	1.90	0.55
1:K:144:ILE:HD12	1:K:145:ARG:N	2.21	0.55
1:L:427:GLY:C	1:L:429:GLN:N	2.60	0.55
1:A:248:LYS:HD3	1:A:251:ILE:HB	1.89	0.55
1:A:38:VAL:HG21	1:A:324:LYS:HD2	1.89	0.55
1:A:534:GLU:O	1:A:538:LEU:HD23	2.07	0.55
1:B:24:GLU:C	1:B:26:ARG:N	2.59	0.55
1:B:427:GLY:C	1:B:429:GLN:N	2.60	0.55
1:C:248:LYS:HD3	1:C:251:ILE:HB	1.89	0.55
1:C:422:THR:HG22	1:C:425:VAL:HG22	1.87	0.55
1:D:164:LEU:HA	1:D:307:TRP:HH2	1.70	0.55
1:D:360:GLU:HB2	1:E:371:TYR:OH	2.07	0.55
1:F:118:GLN:CA	1:F:123:VAL:O	2.55	0.55
1:F:144:ILE:HD12	1:F:145:ARG:N	2.21	0.55
1:F:248:LYS:HD3	1:F:251:ILE:HB	1.89	0.55
1:G:136:SER:N	1:G:137:PRO:HD3	2.21	0.55
1:G:161:ASN:C	1:G:161:ASN:ND2	2.60	0.55
1:H:444:LEU:C	1:H:446:THR:N	2.60	0.55
1:I:379:GLU:O	1:I:380:ASN:CB	2.52	0.55
1:I:535:ILE:HD11	1:I:554:LEU:HG	1.89	0.55
1:A:136:SER:N	1:A:137:PRO:HD3	2.21	0.55
1:A:144:ILE:HD12	1:A:145:ARG:N	2.21	0.55
1:A:155:HIS:CE1	1:L:312:ASP:OD2	2.58	0.55
1:A:411:ALA:HA	1:A:414:GLU:HG3	1.88	0.55
1:C:118:GLN:CA	1:C:123:VAL:O	2.55	0.55
1:C:144:ILE:HD12	1:C:145:ARG:N	2.21	0.55
1:D:534:GLU:O	1:D:538:LEU:HD23	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:534:GLU:O	1:E:538:LEU:HD23	2.07	0.55
1:H:118:GLN:CA	1:H:123:VAL:O	2.55	0.55
1:H:380:ASN:O	1:H:381:SER:HB3	2.06	0.55
1:I:634:ILE:HA	1:I:637:ALA:HB3	1.87	0.55
1:B:161:ASN:C	1:B:161:ASN:ND2	2.60	0.55
1:B:248:LYS:HD3	1:B:251:ILE:HB	1.89	0.55
1:A:348:LYS:HE2	1:B:369:TYR:O	2.07	0.55
1:B:77:ASP:HB2	1:B:523:SER:CB	2.36	0.55
1:C:427:GLY:C	1:C:429:GLN:N	2.60	0.55
1:D:248:LYS:HD3	1:D:251:ILE:HB	1.89	0.55
1:D:78:VAL:CG1	1:D:79:LEU:N	2.69	0.55
1:E:246:TYR:HE2	1:E:512:GLY:N	2.03	0.55
1:E:38:VAL:HG21	1:E:324:LYS:HD2	1.89	0.55
1:G:440:MET:O	1:G:444:LEU:HD22	2.05	0.55
1:H:411:ALA:HA	1:H:414:GLU:HG3	1.88	0.55
1:I:38:VAL:HG21	1:I:324:LYS:HD2	1.89	0.55
1:I:411:ALA:HA	1:I:414:GLU:HG3	1.88	0.55
1:J:161:ASN:ND2	1:J:161:ASN:C	2.60	0.55
1:J:236:GLN:CB	1:J:265:LYS:HG2	2.36	0.55
1:J:376:ARG:HG2	1:J:377:THR:HG23	1.88	0.55
1:J:444:LEU:C	1:J:446:THR:N	2.60	0.55
1:A:24:GLU:C	1:A:26:ARG:N	2.59	0.55
1:B:236:GLN:HE21	1:B:265:LYS:HZ1	1.55	0.55
1:C:557:PHE:CE2	1:D:563:LYS:HD3	2.42	0.55
1:C:89:ASP:CA	1:D:561:ASP:HB2	2.34	0.55
1:E:113:ILE:O	1:E:117:GLU:HG3	2.07	0.55
1:F:161:ASN:C	1:F:161:ASN:ND2	2.60	0.55
1:F:38:VAL:HG21	1:F:324:LYS:HD2	1.89	0.55
1:F:411:ALA:HA	1:F:414:GLU:HG3	1.88	0.55
1:G:238:PRO:HG3	1:G:263:PHE:HB3	1.88	0.55
1:H:38:VAL:HG21	1:H:324:LYS:HD2	1.89	0.55
1:I:118:GLN:CA	1:I:123:VAL:O	2.55	0.55
1:I:136:SER:N	1:I:137:PRO:HD3	2.21	0.55
1:I:161:ASN:C	1:I:161:ASN:ND2	2.60	0.55
1:I:376:ARG:HG2	1:I:377:THR:HG23	1.88	0.55
1:I:427:GLY:C	1:I:429:GLN:N	2.60	0.55
1:K:238:PRO:HG3	1:K:263:PHE:HB3	1.88	0.55
1:L:139:SER:HB3	1:L:455:THR:CG2	2.37	0.55
1:L:560:LEU:O	1:L:561:ASP:O	2.25	0.55
1:B:534:GLU:O	1:B:538:LEU:HD23	2.07	0.55
1:B:92:ASP:HB3	1:C:561:ASP:OD2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:337:ASN:ND2	1:D:401:ASN:HD22	2.04	0.55
1:F:434:THR:HG21	1:G:72:ARG:CG	2.35	0.55
1:F:560:LEU:O	1:F:561:ASP:O	2.25	0.55
1:G:118:GLN:CA	1:G:123:VAL:O	2.55	0.55
1:G:164:LEU:HA	1:G:307:TRP:HH2	1.71	0.55
1:I:139:SER:HB3	1:I:455:THR:CG2	2.37	0.55
1:I:248:LYS:HD3	1:I:251:ILE:HB	1.89	0.55
1:I:380:ASN:O	1:I:381:SER:HB3	2.06	0.55
1:J:136:SER:N	1:J:137:PRO:HD3	2.21	0.55
1:J:535:ILE:HD11	1:J:554:LEU:HG	1.89	0.55
1:J:546:THR:O	1:J:550:GLN:OE1	2.24	0.55
1:J:78:VAL:CG1	1:J:79:LEU:N	2.69	0.55
1:K:136:SER:N	1:K:137:PRO:HD3	2.21	0.55
1:K:139:SER:HB3	1:K:455:THR:CG2	2.37	0.55
1:K:325:ASP:OD2	1:L:56:GLN:HB2	2.07	0.55
1:L:77:ASP:HB2	1:L:523:SER:CB	2.36	0.55
1:L:643:ASN:O	1:L:647:ALA:N	2.36	0.55
1:A:113:ILE:O	1:A:117:GLU:HG3	2.07	0.55
1:A:560:LEU:O	1:A:561:ASP:O	2.25	0.55
1:B:144:ILE:HD12	1:B:145:ARG:N	2.21	0.55
1:C:348:LYS:HB3	1:D:371:TYR:HA	1.89	0.55
1:D:118:GLN:CA	1:D:123:VAL:O	2.55	0.55
1:D:158:TRP:HH2	1:D:302:PRO:HG3	1.71	0.55
1:D:376:ARG:HG2	1:D:377:THR:HG23	1.88	0.55
1:D:427:GLY:C	1:D:429:GLN:N	2.60	0.55
1:D:560:LEU:O	1:D:561:ASP:O	2.25	0.55
1:E:136:SER:N	1:E:137:PRO:HD3	2.21	0.55
1:F:427:GLY:C	1:F:429:GLN:N	2.60	0.55
1:F:535:ILE:HD11	1:F:554:LEU:HG	1.88	0.55
1:G:376:ARG:HG2	1:G:377:THR:HG23	1.88	0.55
1:G:337:ASN:ND2	1:G:401:ASN:HD22	2.04	0.55
1:G:535:ILE:HD11	1:G:554:LEU:HG	1.89	0.55
1:H:462:GLU:O	1:H:497:VAL:HA	2.07	0.55
1:I:236:GLN:CB	1:I:265:LYS:HG2	2.36	0.55
1:J:238:PRO:HG3	1:J:263:PHE:HB3	1.88	0.55
1:J:139:SER:HB3	1:J:455:THR:CG2	2.37	0.55
1:J:560:LEU:O	1:J:561:ASP:O	2.25	0.55
1:J:643:ASN:O	1:J:647:ALA:N	2.36	0.55
1:K:535:ILE:HD11	1:K:554:LEU:HG	1.89	0.55
1:L:113:ILE:O	1:L:117:GLU:HG3	2.07	0.55
1:L:136:SER:N	1:L:137:PRO:HD3	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:238:PRO:HG3	1:L:263:PHE:HB3	1.88	0.55
1:B:411:ALA:CB	1:C:57:PHE:HD1	2.19	0.54
1:C:337:ASN:ND2	1:C:401:ASN:HD22	2.04	0.54
1:C:534:GLU:O	1:C:538:LEU:HD23	2.07	0.54
1:E:118:GLN:CA	1:E:123:VAL:O	2.55	0.54
1:E:236:GLN:HE21	1:E:265:LYS:HZ1	1.55	0.54
1:E:248:LYS:HD3	1:E:251:ILE:HB	1.89	0.54
1:G:71:MET:HE1	1:G:115:VAL:HB	1.89	0.54
1:H:534:GLU:O	1:H:538:LEU:HD23	2.07	0.54
1:K:643:ASN:O	1:K:647:ALA:N	2.36	0.54
1:L:38:VAL:HG21	1:L:324:LYS:HD2	1.89	0.54
1:A:45:LEU:CD2	1:A:328:ARG:HH21	2.17	0.54
1:C:27:ARG:NH1	1:D:211:TRP:CB	2.70	0.54
1:E:77:ASP:HB2	1:E:523:SER:CB	2.36	0.54
1:G:633:GLN:O	1:G:637:ALA:N	2.35	0.54
1:H:101:ASP:CG	1:H:138:THR:HG21	2.28	0.54
1:H:136:SER:N	1:H:137:PRO:HD3	2.21	0.54
1:I:208:VAL:HB	1:I:211:TRP:CH2	2.43	0.54
1:J:38:VAL:HG21	1:J:324:LYS:HD2	1.89	0.54
1:K:101:ASP:CG	1:K:138:THR:HG21	2.28	0.54
1:K:11:ILE:HD12	1:K:285:ALA:CA	2.31	0.54
1:L:101:ASP:CG	1:L:138:THR:HG21	2.28	0.54
1:L:376:ARG:HG2	1:L:377:THR:HG23	1.88	0.54
1:A:101:ASP:CG	1:A:138:THR:HG21	2.28	0.54
1:A:139:SER:HB3	1:A:455:THR:CG2	2.37	0.54
1:A:27:ARG:HG2	1:B:212:LEU:CD1	2.36	0.54
1:A:40:GLN:O	1:A:41:TRP:CB	2.56	0.54
1:A:462:GLU:O	1:A:497:VAL:HA	2.07	0.54
1:C:462:GLU:O	1:C:497:VAL:HA	2.08	0.54
1:D:161:ASN:ND2	1:D:161:ASN:C	2.60	0.54
1:E:208:VAL:HB	1:E:211:TRP:CH2	2.43	0.54
1:E:66:LYS:HZ3	1:E:420:VAL:CG1	2.20	0.54
1:G:28:GLU:HB2	1:G:313:LYS:HZ2	1.72	0.54
1:G:560:LEU:O	1:G:561:ASP:O	2.25	0.54
1:H:400:ALA:HB3	1:I:395:PRO:HB2	1.89	0.54
1:H:40:GLN:O	1:H:41:TRP:CB	2.56	0.54
1:I:534:GLU:O	1:I:538:LEU:HD23	2.07	0.54
1:I:554:LEU:HD22	1:J:567:MET:CE	2.37	0.54
1:J:144:ILE:HD12	1:J:145:ARG:N	2.21	0.54
1:J:462:GLU:O	1:J:497:VAL:HA	2.08	0.54
1:K:444:LEU:C	1:K:446:THR:N	2.60	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:118:GLN:CA	1:L:123:VAL:O	2.55	0.54
1:L:24:GLU:C	1:L:26:ARG:N	2.59	0.54
1:L:444:LEU:C	1:L:446:THR:N	2.60	0.54
1:K:411:ALA:HB1	1:L:57:PHE:HD1	1.71	0.54
1:A:71:MET:HE1	1:A:115:VAL:HB	1.90	0.54
1:A:118:GLN:CA	1:A:123:VAL:O	2.55	0.54
1:B:560:LEU:O	1:B:561:ASP:O	2.25	0.54
1:C:101:ASP:CG	1:C:138:THR:HG21	2.28	0.54
1:C:458:ARG:NH2	1:C:500:ALA:HB1	2.23	0.54
1:D:139:SER:HB3	1:D:455:THR:CG2	2.37	0.54
1:E:238:PRO:HG3	1:E:263:PHE:HB3	1.88	0.54
1:E:462:GLU:O	1:E:497:VAL:HA	2.08	0.54
1:F:113:ILE:O	1:F:117:GLU:HG3	2.07	0.54
1:F:139:SER:HB3	1:F:455:THR:CG2	2.37	0.54
1:F:376:ARG:HG2	1:F:377:THR:HG23	1.88	0.54
1:G:144:ILE:HD12	1:G:145:ARG:N	2.21	0.54
1:G:427:GLY:C	1:G:429:GLN:N	2.60	0.54
1:H:161:ASN:ND2	1:H:161:ASN:C	2.60	0.54
1:H:208:VAL:HB	1:H:211:TRP:CH2	2.43	0.54
1:H:560:LEU:O	1:H:561:ASP:O	2.25	0.54
1:I:101:ASP:CG	1:I:138:THR:HG21	2.28	0.54
1:I:144:ILE:HD12	1:I:145:ARG:N	2.21	0.54
1:I:398:PRO:HB3	1:J:395:PRO:HD2	1.88	0.54
1:I:560:LEU:O	1:I:561:ASP:O	2.25	0.54
1:J:158:TRP:HH2	1:J:302:PRO:HG3	1.71	0.54
1:J:248:LYS:HD3	1:J:251:ILE:HB	1.89	0.54
1:J:534:GLU:O	1:J:538:LEU:HD23	2.07	0.54
1:A:549:TYR:OH	1:L:547:PRO:HG3	2.06	0.54
1:B:101:ASP:CG	1:B:138:THR:HG21	2.28	0.54
1:B:376:ARG:HG2	1:B:377:THR:HG23	1.88	0.54
1:B:462:GLU:O	1:B:497:VAL:HA	2.08	0.54
1:D:136:SER:N	1:D:137:PRO:HD3	2.21	0.54
1:D:208:VAL:HB	1:D:211:TRP:CH2	2.43	0.54
1:D:535:ILE:HD11	1:D:554:LEU:HG	1.89	0.54
1:D:404:MET:SD	1:E:337:ASN:CB	2.95	0.54
1:E:535:ILE:HD11	1:E:554:LEU:HG	1.89	0.54
1:G:113:ILE:O	1:G:117:GLU:HG3	2.07	0.54
1:J:427:GLY:C	1:J:429:GLN:N	2.60	0.54
1:K:118:GLN:CA	1:K:123:VAL:O	2.55	0.54
1:L:462:GLU:O	1:L:497:VAL:HA	2.08	0.54
1:A:380:ASN:O	1:A:381:SER:HB3	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:458:ARG:NH2	1:A:500:ALA:HB1	2.23	0.54
1:B:40:GLN:O	1:B:41:TRP:CB	2.56	0.54
1:B:27:ARG:CZ	1:C:211:TRP:HB3	2.37	0.54
1:D:38:VAL:HG21	1:D:324:LYS:HD2	1.89	0.54
1:D:325:ASP:OD2	1:E:56:GLN:CB	2.52	0.54
1:E:139:SER:HB3	1:E:455:THR:CG2	2.37	0.54
1:E:28:GLU:HB2	1:E:313:LYS:HZ2	1.72	0.54
1:F:208:VAL:HB	1:F:211:TRP:CH2	2.43	0.54
1:F:352:TRP:CD1	1:G:374:LEU:O	2.60	0.54
1:F:458:ARG:NH2	1:F:500:ALA:HB1	2.23	0.54
1:G:390:ALA:CB	1:H:387:GLN:HB2	2.38	0.54
1:H:49:THR:CG2	1:H:49:THR:O	2.54	0.54
1:H:565:VAL:HG23	1:H:569:ARG:HH21	1.73	0.54
1:I:113:ILE:O	1:I:117:GLU:HG3	2.07	0.54
1:H:390:ALA:CB	1:I:387:GLN:HB2	2.38	0.54
1:I:49:THR:O	1:I:49:THR:CG2	2.54	0.54
1:J:208:VAL:HB	1:J:211:TRP:CH2	2.43	0.54
1:K:376:ARG:HG2	1:K:377:THR:HG23	1.88	0.54
1:L:534:GLU:O	1:L:538:LEU:HD23	2.07	0.54
1:L:633:GLN:O	1:L:637:ALA:N	2.35	0.54
1:B:28:GLU:HB2	1:B:313:LYS:HZ2	1.73	0.54
1:B:337:ASN:ND2	1:B:401:ASN:HD22	2.04	0.54
1:C:161:ASN:ND2	1:C:161:ASN:C	2.60	0.54
1:C:560:LEU:O	1:C:561:ASP:O	2.25	0.54
1:C:66:LYS:HZ3	1:C:420:VAL:HG11	1.72	0.54
1:E:40:GLN:O	1:E:41:TRP:CB	2.56	0.54
1:F:28:GLU:HB2	1:F:313:LYS:HZ2	1.71	0.54
1:G:458:ARG:NH2	1:G:500:ALA:HB1	2.23	0.54
1:G:643:ASN:O	1:G:647:ALA:N	2.36	0.54
1:H:113:ILE:O	1:H:117:GLU:HG3	2.07	0.54
1:H:11:ILE:HD12	1:H:285:ALA:CA	2.31	0.54
1:I:462:GLU:O	1:I:497:VAL:HA	2.08	0.54
1:J:565:VAL:HG23	1:J:569:ARG:HH21	1.73	0.54
1:L:11:ILE:HD12	1:L:285:ALA:CA	2.31	0.54
1:A:161:ASN:C	1:A:161:ASN:ND2	2.60	0.54
1:B:565:VAL:HG23	1:B:569:ARG:HH21	1.73	0.54
1:D:101:ASP:CG	1:D:138:THR:HG21	2.28	0.54
1:D:113:ILE:O	1:D:117:GLU:HG3	2.07	0.54
1:D:462:GLU:O	1:D:497:VAL:HA	2.08	0.54
1:E:565:VAL:HG23	1:E:569:ARG:HH21	1.73	0.54
1:F:101:ASP:CG	1:F:138:THR:HG21	2.28	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:11:ILE:HD12	1:F:285:ALA:CA	2.31	0.54
1:F:565:VAL:HG23	1:F:569:ARG:HH21	1.73	0.54
1:G:101:ASP:CG	1:G:138:THR:HG21	2.28	0.54
1:G:208:VAL:HB	1:G:211:TRP:CH2	2.43	0.54
1:H:66:LYS:HZ3	1:H:420:VAL:CG1	2.20	0.54
1:I:71:MET:HE1	1:I:115:VAL:HB	1.90	0.54
1:K:208:VAL:HB	1:K:211:TRP:CH2	2.43	0.54
1:A:208:VAL:HB	1:A:211:TRP:CH2	2.43	0.54
1:B:208:VAL:HB	1:B:211:TRP:CH2	2.43	0.54
1:B:38:VAL:HG21	1:B:324:LYS:HD2	1.89	0.54
1:B:139:SER:HB3	1:B:455:THR:CG2	2.37	0.54
1:D:458:ARG:NH2	1:D:500:ALA:HB1	2.23	0.54
1:E:101:ASP:CG	1:E:138:THR:HG21	2.28	0.54
1:E:337:ASN:ND2	1:E:401:ASN:HD22	2.04	0.54
1:F:353:PRO:O	1:F:357:ALA:HB2	2.08	0.54
1:H:158:TRP:HH2	1:H:302:PRO:HG3	1.71	0.54
1:H:535:ILE:HD11	1:H:554:LEU:HG	1.89	0.54
1:I:127:ARG:O	1:I:128:LEU:HD23	2.08	0.54
1:I:40:GLN:O	1:I:41:TRP:CB	2.56	0.54
1:I:77:ASP:HB2	1:I:523:SER:CB	2.36	0.54
1:K:411:ALA:HA	1:K:414:GLU:HG3	1.88	0.54
1:K:560:LEU:O	1:K:561:ASP:O	2.25	0.54
1:L:248:LYS:HD3	1:L:251:ILE:HB	1.89	0.54
1:L:565:VAL:HG23	1:L:569:ARG:HH21	1.73	0.54
1:A:376:ARG:NE	1:L:354:GLU:OE2	2.40	0.54
1:B:111:VAL:O	1:B:115:VAL:HG13	2.08	0.54
1:B:458:ARG:NH2	1:B:500:ALA:HB1	2.23	0.54
1:D:353:PRO:O	1:D:357:ALA:HB2	2.08	0.54
1:D:40:GLN:O	1:D:41:TRP:CB	2.56	0.54
1:E:643:ASN:O	1:E:647:ALA:N	2.36	0.54
1:G:139:SER:HB3	1:G:455:THR:CG2	2.37	0.54
1:H:248:LYS:HD3	1:H:251:ILE:HB	1.89	0.54
1:I:565:VAL:HG23	1:I:569:ARG:HH21	1.73	0.54
1:L:236:GLN:HE21	1:L:265:LYS:HZ1	1.55	0.54
1:L:353:PRO:O	1:L:357:ALA:HB2	2.08	0.54
1:B:444:LEU:C	1:B:446:THR:N	2.60	0.53
1:C:565:VAL:HG23	1:C:569:ARG:HH21	1.73	0.53
1:E:24:GLU:C	1:E:26:ARG:N	2.59	0.53
1:F:444:LEU:C	1:F:446:THR:N	2.60	0.53
1:G:17:ALA:HA	1:G:20:THR:OG1	2.08	0.53
1:G:434:THR:HG21	1:H:72:ARG:CG	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:266:ILE:HG23	1:I:267:ALA:N	2.24	0.53
1:I:353:PRO:O	1:I:357:ALA:HB2	2.08	0.53
1:J:111:VAL:O	1:J:115:VAL:HG13	2.08	0.53
1:J:248:LYS:HZ2	1:J:251:ILE:HD12	1.73	0.53
1:J:458:ARG:NH2	1:J:500:ALA:HB1	2.23	0.53
1:K:248:LYS:HD3	1:K:251:ILE:HB	1.89	0.53
1:K:565:VAL:O	1:K:569:ARG:HB3	2.09	0.53
1:L:208:VAL:HB	1:L:211:TRP:CH2	2.43	0.53
1:L:63:VAL:O	1:L:66:LYS:HB3	2.09	0.53
1:A:41:TRP:CZ3	1:A:42:ASP:O	2.62	0.53
1:A:535:ILE:HD11	1:A:554:LEU:HG	1.89	0.53
1:B:127:ARG:O	1:B:128:LEU:HD23	2.08	0.53
1:D:111:VAL:O	1:D:115:VAL:HG13	2.08	0.53
1:D:17:ALA:HA	1:D:20:THR:OG1	2.09	0.53
1:D:26:ARG:HE	1:D:26:ARG:HA	1.74	0.53
1:D:45:LEU:CD2	1:D:328:ARG:HH21	2.17	0.53
1:G:127:ARG:O	1:G:128:LEU:HD23	2.08	0.53
1:G:248:LYS:HD3	1:G:251:ILE:HB	1.89	0.53
1:G:322:LEU:N	1:G:322:LEU:HD22	2.24	0.53
1:G:565:VAL:O	1:G:569:ARG:HB3	2.09	0.53
1:H:458:ARG:NH2	1:H:500:ALA:HB1	2.23	0.53
1:I:161:ASN:C	1:I:161:ASN:HD22	2.12	0.53
1:J:113:ILE:O	1:J:117:GLU:HG3	2.07	0.53
1:J:118:GLN:CA	1:J:123:VAL:O	2.55	0.53
1:J:127:ARG:O	1:J:128:LEU:HD23	2.08	0.53
1:J:101:ASP:CG	1:J:138:THR:HG21	2.28	0.53
1:A:565:VAL:HG23	1:A:569:ARG:HH21	1.73	0.53
1:B:78:VAL:HG11	1:B:444:LEU:HG	1.91	0.53
1:C:71:MET:HE1	1:C:115:VAL:HB	1.90	0.53
1:C:127:ARG:O	1:C:128:LEU:HD23	2.08	0.53
1:C:208:VAL:HB	1:C:211:TRP:CH2	2.43	0.53
1:C:38:VAL:HG21	1:C:324:LYS:HD2	1.89	0.53
1:C:353:PRO:O	1:C:357:ALA:HB2	2.08	0.53
1:C:41:TRP:CZ3	1:C:42:ASP:O	2.62	0.53
1:D:547:PRO:HG3	1:E:549:TYR:OH	2.08	0.53
1:F:161:ASN:C	1:F:161:ASN:HD22	2.12	0.53
1:F:27:ARG:NH1	1:G:211:TRP:CB	2.71	0.53
1:F:565:VAL:O	1:F:569:ARG:HB3	2.08	0.53
1:H:353:PRO:O	1:H:357:ALA:HB2	2.08	0.53
1:H:546:THR:HG23	1:H:547:PRO:CD	2.29	0.53
1:I:41:TRP:CZ3	1:I:42:ASP:O	2.62	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:266:ILE:HG23	1:J:267:ALA:N	2.24	0.53
1:J:322:LEU:HD22	1:J:322:LEU:N	2.24	0.53
1:J:49:THR:CG2	1:J:49:THR:O	2.54	0.53
1:K:17:ALA:HA	1:K:20:THR:OG1	2.09	0.53
1:K:38:VAL:HG21	1:K:324:LYS:HD2	1.89	0.53
1:K:337:ASN:ND2	1:K:401:ASN:HD22	2.04	0.53
1:K:40:GLN:O	1:K:41:TRP:CB	2.56	0.53
1:K:443:ASP:C	1:K:444:LEU:HD13	2.29	0.53
1:B:535:ILE:HD11	1:B:554:LEU:HG	1.89	0.53
1:C:113:ILE:O	1:C:117:GLU:HG3	2.07	0.53
1:D:41:TRP:CZ3	1:D:42:ASP:O	2.62	0.53
1:E:353:PRO:O	1:E:357:ALA:HB2	2.08	0.53
1:E:565:VAL:O	1:E:569:ARG:HB3	2.08	0.53
1:F:71:MET:HE1	1:F:115:VAL:HB	1.89	0.53
1:F:462:GLU:O	1:F:497:VAL:HA	2.08	0.53
1:G:78:VAL:HG11	1:G:444:LEU:HG	1.91	0.53
1:H:139:SER:HB3	1:H:455:THR:CG2	2.37	0.53
1:H:685:ALA:O	1:H:688:GLU:CB	2.57	0.53
1:I:63:VAL:O	1:I:66:LYS:HB3	2.09	0.53
1:K:322:LEU:HD22	1:K:322:LEU:N	2.24	0.53
1:K:78:VAL:HG11	1:K:444:LEU:HG	1.91	0.53
1:L:322:LEU:N	1:L:322:LEU:HD22	2.24	0.53
1:L:584:PRO:CG	1:L:590:GLN:HG2	2.39	0.53
1:A:322:LEU:N	1:A:322:LEU:HD22	2.24	0.53
1:B:565:VAL:O	1:B:569:ARG:HB3	2.08	0.53
1:C:139:SER:HB3	1:C:455:THR:CG2	2.37	0.53
1:C:26:ARG:HA	1:C:26:ARG:HE	1.74	0.53
1:C:390:ALA:HB3	1:D:387:GLN:OE1	2.09	0.53
1:D:565:VAL:HG23	1:D:569:ARG:HH21	1.73	0.53
1:D:63:VAL:O	1:D:66:LYS:HB3	2.09	0.53
1:E:17:ALA:HA	1:E:20:THR:OG1	2.09	0.53
1:E:560:LEU:O	1:E:561:ASP:O	2.25	0.53
1:E:63:VAL:O	1:E:66:LYS:HB3	2.08	0.53
1:F:127:ARG:O	1:F:128:LEU:HD23	2.08	0.53
1:F:179:MET:SD	1:F:184:TRP:HA	2.49	0.53
1:F:63:VAL:O	1:F:66:LYS:HB3	2.09	0.53
1:G:111:VAL:O	1:G:115:VAL:HG13	2.09	0.53
1:G:38:VAL:HG21	1:G:324:LYS:HD2	1.89	0.53
1:G:353:PRO:O	1:G:357:ALA:HB2	2.08	0.53
1:G:443:ASP:C	1:G:444:LEU:HD13	2.29	0.53
1:G:462:GLU:O	1:G:497:VAL:HA	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:565:VAL:O	1:H:569:ARG:HB3	2.08	0.53
1:I:11:ILE:HD12	1:I:285:ALA:CA	2.31	0.53
1:J:687:ALA:O	1:J:691:LEU:N	2.39	0.53
1:K:127:ARG:O	1:K:128:LEU:HD23	2.08	0.53
1:A:179:MET:SD	1:A:184:TRP:HA	2.49	0.53
1:A:49:THR:O	1:A:49:THR:CG2	2.54	0.53
1:A:78:VAL:CG1	1:A:79:LEU:H	2.22	0.53
1:B:26:ARG:HE	1:B:26:ARG:HA	1.74	0.53
1:A:348:LYS:CB	1:B:371:TYR:HA	2.38	0.53
1:C:111:VAL:O	1:C:115:VAL:HG13	2.08	0.53
1:C:40:GLN:O	1:C:41:TRP:CB	2.56	0.53
1:C:27:ARG:HD2	1:D:212:LEU:H	1.74	0.53
1:D:685:ALA:O	1:D:688:GLU:CB	2.57	0.53
1:E:443:ASP:C	1:E:444:LEU:HD13	2.29	0.53
1:E:685:ALA:O	1:E:688:GLU:CB	2.57	0.53
1:F:443:ASP:C	1:F:444:LEU:HD13	2.29	0.53
1:G:363:TYR:OH	1:G:373:LEU:O	2.26	0.53
1:F:411:ALA:CB	1:G:57:PHE:HD1	2.22	0.53
1:G:63:VAL:O	1:G:66:LYS:HB3	2.09	0.53
1:H:127:ARG:O	1:H:128:LEU:HD23	2.08	0.53
1:H:17:ALA:HA	1:H:20:THR:OG1	2.09	0.53
1:H:322:LEU:N	1:H:322:LEU:HD22	2.24	0.53
1:H:41:TRP:CG	1:H:42:ASP:N	2.77	0.53
1:H:434:THR:HG21	1:I:72:ARG:CG	2.39	0.53
1:H:443:ASP:C	1:H:444:LEU:HD13	2.29	0.53
1:I:337:ASN:ND2	1:I:401:ASN:HD22	2.04	0.53
1:I:554:LEU:HD22	1:J:567:MET:HE2	1.91	0.53
1:K:41:TRP:CZ3	1:K:42:ASP:O	2.62	0.53
1:K:685:ALA:O	1:K:688:GLU:CB	2.57	0.53
1:L:17:ALA:HA	1:L:20:THR:OG1	2.09	0.53
1:K:348:LYS:HB2	1:L:372:TYR:CD2	2.43	0.53
1:L:458:ARG:NH2	1:L:500:ALA:HB1	2.23	0.53
1:A:111:VAL:O	1:A:115:VAL:HG13	2.08	0.53
1:A:17:ALA:HA	1:A:20:THR:OG1	2.09	0.53
1:A:337:ASN:ND2	1:A:401:ASN:HD22	2.04	0.53
1:A:427:GLY:C	1:A:429:GLN:N	2.60	0.53
1:B:322:LEU:N	1:B:322:LEU:HD22	2.24	0.53
1:C:208:VAL:HG12	1:C:210:PRO:HD3	1.91	0.53
1:C:584:PRO:CG	1:C:590:GLN:HG2	2.39	0.53
1:C:63:VAL:O	1:C:66:LYS:HB3	2.08	0.53
1:D:643:ASN:O	1:D:647:ALA:N	2.36	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:158:TRP:HH2	1:F:302:PRO:HG3	1.71	0.53
1:I:111:VAL:O	1:I:115:VAL:HG13	2.09	0.53
1:I:179:MET:SD	1:I:184:TRP:HA	2.49	0.53
1:I:322:LEU:N	1:I:322:LEU:HD22	2.24	0.53
1:I:565:VAL:O	1:I:569:ARG:HB3	2.09	0.53
1:J:179:MET:SD	1:J:184:TRP:HA	2.49	0.53
1:I:27:ARG:CZ	1:J:211:TRP:HB3	2.38	0.53
1:J:26:ARG:HE	1:J:26:ARG:HA	1.74	0.53
1:J:685:ALA:O	1:J:688:GLU:CB	2.57	0.53
1:K:462:GLU:O	1:K:497:VAL:HA	2.08	0.53
1:K:89:ASP:HA	1:L:561:ASP:CB	2.38	0.53
1:A:248:LYS:HZ2	1:A:251:ILE:HD12	1.71	0.53
1:A:685:ALA:O	1:A:688:GLU:CB	2.57	0.53
1:A:78:VAL:HG11	1:A:444:LEU:HG	1.91	0.53
1:B:113:ILE:O	1:B:117:GLU:HG3	2.07	0.53
1:B:161:ASN:C	1:B:161:ASN:HD22	2.11	0.53
1:B:179:MET:SD	1:B:184:TRP:HA	2.49	0.53
1:B:209:PHE:N	1:B:210:PRO:CD	2.72	0.53
1:B:584:PRO:CG	1:B:590:GLN:HG2	2.39	0.53
1:C:687:ALA:O	1:C:691:LEU:N	2.40	0.53
1:D:179:MET:SD	1:D:184:TRP:HA	2.49	0.53
1:D:443:ASP:C	1:D:444:LEU:HD13	2.29	0.53
1:E:179:MET:SD	1:E:184:TRP:HA	2.49	0.53
1:E:444:LEU:C	1:E:446:THR:N	2.60	0.53
1:F:40:GLN:O	1:F:41:TRP:CB	2.56	0.53
1:G:565:VAL:HG23	1:G:569:ARG:HH21	1.73	0.53
1:I:208:VAL:HG12	1:I:210:PRO:HD3	1.91	0.53
1:I:26:ARG:HA	1:I:26:ARG:HE	1.74	0.53
1:I:584:PRO:CG	1:I:590:GLN:HG2	2.39	0.53
1:J:209:PHE:N	1:J:210:PRO:CD	2.72	0.53
1:J:41:TRP:CG	1:J:42:ASP:N	2.77	0.53
1:K:113:ILE:O	1:K:117:GLU:HG3	2.07	0.53
1:K:353:PRO:O	1:K:357:ALA:HB2	2.08	0.53
1:K:458:ARG:NH2	1:K:500:ALA:HB1	2.23	0.53
1:K:633:GLN:O	1:K:637:ALA:N	2.35	0.53
1:L:565:VAL:O	1:L:569:ARG:HB3	2.08	0.53
1:L:78:VAL:CG1	1:L:79:LEU:H	2.22	0.53
1:B:208:VAL:HG12	1:B:210:PRO:HD3	1.91	0.53
1:B:266:ILE:HG23	1:B:267:ALA:N	2.24	0.53
1:B:353:PRO:O	1:B:357:ALA:HB2	2.08	0.53
1:C:179:MET:SD	1:C:184:TRP:HA	2.49	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:322:LEU:N	1:C:322:LEU:HD22	2.24	0.53
1:C:444:LEU:C	1:C:446:THR:N	2.60	0.53
1:D:209:PHE:N	1:D:210:PRO:CD	2.72	0.53
1:D:208:VAL:HG12	1:D:210:PRO:HD3	1.91	0.53
1:D:78:VAL:CG1	1:D:79:LEU:H	2.22	0.53
1:E:208:VAL:HG12	1:E:210:PRO:HD3	1.91	0.53
1:E:352:TRP:CD1	1:F:374:LEU:O	2.60	0.53
1:E:400:ALA:HB3	1:F:395:PRO:HB2	1.90	0.53
1:F:17:ALA:HA	1:F:20:THR:OG1	2.09	0.53
1:E:89:ASP:CA	1:F:561:ASP:HB2	2.37	0.53
1:F:78:VAL:CG1	1:F:79:LEU:H	2.22	0.53
1:I:41:TRP:CG	1:I:42:ASP:N	2.77	0.53
1:J:353:PRO:O	1:J:357:ALA:HB2	2.08	0.53
1:K:565:VAL:HG23	1:K:569:ARG:HH21	1.73	0.53
1:L:161:ASN:C	1:L:161:ASN:HD22	2.12	0.53
1:L:28:GLU:HB2	1:L:313:LYS:HZ2	1.74	0.53
1:A:363:TYR:OH	1:A:373:LEU:O	2.26	0.53
1:B:41:TRP:CZ3	1:B:42:ASP:O	2.62	0.53
1:B:63:VAL:O	1:B:66:LYS:HB3	2.08	0.53
1:C:685:ALA:O	1:C:688:GLU:CB	2.57	0.53
1:D:78:VAL:HG11	1:D:444:LEU:HG	1.91	0.53
1:E:111:VAL:O	1:E:115:VAL:HG13	2.08	0.53
1:E:458:ARG:NH2	1:E:500:ALA:HB1	2.23	0.53
1:F:208:VAL:HG12	1:F:210:PRO:HD3	1.91	0.53
1:F:27:ARG:HG2	1:G:212:LEU:CD1	2.37	0.53
1:G:41:TRP:CG	1:G:42:ASP:N	2.77	0.53
1:G:458:ARG:NH2	1:G:500:ALA:CB	2.72	0.53
1:G:685:ALA:O	1:G:688:GLU:CB	2.57	0.53
1:H:78:VAL:HG11	1:H:444:LEU:HG	1.91	0.53
1:H:643:ASN:O	1:H:647:ALA:HB2	2.09	0.53
1:I:17:ALA:HA	1:I:20:THR:OG1	2.08	0.53
1:I:458:ARG:NH2	1:I:500:ALA:HB1	2.23	0.53
1:J:40:GLN:O	1:J:41:TRP:CB	2.56	0.53
1:J:546:THR:HG23	1:J:547:PRO:CD	2.29	0.53
1:J:584:PRO:CG	1:J:590:GLN:HG2	2.39	0.53
1:K:26:ARG:HA	1:K:26:ARG:HE	1.74	0.53
1:K:41:TRP:CG	1:K:42:ASP:N	2.77	0.53
1:K:584:PRO:CG	1:K:590:GLN:HG2	2.39	0.53
1:L:208:VAL:HG12	1:L:210:PRO:HD3	1.91	0.53
1:A:127:ARG:O	1:A:128:LEU:HD23	2.08	0.52
1:A:41:TRP:CG	1:A:42:ASP:N	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:63:VAL:O	1:A:66:LYS:HB3	2.09	0.52
1:B:71:MET:HE1	1:B:115:VAL:HB	1.90	0.52
1:C:161:ASN:HD22	1:C:161:ASN:C	2.12	0.52
1:F:41:TRP:CZ3	1:F:42:ASP:O	2.62	0.52
1:F:685:ALA:O	1:F:688:GLU:CB	2.57	0.52
1:G:179:MET:SD	1:G:184:TRP:HA	2.49	0.52
1:G:208:VAL:HG12	1:G:210:PRO:HD3	1.91	0.52
1:F:404:MET:SD	1:G:337:ASN:HB3	2.50	0.52
1:G:41:TRP:CZ3	1:G:42:ASP:O	2.62	0.52
1:I:458:ARG:NH2	1:I:500:ALA:CB	2.72	0.52
1:J:208:VAL:HG12	1:J:210:PRO:HD3	1.91	0.52
1:K:63:VAL:O	1:K:66:LYS:HB3	2.09	0.52
1:K:643:ASN:O	1:K:647:ALA:HB2	2.09	0.52
1:L:111:VAL:O	1:L:115:VAL:HG13	2.08	0.52
1:L:127:ARG:O	1:L:128:LEU:HD23	2.08	0.52
1:L:40:GLN:O	1:L:41:TRP:CB	2.56	0.52
1:L:49:THR:CG2	1:L:49:THR:O	2.54	0.52
1:A:438:LEU:HD11	1:B:108:LYS:NZ	2.24	0.52
1:A:565:VAL:O	1:A:569:ARG:HB3	2.08	0.52
1:B:443:ASP:C	1:B:444:LEU:HD13	2.29	0.52
1:D:322:LEU:N	1:D:322:LEU:HD22	2.24	0.52
1:D:584:PRO:CG	1:D:590:GLN:HG2	2.39	0.52
1:E:127:ARG:O	1:E:128:LEU:HD23	2.08	0.52
1:E:161:ASN:HD22	1:E:161:ASN:C	2.12	0.52
1:E:322:LEU:HD22	1:E:322:LEU:N	2.24	0.52
1:E:458:ARG:NH2	1:E:500:ALA:CB	2.72	0.52
1:E:27:ARG:CZ	1:F:211:TRP:CB	2.88	0.52
1:F:458:ARG:NH2	1:F:500:ALA:CB	2.73	0.52
1:G:444:LEU:C	1:G:446:THR:N	2.60	0.52
1:H:458:ARG:NH2	1:H:500:ALA:CB	2.72	0.52
1:J:17:ALA:HA	1:J:20:THR:OG1	2.09	0.52
1:J:565:VAL:O	1:J:569:ARG:HB3	2.08	0.52
1:L:458:ARG:NH2	1:L:500:ALA:CB	2.72	0.52
1:L:685:ALA:O	1:L:688:GLU:CB	2.57	0.52
1:L:78:VAL:HG11	1:L:444:LEU:HG	1.91	0.52
1:B:458:ARG:NH2	1:B:500:ALA:CB	2.72	0.52
1:C:643:ASN:O	1:C:647:ALA:HB2	2.09	0.52
1:C:78:VAL:CG1	1:C:79:LEU:H	2.22	0.52
1:D:161:ASN:C	1:D:161:ASN:HD22	2.12	0.52
1:D:458:ARG:NH2	1:D:500:ALA:CB	2.72	0.52
1:D:643:ASN:O	1:D:647:ALA:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:350:PHE:HE1	1:E:363:TYR:HE1	1.56	0.52
1:E:41:TRP:CZ3	1:E:42:ASP:O	2.62	0.52
1:E:643:ASN:O	1:E:647:ALA:HB2	2.09	0.52
1:G:161:ASN:HD22	1:G:161:ASN:C	2.12	0.52
1:H:266:ILE:HG23	1:H:267:ALA:N	2.24	0.52
1:H:78:VAL:CG1	1:H:79:LEU:H	2.22	0.52
1:I:443:ASP:C	1:I:444:LEU:HD13	2.29	0.52
1:J:161:ASN:C	1:J:161:ASN:HD22	2.12	0.52
1:J:43:ASP:OD1	1:J:327:GLN:OE1	2.28	0.52
1:J:443:ASP:C	1:J:444:LEU:HD13	2.29	0.52
1:J:63:VAL:O	1:J:66:LYS:HB3	2.09	0.52
1:K:208:VAL:HG12	1:K:210:PRO:HD3	1.91	0.52
1:A:443:ASP:C	1:A:444:LEU:HD13	2.29	0.52
1:A:643:ASN:O	1:A:647:ALA:HB2	2.09	0.52
1:B:17:ALA:HA	1:B:20:THR:OG1	2.09	0.52
1:B:401:ASN:OD1	1:C:341:VAL:HG13	2.09	0.52
1:C:17:ALA:HA	1:C:20:THR:OG1	2.09	0.52
1:C:266:ILE:HG23	1:C:267:ALA:N	2.24	0.52
1:D:27:ARG:HG2	1:E:212:LEU:HD13	1.92	0.52
1:F:266:ILE:HG23	1:F:267:ALA:N	2.24	0.52
1:F:322:LEU:HD22	1:F:322:LEU:N	2.24	0.52
1:F:43:ASP:OD1	1:F:327:GLN:OE1	2.28	0.52
1:E:350:PHE:HA	1:F:372:TYR:O	2.08	0.52
1:G:643:ASN:O	1:G:647:ALA:HB2	2.09	0.52
1:J:337:ASN:ND2	1:J:401:ASN:HD22	2.04	0.52
1:J:577:ILE:HG12	1:J:582:LYS:CG	2.36	0.52
1:K:161:ASN:HD22	1:K:161:ASN:C	2.12	0.52
1:K:179:MET:SD	1:K:184:TRP:HA	2.49	0.52
1:L:266:ILE:HG23	1:L:267:ALA:N	2.24	0.52
1:L:201:PHE:HA	1:L:283:CYS:SG	2.50	0.52
1:L:41:TRP:CZ3	1:L:42:ASP:O	2.62	0.52
1:L:444:LEU:C	1:L:446:THR:H	2.13	0.52
1:A:208:VAL:HG12	1:A:210:PRO:HD3	1.91	0.52
1:B:685:ALA:O	1:B:688:GLU:CB	2.57	0.52
1:C:565:VAL:O	1:C:569:ARG:HB3	2.08	0.52
1:E:41:TRP:CG	1:E:42:ASP:N	2.77	0.52
1:F:236:GLN:HE21	1:F:265:LYS:HZ1	1.58	0.52
1:G:201:PHE:HA	1:G:283:CYS:SG	2.50	0.52
1:G:26:ARG:HE	1:G:26:ARG:HA	1.74	0.52
1:I:309:PHE:HB2	1:J:150:HIS:CG	2.45	0.52
1:J:201:PHE:HA	1:J:283:CYS:SG	2.50	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:111:VAL:O	1:K:115:VAL:HG13	2.08	0.52
1:K:158:TRP:HH2	1:K:302:PRO:HG3	1.71	0.52
1:K:43:ASP:OD1	1:K:327:GLN:OE1	2.28	0.52
1:A:266:ILE:HG23	1:A:267:ALA:N	2.24	0.52
1:A:201:PHE:HA	1:A:283:CYS:SG	2.50	0.52
1:A:353:PRO:O	1:A:357:ALA:HB2	2.08	0.52
1:A:458:ARG:NH2	1:A:500:ALA:CB	2.72	0.52
1:C:43:ASP:OD1	1:C:327:GLN:OE1	2.28	0.52
1:D:201:PHE:HA	1:D:283:CYS:SG	2.50	0.52
1:E:201:PHE:HA	1:E:283:CYS:SG	2.50	0.52
1:D:390:ALA:HB3	1:E:387:GLN:HB2	1.87	0.52
1:E:78:VAL:HG11	1:E:444:LEU:HG	1.91	0.52
1:F:111:VAL:O	1:F:115:VAL:HG13	2.09	0.52
1:F:26:ARG:HE	1:F:26:ARG:HA	1.74	0.52
1:F:41:TRP:CG	1:F:42:ASP:N	2.77	0.52
1:F:444:LEU:C	1:F:446:THR:H	2.13	0.52
1:G:266:ILE:HG23	1:G:267:ALA:N	2.23	0.52
1:H:201:PHE:HA	1:H:283:CYS:SG	2.50	0.52
1:I:444:LEU:C	1:I:446:THR:N	2.60	0.52
1:I:577:ILE:HG12	1:I:582:LYS:CG	2.36	0.52
1:I:685:ALA:O	1:I:688:GLU:CB	2.57	0.52
1:J:11:ILE:HD12	1:J:285:ALA:CA	2.31	0.52
1:L:26:ARG:HA	1:L:26:ARG:HE	1.74	0.52
1:B:43:ASP:OD1	1:B:327:GLN:OE1	2.28	0.52
1:B:41:TRP:CG	1:B:42:ASP:N	2.77	0.52
1:B:602:GLY:O	1:B:603:GLN:C	2.48	0.52
1:C:400:ALA:HB3	1:D:395:PRO:HB2	1.90	0.52
1:D:43:ASP:OD1	1:D:327:GLN:OE1	2.28	0.52
1:E:158:TRP:HH2	1:E:302:PRO:HG3	1.71	0.52
1:E:427:GLY:C	1:E:429:GLN:N	2.60	0.52
1:E:78:VAL:CG1	1:E:79:LEU:H	2.22	0.52
1:F:201:PHE:HA	1:F:283:CYS:SG	2.50	0.52
1:H:26:ARG:HA	1:H:26:ARG:HE	1.74	0.52
1:H:41:TRP:CZ3	1:H:42:ASP:O	2.62	0.52
1:H:584:PRO:CG	1:H:590:GLN:HG2	2.39	0.52
1:I:444:LEU:C	1:I:446:THR:H	2.13	0.52
1:J:41:TRP:CZ3	1:J:42:ASP:O	2.62	0.52
1:J:643:ASN:O	1:J:647:ALA:HB2	2.09	0.52
1:K:32:ASP:HA	1:K:35:PHE:CD1	2.45	0.52
1:L:443:ASP:C	1:L:444:LEU:HD13	2.29	0.52
1:A:161:ASN:HD22	1:A:161:ASN:C	2.12	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:26:ARG:HE	1:A:26:ARG:HA	1.74	0.52
1:C:41:TRP:CG	1:C:42:ASP:N	2.77	0.52
1:C:444:LEU:C	1:C:446:THR:H	2.13	0.52
1:C:602:GLY:O	1:C:603:GLN:C	2.48	0.52
1:D:266:ILE:HG23	1:D:267:ALA:N	2.24	0.52
1:D:565:VAL:O	1:D:569:ARG:HB3	2.08	0.52
1:E:266:ILE:HG23	1:E:267:ALA:N	2.23	0.52
1:F:584:PRO:CG	1:F:590:GLN:HG2	2.39	0.52
1:F:643:ASN:O	1:F:647:ALA:HB2	2.09	0.52
1:F:352:TRP:CG	1:G:376:ARG:HB2	2.44	0.52
1:H:111:VAL:O	1:H:115:VAL:HG13	2.08	0.52
1:H:63:VAL:O	1:H:66:LYS:HB3	2.09	0.52
1:I:602:GLY:O	1:I:603:GLN:C	2.48	0.52
1:K:209:PHE:N	1:K:210:PRO:CD	2.72	0.52
1:K:427:GLY:C	1:K:429:GLN:N	2.60	0.52
1:K:546:THR:HG23	1:K:547:PRO:CD	2.29	0.52
1:L:269:ARG:HH11	1:L:270:GLN:H	1.58	0.52
1:A:27:ARG:NH1	1:B:211:TRP:CB	2.72	0.52
1:B:32:ASP:HA	1:B:35:PHE:CD1	2.45	0.52
1:C:363:TYR:OH	1:C:373:LEU:O	2.26	0.52
1:C:554:LEU:HD21	1:D:564:GLY:CA	2.28	0.52
1:D:602:GLY:O	1:D:603:GLN:C	2.48	0.52
1:E:71:MET:HE1	1:E:115:VAL:HB	1.92	0.52
1:E:363:TYR:OH	1:E:373:LEU:O	2.26	0.52
1:F:269:ARG:HH11	1:F:270:GLN:H	1.58	0.52
1:H:161:ASN:HD22	1:H:161:ASN:C	2.12	0.52
1:H:179:MET:SD	1:H:184:TRP:HA	2.49	0.52
1:I:78:VAL:CG1	1:I:79:LEU:H	2.22	0.52
1:J:400:ALA:HB3	1:K:395:PRO:HB2	1.92	0.52
1:K:458:ARG:NH2	1:K:500:ALA:CB	2.73	0.52
1:L:643:ASN:O	1:L:647:ALA:HB2	2.09	0.52
1:A:158:TRP:HH2	1:A:302:PRO:HG3	1.71	0.52
1:D:32:ASP:HA	1:D:35:PHE:CD1	2.45	0.52
1:F:602:GLY:O	1:F:603:GLN:C	2.48	0.52
1:F:633:GLN:O	1:F:637:ALA:N	2.35	0.52
1:H:549:TYR:O	1:H:552:LEU:HB3	2.10	0.52
1:K:266:ILE:HG23	1:K:267:ALA:N	2.23	0.52
1:K:363:TYR:OH	1:K:373:LEU:O	2.26	0.52
1:K:171:ARG:HH21	1:L:182:ASN:ND2	2.08	0.52
1:A:155:HIS:NE2	1:L:312:ASP:OD2	2.43	0.52
1:L:41:TRP:CG	1:L:42:ASP:N	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:602:GLY:O	1:A:603:GLN:C	2.48	0.51
1:B:352:TRP:HD1	1:C:374:LEU:O	1.92	0.51
1:B:643:ASN:O	1:B:647:ALA:HB2	2.09	0.51
1:E:32:ASP:HA	1:E:35:PHE:CD1	2.45	0.51
1:G:32:ASP:HA	1:G:35:PHE:CD1	2.45	0.51
1:G:584:PRO:CG	1:G:590:GLN:HG2	2.39	0.51
1:H:363:TYR:OH	1:H:373:LEU:O	2.26	0.51
1:I:687:ALA:O	1:I:691:LEU:N	2.40	0.51
1:J:269:ARG:HH11	1:J:270:GLN:H	1.58	0.51
1:K:201:PHE:HA	1:K:283:CYS:SG	2.50	0.51
1:K:554:LEU:HD22	1:L:567:MET:HE2	1.91	0.51
1:A:14:ARG:NE	1:A:14:ARG:CA	2.71	0.51
1:A:227:GLU:HA	1:A:274:ARG:CA	2.40	0.51
1:A:41:TRP:CE3	1:A:42:ASP:N	2.79	0.51
1:C:78:VAL:HG11	1:C:444:LEU:HG	1.91	0.51
1:C:458:ARG:NH2	1:C:500:ALA:CB	2.72	0.51
1:C:27:ARG:CG	1:D:212:LEU:HD13	2.34	0.51
1:D:363:TYR:OH	1:D:373:LEU:O	2.26	0.51
1:D:41:TRP:CE3	1:D:42:ASP:N	2.79	0.51
1:E:26:ARG:HA	1:E:26:ARG:HE	1.74	0.51
1:F:14:ARG:NE	1:F:14:ARG:CA	2.71	0.51
1:F:32:ASP:HA	1:F:35:PHE:CD1	2.45	0.51
1:G:41:TRP:CE3	1:G:42:ASP:N	2.79	0.51
1:I:643:ASN:O	1:I:647:ALA:HB2	2.09	0.51
1:J:32:ASP:HA	1:J:35:PHE:CD1	2.45	0.51
1:J:458:ARG:NH2	1:J:500:ALA:CB	2.72	0.51
1:L:179:MET:SD	1:L:184:TRP:HA	2.49	0.51
1:A:269:ARG:HH11	1:A:270:GLN:H	1.58	0.51
1:C:201:PHE:HA	1:C:283:CYS:SG	2.50	0.51
1:D:11:ILE:HD12	1:D:285:ALA:CA	2.31	0.51
1:D:127:ARG:O	1:D:128:LEU:HD23	2.08	0.51
1:G:43:ASP:OD1	1:G:327:GLN:OE1	2.28	0.51
1:G:352:TRP:HD1	1:H:374:LEU:O	1.93	0.51
1:G:577:ILE:HG12	1:G:582:LYS:CG	2.36	0.51
1:I:43:ASP:OD1	1:I:327:GLN:OE1	2.28	0.51
1:J:352:TRP:HD1	1:K:374:LEU:O	1.94	0.51
1:J:78:VAL:HG11	1:J:444:LEU:HG	1.91	0.51
1:L:602:GLY:O	1:L:603:GLN:C	2.48	0.51
1:A:32:ASP:HA	1:A:35:PHE:CD1	2.45	0.51
1:B:309:PHE:HB2	1:C:150:HIS:ND1	2.25	0.51
1:B:49:THR:O	1:B:49:THR:CG2	2.54	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:443:ASP:C	1:C:444:LEU:HD13	2.29	0.51
1:D:438:LEU:HD11	1:E:108:LYS:CD	2.37	0.51
1:E:549:TYR:O	1:E:552:LEU:HB3	2.11	0.51
1:F:41:TRP:CE3	1:F:42:ASP:N	2.78	0.51
1:F:549:TYR:O	1:F:552:LEU:HB3	2.10	0.51
1:H:32:ASP:HA	1:H:35:PHE:CD1	2.45	0.51
1:J:227:GLU:HA	1:J:274:ARG:CA	2.40	0.51
1:L:43:ASP:OD1	1:L:327:GLN:OE1	2.28	0.51
1:L:32:ASP:HA	1:L:35:PHE:CD1	2.45	0.51
1:A:444:LEU:C	1:A:446:THR:H	2.13	0.51
1:B:191:TYR:HE1	1:B:278:LYS:HZ3	1.57	0.51
1:B:549:TYR:O	1:B:552:LEU:HB3	2.11	0.51
1:C:158:TRP:HE3	1:C:173:CYS:SG	2.34	0.51
1:E:92:ASP:HB3	1:F:561:ASP:OD2	2.10	0.51
1:G:269:ARG:HH11	1:G:270:GLN:H	1.58	0.51
1:H:208:VAL:HG12	1:H:210:PRO:HD3	1.91	0.51
1:H:43:ASP:OD1	1:H:327:GLN:OE1	2.28	0.51
1:I:201:PHE:HA	1:I:283:CYS:SG	2.50	0.51
1:I:41:TRP:CE3	1:I:42:ASP:N	2.79	0.51
1:I:78:VAL:HG11	1:I:444:LEU:HG	1.91	0.51
1:J:602:GLY:O	1:J:603:GLN:C	2.48	0.51
1:J:78:VAL:CG1	1:J:79:LEU:H	2.22	0.51
1:K:143:VAL:HG12	1:K:144:ILE:N	2.26	0.51
1:L:549:TYR:O	1:L:552:LEU:HB3	2.11	0.51
1:B:269:ARG:HH11	1:B:270:GLN:H	1.58	0.51
1:B:687:ALA:O	1:B:691:LEU:N	2.39	0.51
1:C:32:ASP:HA	1:C:35:PHE:CD1	2.45	0.51
1:C:41:TRP:CE3	1:C:42:ASP:N	2.79	0.51
1:D:269:ARG:HH11	1:D:270:GLN:H	1.58	0.51
1:D:273:ARG:HH22	1:D:453:LEU:HD21	1.76	0.51
1:E:444:LEU:C	1:E:446:THR:H	2.13	0.51
1:F:78:VAL:HG11	1:F:444:LEU:HG	1.91	0.51
1:H:14:ARG:CA	1:H:14:ARG:NE	2.71	0.51
1:H:633:GLN:O	1:H:637:ALA:N	2.35	0.51
1:H:700:GLN:O	1:H:701:ARG:C	2.49	0.51
1:I:158:TRP:HH2	1:I:302:PRO:HG3	1.71	0.51
1:I:549:TYR:O	1:I:552:LEU:HB3	2.11	0.51
1:I:700:GLN:O	1:I:701:ARG:C	2.49	0.51
1:B:309:PHE:HB2	1:C:150:HIS:CG	2.45	0.51
1:D:352:TRP:NE1	1:E:385:PRO:HG2	2.25	0.51
1:D:549:TYR:O	1:D:552:LEU:HB3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:43:ASP:OD1	1:E:327:GLN:OE1	2.28	0.51
1:F:160:SER:O	1:F:161:ASN:ND2	2.44	0.51
1:F:80:TYR:CE1	1:F:448:VAL:HG22	2.46	0.51
1:G:273:ARG:HH22	1:G:453:LEU:HD21	1.76	0.51
1:G:40:GLN:O	1:G:41:TRP:CB	2.56	0.51
1:G:700:GLN:O	1:G:701:ARG:C	2.49	0.51
1:G:78:VAL:CG1	1:G:79:LEU:H	2.22	0.51
1:H:444:LEU:C	1:H:446:THR:H	2.13	0.51
1:J:363:TYR:OH	1:J:373:LEU:O	2.26	0.51
1:J:80:TYR:CE1	1:J:448:VAL:HG22	2.46	0.51
1:K:41:TRP:CE3	1:K:42:ASP:N	2.79	0.51
1:L:143:VAL:HG12	1:L:144:ILE:N	2.26	0.51
1:L:126:TRP:HB2	1:L:147:GLU:O	2.11	0.51
1:L:158:TRP:O	1:L:160:SER:N	2.44	0.51
1:A:43:ASP:OD1	1:A:327:GLN:OE1	2.28	0.51
1:B:201:PHE:HA	1:B:283:CYS:SG	2.50	0.51
1:B:80:TYR:CE1	1:B:448:VAL:HG22	2.46	0.51
1:B:248:LYS:NZ	1:B:513:ARG:HH12	2.09	0.51
1:B:700:GLN:O	1:B:701:ARG:C	2.49	0.51
1:D:80:TYR:CE1	1:D:448:VAL:HG22	2.46	0.51
1:D:89:ASP:HA	1:E:561:ASP:CB	2.38	0.51
1:E:158:TRP:O	1:E:160:SER:N	2.44	0.51
1:E:198:ILE:O	1:E:198:ILE:HG22	2.11	0.51
1:E:41:TRP:CE3	1:E:42:ASP:N	2.79	0.51
1:G:158:TRP:O	1:G:160:SER:N	2.44	0.51
1:G:444:LEU:C	1:G:446:THR:H	2.13	0.51
1:G:80:TYR:CE1	1:G:448:VAL:HG22	2.46	0.51
1:H:158:TRP:O	1:H:160:SER:N	2.44	0.51
1:H:602:GLY:O	1:H:603:GLN:C	2.48	0.51
1:J:383:ASP:C	1:J:385:PRO:HD3	2.32	0.51
1:K:160:SER:O	1:K:161:ASN:ND2	2.44	0.51
1:K:273:ARG:HH22	1:K:453:LEU:HD21	1.76	0.51
1:K:700:GLN:O	1:K:701:ARG:C	2.49	0.51
1:L:577:ILE:HG12	1:L:582:LYS:CG	2.36	0.51
1:L:700:GLN:O	1:L:701:ARG:C	2.49	0.51
1:A:248:LYS:NZ	1:A:513:ARG:HH12	2.09	0.51
1:C:158:TRP:HH2	1:C:302:PRO:HG3	1.71	0.51
1:C:158:TRP:O	1:C:160:SER:N	2.44	0.51
1:C:84:ASP:OD1	1:D:526:SER:HB2	2.11	0.51
1:D:126:TRP:HB2	1:D:147:GLU:O	2.11	0.51
1:D:41:TRP:CG	1:D:42:ASP:N	2.77	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:273:ARG:HH22	1:E:453:LEU:HD21	1.76	0.51
1:E:434:THR:HA	1:E:437:GLN:HG2	1.93	0.51
1:G:160:SER:O	1:G:161:ASN:ND2	2.44	0.51
1:G:158:TRP:HE3	1:G:173:CYS:SG	2.34	0.51
1:G:227:GLU:HA	1:G:274:ARG:CA	2.39	0.51
1:G:248:LYS:NZ	1:G:513:ARG:HH12	2.09	0.51
1:I:126:TRP:HB2	1:I:147:GLU:O	2.11	0.51
1:J:41:TRP:CE3	1:J:42:ASP:N	2.79	0.51
1:K:269:ARG:HH11	1:K:270:GLN:H	1.58	0.51
1:B:273:ARG:HH22	1:B:453:LEU:HD21	1.75	0.51
1:A:352:TRP:CD2	1:B:376:ARG:HB2	2.46	0.51
1:B:633:GLN:O	1:B:637:ALA:N	2.35	0.51
1:C:160:SER:O	1:C:161:ASN:ND2	2.44	0.51
1:C:80:TYR:CE1	1:C:448:VAL:HG22	2.46	0.51
1:D:158:TRP:O	1:D:160:SER:N	2.44	0.51
1:D:160:SER:O	1:D:161:ASN:ND2	2.44	0.51
1:E:383:ASP:C	1:E:385:PRO:HD3	2.32	0.51
1:F:438:LEU:HD11	1:G:108:LYS:NZ	2.26	0.51
1:E:322:LEU:HD11	1:F:58:ASP:OD2	2.06	0.51
1:H:41:TRP:CE3	1:H:42:ASP:N	2.78	0.51
1:I:80:TYR:CE1	1:I:448:VAL:HG22	2.46	0.51
1:J:126:TRP:HB2	1:J:147:GLU:O	2.11	0.51
1:J:549:TYR:O	1:J:552:LEU:HB3	2.10	0.51
1:K:383:ASP:C	1:K:385:PRO:HD3	2.32	0.51
1:A:158:TRP:HE3	1:A:173:CYS:SG	2.34	0.50
1:A:584:PRO:CG	1:A:590:GLN:HG2	2.39	0.50
1:B:14:ARG:CA	1:B:14:ARG:NE	2.71	0.50
1:B:158:TRP:O	1:B:160:SER:N	2.44	0.50
1:B:160:SER:O	1:B:161:ASN:ND2	2.44	0.50
1:B:41:TRP:CE3	1:B:42:ASP:N	2.78	0.50
1:B:444:LEU:C	1:B:446:THR:H	2.13	0.50
1:B:78:VAL:CG1	1:B:79:LEU:H	2.22	0.50
1:C:27:ARG:NH1	1:D:211:TRP:HB3	2.25	0.50
1:E:143:VAL:HG12	1:E:144:ILE:N	2.26	0.50
1:E:687:ALA:O	1:E:691:LEU:N	2.40	0.50
1:F:126:TRP:HB2	1:F:147:GLU:O	2.11	0.50
1:G:549:TYR:O	1:G:552:LEU:HB3	2.11	0.50
1:H:71:MET:HE1	1:H:115:VAL:HB	1.92	0.50
1:H:126:TRP:HB2	1:H:147:GLU:O	2.11	0.50
1:H:143:VAL:HG12	1:H:144:ILE:N	2.26	0.50
1:H:248:LYS:NZ	1:H:513:ARG:HH12	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:269:ARG:HH11	1:H:270:GLN:H	1.58	0.50
1:H:436:ASN:O	1:H:439:ASN:N	2.45	0.50
1:K:158:TRP:O	1:K:160:SER:N	2.44	0.50
1:K:80:TYR:CE1	1:K:448:VAL:HG22	2.46	0.50
1:K:78:VAL:CG1	1:K:79:LEU:H	2.22	0.50
1:L:198:ILE:HG22	1:L:198:ILE:O	2.11	0.50
1:L:383:ASP:C	1:L:385:PRO:HD3	2.32	0.50
1:L:434:THR:HA	1:L:437:GLN:HG2	1.93	0.50
1:A:434:THR:HA	1:A:437:GLN:HG2	1.93	0.50
1:C:143:VAL:HG12	1:C:144:ILE:N	2.26	0.50
1:D:700:GLN:O	1:D:701:ARG:C	2.49	0.50
1:F:158:TRP:O	1:F:160:SER:N	2.44	0.50
1:F:158:TRP:HE3	1:F:173:CYS:SG	2.34	0.50
1:H:158:TRP:HE3	1:H:173:CYS:SG	2.34	0.50
1:I:11:ILE:O	1:I:15:PHE:HB2	2.12	0.50
1:I:363:TYR:OH	1:I:373:LEU:O	2.26	0.50
1:I:383:ASP:C	1:I:385:PRO:HD3	2.32	0.50
1:I:66:LYS:HZ3	1:I:420:VAL:CG1	2.24	0.50
1:J:158:TRP:HE3	1:J:173:CYS:SG	2.34	0.50
1:J:444:LEU:C	1:J:446:THR:H	2.13	0.50
1:J:586:THR:N	1:J:587:PRO:CD	2.75	0.50
1:J:700:GLN:O	1:J:701:ARG:C	2.49	0.50
1:K:158:TRP:HE3	1:K:173:CYS:SG	2.34	0.50
1:K:434:THR:HA	1:K:437:GLN:HG2	1.93	0.50
1:L:45:LEU:CD2	1:L:328:ARG:NH2	2.75	0.50
1:L:41:TRP:CE3	1:L:42:ASP:N	2.79	0.50
1:L:80:TYR:CE1	1:L:448:VAL:HG22	2.46	0.50
1:A:126:TRP:HB2	1:A:147:GLU:O	2.11	0.50
1:A:11:ILE:O	1:A:15:PHE:HB2	2.12	0.50
1:B:386:THR:O	1:B:387:GLN:C	2.50	0.50
1:B:593:LEU:O	1:B:595:GLU:N	2.45	0.50
1:C:11:ILE:O	1:C:15:PHE:HB2	2.12	0.50
1:D:11:ILE:O	1:D:15:PHE:HB2	2.12	0.50
1:D:14:ARG:CA	1:D:14:ARG:NE	2.71	0.50
1:D:434:THR:HA	1:D:437:GLN:HG2	1.93	0.50
1:E:269:ARG:HH11	1:E:270:GLN:H	1.58	0.50
1:G:586:THR:N	1:G:587:PRO:CD	2.75	0.50
1:H:386:THR:O	1:H:387:GLN:C	2.50	0.50
1:H:80:TYR:CE1	1:H:448:VAL:HG22	2.46	0.50
1:I:273:ARG:HH22	1:I:453:LEU:HD21	1.76	0.50
1:K:45:LEU:CD2	1:K:328:ARG:NH2	2.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:11:ILE:O	1:L:15:PHE:HB2	2.12	0.50
1:L:80:TYR:CE2	1:L:94:LEU:HD22	2.47	0.50
1:A:549:TYR:O	1:A:552:LEU:HB3	2.10	0.50
1:B:126:TRP:HB2	1:B:147:GLU:O	2.11	0.50
1:B:78:VAL:HG22	1:B:444:LEU:HD21	1.94	0.50
1:B:80:TYR:CE2	1:B:94:LEU:HD22	2.47	0.50
1:C:248:LYS:NZ	1:C:513:ARG:HH12	2.09	0.50
1:C:383:ASP:C	1:C:385:PRO:HD3	2.32	0.50
1:D:158:TRP:HE3	1:D:173:CYS:SG	2.34	0.50
1:D:444:LEU:C	1:D:446:THR:H	2.13	0.50
1:E:126:TRP:HB2	1:E:147:GLU:O	2.11	0.50
1:D:27:ARG:CZ	1:E:211:TRP:CB	2.89	0.50
1:F:248:LYS:NZ	1:F:513:ARG:HH12	2.09	0.50
1:G:11:ILE:HD12	1:G:285:ALA:CA	2.31	0.50
1:G:138:THR:HG23	1:G:143:VAL:CG2	2.37	0.50
1:G:404:MET:CE	1:H:337:ASN:HB2	2.42	0.50
1:H:138:THR:HG23	1:H:143:VAL:CG2	2.37	0.50
1:H:11:ILE:O	1:H:15:PHE:HB2	2.12	0.50
1:I:248:LYS:NZ	1:I:513:ARG:HH12	2.09	0.50
1:J:248:LYS:NZ	1:J:513:ARG:HH12	2.09	0.50
1:J:560:LEU:O	1:J:565:VAL:HG21	2.12	0.50
1:K:386:THR:O	1:K:387:GLN:C	2.50	0.50
1:L:158:TRP:HE3	1:L:173:CYS:SG	2.34	0.50
1:L:209:PHE:N	1:L:210:PRO:CD	2.72	0.50
1:A:386:THR:O	1:A:387:GLN:C	2.50	0.50
1:B:198:ILE:HG22	1:B:198:ILE:O	2.11	0.50
1:A:350:PHE:CE1	1:B:372:TYR:CB	2.94	0.50
1:C:227:GLU:HA	1:C:274:ARG:CA	2.39	0.50
1:C:560:LEU:O	1:C:565:VAL:HG21	2.12	0.50
1:C:643:ASN:O	1:C:647:ALA:N	2.36	0.50
1:E:80:TYR:CE2	1:E:94:LEU:HD22	2.47	0.50
1:E:171:ARG:HH21	1:F:182:ASN:ND2	2.10	0.50
1:G:143:VAL:HG12	1:G:144:ILE:N	2.26	0.50
1:G:198:ILE:O	1:G:198:ILE:HG22	2.11	0.50
1:G:209:PHE:N	1:G:210:PRO:CD	2.72	0.50
1:G:231:THR:CG2	1:G:249:ARG:HE	2.25	0.50
1:G:386:THR:O	1:G:387:GLN:C	2.50	0.50
1:H:231:THR:CG2	1:H:249:ARG:HE	2.25	0.50
1:H:434:THR:HA	1:H:437:GLN:HG2	1.93	0.50
1:H:78:VAL:HG22	1:H:444:LEU:HD21	1.94	0.50
1:H:586:THR:N	1:H:587:PRO:CD	2.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:593:LEU:O	1:H:595:GLU:N	2.45	0.50
1:J:143:VAL:HG12	1:J:144:ILE:N	2.26	0.50
1:J:160:SER:O	1:J:161:ASN:ND2	2.44	0.50
1:K:11:ILE:O	1:K:15:PHE:HB2	2.12	0.50
1:K:549:TYR:O	1:K:552:LEU:HB3	2.11	0.50
1:L:38:VAL:O	1:L:43:ASP:OD2	2.30	0.50
1:A:160:SER:O	1:A:161:ASN:ND2	2.44	0.50
1:A:383:ASP:C	1:A:385:PRO:HD3	2.32	0.50
1:A:78:VAL:HG22	1:A:444:LEU:HD21	1.94	0.50
1:C:549:TYR:O	1:C:552:LEU:HB3	2.11	0.50
1:D:593:LEU:O	1:D:595:GLU:N	2.45	0.50
1:D:80:TYR:CE2	1:D:94:LEU:HD22	2.47	0.50
1:E:11:ILE:O	1:E:15:PHE:HB2	2.12	0.50
1:E:158:TRP:HE3	1:E:173:CYS:SG	2.34	0.50
1:E:45:LEU:CD2	1:E:328:ARG:NH2	2.75	0.50
1:E:38:VAL:O	1:E:43:ASP:OD2	2.30	0.50
1:E:584:PRO:CG	1:E:590:GLN:HG2	2.39	0.50
1:E:390:ALA:CB	1:F:387:GLN:HB2	2.41	0.50
1:F:577:ILE:HG12	1:F:582:LYS:CG	2.36	0.50
1:H:383:ASP:C	1:H:385:PRO:HD3	2.32	0.50
1:H:560:LEU:O	1:H:565:VAL:HG21	2.12	0.50
1:I:158:TRP:O	1:I:160:SER:N	2.44	0.50
1:I:32:ASP:HA	1:I:35:PHE:CD1	2.45	0.50
1:I:560:LEU:O	1:I:565:VAL:HG21	2.12	0.50
1:I:593:LEU:O	1:I:595:GLU:N	2.45	0.50
1:I:80:TYR:CE2	1:I:94:LEU:HD22	2.47	0.50
1:J:434:THR:HA	1:J:437:GLN:HG2	1.93	0.50
1:K:248:LYS:NZ	1:K:513:ARG:HH12	2.09	0.50
1:K:348:LYS:HB2	1:L:372:TYR:CE2	2.46	0.50
1:K:577:ILE:HG12	1:K:582:LYS:CG	2.36	0.50
1:A:273:ARG:HH22	1:A:453:LEU:HD21	1.76	0.50
1:A:586:THR:N	1:A:587:PRO:CD	2.75	0.50
1:B:158:TRP:HE3	1:B:173:CYS:SG	2.34	0.50
1:B:383:ASP:C	1:B:385:PRO:HD3	2.32	0.50
1:B:434:THR:HA	1:B:437:GLN:HG2	1.94	0.50
1:C:11:ILE:HD12	1:C:285:ALA:CA	2.31	0.50
1:C:273:ARG:HH22	1:C:453:LEU:HD21	1.76	0.50
1:C:633:GLN:O	1:C:637:ALA:N	2.35	0.50
1:D:198:ILE:HG22	1:D:198:ILE:O	2.11	0.50
1:D:231:THR:CG2	1:D:249:ARG:HE	2.25	0.50
1:D:58:ASP:O	1:D:58:ASP:OD1	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:248:LYS:NZ	1:E:513:ARG:HH12	2.09	0.50
1:F:383:ASP:C	1:F:385:PRO:HD3	2.32	0.50
1:G:11:ILE:O	1:G:15:PHE:HB2	2.12	0.50
1:G:191:TYR:HE1	1:G:278:LYS:HZ3	1.58	0.50
1:G:66:LYS:HZ3	1:G:420:VAL:CG1	2.25	0.50
1:G:80:TYR:CE2	1:G:94:LEU:HD22	2.47	0.50
1:H:45:LEU:CD2	1:H:328:ARG:NH2	2.75	0.50
1:I:158:TRP:HE3	1:I:173:CYS:SG	2.34	0.50
1:I:78:VAL:HG22	1:I:444:LEU:HD21	1.94	0.50
1:I:643:ASN:O	1:I:647:ALA:N	2.36	0.50
1:J:633:GLN:O	1:J:637:ALA:N	2.35	0.50
1:K:444:LEU:C	1:K:446:THR:H	2.13	0.50
1:K:602:GLY:O	1:K:603:GLN:C	2.48	0.50
1:A:45:LEU:CD2	1:A:328:ARG:NH2	2.75	0.50
1:A:700:GLN:O	1:A:701:ARG:C	2.49	0.50
1:B:227:GLU:HA	1:B:274:ARG:CA	2.39	0.50
1:C:28:GLU:HB2	1:C:313:LYS:HZ2	1.77	0.50
1:C:66:LYS:HZ1	1:C:420:VAL:HG11	1.77	0.50
1:C:434:THR:HA	1:C:437:GLN:HG2	1.93	0.50
1:D:586:THR:N	1:D:587:PRO:CD	2.75	0.50
1:F:45:LEU:CD2	1:F:328:ARG:NH2	2.75	0.50
1:F:80:TYR:CE2	1:F:94:LEU:HD22	2.47	0.50
1:H:273:ARG:HH22	1:H:453:LEU:HD21	1.76	0.50
1:H:415:VAL:HA	1:I:62:PRO:HG3	1.94	0.50
1:H:80:TYR:CE2	1:H:94:LEU:HD22	2.47	0.50
1:I:45:LEU:CD2	1:I:328:ARG:NH2	2.75	0.50
1:I:38:VAL:O	1:I:43:ASP:OD2	2.30	0.50
1:J:158:TRP:O	1:J:160:SER:N	2.44	0.50
1:J:28:GLU:HB2	1:J:313:LYS:HZ2	1.76	0.50
1:K:14:ARG:NE	1:K:14:ARG:CA	2.71	0.50
1:L:160:SER:O	1:L:161:ASN:ND2	2.44	0.50
1:L:386:THR:O	1:L:387:GLN:C	2.50	0.50
1:L:436:ASN:O	1:L:439:ASN:N	2.45	0.50
1:L:58:ASP:O	1:L:58:ASP:OD1	2.30	0.50
1:A:434:THR:HA	1:A:437:GLN:CG	2.42	0.50
1:A:80:TYR:CE1	1:A:448:VAL:HG22	2.46	0.50
1:B:38:VAL:O	1:B:43:ASP:OD2	2.30	0.50
1:C:577:ILE:HG12	1:C:582:LYS:CG	2.36	0.50
1:C:586:THR:N	1:C:587:PRO:CD	2.75	0.50
1:C:58:ASP:O	1:C:58:ASP:OD1	2.30	0.50
1:C:593:LEU:O	1:C:595:GLU:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:700:GLN:O	1:C:701:ARG:C	2.49	0.50
1:G:383:ASP:C	1:G:385:PRO:HD3	2.32	0.50
1:H:160:SER:O	1:H:161:ASN:ND2	2.44	0.50
1:I:434:THR:HA	1:I:437:GLN:HG2	1.93	0.50
1:J:11:ILE:O	1:J:15:PHE:HB2	2.12	0.50
1:J:198:ILE:HG22	1:J:198:ILE:O	2.11	0.50
1:J:434:THR:HA	1:J:437:GLN:CG	2.42	0.50
1:K:350:PHE:HA	1:L:372:TYR:O	2.12	0.50
1:K:687:ALA:O	1:K:691:LEU:N	2.40	0.50
1:K:80:TYR:CE2	1:K:94:LEU:HD22	2.47	0.50
1:K:309:PHE:HB2	1:L:150:HIS:CG	2.47	0.50
1:L:227:GLU:HA	1:L:274:ARG:CA	2.39	0.50
1:L:456:ALA:HB1	1:L:509:ASP:OD2	2.12	0.50
1:L:586:THR:N	1:L:587:PRO:CD	2.75	0.50
1:A:158:TRP:O	1:A:160:SER:N	2.44	0.49
1:A:191:TYR:HE1	1:A:278:LYS:HZ3	1.58	0.49
1:A:236:GLN:HE21	1:A:265:LYS:HZ1	1.59	0.49
1:B:45:LEU:CD2	1:B:328:ARG:NH2	2.75	0.49
1:B:363:TYR:OH	1:B:373:LEU:O	2.26	0.49
1:C:126:TRP:HB2	1:C:147:GLU:O	2.11	0.49
1:C:209:PHE:N	1:C:210:PRO:CD	2.72	0.49
1:D:227:GLU:HA	1:D:274:ARG:CA	2.39	0.49
1:D:45:LEU:CD2	1:D:328:ARG:NH2	2.75	0.49
1:D:456:ALA:HB1	1:D:509:ASP:OD2	2.12	0.49
1:E:411:ALA:CB	1:F:57:PHE:HD1	2.25	0.49
1:F:11:ILE:O	1:F:15:PHE:HB2	2.12	0.49
1:F:198:ILE:O	1:F:198:ILE:HG22	2.11	0.49
1:F:434:THR:HA	1:F:437:GLN:CG	2.42	0.49
1:G:126:TRP:HB2	1:G:147:GLU:O	2.11	0.49
1:I:160:SER:O	1:I:161:ASN:ND2	2.44	0.49
1:I:209:PHE:N	1:I:210:PRO:CD	2.72	0.49
1:J:273:ARG:HH22	1:J:453:LEU:HD21	1.76	0.49
1:J:45:LEU:CD2	1:J:328:ARG:NH2	2.75	0.49
1:J:58:ASP:O	1:J:58:ASP:OD1	2.30	0.49
1:J:80:TYR:CE2	1:J:94:LEU:HD22	2.47	0.49
1:B:310:VAL:C	1:B:312:ASP:N	2.66	0.49
1:B:586:THR:N	1:B:587:PRO:CD	2.75	0.49
1:C:386:THR:O	1:C:387:GLN:C	2.50	0.49
1:C:49:THR:O	1:C:49:THR:CG2	2.54	0.49
1:E:80:TYR:CE1	1:E:448:VAL:HG22	2.46	0.49
1:E:586:THR:N	1:E:587:PRO:CD	2.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:602:GLY:O	1:E:603:GLN:C	2.48	0.49
1:F:209:PHE:N	1:F:210:PRO:CD	2.72	0.49
1:F:560:LEU:O	1:F:565:VAL:HG21	2.12	0.49
1:G:593:LEU:O	1:G:595:GLU:N	2.45	0.49
1:H:38:VAL:O	1:H:43:ASP:OD2	2.30	0.49
1:I:434:THR:HA	1:I:437:GLN:CG	2.42	0.49
1:J:38:VAL:O	1:J:43:ASP:OD2	2.30	0.49
1:K:586:THR:N	1:K:587:PRO:CD	2.75	0.49
1:L:273:ARG:HH22	1:L:453:LEU:HD21	1.76	0.49
1:L:248:LYS:NZ	1:L:513:ARG:HH12	2.09	0.49
1:B:456:ALA:HB1	1:B:509:ASP:OD2	2.12	0.49
1:B:541:LYS:HD3	1:B:542:THR:HG23	1.95	0.49
1:C:191:TYR:HE1	1:C:278:LYS:HZ3	1.59	0.49
1:C:45:LEU:CD2	1:C:328:ARG:NH2	2.75	0.49
1:C:80:TYR:CE2	1:C:94:LEU:HD22	2.47	0.49
1:D:78:VAL:HG22	1:D:444:LEU:HD21	1.94	0.49
1:D:541:LYS:HD3	1:D:542:THR:HG23	1.95	0.49
1:E:227:GLU:HA	1:E:274:ARG:CA	2.39	0.49
1:E:456:ALA:HB1	1:E:509:ASP:OD2	2.12	0.49
1:F:58:ASP:OD1	1:F:58:ASP:O	2.30	0.49
1:G:456:ALA:HB1	1:G:509:ASP:OD2	2.12	0.49
1:G:541:LYS:HD3	1:G:542:THR:HG23	1.95	0.49
1:G:602:GLY:O	1:G:603:GLN:C	2.48	0.49
1:I:231:THR:CG2	1:I:249:ARG:HE	2.25	0.49
1:J:231:THR:CG2	1:J:249:ARG:HE	2.25	0.49
1:K:198:ILE:O	1:K:198:ILE:HG22	2.11	0.49
1:K:231:THR:CG2	1:K:249:ARG:HE	2.25	0.49
1:K:436:ASN:O	1:K:439:ASN:N	2.45	0.49
1:L:434:THR:HA	1:L:437:GLN:CG	2.42	0.49
1:L:560:LEU:O	1:L:565:VAL:HG21	2.12	0.49
1:A:143:VAL:HG12	1:A:144:ILE:N	2.26	0.49
1:A:198:ILE:O	1:A:198:ILE:HG22	2.11	0.49
1:A:577:ILE:HG12	1:A:582:LYS:CG	2.36	0.49
1:A:80:TYR:CE2	1:A:94:LEU:HD22	2.47	0.49
1:B:58:ASP:OD1	1:B:58:ASP:O	2.30	0.49
1:C:198:ILE:HG22	1:C:198:ILE:O	2.11	0.49
1:C:269:ARG:HH11	1:C:270:GLN:H	1.58	0.49
1:E:436:ASN:O	1:E:439:ASN:N	2.45	0.49
1:E:78:VAL:HG22	1:E:444:LEU:HD21	1.94	0.49
1:F:273:ARG:HH22	1:F:453:LEU:HD21	1.76	0.49
1:F:386:THR:O	1:F:387:GLN:C	2.50	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:78:VAL:HG22	1:F:444:LEU:HD21	1.94	0.49
1:G:35:PHE:HE2	1:G:324:LYS:HZ3	1.61	0.49
1:G:78:VAL:HG22	1:G:444:LEU:HD21	1.94	0.49
1:H:198:ILE:O	1:H:198:ILE:HG22	2.11	0.49
1:I:58:ASP:O	1:I:58:ASP:OD1	2.30	0.49
1:J:386:THR:O	1:J:387:GLN:C	2.50	0.49
1:J:593:LEU:O	1:J:595:GLU:N	2.45	0.49
1:K:126:TRP:HB2	1:K:147:GLU:O	2.11	0.49
1:K:227:GLU:HA	1:K:274:ARG:CA	2.39	0.49
1:L:593:LEU:O	1:L:595:GLU:N	2.45	0.49
1:A:593:LEU:O	1:A:595:GLU:N	2.45	0.49
1:B:143:VAL:HG12	1:B:144:ILE:N	2.26	0.49
1:C:456:ALA:HB1	1:C:509:ASP:OD2	2.12	0.49
1:D:434:THR:HA	1:D:437:GLN:CG	2.42	0.49
1:E:160:SER:O	1:E:161:ASN:ND2	2.44	0.49
1:F:143:VAL:HG12	1:F:144:ILE:N	2.26	0.49
1:F:227:GLU:HA	1:F:274:ARG:CA	2.39	0.49
1:F:434:THR:HA	1:F:437:GLN:HG2	1.93	0.49
1:F:593:LEU:O	1:F:595:GLU:N	2.45	0.49
1:H:209:PHE:N	1:H:210:PRO:CD	2.72	0.49
1:H:227:GLU:HA	1:H:274:ARG:CA	2.39	0.49
1:I:143:VAL:HG12	1:I:144:ILE:N	2.26	0.49
1:I:386:THR:O	1:I:387:GLN:C	2.50	0.49
1:I:586:THR:N	1:I:587:PRO:CD	2.75	0.49
1:I:350:PHE:HE1	1:J:363:TYR:HE1	1.60	0.49
1:J:436:ASN:O	1:J:439:ASN:N	2.45	0.49
1:K:560:LEU:O	1:K:565:VAL:HG21	2.12	0.49
1:K:593:LEU:O	1:K:595:GLU:N	2.45	0.49
1:K:378:ASP:OD2	1:L:376:ARG:NH2	2.45	0.49
1:K:352:TRP:HZ2	1:L:385:PRO:HG2	1.78	0.49
1:A:456:ALA:HB1	1:A:509:ASP:OD2	2.12	0.49
1:A:58:ASP:OD1	1:A:58:ASP:O	2.30	0.49
1:A:27:ARG:NH1	1:B:211:TRP:HB3	2.26	0.49
1:B:231:THR:CG2	1:B:249:ARG:HE	2.25	0.49
1:B:434:THR:HA	1:B:437:GLN:CG	2.42	0.49
1:C:14:ARG:NE	1:C:14:ARG:CA	2.71	0.49
1:C:231:THR:CG2	1:C:249:ARG:HE	2.25	0.49
1:D:138:THR:HG23	1:D:143:VAL:CG2	2.37	0.49
1:D:360:GLU:CB	1:E:371:TYR:OH	2.61	0.49
1:E:401:ASN:OD1	1:F:341:VAL:HG13	2.12	0.49
1:E:560:LEU:O	1:E:565:VAL:HG21	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:593:LEU:O	1:E:595:GLU:N	2.45	0.49
1:E:700:GLN:O	1:E:701:ARG:C	2.49	0.49
1:G:434:THR:HA	1:G:437:GLN:CG	2.42	0.49
1:J:456:ALA:HB1	1:J:509:ASP:OD2	2.12	0.49
1:K:138:THR:HG23	1:K:143:VAL:CG2	2.37	0.49
1:K:434:THR:HA	1:K:437:GLN:CG	2.42	0.49
1:L:231:THR:CG2	1:L:249:ARG:HE	2.25	0.49
1:L:363:TYR:OH	1:L:373:LEU:O	2.26	0.49
1:B:11:ILE:O	1:B:15:PHE:HB2	2.12	0.49
1:C:138:THR:HG23	1:C:143:VAL:CG2	2.37	0.49
1:C:165:MET:HE3	1:C:435:VAL:HB	1.95	0.49
1:D:386:THR:O	1:D:387:GLN:C	2.50	0.49
1:D:560:LEU:O	1:D:565:VAL:HG21	2.12	0.49
1:E:101:ASP:CB	1:E:138:THR:HG21	2.43	0.49
1:E:434:THR:HA	1:E:437:GLN:CG	2.42	0.49
1:F:456:ALA:HB1	1:F:509:ASP:OD2	2.12	0.49
1:G:45:LEU:CD2	1:G:328:ARG:NH2	2.75	0.49
1:G:434:THR:HA	1:G:437:GLN:HG2	1.93	0.49
1:G:58:ASP:OD1	1:G:58:ASP:O	2.30	0.49
1:H:541:LYS:HD3	1:H:542:THR:HG23	1.94	0.49
1:I:101:ASP:CB	1:I:138:THR:HG21	2.43	0.49
1:I:198:ILE:HG22	1:I:198:ILE:O	2.11	0.49
1:I:269:ARG:HH11	1:I:270:GLN:H	1.58	0.49
1:J:101:ASP:CB	1:J:138:THR:HG21	2.43	0.49
1:J:310:VAL:C	1:J:312:ASP:N	2.66	0.49
1:K:38:VAL:O	1:K:43:ASP:OD2	2.30	0.49
1:L:164:LEU:HA	1:L:307:TRP:CH2	2.48	0.49
1:A:209:PHE:N	1:A:210:PRO:CD	2.72	0.49
1:A:260:ASP:OD1	1:A:264:ILE:HG13	2.13	0.49
1:A:164:LEU:HA	1:A:307:TRP:CH2	2.48	0.49
1:A:560:LEU:O	1:A:565:VAL:HG21	2.12	0.49
1:B:702:MET:O	1:B:705:ALA:HB3	2.13	0.49
1:B:98:TYR:O	1:B:102:MET:HB2	2.13	0.49
1:C:78:VAL:HG22	1:C:444:LEU:HD21	1.94	0.49
1:D:143:VAL:HG12	1:D:144:ILE:N	2.26	0.49
1:D:383:ASP:C	1:D:385:PRO:HD3	2.32	0.49
1:D:38:VAL:O	1:D:43:ASP:OD2	2.30	0.49
1:E:541:LYS:HD3	1:E:542:THR:HG23	1.95	0.49
1:E:551:LEU:O	1:E:554:LEU:HB3	2.13	0.49
1:F:323:THR:O	1:F:327:GLN:HB2	2.13	0.49
1:F:700:GLN:O	1:F:701:ARG:C	2.49	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:27:ARG:HD2	1:H:212:LEU:H	1.78	0.49
1:H:58:ASP:OD1	1:H:58:ASP:O	2.30	0.49
1:I:551:LEU:O	1:I:554:LEU:HB3	2.13	0.49
1:K:456:ALA:HB1	1:K:509:ASP:OD2	2.12	0.49
1:J:557:PHE:CE2	1:K:563:LYS:HD3	2.47	0.49
1:A:101:ASP:CB	1:A:138:THR:HG21	2.43	0.49
1:A:436:ASN:O	1:A:439:ASN:N	2.45	0.49
1:A:551:LEU:O	1:A:554:LEU:HB3	2.13	0.49
1:B:101:ASP:CB	1:B:138:THR:HG21	2.43	0.49
1:C:260:ASP:OD1	1:C:264:ILE:HG13	2.13	0.49
1:F:586:THR:N	1:F:587:PRO:CD	2.75	0.49
1:G:687:ALA:O	1:G:691:LEU:N	2.40	0.49
1:G:98:TYR:O	1:G:102:MET:HB2	2.13	0.49
1:H:309:PHE:HB2	1:I:150:HIS:ND1	2.28	0.49
1:H:400:ALA:CB	1:I:395:PRO:HB2	2.43	0.49
1:H:456:ALA:HB1	1:H:509:ASP:OD2	2.12	0.49
1:H:702:MET:O	1:H:705:ALA:HB3	2.13	0.49
1:I:541:LYS:HD3	1:I:542:THR:HG23	1.95	0.49
1:J:541:LYS:HD3	1:J:542:THR:HG23	1.95	0.49
1:K:554:LEU:HD22	1:L:567:MET:CE	2.42	0.49
1:A:231:THR:CG2	1:A:249:ARG:HE	2.25	0.49
1:A:310:VAL:C	1:A:312:ASP:N	2.66	0.49
1:A:350:PHE:CE1	1:B:372:TYR:HB3	2.48	0.49
1:B:436:ASN:O	1:B:439:ASN:N	2.45	0.49
1:B:560:LEU:O	1:B:565:VAL:HG21	2.12	0.49
1:C:323:THR:O	1:C:327:GLN:HB2	2.13	0.49
1:D:101:ASP:CB	1:D:138:THR:HG21	2.43	0.49
1:E:231:THR:CG2	1:E:249:ARG:HE	2.25	0.49
1:G:14:ARG:NE	1:G:14:ARG:CA	2.71	0.49
1:G:560:LEU:O	1:G:565:VAL:HG21	2.12	0.49
1:H:260:ASP:OD1	1:H:264:ILE:HG13	2.13	0.49
1:I:246:TYR:CE2	1:I:512:GLY:N	2.81	0.49
1:K:551:LEU:O	1:K:554:LEU:HB3	2.13	0.49
1:K:58:ASP:O	1:K:58:ASP:OD1	2.30	0.49
1:L:158:TRP:HH2	1:L:302:PRO:HG3	1.71	0.49
1:L:246:TYR:CE2	1:L:512:GLY:N	2.81	0.49
1:L:78:VAL:HG22	1:L:444:LEU:HD21	1.94	0.49
1:L:702:MET:O	1:L:705:ALA:HB3	2.13	0.49
1:A:173:CYS:SG	1:A:298:ILE:HG21	2.53	0.48
1:C:101:ASP:CB	1:C:138:THR:HG21	2.43	0.48
1:E:164:LEU:HA	1:E:307:TRP:CH2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:350:PHE:CE1	1:E:363:TYR:HE1	2.31	0.48
1:E:58:ASP:OD1	1:E:58:ASP:O	2.30	0.48
1:E:702:MET:O	1:E:705:ALA:HB3	2.13	0.48
1:F:101:ASP:CB	1:F:138:THR:HG21	2.43	0.48
1:F:363:TYR:OH	1:F:373:LEU:O	2.26	0.48
1:H:323:THR:O	1:H:327:GLN:HB2	2.13	0.48
1:H:434:THR:HA	1:H:437:GLN:CG	2.42	0.48
1:J:325:ASP:OD2	1:K:56:GLN:N	2.45	0.48
1:L:541:LYS:HD3	1:L:542:THR:HG23	1.95	0.48
1:L:687:ALA:O	1:L:691:LEU:N	2.39	0.48
1:A:15:PHE:CE2	1:A:19:TRP:NE1	2.81	0.48
1:A:38:VAL:O	1:A:43:ASP:OD2	2.30	0.48
1:A:541:LYS:HD3	1:A:542:THR:HG23	1.95	0.48
1:B:15:PHE:CE2	1:B:19:TRP:NE1	2.81	0.48
1:D:323:THR:O	1:D:327:GLN:HB2	2.13	0.48
1:D:248:LYS:NZ	1:D:513:ARG:HH12	2.09	0.48
1:C:306:GLU:OE2	1:D:65:ARG:HG2	2.13	0.48
1:E:260:ASP:OD1	1:E:264:ILE:HG13	2.13	0.48
1:F:173:CYS:SG	1:F:298:ILE:HG21	2.54	0.48
1:F:231:THR:CG2	1:F:249:ARG:HE	2.25	0.48
1:F:260:ASP:OD1	1:F:264:ILE:HG13	2.13	0.48
1:F:38:VAL:O	1:F:43:ASP:OD2	2.30	0.48
1:G:310:VAL:C	1:G:312:ASP:N	2.66	0.48
1:G:702:MET:O	1:G:705:ALA:HB3	2.13	0.48
1:H:101:ASP:CB	1:H:138:THR:HG21	2.43	0.48
1:I:323:THR:O	1:I:327:GLN:HB2	2.13	0.48
1:I:456:ALA:HB1	1:I:509:ASP:OD2	2.12	0.48
1:I:59:VAL:O	1:I:62:PRO:CD	2.51	0.48
1:J:27:ARG:HD2	1:K:212:LEU:H	1.78	0.48
1:K:98:TYR:O	1:K:102:MET:HB2	2.13	0.48
1:K:15:PHE:CE2	1:K:19:TRP:NE1	2.81	0.48
1:K:260:ASP:OD1	1:K:264:ILE:HG13	2.13	0.48
1:A:98:TYR:O	1:A:102:MET:HB2	2.13	0.48
1:B:126:TRP:CD1	1:B:146:ARG:HG3	2.49	0.48
1:B:173:CYS:SG	1:B:298:ILE:HG21	2.53	0.48
1:C:38:VAL:O	1:C:43:ASP:OD2	2.30	0.48
1:C:434:THR:HA	1:C:437:GLN:CG	2.42	0.48
1:D:164:LEU:HA	1:D:307:TRP:CH2	2.48	0.48
1:E:98:TYR:O	1:E:102:MET:HB2	2.13	0.48
1:E:323:THR:O	1:E:327:GLN:HB2	2.13	0.48
1:E:633:GLN:O	1:E:637:ALA:N	2.35	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:238:PRO:HB3	1:F:263:PHE:HB2	1.96	0.48
1:F:436:ASN:O	1:F:439:ASN:N	2.45	0.48
1:G:238:PRO:HB3	1:G:263:PHE:HB2	1.96	0.48
1:F:390:ALA:HB3	1:G:387:GLN:OE1	2.11	0.48
1:H:126:TRP:CD1	1:H:146:ARG:HG3	2.49	0.48
1:H:164:LEU:HA	1:H:307:TRP:CH2	2.48	0.48
1:H:551:LEU:O	1:H:554:LEU:HB3	2.13	0.48
1:I:436:ASN:O	1:I:439:ASN:N	2.45	0.48
1:J:173:CYS:SG	1:J:298:ILE:HG21	2.53	0.48
1:J:260:ASP:OD1	1:J:264:ILE:HG13	2.13	0.48
1:J:323:THR:O	1:J:327:GLN:HB2	2.13	0.48
1:K:126:TRP:CD1	1:K:146:ARG:HG3	2.49	0.48
1:K:310:VAL:C	1:K:312:ASP:N	2.66	0.48
1:L:260:ASP:OD1	1:L:264:ILE:HG13	2.13	0.48
1:K:350:PHE:CE1	1:L:363:TYR:HE1	2.27	0.48
1:A:323:THR:O	1:A:327:GLN:HB2	2.13	0.48
1:C:15:PHE:CE2	1:C:19:TRP:NE1	2.81	0.48
1:D:687:ALA:O	1:D:691:LEU:N	2.39	0.48
1:D:702:MET:O	1:D:705:ALA:HB3	2.13	0.48
1:E:386:THR:O	1:E:387:GLN:C	2.50	0.48
1:G:173:CYS:SG	1:G:298:ILE:HG21	2.53	0.48
1:G:238:PRO:HG3	1:G:263:PHE:CB	2.44	0.48
1:G:164:LEU:HA	1:G:307:TRP:CH2	2.48	0.48
1:G:38:VAL:O	1:G:43:ASP:OD2	2.30	0.48
1:F:400:ALA:HB2	1:G:395:PRO:HB2	1.94	0.48
1:I:173:CYS:SG	1:I:298:ILE:HG21	2.53	0.48
1:I:262:GLY:O	1:I:263:PHE:HB3	2.14	0.48
1:I:164:LEU:HB2	1:J:109:ILE:HG21	1.96	0.48
1:J:14:ARG:NE	1:J:14:ARG:CA	2.71	0.48
1:J:449:PHE:CD1	1:J:449:PHE:N	2.82	0.48
1:J:551:LEU:O	1:J:554:LEU:HB3	2.13	0.48
1:J:98:TYR:O	1:J:102:MET:HB2	2.13	0.48
1:K:246:TYR:CE2	1:K:512:GLY:N	2.81	0.48
1:K:238:PRO:HG3	1:K:263:PHE:CB	2.44	0.48
1:L:551:LEU:O	1:L:554:LEU:HB3	2.13	0.48
1:L:98:TYR:O	1:L:102:MET:HB2	2.13	0.48
1:A:389:LEU:HD12	1:A:389:LEU:H	1.79	0.48
1:C:436:ASN:O	1:C:439:ASN:N	2.45	0.48
1:D:126:TRP:CD1	1:D:146:ARG:HG3	2.49	0.48
1:D:246:TYR:CE2	1:D:512:GLY:N	2.81	0.48
1:E:449:PHE:CD1	1:E:449:PHE:N	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:27:ARG:NH1	1:F:211:TRP:CB	2.77	0.48
1:G:15:PHE:CE2	1:G:19:TRP:NE1	2.81	0.48
1:G:389:LEU:HD12	1:G:389:LEU:H	1.79	0.48
1:H:15:PHE:CE2	1:H:19:TRP:NE1	2.81	0.48
1:I:98:TYR:O	1:I:102:MET:HB2	2.13	0.48
1:K:238:PRO:HB3	1:K:263:PHE:HB2	1.96	0.48
1:K:312:ASP:OD2	1:L:178:SER:CB	2.61	0.48
1:K:389:LEU:H	1:K:389:LEU:HD12	1.79	0.48
1:L:15:PHE:CE2	1:L:19:TRP:NE1	2.81	0.48
1:A:263:PHE:O	1:A:263:PHE:CG	2.65	0.48
1:A:702:MET:O	1:A:705:ALA:HB3	2.13	0.48
1:B:246:TYR:CE2	1:B:512:GLY:N	2.81	0.48
1:B:260:ASP:OD1	1:B:264:ILE:HG13	2.13	0.48
1:B:449:PHE:CD1	1:B:449:PHE:N	2.82	0.48
1:B:551:LEU:O	1:B:554:LEU:HB3	2.13	0.48
1:D:389:LEU:H	1:D:389:LEU:HD12	1.79	0.48
1:D:551:LEU:O	1:D:554:LEU:HB3	2.13	0.48
1:D:585:GLU:HB3	1:D:587:PRO:HD3	1.96	0.48
1:E:262:GLY:O	1:E:263:PHE:HB3	2.14	0.48
1:I:310:VAL:C	1:I:312:ASP:N	2.66	0.48
1:I:438:LEU:HD11	1:J:108:LYS:NZ	2.29	0.48
1:J:71:MET:HE1	1:J:115:VAL:HB	1.94	0.48
1:J:15:PHE:CE2	1:J:19:TRP:NE1	2.81	0.48
1:J:238:PRO:HG3	1:J:263:PHE:CB	2.44	0.48
1:J:263:PHE:CG	1:J:263:PHE:O	2.65	0.48
1:K:323:THR:O	1:K:327:GLN:HB2	2.13	0.48
1:K:78:VAL:HG22	1:K:444:LEU:HD21	1.94	0.48
1:L:173:CYS:SG	1:L:298:ILE:HG21	2.53	0.48
1:L:323:THR:O	1:L:327:GLN:HB2	2.13	0.48
1:A:262:GLY:O	1:A:263:PHE:HB3	2.14	0.48
1:B:238:PRO:HB3	1:B:263:PHE:HB2	1.96	0.48
1:C:301:VAL:HA	1:C:302:PRO:HD3	1.67	0.48
1:C:449:PHE:CD1	1:C:449:PHE:N	2.82	0.48
1:C:634:ILE:O	1:C:638:LYS:N	2.42	0.48
1:D:98:TYR:O	1:D:102:MET:HB2	2.13	0.48
1:E:173:CYS:SG	1:E:298:ILE:HG21	2.53	0.48
1:E:209:PHE:N	1:E:210:PRO:CD	2.72	0.48
1:F:98:TYR:O	1:F:102:MET:HB2	2.13	0.48
1:G:260:ASP:OD1	1:G:264:ILE:HG13	2.13	0.48
1:G:551:LEU:O	1:G:554:LEU:HB3	2.13	0.48
1:H:449:PHE:N	1:H:449:PHE:CD1	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:557:PHE:CE2	1:H:563:LYS:HD3	2.49	0.48
1:H:577:ILE:HG12	1:H:582:LYS:CG	2.36	0.48
1:I:15:PHE:CE2	1:I:19:TRP:NE1	2.82	0.48
1:I:449:PHE:CD1	1:I:449:PHE:N	2.82	0.48
1:I:585:GLU:HB3	1:I:587:PRO:HD3	1.96	0.48
1:I:702:MET:O	1:I:705:ALA:HB3	2.13	0.48
1:J:78:VAL:HG22	1:J:444:LEU:HD21	1.94	0.48
1:K:541:LYS:HD3	1:K:542:THR:HG23	1.95	0.48
1:K:702:MET:O	1:K:705:ALA:HB3	2.13	0.48
1:A:211:TRP:HB3	1:L:27:ARG:CZ	2.44	0.48
1:C:164:LEU:HA	1:C:307:TRP:CH2	2.48	0.48
1:C:382:GLY:O	1:C:383:ASP:C	2.52	0.48
1:C:541:LYS:HD3	1:C:542:THR:HG23	1.95	0.48
1:D:15:PHE:CE2	1:D:19:TRP:NE1	2.81	0.48
1:E:15:PHE:CE2	1:E:19:TRP:NE1	2.81	0.48
1:E:382:GLY:O	1:E:383:ASP:C	2.52	0.48
1:G:101:ASP:CB	1:G:138:THR:HG21	2.43	0.48
1:G:436:ASN:O	1:G:439:ASN:N	2.45	0.48
1:H:238:PRO:HG3	1:H:263:PHE:CB	2.44	0.48
1:H:389:LEU:H	1:H:389:LEU:HD12	1.79	0.48
1:I:633:GLN:O	1:I:637:ALA:N	2.35	0.48
1:L:262:GLY:O	1:L:263:PHE:HB3	2.14	0.48
1:A:108:LYS:CD	1:L:438:LEU:HD11	2.43	0.48
1:C:173:CYS:SG	1:C:298:ILE:HG21	2.53	0.48
1:D:238:PRO:HD3	1:D:263:PHE:CD2	2.49	0.48
1:D:238:PRO:HG3	1:D:263:PHE:CB	2.44	0.48
1:D:260:ASP:OD1	1:D:264:ILE:HG13	2.13	0.48
1:D:436:ASN:O	1:D:439:ASN:N	2.45	0.48
1:E:126:TRP:CD1	1:E:146:ARG:HG3	2.49	0.48
1:D:399:GLN:OE1	1:E:396:GLU:O	2.31	0.48
1:F:238:PRO:HD3	1:F:263:PHE:CD2	2.49	0.48
1:F:238:PRO:HG3	1:F:263:PHE:CB	2.44	0.48
1:G:584:PRO:HB3	1:G:589:GLU:HB2	1.96	0.48
1:H:173:CYS:SG	1:H:298:ILE:HG21	2.53	0.48
1:I:14:ARG:CA	1:I:14:ARG:NE	2.71	0.48
1:I:255:ILE:O	1:I:258:LEU:N	2.47	0.48
1:K:101:ASP:CB	1:K:138:THR:HG21	2.43	0.48
1:L:301:VAL:HA	1:L:302:PRO:HD3	1.67	0.48
1:A:346:LYS:CG	1:B:367:ASP:OD1	2.62	0.48
1:C:66:LYS:HZ3	1:C:420:VAL:CG1	2.27	0.48
1:D:577:ILE:HG12	1:D:582:LYS:CG	2.36	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:238:PRO:HG3	1:E:263:PHE:CB	2.44	0.48
1:F:127:ARG:HG2	1:F:147:GLU:HB2	1.96	0.48
1:F:164:LEU:HA	1:F:307:TRP:CH2	2.48	0.48
1:F:449:PHE:CD1	1:F:449:PHE:N	2.82	0.48
1:F:541:LYS:HD3	1:F:542:THR:HG23	1.95	0.48
1:F:438:LEU:HD11	1:G:108:LYS:HD2	1.96	0.48
1:G:411:ALA:CB	1:H:57:PHE:HD1	2.24	0.48
1:I:238:PRO:HD3	1:I:263:PHE:CD2	2.49	0.48
1:I:238:PRO:HG3	1:I:263:PHE:CB	2.44	0.48
1:I:260:ASP:OD1	1:I:264:ILE:HG13	2.13	0.48
1:J:584:PRO:HB3	1:J:589:GLU:HB2	1.96	0.48
1:J:702:MET:O	1:J:705:ALA:HB3	2.13	0.48
1:K:173:CYS:SG	1:K:298:ILE:HG21	2.53	0.48
1:K:164:LEU:HA	1:K:307:TRP:CH2	2.48	0.48
1:K:584:PRO:HB3	1:K:589:GLU:HB2	1.96	0.48
1:K:585:GLU:HB3	1:K:587:PRO:HD3	1.96	0.48
1:L:122:GLY:O	1:L:304:PHE:HA	2.14	0.48
1:L:126:TRP:CD1	1:L:146:ARG:HG3	2.49	0.48
1:L:101:ASP:CB	1:L:138:THR:HG21	2.43	0.48
1:L:584:PRO:HB3	1:L:589:GLU:HB2	1.96	0.48
1:L:585:GLU:HB3	1:L:587:PRO:HD3	1.96	0.48
1:A:238:PRO:HD3	1:A:263:PHE:CD2	2.49	0.47
1:A:238:PRO:HG3	1:A:263:PHE:CB	2.44	0.47
1:B:262:GLY:O	1:B:263:PHE:HB3	2.14	0.47
1:C:98:TYR:O	1:C:102:MET:HB2	2.13	0.47
1:C:262:GLY:O	1:C:263:PHE:HB3	2.14	0.47
1:D:122:GLY:O	1:D:304:PHE:HA	2.14	0.47
1:F:551:LEU:O	1:F:554:LEU:HB3	2.13	0.47
1:F:585:GLU:HB3	1:F:587:PRO:HD3	1.96	0.47
1:G:262:GLY:O	1:G:263:PHE:HB3	2.14	0.47
1:J:585:GLU:HB3	1:J:587:PRO:HD3	1.96	0.47
1:K:238:PRO:HD3	1:K:263:PHE:CD2	2.49	0.47
1:K:122:GLY:O	1:K:304:PHE:HA	2.14	0.47
1:K:350:PHE:HE1	1:L:363:TYR:CE1	2.28	0.47
1:K:449:PHE:CD1	1:K:449:PHE:N	2.82	0.47
1:L:343:ARG:H	1:L:343:ARG:HG2	1.52	0.47
1:A:382:GLY:O	1:A:383:ASP:C	2.52	0.47
1:C:126:TRP:CD1	1:C:146:ARG:HG3	2.49	0.47
1:C:434:THR:O	1:C:437:GLN:HG2	2.15	0.47
1:E:238:PRO:HB3	1:E:263:PHE:HB2	1.96	0.47
1:G:122:GLY:O	1:G:304:PHE:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:323:THR:O	1:G:327:GLN:HB2	2.13	0.47
1:G:438:LEU:HD11	1:H:108:LYS:NZ	2.29	0.47
1:I:227:GLU:HA	1:I:274:ARG:CA	2.40	0.47
1:I:164:LEU:HA	1:I:307:TRP:CH2	2.48	0.47
1:H:404:MET:CE	1:I:337:ASN:HB2	2.43	0.47
1:J:165:MET:HE3	1:J:435:VAL:HB	1.97	0.47
1:J:262:GLY:O	1:J:263:PHE:HB3	2.14	0.47
1:B:584:PRO:HB3	1:B:589:GLU:HB2	1.96	0.47
1:C:246:TYR:CE2	1:C:512:GLY:N	2.81	0.47
1:C:350:PHE:CE1	1:D:372:TYR:CB	2.97	0.47
1:D:173:CYS:SG	1:D:298:ILE:HG21	2.53	0.47
1:E:238:PRO:HD3	1:E:263:PHE:CD2	2.49	0.47
1:I:127:ARG:HG2	1:I:147:GLU:HB2	1.96	0.47
1:I:434:THR:O	1:I:437:GLN:HG2	2.15	0.47
1:I:602:GLY:O	1:I:606:PRO:N	2.48	0.47
1:J:238:PRO:HD3	1:J:263:PHE:CD2	2.49	0.47
1:K:405:LEU:O	1:K:409:THR:HG23	2.14	0.47
1:L:449:PHE:N	1:L:449:PHE:CD1	2.82	0.47
1:A:127:ARG:HG2	1:A:147:GLU:HB2	1.96	0.47
1:A:126:TRP:CD1	1:A:146:ARG:HG3	2.49	0.47
1:A:602:GLY:O	1:A:606:PRO:N	2.48	0.47
1:B:602:GLY:O	1:B:606:PRO:N	2.48	0.47
1:C:551:LEU:O	1:C:554:LEU:HB3	2.13	0.47
1:D:263:PHE:CG	1:D:263:PHE:O	2.65	0.47
1:D:312:ASP:OD2	1:E:155:HIS:NE2	2.46	0.47
1:D:405:LEU:O	1:D:409:THR:HG23	2.15	0.47
1:D:434:THR:O	1:D:437:GLN:HG2	2.15	0.47
1:E:389:LEU:HD12	1:E:389:LEU:H	1.79	0.47
1:F:246:TYR:CE2	1:F:512:GLY:N	2.81	0.47
1:F:389:LEU:H	1:F:389:LEU:HD12	1.79	0.47
1:G:126:TRP:CD1	1:G:146:ARG:HG3	2.49	0.47
1:H:191:TYR:HE1	1:H:278:LYS:HZ3	1.62	0.47
1:H:255:ILE:O	1:H:258:LEU:N	2.46	0.47
1:I:122:GLY:O	1:I:304:PHE:HA	2.14	0.47
1:I:126:TRP:CD1	1:I:146:ARG:HG3	2.49	0.47
1:I:411:ALA:CB	1:J:57:PHE:HD1	2.26	0.47
1:J:126:TRP:CD1	1:J:146:ARG:HG3	2.49	0.47
1:J:317:GLU:HB3	1:J:321:ARG:CZ	2.45	0.47
1:J:434:THR:O	1:J:437:GLN:HG2	2.15	0.47
1:L:255:ILE:O	1:L:258:LEU:N	2.47	0.47
1:A:317:GLU:HB3	1:A:321:ARG:CZ	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:164:LEU:HB2	1:B:109:ILE:HG21	1.97	0.47
1:B:323:THR:O	1:B:327:GLN:HB2	2.13	0.47
1:B:434:THR:O	1:B:437:GLN:HG2	2.15	0.47
1:C:310:VAL:C	1:C:312:ASP:N	2.66	0.47
1:C:389:LEU:H	1:C:389:LEU:HD12	1.79	0.47
1:C:602:GLY:O	1:C:606:PRO:N	2.48	0.47
1:E:127:ARG:HG2	1:E:147:GLU:HB2	1.96	0.47
1:F:243:PRO:O	1:F:244:VAL:HB	2.15	0.47
1:F:165:MET:HE3	1:F:435:VAL:HB	1.97	0.47
1:F:602:GLY:O	1:F:606:PRO:N	2.48	0.47
1:G:246:TYR:CE2	1:G:512:GLY:N	2.81	0.47
1:G:411:ALA:HB1	1:H:57:PHE:CD1	2.45	0.47
1:H:98:TYR:O	1:H:102:MET:HB2	2.13	0.47
1:H:310:VAL:C	1:H:312:ASP:N	2.66	0.47
1:H:317:GLU:HB3	1:H:321:ARG:CZ	2.45	0.47
1:J:122:GLY:O	1:J:304:PHE:HA	2.14	0.47
1:J:248:LYS:HZ1	1:J:513:ARG:HH12	1.60	0.47
1:J:164:LEU:HB2	1:K:109:ILE:HG21	1.95	0.47
1:A:132:TYR:O	1:L:272:LYS:HD3	2.15	0.47
1:L:389:LEU:H	1:L:389:LEU:HD12	1.79	0.47
1:L:405:LEU:O	1:L:409:THR:HG23	2.14	0.47
1:A:238:PRO:HB3	1:A:263:PHE:HB2	1.96	0.47
1:B:263:PHE:O	1:B:263:PHE:CG	2.65	0.47
1:C:584:PRO:HB3	1:C:589:GLU:HB2	1.96	0.47
1:C:585:GLU:HB3	1:C:587:PRO:HD3	1.96	0.47
1:D:382:GLY:O	1:D:383:ASP:C	2.52	0.47
1:D:384:LEU:N	1:D:384:LEU:HD22	2.30	0.47
1:D:449:PHE:N	1:D:449:PHE:CD1	2.82	0.47
1:F:15:PHE:CE2	1:F:19:TRP:NE1	2.82	0.47
1:J:602:GLY:O	1:J:606:PRO:N	2.48	0.47
1:L:127:ARG:HG2	1:L:147:GLU:HB2	1.96	0.47
1:L:243:PRO:O	1:L:244:VAL:HB	2.15	0.47
1:L:317:GLU:HB3	1:L:321:ARG:CZ	2.45	0.47
1:L:552:LEU:HD13	1:L:556:TYR:CE2	2.50	0.47
1:L:602:GLY:O	1:L:606:PRO:N	2.48	0.47
1:A:122:GLY:O	1:A:304:PHE:HA	2.14	0.47
1:A:246:TYR:CE2	1:A:512:GLY:N	2.81	0.47
1:A:26:ARG:HG2	1:B:212:LEU:CD2	2.22	0.47
1:A:405:LEU:O	1:A:409:THR:HG23	2.15	0.47
1:A:552:LEU:HD13	1:A:556:TYR:CE2	2.50	0.47
1:B:384:LEU:HD22	1:B:384:LEU:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:263:PHE:O	1:C:263:PHE:CG	2.65	0.47
1:C:122:GLY:O	1:C:304:PHE:HA	2.14	0.47
1:D:127:ARG:HG2	1:D:147:GLU:HB2	1.96	0.47
1:D:312:ASP:OD2	1:E:178:SER:HB2	2.14	0.47
1:E:434:THR:O	1:E:437:GLN:HG2	2.15	0.47
1:F:317:GLU:HB3	1:F:321:ARG:CZ	2.45	0.47
1:F:248:LYS:CB	1:F:511:ARG:NH1	2.78	0.47
1:H:238:PRO:HB3	1:H:263:PHE:HB2	1.96	0.47
1:H:238:PRO:HD3	1:H:263:PHE:CD2	2.49	0.47
1:I:263:PHE:CG	1:I:263:PHE:O	2.65	0.47
1:I:382:GLY:O	1:I:383:ASP:C	2.52	0.47
1:J:164:LEU:HA	1:J:307:TRP:CH2	2.48	0.47
1:J:350:PHE:HA	1:K:372:TYR:O	2.15	0.47
1:K:552:LEU:HD13	1:K:556:TYR:CE2	2.50	0.47
1:L:238:PRO:HD3	1:L:263:PHE:CD2	2.49	0.47
1:L:382:GLY:O	1:L:383:ASP:C	2.52	0.47
1:L:59:VAL:O	1:L:62:PRO:CD	2.51	0.47
1:A:384:LEU:N	1:A:384:LEU:HD22	2.30	0.47
1:C:122:GLY:O	1:C:305:GLY:N	2.47	0.47
1:C:127:ARG:HG2	1:C:147:GLU:HB2	1.96	0.47
1:C:350:PHE:CD1	1:D:372:TYR:HB2	2.50	0.47
1:E:243:PRO:O	1:E:244:VAL:HB	2.15	0.47
1:E:248:LYS:CB	1:E:511:ARG:NH1	2.78	0.47
1:D:411:ALA:HB2	1:E:57:PHE:HD1	1.57	0.47
1:E:75:PRO:O	1:E:76:ILE:HB	2.15	0.47
1:F:126:TRP:CD1	1:F:146:ARG:HG3	2.49	0.47
1:G:586:THR:HG22	1:G:590:GLN:NE2	2.30	0.47
1:H:246:TYR:CE2	1:H:512:GLY:N	2.81	0.47
1:H:586:THR:HG22	1:H:590:GLN:NE2	2.30	0.47
1:J:248:LYS:CB	1:J:511:ARG:NH1	2.78	0.47
1:L:11:ILE:O	1:L:11:ILE:HG12	2.15	0.47
1:L:238:PRO:HG3	1:L:263:PHE:CB	2.44	0.47
1:L:310:VAL:C	1:L:312:ASP:N	2.66	0.47
1:A:248:LYS:CB	1:A:511:ARG:NH1	2.78	0.47
1:A:75:PRO:O	1:A:76:ILE:HB	2.15	0.47
1:B:122:GLY:O	1:B:304:PHE:HA	2.14	0.47
1:B:165:MET:HE3	1:B:435:VAL:HB	1.97	0.47
1:B:382:GLY:O	1:B:383:ASP:C	2.52	0.47
1:C:243:PRO:O	1:C:244:VAL:HB	2.15	0.47
1:C:586:THR:HG22	1:C:590:GLN:NE2	2.30	0.47
1:D:248:LYS:CB	1:D:511:ARG:NH1	2.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:602:GLY:O	1:D:606:PRO:N	2.48	0.47
1:E:122:GLY:O	1:E:304:PHE:HA	2.14	0.47
1:E:246:TYR:CE2	1:E:512:GLY:N	2.81	0.47
1:E:552:LEU:HD13	1:E:556:TYR:CE2	2.50	0.47
1:E:586:THR:HG22	1:E:590:GLN:NE2	2.30	0.47
1:F:122:GLY:O	1:F:304:PHE:HA	2.14	0.47
1:F:405:LEU:O	1:F:409:THR:HG23	2.15	0.47
1:G:238:PRO:HD3	1:G:263:PHE:CD2	2.49	0.47
1:G:317:GLU:HB3	1:G:321:ARG:CZ	2.45	0.47
1:G:602:GLY:O	1:G:606:PRO:N	2.48	0.47
1:H:127:ARG:HG2	1:H:147:GLU:HB2	1.96	0.47
1:H:382:GLY:O	1:H:383:ASP:C	2.52	0.47
1:H:405:LEU:O	1:H:409:THR:HG23	2.15	0.47
1:I:238:PRO:HB3	1:I:263:PHE:HB2	1.96	0.47
1:I:384:LEU:N	1:I:384:LEU:HD22	2.30	0.47
1:I:405:LEU:O	1:I:409:THR:HG23	2.14	0.47
1:I:248:LYS:CB	1:I:511:ARG:NH1	2.78	0.47
1:I:75:PRO:O	1:I:76:ILE:HB	2.15	0.47
1:J:246:TYR:CE2	1:J:512:GLY:N	2.81	0.47
1:J:238:PRO:HB3	1:J:263:PHE:HB2	1.96	0.47
1:J:389:LEU:HD12	1:J:389:LEU:H	1.79	0.47
1:K:127:ARG:HG2	1:K:147:GLU:HB2	1.96	0.47
1:K:317:GLU:HB3	1:K:321:ARG:CZ	2.45	0.47
1:L:238:PRO:HB3	1:L:263:PHE:HB2	1.96	0.47
1:L:263:PHE:CG	1:L:263:PHE:O	2.65	0.47
1:L:586:THR:HG22	1:L:590:GLN:NE2	2.30	0.47
1:A:395:PRO:HD2	1:L:398:PRO:HB3	1.96	0.47
1:B:11:ILE:O	1:B:11:ILE:HG12	2.15	0.47
1:B:248:LYS:CB	1:B:511:ARG:NH1	2.78	0.47
1:B:164:LEU:HA	1:B:307:TRP:CH2	2.48	0.47
1:B:390:ALA:CB	1:C:387:GLN:HB2	2.45	0.47
1:C:702:MET:O	1:C:705:ALA:HB3	2.13	0.47
1:C:75:PRO:O	1:C:76:ILE:HB	2.15	0.47
1:D:238:PRO:HB3	1:D:263:PHE:HB2	1.96	0.47
1:D:317:GLU:HB3	1:D:321:ARG:CZ	2.45	0.47
1:E:191:TYR:HE1	1:E:278:LYS:HZ3	1.62	0.47
1:E:405:LEU:O	1:E:409:THR:HG23	2.14	0.47
1:F:262:GLY:O	1:F:263:PHE:HB3	2.14	0.47
1:F:71:MET:CE	1:F:115:VAL:HB	2.45	0.47
1:F:75:PRO:O	1:F:76:ILE:HB	2.15	0.47
1:G:127:ARG:HG2	1:G:147:GLU:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:263:PHE:O	1:G:263:PHE:CG	2.65	0.47
1:G:63:VAL:O	1:G:67:LEU:HG	2.15	0.47
1:H:11:ILE:HG12	1:H:11:ILE:O	2.15	0.47
1:H:122:GLY:O	1:H:304:PHE:HA	2.14	0.47
1:H:384:LEU:HD22	1:H:384:LEU:N	2.30	0.47
1:H:584:PRO:HB3	1:H:589:GLU:HB2	1.96	0.47
1:H:71:MET:CE	1:H:115:VAL:HB	2.45	0.47
1:H:404:MET:SD	1:I:337:ASN:HB3	2.55	0.47
1:I:343:ARG:HG2	1:I:343:ARG:H	1.52	0.47
1:I:165:MET:HE3	1:I:435:VAL:HB	1.97	0.47
1:I:552:LEU:HD13	1:I:556:TYR:CE2	2.50	0.47
1:H:306:GLU:OE2	1:I:65:ARG:HG2	2.15	0.47
1:J:405:LEU:O	1:J:409:THR:HG23	2.15	0.47
1:K:35:PHE:HE2	1:K:324:LYS:HZ3	1.60	0.47
1:L:434:THR:O	1:L:437:GLN:HG2	2.15	0.47
1:A:585:GLU:HB3	1:A:587:PRO:HD3	1.96	0.47
1:A:586:THR:HG22	1:A:590:GLN:NE2	2.30	0.47
1:B:586:THR:HG22	1:B:590:GLN:NE2	2.30	0.47
1:B:75:PRO:O	1:B:76:ILE:HB	2.15	0.47
1:C:238:PRO:HG3	1:C:263:PHE:CB	2.44	0.47
1:C:552:LEU:HD13	1:C:556:TYR:CE2	2.50	0.47
1:B:411:ALA:CB	1:C:57:PHE:CD1	2.98	0.47
1:D:262:GLY:O	1:D:263:PHE:HB3	2.14	0.47
1:D:35:PHE:HE2	1:D:324:LYS:HZ3	1.61	0.47
1:E:63:VAL:O	1:E:67:LEU:HG	2.15	0.47
1:G:122:GLY:O	1:G:305:GLY:N	2.47	0.47
1:G:99:ARG:CZ	1:G:524:PHE:HB2	2.45	0.47
1:H:248:LYS:CB	1:H:511:ARG:NH1	2.78	0.47
1:H:552:LEU:HD13	1:H:556:TYR:CE2	2.50	0.47
1:H:585:GLU:HB3	1:H:587:PRO:HD3	1.96	0.47
1:H:75:PRO:O	1:H:76:ILE:HB	2.15	0.47
1:H:27:ARG:HD2	1:I:212:LEU:H	1.78	0.47
1:I:243:PRO:O	1:I:244:VAL:HB	2.15	0.47
1:J:586:THR:HG22	1:J:590:GLN:NE2	2.30	0.47
1:J:634:ILE:O	1:J:638:LYS:N	2.42	0.47
1:J:71:MET:CE	1:J:115:VAL:HB	2.45	0.47
1:K:11:ILE:O	1:K:11:ILE:HG12	2.15	0.47
1:K:382:GLY:O	1:K:383:ASP:C	2.52	0.47
1:K:634:ILE:O	1:K:638:LYS:N	2.42	0.47
1:L:14:ARG:CA	1:L:14:ARG:NE	2.71	0.47
1:L:384:LEU:HD22	1:L:384:LEU:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:327:GLN:NE2	1:A:327:GLN:O	2.48	0.46
1:A:99:ARG:CZ	1:A:524:PHE:HB2	2.46	0.46
1:B:238:PRO:HD3	1:B:263:PHE:CD2	2.49	0.46
1:C:248:LYS:CB	1:C:511:ARG:NH1	2.78	0.46
1:D:63:VAL:O	1:D:67:LEU:HG	2.15	0.46
1:E:11:ILE:O	1:E:11:ILE:HG12	2.15	0.46
1:E:577:ILE:HG12	1:E:582:LYS:CG	2.36	0.46
1:F:122:GLY:O	1:F:305:GLY:N	2.47	0.46
1:F:310:VAL:C	1:F:312:ASP:N	2.66	0.46
1:F:384:LEU:HD22	1:F:384:LEU:N	2.30	0.46
1:F:586:THR:HG22	1:F:590:GLN:NE2	2.30	0.46
1:G:449:PHE:CD1	1:G:449:PHE:N	2.82	0.46
1:H:263:PHE:O	1:H:263:PHE:CG	2.65	0.46
1:H:434:THR:O	1:H:437:GLN:HG2	2.14	0.46
1:I:122:GLY:O	1:I:305:GLY:N	2.47	0.46
1:I:317:GLU:HB3	1:I:321:ARG:CZ	2.45	0.46
1:J:350:PHE:HE1	1:K:363:TYR:HE1	1.62	0.46
1:J:382:GLY:O	1:J:383:ASP:C	2.52	0.46
1:K:384:LEU:HD22	1:K:384:LEU:N	2.30	0.46
1:K:63:VAL:O	1:K:67:LEU:HG	2.15	0.46
1:A:27:ARG:CZ	1:B:211:TRP:CB	2.89	0.46
1:A:248:LYS:HZ1	1:A:513:ARG:HH12	1.61	0.46
1:B:238:PRO:HG3	1:B:263:PHE:CB	2.44	0.46
1:B:266:ILE:O	1:B:267:ALA:HB2	2.16	0.46
1:B:37:ARG:HA	1:B:37:ARG:HD2	1.70	0.46
1:B:389:LEU:HD12	1:B:389:LEU:H	1.79	0.46
1:C:266:ILE:O	1:C:267:ALA:HB2	2.16	0.46
1:C:384:LEU:N	1:C:384:LEU:HD22	2.30	0.46
1:E:317:GLU:HB3	1:E:321:ARG:CZ	2.45	0.46
1:E:327:GLN:O	1:E:327:GLN:NE2	2.48	0.46
1:E:584:PRO:HB3	1:E:589:GLU:HB2	1.96	0.46
1:E:602:GLY:O	1:E:606:PRO:N	2.48	0.46
1:E:71:MET:CE	1:E:115:VAL:HB	2.45	0.46
1:F:255:ILE:O	1:F:258:LEU:N	2.47	0.46
1:F:263:PHE:O	1:F:263:PHE:CG	2.65	0.46
1:F:382:GLY:O	1:F:383:ASP:C	2.52	0.46
1:F:552:LEU:HD13	1:F:556:TYR:CE2	2.50	0.46
1:F:702:MET:O	1:F:705:ALA:HB3	2.13	0.46
1:G:384:LEU:N	1:G:384:LEU:HD22	2.30	0.46
1:H:602:GLY:O	1:H:606:PRO:N	2.48	0.46
1:I:389:LEU:HD12	1:I:389:LEU:H	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:584:PRO:HB3	1:I:589:GLU:HB2	1.96	0.46
1:I:586:THR:HG22	1:I:590:GLN:NE2	2.30	0.46
1:I:63:VAL:O	1:I:67:LEU:HG	2.15	0.46
1:J:59:VAL:O	1:J:62:PRO:CD	2.51	0.46
1:K:243:PRO:O	1:K:244:VAL:HB	2.15	0.46
1:K:99:ARG:CZ	1:K:524:PHE:HB2	2.46	0.46
1:K:586:THR:HG22	1:K:590:GLN:NE2	2.30	0.46
1:K:71:MET:CE	1:K:115:VAL:HB	2.45	0.46
1:L:248:LYS:CB	1:L:511:ARG:NH1	2.78	0.46
1:A:11:ILE:HG12	1:A:11:ILE:O	2.15	0.46
1:A:434:THR:O	1:A:437:GLN:HG2	2.15	0.46
1:A:71:MET:CE	1:A:115:VAL:HB	2.45	0.46
1:B:71:MET:CE	1:B:115:VAL:HB	2.45	0.46
1:C:238:PRO:HB3	1:C:263:PHE:HB2	1.96	0.46
1:C:317:GLU:HB3	1:C:321:ARG:CZ	2.45	0.46
1:C:327:GLN:O	1:C:327:GLN:NE2	2.49	0.46
1:C:584:PRO:CB	1:C:590:GLN:HG2	2.46	0.46
1:C:71:MET:CE	1:C:115:VAL:HB	2.45	0.46
1:D:266:ILE:O	1:D:267:ALA:HB2	2.16	0.46
1:E:384:LEU:N	1:E:384:LEU:HD22	2.30	0.46
1:G:248:LYS:CB	1:G:511:ARG:NH1	2.78	0.46
1:G:434:THR:O	1:G:437:GLN:HG2	2.14	0.46
1:G:585:GLU:HB3	1:G:587:PRO:HD3	1.96	0.46
1:H:262:GLY:O	1:H:263:PHE:HB3	2.14	0.46
1:J:243:PRO:O	1:J:244:VAL:HB	2.15	0.46
1:J:37:ARG:HD2	1:J:37:ARG:HA	1.70	0.46
1:J:384:LEU:N	1:J:384:LEU:HD22	2.30	0.46
1:J:63:VAL:O	1:J:67:LEU:HG	2.15	0.46
1:J:75:PRO:O	1:J:76:ILE:HB	2.15	0.46
1:K:27:ARG:HD2	1:L:212:LEU:H	1.81	0.46
1:L:266:ILE:O	1:L:267:ALA:HB2	2.16	0.46
1:L:438:LEU:HD12	1:L:441:ARG:NH1	2.31	0.46
1:A:557:PHE:CE2	1:B:563:LYS:CD	2.97	0.46
1:B:243:PRO:O	1:B:244:VAL:HB	2.15	0.46
1:B:405:LEU:O	1:B:409:THR:HG23	2.15	0.46
1:B:248:LYS:HZ1	1:B:513:ARG:HH12	1.64	0.46
1:B:577:ILE:HG12	1:B:582:LYS:CG	2.36	0.46
1:B:584:PRO:CB	1:B:590:GLN:HG2	2.46	0.46
1:B:585:GLU:HB3	1:B:587:PRO:HD3	1.96	0.46
1:C:352:TRP:CD1	1:D:374:LEU:O	2.66	0.46
1:D:351:PHE:O	1:E:374:LEU:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:586:THR:HG22	1:D:590:GLN:NE2	2.30	0.46
1:F:266:ILE:O	1:F:267:ALA:HB2	2.16	0.46
1:F:434:THR:O	1:F:437:GLN:HG2	2.15	0.46
1:G:255:ILE:O	1:G:258:LEU:N	2.47	0.46
1:G:552:LEU:HD13	1:G:556:TYR:CE2	2.50	0.46
1:F:306:GLU:OE2	1:G:65:ARG:HG2	2.14	0.46
1:H:309:PHE:HB2	1:I:150:HIS:CG	2.51	0.46
1:I:327:GLN:NE2	1:I:327:GLN:O	2.48	0.46
1:J:11:ILE:HG12	1:J:11:ILE:O	2.15	0.46
1:J:584:PRO:CB	1:J:590:GLN:HG2	2.46	0.46
1:K:115:VAL:CG2	1:K:116:ARG:N	2.79	0.46
1:K:262:GLY:O	1:K:263:PHE:HB3	2.14	0.46
1:K:75:PRO:O	1:K:76:ILE:HB	2.15	0.46
1:L:63:VAL:O	1:L:67:LEU:HG	2.15	0.46
1:A:584:PRO:HB3	1:A:589:GLU:HB2	1.96	0.46
1:B:127:ARG:HG2	1:B:147:GLU:HB2	1.96	0.46
1:B:552:LEU:HD13	1:B:556:TYR:CE2	2.50	0.46
1:C:237:ASP:H	1:C:243:PRO:HA	1.81	0.46
1:C:405:LEU:O	1:C:409:THR:HG23	2.15	0.46
1:C:91:ALA:O	1:C:94:LEU:N	2.49	0.46
1:D:11:ILE:O	1:D:11:ILE:HG12	2.15	0.46
1:D:243:PRO:O	1:D:244:VAL:HB	2.15	0.46
1:D:310:VAL:C	1:D:312:ASP:N	2.66	0.46
1:D:327:GLN:NE2	1:D:327:GLN:O	2.48	0.46
1:G:243:PRO:O	1:G:244:VAL:HB	2.15	0.46
1:H:243:PRO:O	1:H:244:VAL:HB	2.15	0.46
1:H:327:GLN:O	1:H:327:GLN:NE2	2.48	0.46
1:H:35:PHE:HE2	1:H:324:LYS:HZ3	1.63	0.46
1:I:11:ILE:HG12	1:I:11:ILE:O	2.15	0.46
1:I:138:THR:HG23	1:I:143:VAL:CG2	2.37	0.46
1:I:266:ILE:O	1:I:267:ALA:HB2	2.16	0.46
1:I:673:ALA:O	1:I:674:SER:C	2.54	0.46
1:I:71:MET:CE	1:I:115:VAL:HB	2.45	0.46
1:I:86:ALA:HB2	1:I:515:GLU:HG3	1.98	0.46
1:K:27:ARG:CZ	1:L:211:TRP:CB	2.93	0.46
1:L:75:PRO:O	1:L:76:ILE:HB	2.15	0.46
1:A:449:PHE:CD1	1:A:449:PHE:N	2.82	0.46
1:A:63:VAL:O	1:A:67:LEU:HG	2.15	0.46
1:C:438:LEU:HD12	1:C:441:ARG:NH1	2.31	0.46
1:D:115:VAL:CG2	1:D:116:ARG:N	2.79	0.46
1:D:99:ARG:CZ	1:D:524:PHE:HB2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:584:PRO:HB3	1:D:589:GLU:HB2	1.96	0.46
1:E:115:VAL:CG2	1:E:116:ARG:N	2.79	0.46
1:F:11:ILE:O	1:F:11:ILE:HG12	2.15	0.46
1:F:422:THR:CG2	1:F:423:GLU:N	2.79	0.46
1:G:382:GLY:O	1:G:383:ASP:C	2.52	0.46
1:G:622:LEU:O	1:G:625:ALA:HB3	2.16	0.46
1:I:191:TYR:HE1	1:I:278:LYS:HZ3	1.64	0.46
1:I:91:ALA:O	1:I:94:LEU:N	2.49	0.46
1:A:438:LEU:HD12	1:A:441:ARG:NH1	2.31	0.46
1:B:317:GLU:HB3	1:B:321:ARG:CZ	2.45	0.46
1:C:238:PRO:HD3	1:C:263:PHE:CD2	2.49	0.46
1:D:122:GLY:O	1:D:305:GLY:N	2.47	0.46
1:D:422:THR:CG2	1:D:423:GLU:N	2.79	0.46
1:F:584:PRO:HB3	1:F:589:GLU:HB2	1.96	0.46
1:F:63:VAL:O	1:F:67:LEU:HG	2.15	0.46
1:G:327:GLN:NE2	1:G:327:GLN:O	2.48	0.46
1:G:404:MET:SD	1:H:337:ASN:HB3	2.56	0.46
1:H:86:ALA:HB2	1:H:515:GLU:HG3	1.98	0.46
1:J:266:ILE:O	1:J:267:ALA:HB2	2.16	0.46
1:J:433:ASP:O	1:J:436:ASN:HB3	2.16	0.46
1:J:86:ALA:HB2	1:J:515:GLU:HG3	1.98	0.46
1:K:434:THR:O	1:K:437:GLN:HG2	2.15	0.46
1:K:438:LEU:HD12	1:K:441:ARG:NH1	2.31	0.46
1:K:248:LYS:CB	1:K:511:ARG:NH1	2.78	0.46
1:K:59:VAL:O	1:K:62:PRO:CD	2.51	0.46
1:K:602:GLY:O	1:K:606:PRO:N	2.48	0.46
1:A:73:GLN:NE2	1:L:430:VAL:HG11	2.30	0.46
1:L:528:LYS:HB2	1:L:528:LYS:HE3	1.77	0.46
1:A:243:PRO:O	1:A:244:VAL:HB	2.15	0.46
1:A:322:LEU:HA	1:A:322:LEU:HD13	1.77	0.46
1:B:433:ASP:O	1:B:436:ASN:HB3	2.16	0.46
1:B:91:ALA:O	1:B:94:LEU:N	2.49	0.46
1:C:11:ILE:HG12	1:C:11:ILE:O	2.15	0.46
1:C:63:VAL:O	1:C:67:LEU:HG	2.15	0.46
1:D:237:ASP:H	1:D:243:PRO:HA	1.81	0.46
1:D:552:LEU:HD13	1:D:556:TYR:CE2	2.50	0.46
1:E:86:ALA:HB2	1:E:515:GLU:HG3	1.98	0.46
1:E:576:LEU:O	1:E:579:MET:HB2	2.16	0.46
1:F:35:PHE:HE2	1:F:324:LYS:HZ3	1.64	0.46
1:F:390:ALA:HB1	1:G:387:GLN:HB2	1.97	0.46
1:H:438:LEU:HD12	1:H:441:ARG:NH1	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:236:GLN:HE21	1:I:265:LYS:HZ1	1.64	0.46
1:I:411:ALA:HB1	1:J:57:PHE:CD1	2.48	0.46
1:J:241:GLY:O	1:J:242:GLU:C	2.55	0.46
1:J:327:GLN:NE2	1:J:327:GLN:O	2.49	0.46
1:J:552:LEU:HD13	1:J:556:TYR:CE2	2.50	0.46
1:J:91:ALA:O	1:J:94:LEU:N	2.49	0.46
1:K:400:ALA:CB	1:L:395:PRO:HB2	2.45	0.46
1:K:584:PRO:CB	1:K:590:GLN:HG2	2.46	0.46
1:L:241:GLY:O	1:L:242:GLU:C	2.54	0.46
1:L:422:THR:CG2	1:L:423:GLU:N	2.79	0.46
1:A:138:THR:HG23	1:A:143:VAL:CG2	2.37	0.46
1:A:350:PHE:HZ	1:A:392:TYR:CD2	2.34	0.46
1:A:528:LYS:HB2	1:A:528:LYS:HE3	1.77	0.46
1:A:576:LEU:O	1:A:579:MET:HB2	2.16	0.46
1:A:584:PRO:CB	1:A:590:GLN:HG2	2.46	0.46
1:B:263:PHE:O	1:B:263:PHE:CD2	2.69	0.46
1:C:433:ASP:O	1:C:436:ASN:HB3	2.16	0.46
1:C:673:ALA:O	1:C:674:SER:C	2.54	0.46
1:D:27:ARG:HD2	1:E:212:LEU:H	1.81	0.46
1:E:143:VAL:CG1	1:E:144:ILE:N	2.79	0.46
1:E:237:ASP:H	1:E:243:PRO:HA	1.81	0.46
1:E:263:PHE:CD2	1:E:263:PHE:O	2.69	0.46
1:E:310:VAL:C	1:E:312:ASP:N	2.66	0.46
1:E:438:LEU:HD12	1:E:441:ARG:NH1	2.31	0.46
1:E:91:ALA:O	1:E:94:LEU:N	2.49	0.46
1:F:115:VAL:CG2	1:F:116:ARG:N	2.79	0.46
1:F:91:ALA:O	1:F:94:LEU:N	2.49	0.46
1:G:71:MET:CE	1:G:115:VAL:HB	2.45	0.46
1:G:405:LEU:O	1:G:409:THR:HG23	2.14	0.46
1:H:63:VAL:O	1:H:67:LEU:HG	2.15	0.46
1:I:438:LEU:HD12	1:I:441:ARG:NH1	2.31	0.46
1:I:246:TYR:HE2	1:I:512:GLY:CA	2.29	0.46
1:J:127:ARG:HG2	1:J:147:GLU:HB2	1.96	0.46
1:J:237:ASP:H	1:J:243:PRO:HA	1.81	0.46
1:J:438:LEU:HD12	1:J:441:ARG:NH1	2.31	0.46
1:J:616:LEU:O	1:J:620:ALA:N	2.44	0.46
1:L:115:VAL:CG2	1:L:116:ARG:N	2.79	0.46
1:L:143:VAL:CG1	1:L:144:ILE:N	2.79	0.46
1:L:99:ARG:CZ	1:L:524:PHE:HB2	2.45	0.46
1:L:673:ALA:O	1:L:674:SER:C	2.54	0.46
1:A:325:ASP:OD2	1:B:56:GLN:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:59:VAL:O	1:A:62:PRO:CD	2.51	0.46
1:B:415:VAL:HA	1:C:62:PRO:HG3	1.97	0.46
1:B:438:LEU:HD12	1:B:441:ARG:NH1	2.31	0.46
1:C:26:ARG:HE	1:C:26:ARG:CA	2.29	0.46
1:D:246:TYR:HE2	1:D:512:GLY:CA	2.29	0.46
1:D:71:MET:CE	1:D:115:VAL:HB	2.45	0.46
1:D:75:PRO:O	1:D:76:ILE:HB	2.15	0.46
1:E:266:ILE:O	1:E:267:ALA:HB2	2.16	0.46
1:E:585:GLU:HB3	1:E:587:PRO:HD3	1.96	0.46
1:F:438:LEU:HD12	1:F:441:ARG:NH1	2.31	0.46
1:G:266:ILE:O	1:G:267:ALA:HB2	2.16	0.46
1:F:352:TRP:CD2	1:G:376:ARG:HB2	2.51	0.46
1:G:438:LEU:HD12	1:G:441:ARG:NH1	2.31	0.46
1:G:75:PRO:O	1:G:76:ILE:HB	2.15	0.46
1:H:673:ALA:O	1:H:674:SER:C	2.54	0.46
1:I:422:THR:CG2	1:I:423:GLU:N	2.79	0.46
1:J:263:PHE:CD2	1:J:263:PHE:O	2.69	0.46
1:J:322:LEU:HA	1:J:322:LEU:HD13	1.77	0.46
1:J:350:PHE:HZ	1:J:392:TYR:CD2	2.34	0.46
1:L:584:PRO:CB	1:L:590:GLN:HG2	2.46	0.46
1:A:234:ILE:CG1	1:A:267:ALA:HB3	2.46	0.45
1:A:237:ASP:H	1:A:243:PRO:HA	1.81	0.45
1:A:246:TYR:HE2	1:A:512:GLY:CA	2.29	0.45
1:A:91:ALA:O	1:A:94:LEU:N	2.49	0.45
1:B:246:TYR:HE2	1:B:512:GLY:CA	2.29	0.45
1:B:234:ILE:CG1	1:B:267:ALA:HB3	2.46	0.45
1:B:26:ARG:HE	1:B:26:ARG:CA	2.29	0.45
1:B:343:ARG:H	1:B:343:ARG:HG2	1.52	0.45
1:B:350:PHE:HE1	1:C:363:TYR:HE1	1.63	0.45
1:B:86:ALA:HB2	1:B:515:GLU:HG3	1.98	0.45
1:C:263:PHE:CD2	1:C:263:PHE:O	2.69	0.45
1:C:541:LYS:HE2	1:C:541:LYS:HB2	1.79	0.45
1:E:37:ARG:HA	1:E:37:ARG:HD2	1.70	0.45
1:E:622:LEU:O	1:E:625:ALA:HB3	2.16	0.45
1:F:234:ILE:HG13	1:F:267:ALA:HB3	1.99	0.45
1:F:263:PHE:O	1:F:263:PHE:CD2	2.69	0.45
1:F:26:ARG:HE	1:F:26:ARG:CA	2.29	0.45
1:F:327:GLN:O	1:F:327:GLN:NE2	2.49	0.45
1:F:687:ALA:O	1:F:691:LEU:N	2.39	0.45
1:F:398:PRO:CB	1:G:395:PRO:HD2	2.39	0.45
1:H:263:PHE:CD2	1:H:263:PHE:O	2.69	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:687:ALA:O	1:H:691:LEU:N	2.40	0.45
1:I:115:VAL:CG2	1:I:116:ARG:N	2.79	0.45
1:I:263:PHE:O	1:I:263:PHE:CD2	2.69	0.45
1:I:350:PHE:HZ	1:I:392:TYR:CD2	2.34	0.45
1:J:234:ILE:HG13	1:J:267:ALA:HB3	1.99	0.45
1:K:241:GLY:O	1:K:242:GLU:C	2.55	0.45
1:K:433:ASP:O	1:K:436:ASN:HB3	2.16	0.45
1:K:528:LYS:HD2	1:K:560:LEU:HD11	1.98	0.45
1:K:91:ALA:O	1:K:94:LEU:N	2.49	0.45
1:L:369:TYR:HA	1:L:370:PRO:HD3	1.75	0.45
1:L:425:VAL:O	1:L:426:ASN:C	2.55	0.45
1:L:622:LEU:O	1:L:625:ALA:HB3	2.16	0.45
1:L:86:ALA:HB2	1:L:515:GLU:HG3	1.98	0.45
1:A:134:ASP:OD2	1:L:229:LYS:HE3	2.16	0.45
1:A:234:ILE:HG13	1:A:267:ALA:HB3	1.99	0.45
1:A:241:GLY:O	1:A:242:GLU:C	2.55	0.45
1:A:433:ASP:O	1:A:436:ASN:HB3	2.16	0.45
1:A:673:ALA:O	1:A:674:SER:C	2.54	0.45
1:B:143:VAL:CG1	1:B:144:ILE:N	2.79	0.45
1:C:246:TYR:HE2	1:C:512:GLY:CA	2.29	0.45
1:D:234:ILE:HG13	1:D:267:ALA:HB3	1.99	0.45
1:D:263:PHE:CD2	1:D:263:PHE:O	2.69	0.45
1:D:425:VAL:O	1:D:426:ASN:C	2.55	0.45
1:D:577:ILE:CD1	1:D:589:GLU:HB3	2.47	0.45
1:D:86:ALA:HB2	1:D:515:GLU:HG3	1.98	0.45
1:E:246:TYR:HE2	1:E:512:GLY:CA	2.29	0.45
1:F:241:GLY:O	1:F:242:GLU:C	2.55	0.45
1:F:413:LYS:H	1:F:413:LYS:HG2	1.61	0.45
1:F:425:VAL:O	1:F:426:ASN:C	2.55	0.45
1:F:433:ASP:O	1:F:436:ASN:HB3	2.16	0.45
1:F:528:LYS:HD2	1:F:560:LEU:HD11	1.99	0.45
1:G:115:VAL:CG2	1:G:116:ARG:N	2.79	0.45
1:G:11:ILE:HG12	1:G:11:ILE:O	2.15	0.45
1:G:433:ASP:O	1:G:436:ASN:HB3	2.16	0.45
1:H:248:LYS:HZ1	1:H:513:ARG:HH12	1.62	0.45
1:H:577:ILE:CD1	1:H:589:GLU:HB3	2.47	0.45
1:J:234:ILE:CG1	1:J:267:ALA:HB3	2.46	0.45
1:J:528:LYS:HD2	1:J:560:LEU:HD11	1.99	0.45
1:K:327:GLN:NE2	1:K:327:GLN:O	2.48	0.45
1:K:350:PHE:HZ	1:K:392:TYR:CD2	2.34	0.45
1:L:234:ILE:CG1	1:L:267:ALA:HB3	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:350:PHE:HZ	1:L:392:TYR:CD2	2.34	0.45
1:K:724:PRO:N	1:L:725:GLN:O	2.49	0.45
1:A:143:VAL:CG1	1:A:144:ILE:N	2.79	0.45
1:A:266:ILE:O	1:A:267:ALA:HB2	2.16	0.45
1:A:577:ILE:CD1	1:A:589:GLU:HB3	2.47	0.45
1:B:327:GLN:O	1:B:327:GLN:NE2	2.48	0.45
1:C:234:ILE:CG1	1:C:267:ALA:HB3	2.46	0.45
1:D:634:ILE:O	1:D:638:LYS:N	2.42	0.45
1:F:584:PRO:CB	1:F:590:GLN:HG2	2.46	0.45
1:G:143:VAL:CG1	1:G:144:ILE:N	2.79	0.45
1:G:528:LYS:HD2	1:G:560:LEU:HD11	1.99	0.45
1:G:577:ILE:CD1	1:G:589:GLU:HB3	2.47	0.45
1:I:237:ASP:H	1:I:243:PRO:HA	1.81	0.45
1:I:66:LYS:HZ1	1:I:420:VAL:HG11	1.81	0.45
1:I:584:PRO:CB	1:I:590:GLN:HG2	2.46	0.45
1:J:246:TYR:HE2	1:J:512:GLY:CA	2.29	0.45
1:J:438:LEU:HD11	1:K:108:LYS:HD2	1.97	0.45
1:J:577:ILE:CD1	1:J:589:GLU:HB3	2.47	0.45
1:J:673:ALA:O	1:J:674:SER:C	2.54	0.45
1:K:263:PHE:O	1:K:263:PHE:CG	2.65	0.45
1:K:37:ARG:HD2	1:K:37:ARG:HA	1.70	0.45
1:L:327:GLN:NE2	1:L:327:GLN:O	2.48	0.45
1:L:91:ALA:O	1:L:94:LEU:N	2.49	0.45
1:A:115:VAL:CG2	1:A:116:ARG:N	2.79	0.45
1:A:263:PHE:O	1:A:263:PHE:CD2	2.69	0.45
1:B:528:LYS:HD2	1:B:560:LEU:HD11	1.98	0.45
1:B:577:ILE:CD1	1:B:589:GLU:HB3	2.47	0.45
1:B:63:VAL:O	1:B:67:LEU:HG	2.15	0.45
1:D:234:ILE:CG1	1:D:267:ALA:HB3	2.46	0.45
1:D:241:GLY:O	1:D:242:GLU:C	2.54	0.45
1:E:528:LYS:HB2	1:E:528:LYS:HE3	1.77	0.45
1:E:584:PRO:CB	1:E:590:GLN:HG2	2.46	0.45
1:F:411:ALA:CB	1:G:57:PHE:CD1	3.00	0.45
1:F:622:LEU:O	1:F:625:ALA:HB3	2.16	0.45
1:G:234:ILE:CG1	1:G:267:ALA:HB3	2.46	0.45
1:G:91:ALA:O	1:G:94:LEU:N	2.49	0.45
1:H:143:VAL:CG1	1:H:144:ILE:N	2.79	0.45
1:H:241:GLY:O	1:H:242:GLU:C	2.55	0.45
1:H:91:ALA:O	1:H:94:LEU:N	2.49	0.45
1:I:143:VAL:CG1	1:I:144:ILE:N	2.79	0.45
1:I:234:ILE:CG1	1:I:267:ALA:HB3	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:577:ILE:CD1	1:I:589:GLU:HB3	2.47	0.45
1:K:237:ASP:H	1:K:243:PRO:HA	1.81	0.45
1:K:246:TYR:HE2	1:K:512:GLY:CA	2.29	0.45
1:K:576:LEU:O	1:K:579:MET:HB2	2.16	0.45
1:K:622:LEU:O	1:K:625:ALA:HB3	2.16	0.45
1:L:248:LYS:H	1:L:248:LYS:CD	2.29	0.45
1:B:138:THR:HG23	1:B:143:VAL:CG2	2.37	0.45
1:C:115:VAL:CG2	1:C:116:ARG:N	2.79	0.45
1:C:143:VAL:CG1	1:C:144:ILE:N	2.79	0.45
1:C:171:ARG:HH21	1:D:182:ASN:ND2	2.14	0.45
1:D:91:ALA:O	1:D:94:LEU:N	2.49	0.45
1:E:165:MET:CE	1:E:435:VAL:HB	2.47	0.45
1:E:234:ILE:HG13	1:E:267:ALA:HB3	1.99	0.45
1:F:409:THR:O	1:F:413:LYS:HG2	2.17	0.45
1:G:237:ASP:H	1:G:243:PRO:HA	1.81	0.45
1:G:350:PHE:HZ	1:G:392:TYR:CD2	2.34	0.45
1:G:541:LYS:HB2	1:G:541:LYS:HE2	1.79	0.45
1:G:584:PRO:CB	1:G:590:GLN:HG2	2.46	0.45
1:H:99:ARG:CZ	1:H:524:PHE:HB2	2.46	0.45
1:I:203:ASN:HA	1:I:204:PRO:HD3	1.74	0.45
1:I:99:ARG:CZ	1:I:524:PHE:HB2	2.46	0.45
1:J:115:VAL:CG2	1:J:116:ARG:N	2.79	0.45
1:J:237:ASP:HA	1:J:238:PRO:HD2	1.83	0.45
1:J:26:ARG:CA	1:J:26:ARG:HE	2.29	0.45
1:K:234:ILE:CG1	1:K:267:ALA:HB3	2.46	0.45
1:L:237:ASP:H	1:L:243:PRO:HA	1.81	0.45
1:A:109:ILE:HD13	1:L:165:MET:H	1.81	0.45
1:A:65:ARG:HD3	1:L:418:LEU:HD22	1.99	0.45
1:B:248:LYS:CD	1:B:248:LYS:H	2.29	0.45
1:B:350:PHE:HZ	1:B:392:TYR:CD2	2.34	0.45
1:C:528:LYS:HD2	1:C:560:LEU:HD11	1.99	0.45
1:D:433:ASP:O	1:D:436:ASN:HB3	2.16	0.45
1:D:438:LEU:HD12	1:D:441:ARG:NH1	2.31	0.45
1:D:622:LEU:O	1:D:625:ALA:HB3	2.16	0.45
1:J:143:VAL:CG1	1:J:144:ILE:N	2.79	0.45
1:K:143:VAL:CG1	1:K:144:ILE:N	2.79	0.45
1:K:263:PHE:CD2	1:K:263:PHE:O	2.69	0.45
1:K:266:ILE:O	1:K:267:ALA:HB2	2.16	0.45
1:K:434:THR:O	1:K:438:LEU:HD13	2.17	0.45
1:L:66:LYS:HZ3	1:L:420:VAL:HG11	1.80	0.45
1:A:115:VAL:HG23	1:A:116:ARG:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:255:ILE:O	1:A:258:LEU:N	2.47	0.45
1:A:409:THR:O	1:A:413:LYS:HG2	2.17	0.45
1:A:724:PRO:N	1:B:725:GLN:O	2.49	0.45
1:A:86:ALA:HB2	1:A:515:GLU:HG3	1.98	0.45
1:B:115:VAL:HG23	1:B:116:ARG:N	2.32	0.45
1:B:422:THR:CG2	1:B:423:GLU:N	2.79	0.45
1:B:425:VAL:O	1:B:426:ASN:C	2.55	0.45
1:B:576:LEU:O	1:B:579:MET:HB2	2.16	0.45
1:C:409:THR:O	1:C:413:LYS:HG2	2.17	0.45
1:C:444:LEU:HD13	1:C:444:LEU:N	2.32	0.45
1:C:577:ILE:CD1	1:C:589:GLU:HB3	2.47	0.45
1:D:438:LEU:HD11	1:E:108:LYS:CE	2.47	0.45
1:E:409:THR:O	1:E:413:LYS:HG2	2.17	0.45
1:E:577:ILE:CD1	1:E:589:GLU:HB3	2.47	0.45
1:F:143:VAL:CG1	1:F:144:ILE:N	2.79	0.45
1:F:237:ASP:H	1:F:243:PRO:HA	1.81	0.45
1:F:576:LEU:O	1:F:579:MET:HB2	2.16	0.45
1:F:673:ALA:O	1:F:674:SER:C	2.54	0.45
1:G:422:THR:CG2	1:G:423:GLU:N	2.79	0.45
1:G:434:THR:O	1:G:438:LEU:HD13	2.17	0.45
1:G:673:ALA:O	1:G:674:SER:C	2.54	0.45
1:H:584:PRO:CB	1:H:590:GLN:HG2	2.46	0.45
1:I:234:ILE:HG13	1:I:267:ALA:HB3	1.99	0.45
1:I:26:ARG:CA	1:I:26:ARG:HE	2.29	0.45
1:J:411:ALA:HB1	1:K:57:PHE:CD1	2.48	0.45
1:J:422:THR:CG2	1:J:423:GLU:N	2.79	0.45
1:K:165:MET:CE	1:K:435:VAL:HB	2.47	0.45
1:K:86:ALA:HB2	1:K:515:GLU:HG3	1.98	0.45
1:L:263:PHE:CD2	1:L:263:PHE:O	2.69	0.45
1:A:525:GLN:NE2	1:L:441:ARG:HH21	2.15	0.45
1:A:150:HIS:HB3	1:L:309:PHE:HB2	1.98	0.45
1:A:301:VAL:HA	1:A:302:PRO:HD3	1.67	0.45
1:A:350:PHE:HE1	1:B:363:TYR:CE1	2.25	0.45
1:A:622:LEU:O	1:A:625:ALA:HB3	2.16	0.45
1:A:687:ALA:O	1:A:691:LEU:N	2.39	0.45
1:B:115:VAL:CG2	1:B:116:ARG:N	2.79	0.45
1:B:241:GLY:O	1:B:242:GLU:C	2.55	0.45
1:C:234:ILE:HG13	1:C:267:ALA:HB3	1.99	0.45
1:C:236:GLN:N	1:C:265:LYS:HG2	2.32	0.45
1:C:350:PHE:HZ	1:C:392:TYR:CD2	2.34	0.45
1:C:425:VAL:O	1:C:426:ASN:C	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:350:PHE:HB3	1:E:374:LEU:CD1	2.46	0.45
1:D:576:LEU:O	1:D:579:MET:HB2	2.16	0.45
1:E:433:ASP:O	1:E:436:ASN:HB3	2.16	0.45
1:F:99:ARG:CZ	1:F:524:PHE:HB2	2.46	0.45
1:G:115:VAL:HG23	1:G:116:ARG:N	2.32	0.45
1:G:241:GLY:O	1:G:242:GLU:C	2.55	0.45
1:G:236:GLN:N	1:G:265:LYS:HG2	2.32	0.45
1:G:425:VAL:O	1:G:426:ASN:C	2.55	0.45
1:H:115:VAL:CG2	1:H:116:ARG:N	2.79	0.45
1:H:165:MET:CE	1:H:435:VAL:HB	2.47	0.45
1:H:266:ILE:O	1:H:267:ALA:HB2	2.16	0.45
1:H:425:VAL:O	1:H:426:ASN:C	2.55	0.45
1:H:433:ASP:O	1:H:436:ASN:HB3	2.16	0.45
1:I:236:GLN:N	1:I:265:LYS:HG2	2.32	0.45
1:I:622:LEU:O	1:I:625:ALA:HB3	2.16	0.45
1:J:425:VAL:O	1:J:426:ASN:C	2.55	0.45
1:J:622:LEU:O	1:J:625:ALA:HB3	2.16	0.45
1:K:115:VAL:HG23	1:K:116:ARG:N	2.32	0.45
1:K:234:ILE:HG13	1:K:267:ALA:HB3	1.99	0.45
1:L:198:ILE:HA	1:L:199:PRO:HD3	1.74	0.45
1:L:409:THR:O	1:L:413:LYS:HG2	2.17	0.45
1:A:26:ARG:HG3	1:A:27:ARG:N	2.32	0.45
1:A:26:ARG:NE	1:A:26:ARG:HA	2.32	0.45
1:B:236:GLN:N	1:B:265:LYS:HG2	2.32	0.45
1:B:444:LEU:N	1:B:444:LEU:HD13	2.32	0.45
1:B:673:ALA:O	1:B:674:SER:C	2.54	0.45
1:C:165:MET:CE	1:C:435:VAL:HB	2.47	0.45
1:D:26:ARG:HG3	1:D:27:ARG:N	2.32	0.45
1:D:673:ALA:O	1:D:674:SER:C	2.54	0.45
1:E:115:VAL:HG23	1:E:116:ARG:N	2.32	0.45
1:E:122:GLY:O	1:E:305:GLY:N	2.47	0.45
1:E:350:PHE:HZ	1:E:392:TYR:CD2	2.34	0.45
1:F:350:PHE:HZ	1:F:392:TYR:CD2	2.34	0.45
1:F:528:LYS:HE3	1:F:528:LYS:HB2	1.77	0.45
1:E:557:PHE:CE2	1:F:563:LYS:HD3	2.51	0.45
1:F:86:ALA:HB2	1:F:515:GLU:HG3	1.98	0.45
1:G:198:ILE:HA	1:G:199:PRO:HD3	1.74	0.45
1:G:234:ILE:HG13	1:G:267:ALA:HB3	1.99	0.45
1:G:263:PHE:CD2	1:G:263:PHE:O	2.69	0.45
1:G:26:ARG:HG3	1:G:27:ARG:N	2.32	0.45
1:H:409:THR:O	1:H:413:LYS:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:425:VAL:O	1:I:426:ASN:C	2.55	0.45
1:I:433:ASP:O	1:I:436:ASN:HB3	2.16	0.45
1:I:541:LYS:HB2	1:I:541:LYS:HE2	1.79	0.45
1:J:165:MET:CE	1:J:435:VAL:HB	2.47	0.45
1:J:409:THR:O	1:J:413:LYS:HG2	2.17	0.45
1:J:434:THR:O	1:J:438:LEU:HD13	2.17	0.45
1:K:236:GLN:N	1:K:265:LYS:HG2	2.32	0.45
1:K:425:VAL:O	1:K:426:ASN:C	2.55	0.45
1:A:122:GLY:O	1:A:305:GLY:N	2.47	0.45
1:A:422:THR:CG2	1:A:423:GLU:N	2.79	0.45
1:B:237:ASP:H	1:B:243:PRO:HA	1.81	0.45
1:A:350:PHE:CD1	1:B:372:TYR:HB2	2.52	0.45
1:C:86:ALA:HB2	1:C:515:GLU:HG3	1.98	0.45
1:C:576:LEU:O	1:C:579:MET:HB2	2.16	0.45
1:D:143:VAL:CG1	1:D:144:ILE:N	2.79	0.45
1:D:236:GLN:N	1:D:265:LYS:HG2	2.32	0.45
1:D:171:ARG:NE	1:E:186:ASP:OD1	2.50	0.45
1:F:246:TYR:HE2	1:F:512:GLY:CA	2.29	0.45
1:F:411:ALA:HB1	1:G:57:PHE:CD1	2.46	0.45
1:G:26:ARG:NE	1:G:26:ARG:HA	2.32	0.45
1:G:325:ASP:OD2	1:H:56:GLN:N	2.50	0.45
1:G:576:LEU:O	1:G:579:MET:HB2	2.16	0.45
1:H:234:ILE:CG1	1:H:267:ALA:HB3	2.46	0.45
1:I:241:GLY:O	1:I:242:GLU:C	2.54	0.45
1:I:248:LYS:CD	1:I:248:LYS:H	2.29	0.45
1:I:422:THR:HG23	1:I:423:GLU:N	2.32	0.45
1:J:26:ARG:NE	1:J:26:ARG:HA	2.32	0.45
1:L:234:ILE:HG13	1:L:267:ALA:HB3	1.99	0.45
1:C:622:LEU:O	1:C:625:ALA:HB3	2.16	0.44
1:E:263:PHE:CG	1:E:263:PHE:O	2.65	0.44
1:E:234:ILE:CG1	1:E:267:ALA:HB3	2.46	0.44
1:D:404:MET:SD	1:E:337:ASN:HB3	2.56	0.44
1:E:422:THR:HG23	1:E:423:GLU:N	2.33	0.44
1:E:99:ARG:CZ	1:E:524:PHE:HB2	2.46	0.44
1:F:115:VAL:HG23	1:F:116:ARG:N	2.32	0.44
1:F:26:ARG:HG3	1:F:27:ARG:N	2.32	0.44
1:F:422:THR:HG23	1:F:423:GLU:N	2.33	0.44
1:F:59:VAL:O	1:F:62:PRO:CD	2.51	0.44
1:G:26:ARG:HE	1:G:26:ARG:CA	2.29	0.44
1:G:411:ALA:CB	1:H:57:PHE:CD1	3.00	0.44
1:H:622:LEU:O	1:H:625:ALA:HB3	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:26:ARG:HA	1:I:26:ARG:NE	2.32	0.44
1:I:37:ARG:HD2	1:I:37:ARG:HA	1.70	0.44
1:J:255:ILE:O	1:J:258:LEU:N	2.47	0.44
1:J:576:LEU:O	1:J:579:MET:HB2	2.16	0.44
1:K:577:ILE:CD1	1:K:589:GLU:HB3	2.47	0.44
1:L:236:GLN:N	1:L:265:LYS:HG2	2.32	0.44
1:L:26:ARG:HG3	1:L:27:ARG:N	2.32	0.44
1:L:165:MET:CE	1:L:435:VAL:HB	2.47	0.44
1:L:246:TYR:HE2	1:L:512:GLY:CA	2.29	0.44
1:L:577:ILE:CD1	1:L:589:GLU:HB3	2.47	0.44
1:L:576:LEU:O	1:L:579:MET:HB2	2.16	0.44
1:A:422:THR:HG23	1:A:423:GLU:N	2.33	0.44
1:A:444:LEU:HD13	1:A:444:LEU:N	2.32	0.44
1:A:528:LYS:HD2	1:A:560:LEU:HD11	1.99	0.44
1:A:271:ILE:HA	1:B:134:ASP:OD2	2.17	0.44
1:B:26:ARG:HG3	1:B:27:ARG:N	2.32	0.44
1:B:409:THR:O	1:B:413:LYS:HG2	2.17	0.44
1:B:622:LEU:O	1:B:625:ALA:HB3	2.16	0.44
1:C:26:ARG:HG3	1:C:27:ARG:N	2.32	0.44
1:D:165:MET:HG3	1:D:307:TRP:CD2	2.53	0.44
1:E:165:MET:HG3	1:E:307:TRP:CD2	2.53	0.44
1:E:236:GLN:N	1:E:265:LYS:HG2	2.32	0.44
1:E:241:GLY:O	1:E:242:GLU:C	2.54	0.44
1:E:26:ARG:HG3	1:E:27:ARG:N	2.32	0.44
1:E:673:ALA:O	1:E:674:SER:C	2.54	0.44
1:F:301:VAL:HA	1:F:302:PRO:HD3	1.67	0.44
1:G:246:TYR:HE2	1:G:512:GLY:CA	2.29	0.44
1:H:165:MET:HE3	1:H:435:VAL:HB	1.98	0.44
1:H:246:TYR:HE2	1:H:512:GLY:CA	2.29	0.44
1:H:26:ARG:CA	1:H:26:ARG:HE	2.29	0.44
1:I:434:THR:O	1:I:438:LEU:HD13	2.17	0.44
1:J:45:LEU:O	1:J:46:SER:HB3	2.18	0.44
1:J:554:LEU:HD12	1:J:557:PHE:HD2	1.83	0.44
1:K:400:ALA:HB3	1:L:395:PRO:HB2	1.99	0.44
1:L:165:MET:HG3	1:L:307:TRP:CD2	2.53	0.44
1:L:433:ASP:O	1:L:436:ASN:HB3	2.16	0.44
1:B:26:ARG:NE	1:B:26:ARG:HA	2.32	0.44
1:B:554:LEU:HD12	1:B:557:PHE:HD2	1.83	0.44
1:C:203:ASN:HA	1:C:204:PRO:HD3	1.74	0.44
1:C:554:LEU:HD12	1:C:557:PHE:HD2	1.83	0.44
1:D:554:LEU:HD12	1:D:557:PHE:HD2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:255:ILE:O	1:E:258:LEU:N	2.47	0.44
1:E:422:THR:CG2	1:E:423:GLU:N	2.79	0.44
1:E:434:THR:HG23	1:E:435:VAL:N	2.33	0.44
1:F:234:ILE:CG1	1:F:267:ALA:HB3	2.46	0.44
1:F:165:MET:CE	1:F:435:VAL:HB	2.47	0.44
1:F:554:LEU:HD12	1:F:557:PHE:HD2	1.83	0.44
1:G:66:LYS:HZ1	1:G:420:VAL:HG11	1.80	0.44
1:G:434:THR:HG23	1:G:435:VAL:N	2.33	0.44
1:G:86:ALA:HB2	1:G:515:GLU:HG3	1.98	0.44
1:H:115:VAL:HG23	1:H:116:ARG:N	2.32	0.44
1:H:434:THR:O	1:H:438:LEU:HD13	2.17	0.44
1:I:576:LEU:O	1:I:579:MET:HB2	2.16	0.44
1:J:15:PHE:HZ	1:J:283:CYS:SG	2.41	0.44
1:J:550:GLN:H	1:J:550:GLN:CD	2.21	0.44
1:K:26:ARG:HA	1:K:26:ARG:NE	2.32	0.44
1:K:45:LEU:O	1:K:46:SER:HB3	2.18	0.44
1:K:88:PRO:O	1:L:561:ASP:HB2	2.16	0.44
1:L:115:VAL:HG23	1:L:116:ARG:N	2.32	0.44
1:L:158:TRP:HB3	1:L:173:CYS:N	2.33	0.44
1:A:155:HIS:CE1	1:L:312:ASP:OD1	2.70	0.44
1:A:434:THR:O	1:A:438:LEU:HD13	2.17	0.44
1:B:634:ILE:O	1:B:638:LYS:N	2.42	0.44
1:C:15:PHE:HZ	1:C:283:CYS:SG	2.41	0.44
1:C:434:THR:O	1:C:438:LEU:HD13	2.17	0.44
1:C:434:THR:HG23	1:C:435:VAL:N	2.33	0.44
1:C:99:ARG:CZ	1:C:524:PHE:HB2	2.45	0.44
1:D:255:ILE:O	1:D:258:LEU:N	2.47	0.44
1:D:350:PHE:HZ	1:D:392:TYR:CD2	2.34	0.44
1:D:434:THR:O	1:D:438:LEU:HD13	2.17	0.44
1:D:444:LEU:HD13	1:D:444:LEU:N	2.32	0.44
1:D:584:PRO:CB	1:D:590:GLN:HG2	2.46	0.44
1:E:45:LEU:O	1:E:46:SER:HB3	2.18	0.44
1:F:343:ARG:HG2	1:F:343:ARG:H	1.52	0.44
1:F:434:THR:HG23	1:F:435:VAL:N	2.33	0.44
1:G:147:GLU:HA	1:G:148:PRO:HD3	1.83	0.44
1:F:171:ARG:HH21	1:G:182:ASN:HD22	1.66	0.44
1:G:73:GLN:C	1:G:75:PRO:HD3	2.38	0.44
1:G:78:VAL:O	1:G:79:LEU:HD22	2.18	0.44
1:H:237:ASP:H	1:H:243:PRO:HA	1.81	0.44
1:H:369:TYR:HA	1:H:370:PRO:HD3	1.75	0.44
1:H:78:VAL:O	1:H:79:LEU:HD22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:15:PHE:HZ	1:I:283:CYS:SG	2.41	0.44
1:I:409:THR:O	1:I:413:LYS:HG2	2.17	0.44
1:I:444:LEU:N	1:I:444:LEU:HD13	2.32	0.44
1:J:138:THR:HG23	1:J:143:VAL:CG2	2.37	0.44
1:J:343:ARG:HG2	1:J:343:ARG:H	1.52	0.44
1:J:434:THR:HG23	1:J:435:VAL:N	2.33	0.44
1:K:409:THR:O	1:K:413:LYS:HG2	2.17	0.44
1:K:422:THR:CG2	1:K:423:GLU:N	2.79	0.44
1:L:71:MET:CE	1:L:115:VAL:HB	2.45	0.44
1:L:26:ARG:HA	1:L:26:ARG:NE	2.32	0.44
1:A:236:GLN:N	1:A:265:LYS:HG2	2.32	0.44
1:A:165:MET:CE	1:A:435:VAL:HB	2.47	0.44
1:B:73:GLN:C	1:B:75:PRO:HD3	2.38	0.44
1:C:158:TRP:HB3	1:C:173:CYS:N	2.33	0.44
1:C:45:LEU:O	1:C:46:SER:HB3	2.18	0.44
1:D:26:ARG:NE	1:D:26:ARG:HA	2.32	0.44
1:D:528:LYS:HD2	1:D:560:LEU:HD11	1.99	0.44
1:F:444:LEU:N	1:F:444:LEU:HD13	2.32	0.44
1:F:45:LEU:O	1:F:46:SER:HB3	2.18	0.44
1:G:15:PHE:HZ	1:G:283:CYS:SG	2.41	0.44
1:G:322:LEU:HA	1:G:322:LEU:HD13	1.77	0.44
1:G:554:LEU:HD12	1:G:557:PHE:HD2	1.83	0.44
1:H:122:GLY:O	1:H:305:GLY:N	2.47	0.44
1:H:37:ARG:HA	1:H:37:ARG:HD2	1.70	0.44
1:I:45:LEU:O	1:I:46:SER:HB3	2.18	0.44
1:I:550:GLN:H	1:I:550:GLN:CD	2.21	0.44
1:J:165:MET:HG3	1:J:307:TRP:CD2	2.52	0.44
1:J:26:ARG:HG3	1:J:27:ARG:N	2.32	0.44
1:J:78:VAL:O	1:J:79:LEU:HD22	2.18	0.44
1:L:434:THR:O	1:L:438:LEU:HD13	2.17	0.44
1:L:78:VAL:O	1:L:79:LEU:HD22	2.18	0.44
1:C:105:ASN:O	1:C:109:ILE:HG13	2.18	0.44
1:C:165:MET:HG3	1:C:307:TRP:CD2	2.53	0.44
1:C:59:VAL:O	1:C:62:PRO:CD	2.51	0.44
1:D:115:VAL:HG23	1:D:116:ARG:N	2.32	0.44
1:D:158:TRP:HB3	1:D:173:CYS:N	2.33	0.44
1:D:392:TYR:HA	1:E:391:TYR:OH	2.18	0.44
1:E:158:TRP:HB3	1:E:173:CYS:N	2.33	0.44
1:E:26:ARG:HA	1:E:26:ARG:NE	2.32	0.44
1:E:26:ARG:CA	1:E:26:ARG:HE	2.29	0.44
1:E:15:PHE:HZ	1:E:283:CYS:SG	2.41	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:236:GLN:N	1:F:265:LYS:HG2	2.32	0.44
1:F:37:ARG:HA	1:F:37:ARG:HD2	1.70	0.44
1:F:434:THR:O	1:F:438:LEU:HD13	2.17	0.44
1:G:165:MET:HG3	1:G:307:TRP:CD2	2.53	0.44
1:H:236:GLN:N	1:H:265:LYS:HG2	2.32	0.44
1:H:73:GLN:C	1:H:75:PRO:HD3	2.38	0.44
1:I:118:GLN:N	1:I:123:VAL:O	2.51	0.44
1:I:26:ARG:HG3	1:I:27:ARG:N	2.32	0.44
1:I:73:GLN:C	1:I:75:PRO:HD3	2.38	0.44
1:K:158:TRP:HB3	1:K:173:CYS:N	2.33	0.44
1:K:203:ASN:HA	1:K:204:PRO:HD3	1.74	0.44
1:K:26:ARG:CA	1:K:26:ARG:HE	2.29	0.44
1:L:138:THR:HG23	1:L:143:VAL:CG2	2.37	0.44
1:A:165:MET:HG3	1:A:307:TRP:CD2	2.53	0.44
1:A:24:GLU:OE2	1:B:213:THR:CG2	2.66	0.44
1:A:554:LEU:HD12	1:A:557:PHE:HD2	1.83	0.44
1:B:158:TRP:HB3	1:B:173:CYS:N	2.33	0.44
1:C:236:GLN:HE21	1:C:265:LYS:HZ1	1.65	0.44
1:C:37:ARG:HD2	1:C:37:ARG:HA	1.70	0.44
1:D:118:GLN:N	1:D:123:VAL:O	2.51	0.44
1:D:15:PHE:HZ	1:D:283:CYS:SG	2.41	0.44
1:F:26:ARG:HA	1:F:26:ARG:NE	2.32	0.44
1:F:78:VAL:O	1:F:79:LEU:HD22	2.18	0.44
1:G:45:LEU:O	1:G:46:SER:HB3	2.18	0.44
1:G:634:ILE:O	1:G:638:LYS:N	2.42	0.44
1:I:415:VAL:HA	1:J:62:PRO:HG3	1.99	0.44
1:J:118:GLN:N	1:J:123:VAL:O	2.51	0.44
1:J:73:GLN:C	1:J:75:PRO:HD3	2.38	0.44
1:K:118:GLN:N	1:K:123:VAL:O	2.51	0.44
1:K:26:ARG:HG3	1:K:27:ARG:N	2.32	0.44
1:K:434:THR:HG23	1:K:435:VAL:N	2.33	0.44
1:L:105:ASN:O	1:L:109:ILE:HG13	2.18	0.44
1:L:528:LYS:HD2	1:L:560:LEU:HD11	1.99	0.44
1:A:118:GLN:HE21	1:A:118:GLN:HB2	1.66	0.44
1:A:26:ARG:HE	1:A:26:ARG:CA	2.29	0.44
1:A:325:ASP:OD2	1:B:56:GLN:N	2.50	0.44
1:A:425:VAL:O	1:A:426:ASN:C	2.55	0.44
1:A:73:GLN:C	1:A:75:PRO:HD3	2.38	0.44
1:B:165:MET:CE	1:B:435:VAL:HB	2.47	0.44
1:B:422:THR:HG23	1:B:423:GLU:N	2.33	0.44
1:B:99:ARG:CZ	1:B:524:PHE:HB2	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:118:GLN:N	1:C:123:VAL:O	2.51	0.44
1:D:352:TRP:HA	1:E:374:LEU:O	2.18	0.44
1:D:165:MET:CE	1:D:435:VAL:HB	2.47	0.44
1:E:105:ASN:O	1:E:109:ILE:HG13	2.18	0.44
1:D:350:PHE:HE1	1:E:363:TYR:CE1	2.35	0.44
1:E:444:LEU:N	1:E:444:LEU:HD13	2.32	0.44
1:E:554:LEU:HD12	1:E:557:PHE:HD2	1.83	0.44
1:E:59:VAL:O	1:E:62:PRO:CD	2.51	0.44
1:E:438:LEU:HD11	1:F:108:LYS:HD2	2.00	0.44
1:F:15:PHE:HZ	1:F:283:CYS:SG	2.41	0.44
1:F:643:ASN:O	1:F:647:ALA:CB	2.66	0.44
1:G:118:GLN:N	1:G:123:VAL:O	2.51	0.44
1:G:158:TRP:HB3	1:G:173:CYS:N	2.33	0.44
1:G:165:MET:CE	1:G:435:VAL:HB	2.47	0.44
1:G:444:LEU:HD13	1:G:444:LEU:N	2.32	0.44
1:G:59:VAL:O	1:G:62:PRO:CD	2.51	0.44
1:H:350:PHE:HZ	1:H:392:TYR:CD2	2.34	0.44
1:H:528:LYS:HD2	1:H:560:LEU:HD11	1.98	0.44
1:H:550:GLN:CD	1:H:550:GLN:H	2.21	0.44
1:H:576:LEU:O	1:H:579:MET:HB2	2.16	0.44
1:I:528:LYS:HD2	1:I:560:LEU:HD11	1.99	0.44
1:K:554:LEU:HD12	1:K:557:PHE:HD2	1.83	0.44
1:L:26:ARG:CA	1:L:26:ARG:HE	2.29	0.44
1:L:550:GLN:CD	1:L:550:GLN:H	2.21	0.44
1:L:554:LEU:HD12	1:L:557:PHE:HD2	1.83	0.44
1:L:634:ILE:O	1:L:638:LYS:N	2.42	0.44
1:A:541:LYS:HE2	1:A:541:LYS:HB2	1.79	0.44
1:B:118:GLN:N	1:B:123:VAL:O	2.51	0.44
1:B:15:PHE:HZ	1:B:283:CYS:SG	2.41	0.44
1:C:26:ARG:HA	1:C:26:ARG:NE	2.32	0.44
1:C:422:THR:HG23	1:C:423:GLU:N	2.33	0.44
1:C:73:GLN:C	1:C:75:PRO:HD3	2.38	0.44
1:D:422:THR:HG23	1:D:423:GLU:N	2.33	0.44
1:D:434:THR:HG23	1:D:435:VAL:N	2.33	0.44
1:F:577:ILE:CD1	1:F:589:GLU:HB3	2.47	0.44
1:G:409:THR:O	1:G:413:LYS:HG2	2.17	0.44
1:H:105:ASN:O	1:H:109:ILE:HG13	2.18	0.44
1:H:59:VAL:O	1:H:62:PRO:CD	2.51	0.44
1:I:434:THR:HG23	1:I:435:VAL:N	2.33	0.44
1:I:643:ASN:O	1:I:647:ALA:CB	2.66	0.44
1:J:158:TRP:HB3	1:J:173:CYS:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:99:ARG:CZ	1:J:524:PHE:HB2	2.45	0.44
1:K:387:GLN:HG2	1:K:387:GLN:H	1.60	0.44
1:K:550:GLN:H	1:K:550:GLN:CD	2.21	0.44
1:L:157:ILE:O	1:L:174:THR:HG23	2.18	0.44
1:L:191:TYR:HE1	1:L:278:LYS:HZ3	1.66	0.44
1:L:322:LEU:HA	1:L:322:LEU:HD13	1.77	0.44
1:L:541:LYS:HE2	1:L:541:LYS:HB2	1.79	0.44
1:A:78:VAL:O	1:A:79:LEU:HD22	2.18	0.43
1:B:105:ASN:O	1:B:109:ILE:HG13	2.18	0.43
1:B:311:GLU:O	1:B:312:ASP:CB	2.66	0.43
1:C:115:VAL:HG23	1:C:116:ARG:N	2.32	0.43
1:C:413:LYS:H	1:C:413:LYS:HG2	1.61	0.43
1:C:643:ASN:O	1:C:647:ALA:CB	2.66	0.43
1:D:105:ASN:O	1:D:109:ILE:HG13	2.18	0.43
1:D:369:TYR:HA	1:D:370:PRO:HD3	1.75	0.43
1:D:409:THR:O	1:D:413:LYS:HG2	2.17	0.43
1:D:45:LEU:O	1:D:46:SER:HB3	2.18	0.43
1:D:528:LYS:HE3	1:D:528:LYS:HB2	1.77	0.43
1:E:528:LYS:HD2	1:E:560:LEU:HD11	1.99	0.43
1:E:657:MET:O	1:E:661:LYS:CB	2.67	0.43
1:F:24:GLU:OE2	1:G:213:THR:HG22	2.18	0.43
1:F:165:MET:HG3	1:F:307:TRP:CD2	2.53	0.43
1:F:325:ASP:OD2	1:G:56:GLN:N	2.51	0.43
1:F:657:MET:O	1:F:661:LYS:CB	2.66	0.43
1:G:105:ASN:O	1:G:109:ILE:HG13	2.18	0.43
1:G:657:MET:O	1:G:661:LYS:CB	2.66	0.43
1:H:26:ARG:HG3	1:H:27:ARG:N	2.32	0.43
1:H:165:MET:HG3	1:H:307:TRP:CD2	2.52	0.43
1:I:115:VAL:HG23	1:I:116:ARG:N	2.32	0.43
1:J:105:ASN:O	1:J:109:ILE:HG13	2.18	0.43
1:J:643:ASN:O	1:J:647:ALA:CB	2.66	0.43
1:K:444:LEU:HD13	1:K:444:LEU:N	2.32	0.43
1:K:78:VAL:O	1:K:79:LEU:HD22	2.18	0.43
1:A:105:ASN:O	1:A:109:ILE:HG13	2.18	0.43
1:A:45:LEU:O	1:A:46:SER:HB3	2.18	0.43
1:B:234:ILE:HG13	1:B:267:ALA:HB3	1.98	0.43
1:B:237:ASP:HA	1:B:238:PRO:HD2	1.83	0.43
1:B:301:VAL:HA	1:B:302:PRO:HD3	1.67	0.43
1:B:45:LEU:O	1:B:46:SER:HB3	2.18	0.43
1:D:26:ARG:HE	1:D:26:ARG:CA	2.29	0.43
1:E:14:ARG:NE	1:E:14:ARG:CA	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:31:ASN:HD22	1:E:31:ASN:HA	1.65	0.43
1:E:425:VAL:O	1:E:426:ASN:C	2.55	0.43
1:E:634:ILE:O	1:E:638:LYS:N	2.42	0.43
1:F:105:ASN:O	1:F:109:ILE:HG13	2.18	0.43
1:F:138:THR:HG23	1:F:143:VAL:CG2	2.37	0.43
1:H:422:THR:HG23	1:H:423:GLU:N	2.33	0.43
1:I:158:TRP:HB3	1:I:173:CYS:N	2.33	0.43
1:I:165:MET:CE	1:I:435:VAL:HB	2.47	0.43
1:I:554:LEU:HD12	1:I:557:PHE:HD2	1.83	0.43
1:I:78:VAL:O	1:I:79:LEU:HD22	2.18	0.43
1:J:115:VAL:HG23	1:J:116:ARG:N	2.32	0.43
1:J:157:ILE:O	1:J:174:THR:HG23	2.18	0.43
1:J:444:LEU:HD13	1:J:444:LEU:N	2.32	0.43
1:L:422:THR:HG23	1:L:423:GLU:N	2.33	0.43
1:A:35:PHE:HE2	1:A:324:LYS:HZ3	1.65	0.43
1:C:78:VAL:O	1:C:79:LEU:HD22	2.18	0.43
1:D:384:LEU:H	1:D:384:LEU:HD22	1.84	0.43
1:D:571:TYR:CZ	1:D:575:GLN:CG	3.01	0.43
1:E:369:TYR:HA	1:E:370:PRO:HD3	1.75	0.43
1:E:418:LEU:HB2	1:E:428:GLY:O	2.19	0.43
1:E:571:TYR:CZ	1:E:575:GLN:CG	3.01	0.43
1:G:550:GLN:CD	1:G:550:GLN:H	2.21	0.43
1:H:422:THR:CG2	1:H:423:GLU:N	2.79	0.43
1:H:444:LEU:HD13	1:H:444:LEU:N	2.32	0.43
1:I:105:ASN:O	1:I:109:ILE:HG13	2.18	0.43
1:I:165:MET:HG3	1:I:307:TRP:CD2	2.52	0.43
1:I:411:ALA:CB	1:J:57:PHE:CD1	3.02	0.43
1:J:422:THR:HG23	1:J:423:GLU:N	2.33	0.43
1:L:255:ILE:O	1:L:256:ASP:C	2.57	0.43
1:A:118:GLN:N	1:A:123:VAL:O	2.51	0.43
1:A:157:ILE:O	1:A:174:THR:HG23	2.18	0.43
1:B:434:THR:HG23	1:B:435:VAL:N	2.33	0.43
1:B:59:VAL:O	1:B:62:PRO:CD	2.51	0.43
1:D:157:ILE:O	1:D:174:THR:HG23	2.18	0.43
1:E:118:GLN:N	1:E:123:VAL:O	2.51	0.43
1:E:147:GLU:HA	1:E:148:PRO:HD3	1.83	0.43
1:E:434:THR:O	1:E:438:LEU:HD13	2.17	0.43
1:F:118:GLN:N	1:F:123:VAL:O	2.51	0.43
1:G:352:TRP:CG	1:H:376:ARG:HB2	2.53	0.43
1:G:384:LEU:H	1:G:384:LEU:HD22	1.84	0.43
1:H:234:ILE:HG13	1:H:267:ALA:HB3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:157:ILE:O	1:I:174:THR:HG23	2.18	0.43
1:I:35:PHE:HE2	1:I:324:LYS:HZ3	1.65	0.43
1:I:657:MET:O	1:I:661:LYS:CB	2.66	0.43
1:K:15:PHE:HZ	1:K:283:CYS:SG	2.41	0.43
1:K:616:LEU:O	1:K:620:ALA:N	2.44	0.43
1:L:15:PHE:HZ	1:L:283:CYS:SG	2.41	0.43
1:L:434:THR:HG23	1:L:435:VAL:N	2.33	0.43
1:A:108:LYS:NZ	1:L:434:THR:OG1	2.49	0.43
1:L:444:LEU:HD13	1:L:444:LEU:N	2.32	0.43
1:A:37:ARG:HD2	1:A:37:ARG:HA	1.70	0.43
1:A:550:GLN:CD	1:A:550:GLN:H	2.21	0.43
1:A:657:MET:O	1:A:661:LYS:CB	2.66	0.43
1:B:255:ILE:O	1:B:258:LEU:N	2.47	0.43
1:B:550:GLN:CD	1:B:550:GLN:H	2.21	0.43
1:C:241:GLY:O	1:C:242:GLU:C	2.55	0.43
1:C:264:ILE:HG12	1:C:265:LYS:N	2.34	0.43
1:C:418:LEU:HB2	1:C:428:GLY:O	2.19	0.43
1:D:264:ILE:HG12	1:D:265:LYS:N	2.34	0.43
1:D:418:LEU:HB2	1:D:428:GLY:O	2.19	0.43
1:D:543:PRO:C	1:D:545:GLY:H	2.22	0.43
1:D:550:GLN:H	1:D:550:GLN:CD	2.21	0.43
1:F:157:ILE:O	1:F:174:THR:HG23	2.18	0.43
1:F:418:LEU:HB2	1:F:428:GLY:O	2.19	0.43
1:G:255:ILE:O	1:G:256:ASP:C	2.57	0.43
1:G:422:THR:HG23	1:G:423:GLU:N	2.33	0.43
1:H:311:GLU:O	1:H:312:ASP:CB	2.66	0.43
1:H:434:THR:HG23	1:H:435:VAL:N	2.33	0.43
1:H:45:LEU:O	1:H:46:SER:HB3	2.18	0.43
1:I:264:ILE:HG12	1:I:265:LYS:N	2.34	0.43
1:I:273:ARG:HH21	1:I:513:ARG:HH22	1.67	0.43
1:J:236:GLN:HE21	1:J:265:LYS:HZ1	1.65	0.43
1:K:165:MET:HG3	1:K:307:TRP:CD2	2.53	0.43
1:K:542:THR:HA	1:K:543:PRO:HD3	1.89	0.43
1:L:273:ARG:HH21	1:L:513:ARG:HH22	1.67	0.43
1:L:375:ASN:O	1:L:385:PRO:HG3	2.19	0.43
1:L:45:LEU:O	1:L:46:SER:HB3	2.18	0.43
1:A:158:TRP:HB3	1:A:173:CYS:N	2.33	0.43
1:B:165:MET:HG3	1:B:307:TRP:CD2	2.53	0.43
1:B:434:THR:O	1:B:438:LEU:HD13	2.17	0.43
1:B:78:VAL:O	1:B:79:LEU:HD22	2.18	0.43
1:C:27:ARG:HG2	1:D:212:LEU:CD1	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:422:THR:CG2	1:C:423:GLU:N	2.79	0.43
1:D:255:ILE:O	1:D:256:ASP:C	2.57	0.43
1:D:456:ALA:O	1:D:457:MET:HG2	2.19	0.43
1:D:616:LEU:O	1:D:620:ALA:N	2.44	0.43
1:E:264:ILE:HG12	1:E:265:LYS:N	2.34	0.43
1:E:384:LEU:H	1:E:384:LEU:HD22	1.84	0.43
1:E:78:VAL:O	1:E:79:LEU:HD22	2.18	0.43
1:G:15:PHE:O	1:G:19:TRP:HB2	2.19	0.43
1:G:386:THR:HG21	1:G:389:LEU:HD21	2.01	0.43
1:H:554:LEU:HD12	1:H:557:PHE:HD2	1.83	0.43
1:H:657:MET:O	1:H:661:LYS:CB	2.66	0.43
1:H:82:PRO:HB2	1:H:83:LYS:H	1.63	0.43
1:I:384:LEU:HD22	1:I:384:LEU:H	1.84	0.43
1:J:571:TYR:CZ	1:J:575:GLN:CG	3.01	0.43
1:J:657:MET:O	1:J:661:LYS:CB	2.66	0.43
1:K:657:MET:O	1:K:661:LYS:CB	2.67	0.43
1:L:264:ILE:HG12	1:L:265:LYS:N	2.34	0.43
1:L:643:ASN:O	1:L:647:ALA:CB	2.66	0.43
1:A:456:ALA:O	1:A:457:MET:HG2	2.19	0.43
1:A:57:PHE:CD1	1:L:411:ALA:HB2	2.54	0.43
1:A:671:THR:O	1:A:672:VAL:C	2.57	0.43
1:B:273:ARG:HH21	1:B:513:ARG:HH22	1.67	0.43
1:B:543:PRO:C	1:B:545:GLY:H	2.22	0.43
1:B:671:THR:O	1:B:672:VAL:C	2.57	0.43
1:C:456:ALA:O	1:C:457:MET:HG2	2.19	0.43
1:D:671:THR:O	1:D:672:VAL:C	2.57	0.43
1:E:15:PHE:O	1:E:19:TRP:HB2	2.19	0.43
1:E:541:LYS:HE2	1:E:541:LYS:HB2	1.79	0.43
1:E:73:GLN:C	1:E:75:PRO:HD3	2.38	0.43
1:F:15:PHE:HE2	1:F:19:TRP:NE1	2.17	0.43
1:F:456:ALA:O	1:F:457:MET:HG2	2.19	0.43
1:F:543:PRO:C	1:F:545:GLY:H	2.22	0.43
1:G:616:LEU:O	1:G:620:ALA:N	2.44	0.43
1:G:643:ASN:O	1:G:647:ALA:CB	2.66	0.43
1:H:118:GLN:N	1:H:123:VAL:O	2.51	0.43
1:H:157:ILE:O	1:H:174:THR:HG23	2.18	0.43
1:H:15:PHE:O	1:H:19:TRP:HB2	2.19	0.43
1:H:26:ARG:HA	1:H:26:ARG:NE	2.32	0.43
1:H:15:PHE:HZ	1:H:283:CYS:SG	2.41	0.43
1:H:543:PRO:C	1:H:545:GLY:H	2.22	0.43
1:H:571:TYR:CZ	1:H:575:GLN:CG	3.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:236:GLN:N	1:J:265:LYS:HG2	2.32	0.43
1:J:264:ILE:HG12	1:J:265:LYS:N	2.34	0.43
1:J:561:ASP:CG	1:J:562:GLY:N	2.72	0.43
1:J:671:THR:O	1:J:672:VAL:C	2.57	0.43
1:K:643:ASN:O	1:K:647:ALA:CB	2.66	0.43
1:K:88:PRO:C	1:L:561:ASP:HB2	2.39	0.43
1:A:175:VAL:HG22	1:A:221:GLU:HB2	2.01	0.43
1:A:571:TYR:CZ	1:A:575:GLN:CG	3.01	0.43
1:B:255:ILE:O	1:B:256:ASP:C	2.57	0.43
1:B:375:ASN:O	1:B:385:PRO:HG3	2.19	0.43
1:B:418:LEU:HB2	1:B:428:GLY:O	2.19	0.43
1:B:429:GLN:H	1:B:429:GLN:CD	2.22	0.43
1:B:643:ASN:O	1:B:647:ALA:CB	2.66	0.43
1:D:15:PHE:HE2	1:D:19:TRP:NE1	2.17	0.43
1:D:175:VAL:HG22	1:D:221:GLU:HB2	2.01	0.43
1:D:199:PRO:HB3	1:D:282:THR:CG2	2.46	0.43
1:D:325:ASP:OD2	1:E:56:GLN:HG3	2.19	0.43
1:D:78:VAL:O	1:D:79:LEU:HD22	2.18	0.43
1:E:301:VAL:HA	1:E:302:PRO:HD3	1.67	0.43
1:E:456:ALA:O	1:E:457:MET:HG2	2.19	0.43
1:F:375:ASN:O	1:F:385:PRO:HG3	2.19	0.43
1:F:429:GLN:CD	1:F:429:GLN:H	2.22	0.43
1:G:418:LEU:HB2	1:G:428:GLY:O	2.19	0.43
1:G:429:GLN:H	1:G:429:GLN:CD	2.22	0.43
1:G:82:PRO:HB2	1:G:83:LYS:H	1.63	0.43
1:H:643:ASN:O	1:H:647:ALA:CB	2.66	0.43
1:J:309:PHE:HB2	1:K:150:HIS:ND1	2.34	0.43
1:J:456:ALA:O	1:J:457:MET:HG2	2.19	0.43
1:K:105:ASN:O	1:K:109:ILE:HG13	2.18	0.43
1:K:264:ILE:HG12	1:K:265:LYS:N	2.34	0.43
1:K:384:LEU:HD22	1:K:384:LEU:H	1.84	0.43
1:K:429:GLN:CD	1:K:429:GLN:H	2.22	0.43
1:K:561:ASP:CG	1:K:562:GLY:N	2.72	0.43
1:K:571:TYR:CZ	1:K:575:GLN:CG	3.01	0.43
1:K:73:GLN:C	1:K:75:PRO:HD3	2.38	0.43
1:B:264:ILE:HG12	1:B:265:LYS:N	2.34	0.43
1:C:255:ILE:O	1:C:256:ASP:C	2.57	0.43
1:C:375:ASN:O	1:C:385:PRO:HG3	2.19	0.43
1:D:15:PHE:O	1:D:19:TRP:HB2	2.19	0.43
1:D:643:ASN:O	1:D:647:ALA:CB	2.66	0.43
1:D:73:GLN:C	1:D:75:PRO:HD3	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:175:VAL:HG22	1:E:221:GLU:HB2	2.01	0.43
1:E:434:THR:HG21	1:F:72:ARG:CG	2.49	0.43
1:E:671:THR:O	1:E:672:VAL:C	2.57	0.43
1:F:310:VAL:HB	1:F:311:GLU:H	1.74	0.43
1:F:617:GLN:O	1:F:621:GLU:N	2.52	0.43
1:F:73:GLN:C	1:F:75:PRO:HD3	2.38	0.43
1:G:199:PRO:HB3	1:G:282:THR:CG2	2.46	0.43
1:G:375:ASN:O	1:G:385:PRO:HG3	2.19	0.43
1:G:37:ARG:HD2	1:G:37:ARG:HA	1.70	0.43
1:G:456:ALA:O	1:G:457:MET:HG2	2.19	0.43
1:H:158:TRP:HB3	1:H:173:CYS:N	2.33	0.43
1:H:175:VAL:HG22	1:H:221:GLU:HB2	2.01	0.43
1:H:273:ARG:HH21	1:H:513:ARG:HH22	1.67	0.43
1:H:456:ALA:O	1:H:457:MET:HG2	2.19	0.43
1:H:671:THR:O	1:H:672:VAL:C	2.57	0.43
1:I:543:PRO:C	1:I:545:GLY:H	2.22	0.43
1:J:15:PHE:HE2	1:J:19:TRP:NE1	2.17	0.43
1:J:273:ARG:HH21	1:J:513:ARG:HH22	1.67	0.43
1:K:273:ARG:HH21	1:K:513:ARG:HH22	1.67	0.43
1:K:456:ALA:O	1:K:457:MET:HG2	2.19	0.43
1:K:671:THR:O	1:K:672:VAL:C	2.57	0.43
1:B:15:PHE:HE2	1:B:19:TRP:NE1	2.17	0.43
1:B:175:VAL:HG22	1:B:221:GLU:HB2	2.01	0.43
1:A:92:ASP:HB3	1:B:561:ASP:OD2	2.19	0.43
1:B:561:ASP:CG	1:B:562:GLY:N	2.72	0.43
1:C:237:ASP:HA	1:C:238:PRO:HD2	1.83	0.43
1:C:429:GLN:H	1:C:429:GLN:CD	2.22	0.43
1:C:571:TYR:CZ	1:C:575:GLN:CG	3.01	0.43
1:D:348:LYS:HA	1:D:349:PRO:HD3	1.87	0.43
1:D:386:THR:HG21	1:D:389:LEU:HD21	2.01	0.43
1:D:657:MET:O	1:D:661:LYS:CB	2.66	0.43
1:E:255:ILE:O	1:E:256:ASP:C	2.57	0.43
1:E:326:GLY:O	1:E:329:LEU:HB2	2.19	0.43
1:F:158:TRP:HB3	1:F:173:CYS:N	2.33	0.43
1:F:175:VAL:HG22	1:F:221:GLU:HB2	2.01	0.43
1:F:199:PRO:HB3	1:F:282:THR:CG2	2.46	0.43
1:F:561:ASP:CG	1:F:562:GLY:N	2.72	0.43
1:G:273:ARG:HH21	1:G:513:ARG:HH22	1.67	0.43
1:G:326:GLY:O	1:G:329:LEU:HB2	2.19	0.43
1:H:255:ILE:O	1:H:256:ASP:C	2.57	0.43
1:H:418:LEU:HB2	1:H:428:GLY:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:616:LEU:O	1:H:620:ALA:N	2.44	0.43
1:I:175:VAL:HG22	1:I:221:GLU:HB2	2.01	0.43
1:I:400:ALA:CB	1:J:395:PRO:HB2	2.48	0.43
1:I:634:ILE:O	1:I:638:LYS:N	2.42	0.43
1:J:326:GLY:O	1:J:329:LEU:HB2	2.19	0.43
1:J:375:ASN:O	1:J:385:PRO:HG3	2.19	0.43
1:K:255:ILE:O	1:K:256:ASP:C	2.57	0.43
1:K:255:ILE:O	1:K:258:LEU:N	2.47	0.43
1:K:673:ALA:O	1:K:674:SER:C	2.54	0.43
1:L:384:LEU:HD22	1:L:384:LEU:H	1.84	0.43
1:L:73:GLN:C	1:L:75:PRO:HD3	2.38	0.43
1:A:273:ARG:HH21	1:A:513:ARG:HH22	1.67	0.42
1:A:418:LEU:HB2	1:A:428:GLY:O	2.19	0.42
1:A:429:GLN:CD	1:A:429:GLN:H	2.22	0.42
1:A:643:ASN:O	1:A:647:ALA:CB	2.66	0.42
1:B:157:ILE:O	1:B:174:THR:HG23	2.18	0.42
1:B:386:THR:HG21	1:B:389:LEU:HD21	2.01	0.42
1:B:456:ALA:O	1:B:457:MET:HG2	2.19	0.42
1:C:166:ASP:O	1:C:167:LYS:C	2.58	0.42
1:D:165:MET:H	1:E:109:ILE:HD13	1.83	0.42
1:D:326:GLY:O	1:D:329:LEU:HB2	2.19	0.42
1:D:429:GLN:H	1:D:429:GLN:CD	2.22	0.42
1:D:59:VAL:O	1:D:62:PRO:CD	2.51	0.42
1:E:543:PRO:C	1:E:545:GLY:H	2.22	0.42
1:E:643:ASN:O	1:E:647:ALA:CB	2.66	0.42
1:E:95:MET:O	1:E:96:GLY:C	2.58	0.42
1:F:273:ARG:HH21	1:F:513:ARG:HH22	1.67	0.42
1:F:84:ASP:OD1	1:G:526:SER:HB2	2.18	0.42
1:G:309:PHE:HB2	1:H:150:HIS:ND1	2.34	0.42
1:I:147:GLU:HA	1:I:148:PRO:HD3	1.83	0.42
1:I:166:ASP:O	1:I:167:LYS:C	2.58	0.42
1:I:15:PHE:HE2	1:I:19:TRP:NE1	2.17	0.42
1:I:375:ASN:O	1:I:385:PRO:HG3	2.19	0.42
1:I:571:TYR:CZ	1:I:575:GLN:CG	3.01	0.42
1:J:203:ASN:HA	1:J:204:PRO:HD3	1.74	0.42
1:K:118:GLN:HB2	1:K:118:GLN:HE21	1.66	0.42
1:K:543:PRO:C	1:K:545:GLY:H	2.22	0.42
1:L:657:MET:O	1:L:661:LYS:CB	2.67	0.42
1:A:15:PHE:O	1:A:19:TRP:HB2	2.19	0.42
1:A:326:GLY:O	1:A:329:LEU:HB2	2.19	0.42
1:B:571:TYR:CZ	1:B:575:GLN:CG	3.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:657:MET:O	1:B:661:LYS:CB	2.66	0.42
1:C:175:VAL:HG22	1:C:221:GLU:HB2	2.01	0.42
1:C:657:MET:O	1:C:661:LYS:CB	2.66	0.42
1:D:440:MET:O	1:D:443:ASP:HB3	2.20	0.42
1:D:559:LEU:HD23	1:D:559:LEU:HA	1.85	0.42
1:D:561:ASP:CG	1:D:562:GLY:N	2.72	0.42
1:D:596:ALA:O	1:D:599:ALA:HB3	2.20	0.42
1:E:344:THR:HA	1:E:345:PRO:HD3	1.90	0.42
1:E:273:ARG:HH21	1:E:513:ARG:HH22	1.67	0.42
1:F:237:ASP:HA	1:F:238:PRO:HD2	1.83	0.42
1:F:550:GLN:H	1:F:550:GLN:CD	2.21	0.42
1:H:264:ILE:HG12	1:H:265:LYS:N	2.34	0.42
1:H:326:GLY:O	1:H:329:LEU:HB2	2.19	0.42
1:H:375:ASN:O	1:H:385:PRO:HG3	2.19	0.42
1:I:326:GLY:O	1:I:329:LEU:HB2	2.19	0.42
1:I:386:THR:HG21	1:I:389:LEU:HD21	2.01	0.42
1:I:456:ALA:O	1:I:457:MET:HG2	2.19	0.42
1:K:157:ILE:O	1:K:174:THR:HG23	2.18	0.42
1:K:198:ILE:HA	1:K:199:PRO:HD3	1.74	0.42
1:K:326:GLY:O	1:K:329:LEU:HB2	2.19	0.42
1:K:440:MET:O	1:K:443:ASP:HB3	2.20	0.42
1:L:35:PHE:HE2	1:L:324:LYS:HZ3	1.64	0.42
1:L:418:LEU:HB2	1:L:428:GLY:O	2.19	0.42
1:A:255:ILE:O	1:A:256:ASP:C	2.57	0.42
1:A:311:GLU:O	1:A:312:ASP:CB	2.66	0.42
1:A:384:LEU:HD22	1:A:384:LEU:H	1.84	0.42
1:A:386:THR:HG21	1:A:389:LEU:HD21	2.01	0.42
1:A:561:ASP:CG	1:A:562:GLY:N	2.72	0.42
1:A:617:GLN:O	1:A:621:GLU:N	2.52	0.42
1:B:326:GLY:O	1:B:329:LEU:HB2	2.19	0.42
1:B:440:MET:O	1:B:443:ASP:HB3	2.20	0.42
1:A:411:ALA:HB1	1:B:57:PHE:HD1	1.84	0.42
1:B:596:ALA:O	1:B:599:ALA:HB3	2.20	0.42
1:C:15:PHE:O	1:C:19:TRP:HB2	2.19	0.42
1:C:440:MET:O	1:C:443:ASP:HB3	2.20	0.42
1:C:617:GLN:O	1:C:621:GLU:N	2.52	0.42
1:D:166:ASP:O	1:D:167:LYS:C	2.58	0.42
1:D:375:ASN:O	1:D:385:PRO:HG3	2.19	0.42
1:E:15:PHE:HE2	1:E:19:TRP:NE1	2.17	0.42
1:E:218:GLN:HE21	1:E:218:GLN:HB2	1.64	0.42
1:E:429:GLN:H	1:E:429:GLN:CD	2.22	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:440:MET:O	1:E:443:ASP:HB3	2.20	0.42
1:F:264:ILE:HG12	1:F:265:LYS:N	2.34	0.42
1:G:236:GLN:HE21	1:G:265:LYS:HZ1	1.66	0.42
1:G:671:THR:O	1:G:672:VAL:C	2.57	0.42
1:H:440:MET:O	1:H:443:ASP:HB3	2.20	0.42
1:H:634:ILE:O	1:H:638:LYS:N	2.42	0.42
1:I:118:GLN:HB2	1:I:118:GLN:HE21	1.66	0.42
1:I:325:ASP:OD2	1:J:56:GLN:CB	2.61	0.42
1:J:15:PHE:O	1:J:19:TRP:HB2	2.19	0.42
1:J:255:ILE:O	1:J:256:ASP:C	2.57	0.42
1:J:301:VAL:HA	1:J:302:PRO:HD3	1.66	0.42
1:J:384:LEU:HD22	1:J:384:LEU:H	1.84	0.42
1:J:543:PRO:C	1:J:545:GLY:H	2.22	0.42
1:K:15:PHE:O	1:K:19:TRP:HB2	2.19	0.42
1:K:15:PHE:HE2	1:K:19:TRP:NE1	2.17	0.42
1:K:418:LEU:HB2	1:K:428:GLY:O	2.19	0.42
1:L:15:PHE:HE2	1:L:19:TRP:NE1	2.17	0.42
1:A:57:PHE:CE1	1:L:411:ALA:CB	3.02	0.42
1:L:456:ALA:O	1:L:457:MET:HG2	2.19	0.42
1:L:248:LYS:HZ1	1:L:513:ARG:HH12	1.66	0.42
1:A:434:THR:HG23	1:A:435:VAL:N	2.33	0.42
1:C:157:ILE:O	1:C:174:THR:HG23	2.18	0.42
1:C:550:GLN:H	1:C:550:GLN:CD	2.21	0.42
1:C:95:MET:O	1:C:96:GLY:C	2.58	0.42
1:D:157:ILE:HG12	1:D:157:ILE:O	2.20	0.42
1:E:561:ASP:CG	1:E:562:GLY:N	2.72	0.42
1:F:157:ILE:O	1:F:157:ILE:HG12	2.20	0.42
1:F:15:PHE:O	1:F:19:TRP:HB2	2.19	0.42
1:F:208:VAL:HB	1:F:209:PHE:H	1.75	0.42
1:F:596:ALA:O	1:F:599:ALA:HB3	2.19	0.42
1:F:95:MET:O	1:F:96:GLY:C	2.58	0.42
1:G:95:MET:O	1:G:96:GLY:C	2.58	0.42
1:H:386:THR:HG21	1:H:389:LEU:HD21	2.01	0.42
1:I:255:ILE:O	1:I:256:ASP:C	2.57	0.42
1:I:418:LEU:HB2	1:I:428:GLY:O	2.19	0.42
1:I:438:LEU:HD11	1:J:108:LYS:HD2	2.02	0.42
1:J:175:VAL:HG22	1:J:221:GLU:HB2	2.01	0.42
1:I:352:TRP:CD1	1:J:374:LEU:O	2.70	0.42
1:J:418:LEU:HB2	1:J:428:GLY:O	2.19	0.42
1:J:586:THR:C	1:J:588:GLU:H	2.23	0.42
1:J:617:GLN:O	1:J:621:GLU:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:118:GLN:N	1:L:123:VAL:O	2.51	0.42
1:L:386:THR:HG21	1:L:389:LEU:HD21	2.01	0.42
1:L:543:PRO:C	1:L:545:GLY:H	2.22	0.42
1:A:208:VAL:HB	1:A:209:PHE:H	1.75	0.42
1:A:369:TYR:HA	1:A:370:PRO:HD3	1.75	0.42
1:A:543:PRO:C	1:A:545:GLY:H	2.22	0.42
1:C:255:ILE:O	1:C:258:LEU:N	2.47	0.42
1:D:45:LEU:O	1:D:46:SER:CB	2.68	0.42
1:D:617:GLN:O	1:D:621:GLU:N	2.52	0.42
1:E:202:GLN:HE21	1:E:202:GLN:HB2	1.69	0.42
1:E:45:LEU:O	1:E:46:SER:CB	2.68	0.42
1:F:348:LYS:HB2	1:G:372:TYR:CD2	2.54	0.42
1:J:122:GLY:O	1:J:305:GLY:N	2.47	0.42
1:J:596:ALA:O	1:J:599:ALA:HB3	2.20	0.42
1:K:329:LEU:HA	1:K:329:LEU:HD13	1.92	0.42
1:J:345:PRO:HB3	1:K:372:TYR:OH	2.20	0.42
1:K:386:THR:HG21	1:K:389:LEU:HD21	2.01	0.42
1:K:422:THR:HG23	1:K:423:GLU:N	2.33	0.42
1:A:166:ASP:O	1:A:167:LYS:C	2.58	0.42
1:A:24:GLU:OE2	1:B:213:THR:HG22	2.20	0.42
1:A:248:LYS:HE2	1:A:513:ARG:HH12	1.85	0.42
1:C:273:ARG:HH21	1:C:513:ARG:HH22	1.67	0.42
1:C:671:THR:O	1:C:672:VAL:C	2.57	0.42
1:E:157:ILE:O	1:E:174:THR:HG23	2.18	0.42
1:E:375:ASN:O	1:E:385:PRO:HG3	2.19	0.42
1:F:571:TYR:CZ	1:F:575:GLN:CG	3.01	0.42
1:H:332:MET:O	1:H:333:ILE:C	2.58	0.42
1:H:95:MET:O	1:H:96:GLY:C	2.58	0.42
1:J:332:MET:O	1:J:333:ILE:C	2.58	0.42
1:J:413:LYS:HG2	1:J:413:LYS:H	1.61	0.42
1:J:429:GLN:H	1:J:429:GLN:CD	2.22	0.42
1:J:440:MET:O	1:J:443:ASP:HB3	2.20	0.42
1:K:175:VAL:HG22	1:K:221:GLU:HB2	2.01	0.42
1:K:301:VAL:HA	1:K:302:PRO:HD3	1.67	0.42
1:K:375:ASN:O	1:K:385:PRO:HG3	2.19	0.42
1:K:596:ALA:O	1:K:599:ALA:HB3	2.20	0.42
1:L:175:VAL:HG22	1:L:221:GLU:HB2	2.01	0.42
1:L:237:ASP:HA	1:L:238:PRO:HD2	1.83	0.42
1:L:326:GLY:O	1:L:329:LEU:HB2	2.19	0.42
1:L:571:TYR:CZ	1:L:575:GLN:CG	3.01	0.42
1:B:122:GLY:O	1:B:305:GLY:N	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:95:MET:O	1:B:96:GLY:C	2.58	0.42
1:C:229:LYS:HA	1:C:271:ILE:O	2.20	0.42
1:C:386:THR:HG21	1:C:389:LEU:HD21	2.01	0.42
1:D:58:ASP:O	1:D:58:ASP:CG	2.58	0.42
1:E:157:ILE:O	1:E:157:ILE:HG12	2.20	0.42
1:G:15:PHE:HE2	1:G:19:TRP:NE1	2.17	0.42
1:G:264:ILE:HG12	1:G:265:LYS:N	2.34	0.42
1:G:332:MET:O	1:G:333:ILE:C	2.58	0.42
1:G:571:TYR:CZ	1:G:575:GLN:CG	3.01	0.42
1:H:229:LYS:HA	1:H:271:ILE:O	2.20	0.42
1:I:67:LEU:HG	1:I:67:LEU:H	1.68	0.42
1:J:157:ILE:O	1:J:157:ILE:HG12	2.20	0.42
1:J:191:TYR:HE1	1:J:278:LYS:HZ3	1.67	0.42
1:K:411:ALA:CB	1:L:57:PHE:CD1	3.02	0.42
1:L:440:MET:O	1:L:443:ASP:HB3	2.20	0.42
1:A:157:ILE:HG12	1:A:157:ILE:O	2.20	0.42
1:A:230:GLU:HG3	1:A:231:THR:H	1.84	0.42
1:A:264:ILE:HG12	1:A:265:LYS:N	2.34	0.42
1:A:229:LYS:HA	1:A:271:ILE:O	2.20	0.42
1:A:440:MET:O	1:A:443:ASP:HB3	2.20	0.42
1:A:634:ILE:O	1:A:638:LYS:N	2.42	0.42
1:A:95:MET:O	1:A:96:GLY:C	2.58	0.42
1:B:15:PHE:O	1:B:19:TRP:HB2	2.19	0.42
1:B:229:LYS:HA	1:B:271:ILE:O	2.20	0.42
1:C:326:GLY:O	1:C:329:LEU:HB2	2.19	0.42
1:C:561:ASP:CG	1:C:562:GLY:N	2.72	0.42
1:D:248:LYS:HE2	1:D:513:ARG:HH12	1.85	0.42
1:D:273:ARG:HH21	1:D:513:ARG:HH22	1.67	0.42
1:E:207:TRP:O	1:E:208:VAL:C	2.58	0.42
1:E:39:SER:O	1:E:41:TRP:N	2.50	0.42
1:E:550:GLN:H	1:E:550:GLN:CD	2.21	0.42
1:F:322:LEU:HD13	1:F:322:LEU:HA	1.77	0.42
1:F:332:MET:O	1:F:333:ILE:C	2.58	0.42
1:F:384:LEU:HD22	1:F:384:LEU:H	1.84	0.42
1:G:344:THR:HA	1:G:345:PRO:HD3	1.90	0.42
1:G:413:LYS:HB3	1:G:413:LYS:HE2	1.88	0.42
1:H:147:GLU:HA	1:H:148:PRO:HD3	1.83	0.42
1:H:45:LEU:O	1:H:46:SER:CB	2.68	0.42
1:H:561:ASP:CG	1:H:562:GLY:N	2.72	0.42
1:H:80:TYR:CZ	1:H:448:VAL:HG22	2.55	0.42
1:I:15:PHE:O	1:I:19:TRP:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:207:TRP:O	1:I:208:VAL:C	2.58	0.42
1:I:122:GLY:HA3	1:I:317:GLU:C	2.41	0.42
1:I:80:TYR:CZ	1:I:448:VAL:HG22	2.55	0.42
1:J:236:GLN:HB2	1:J:265:LYS:CE	2.50	0.42
1:J:58:ASP:O	1:J:58:ASP:CG	2.58	0.42
1:K:199:PRO:HB3	1:K:282:THR:CG2	2.46	0.42
1:L:362:MET:HE1	1:L:369:TYR:HB3	2.02	0.42
1:A:332:MET:O	1:A:333:ILE:C	2.58	0.42
1:A:375:ASN:O	1:A:385:PRO:HG3	2.19	0.42
1:A:596:ALA:O	1:A:599:ALA:HB3	2.20	0.42
1:B:147:GLU:HA	1:B:148:PRO:HD3	1.83	0.42
1:B:80:TYR:CZ	1:B:448:VAL:HG22	2.55	0.42
1:B:45:LEU:O	1:B:46:SER:CB	2.68	0.42
1:B:586:THR:C	1:B:588:GLU:H	2.23	0.42
1:C:458:ARG:HH21	1:C:500:ALA:CB	2.33	0.42
1:C:80:TYR:CZ	1:C:448:VAL:HG22	2.55	0.42
1:D:207:TRP:O	1:D:208:VAL:C	2.58	0.42
1:D:404:MET:HE1	1:E:334:MET:HA	2.02	0.42
1:D:586:THR:C	1:D:588:GLU:H	2.23	0.42
1:E:596:ALA:O	1:E:599:ALA:HB3	2.20	0.42
1:F:255:ILE:O	1:F:256:ASP:C	2.57	0.42
1:F:386:THR:HG21	1:F:389:LEU:HD21	2.01	0.42
1:G:448:VAL:HB	1:G:449:PHE:CD1	2.55	0.42
1:H:429:GLN:H	1:H:429:GLN:CD	2.22	0.42
1:I:236:GLN:HB2	1:I:265:LYS:CE	2.50	0.42
1:I:248:LYS:HE2	1:I:513:ARG:HH12	1.85	0.42
1:I:528:LYS:HB2	1:I:528:LYS:HE3	1.77	0.42
1:K:229:LYS:HA	1:K:271:ILE:O	2.20	0.42
1:K:352:TRP:CE2	1:L:385:PRO:HG2	2.55	0.42
1:K:39:SER:O	1:K:41:TRP:N	2.50	0.42
1:L:15:PHE:O	1:L:19:TRP:HB2	2.19	0.42
1:L:429:GLN:CD	1:L:429:GLN:H	2.22	0.42
1:L:58:ASP:CG	1:L:58:ASP:O	2.58	0.42
1:A:122:GLY:HA3	1:A:317:GLU:C	2.40	0.42
1:A:150:HIS:CE1	1:L:309:PHE:CD2	3.07	0.42
1:A:207:TRP:O	1:A:208:VAL:C	2.58	0.42
1:A:420:VAL:HA	1:A:428:GLY:HA3	2.02	0.42
1:A:80:TYR:CZ	1:A:448:VAL:HG22	2.55	0.42
1:B:207:TRP:O	1:B:208:VAL:C	2.58	0.42
1:B:236:GLN:HB2	1:B:265:LYS:CE	2.50	0.42
1:B:248:LYS:HB3	1:B:511:ARG:NH1	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:420:VAL:HA	1:B:428:GLY:HA3	2.02	0.42
1:C:322:LEU:HD13	1:C:322:LEU:HA	1.77	0.42
1:C:384:LEU:HD22	1:C:384:LEU:H	1.84	0.42
1:C:543:PRO:C	1:C:545:GLY:H	2.22	0.42
1:E:122:GLY:HA3	1:E:317:GLU:C	2.40	0.42
1:E:329:LEU:O	1:E:330:ARG:C	2.59	0.42
1:D:398:PRO:CB	1:E:395:PRO:HD2	2.45	0.42
1:E:586:THR:C	1:E:588:GLU:H	2.23	0.42
1:F:458:ARG:HH21	1:F:500:ALA:CB	2.33	0.42
1:F:401:ASN:OD1	1:G:341:VAL:HG13	2.20	0.42
1:G:440:MET:O	1:G:443:ASP:HB3	2.19	0.42
1:G:542:THR:HA	1:G:543:PRO:HD3	1.89	0.42
1:H:199:PRO:HB3	1:H:282:THR:CG2	2.47	0.42
1:H:15:PHE:HE2	1:H:19:TRP:NE1	2.17	0.42
1:H:458:ARG:HH21	1:H:500:ALA:CB	2.33	0.42
1:I:329:LEU:O	1:I:330:ARG:C	2.59	0.42
1:I:448:VAL:HB	1:I:449:PHE:CD1	2.55	0.42
1:I:561:ASP:CG	1:I:562:GLY:N	2.72	0.42
1:I:58:ASP:O	1:I:58:ASP:CG	2.58	0.42
1:K:248:LYS:HE2	1:K:513:ARG:HH12	1.85	0.42
1:L:199:PRO:HB3	1:L:282:THR:CG2	2.47	0.42
1:L:37:ARG:HD2	1:L:37:ARG:HA	1.70	0.42
1:L:458:ARG:HH21	1:L:500:ALA:CB	2.33	0.42
1:L:671:THR:O	1:L:672:VAL:C	2.57	0.42
1:A:203:ASN:HA	1:A:204:PRO:HD3	1.74	0.41
1:A:586:THR:C	1:A:588:GLU:H	2.23	0.41
1:A:616:LEU:O	1:A:620:ALA:N	2.44	0.41
1:B:118:GLN:O	1:B:122:GLY:HA2	2.20	0.41
1:B:458:ARG:HH21	1:B:500:ALA:CB	2.33	0.41
1:C:332:MET:O	1:C:333:ILE:C	2.58	0.41
1:C:99:ARG:HH12	1:C:530:GLN:HE21	1.68	0.41
1:D:362:MET:HE1	1:D:369:TYR:HB3	2.02	0.41
1:D:448:VAL:HB	1:D:449:PHE:CD1	2.55	0.41
1:E:179:MET:SD	1:E:184:TRP:CA	3.08	0.41
1:E:458:ARG:HH21	1:E:500:ALA:CB	2.33	0.41
1:F:440:MET:O	1:F:443:ASP:HB3	2.20	0.41
1:F:80:TYR:CZ	1:F:448:VAL:HG22	2.55	0.41
1:F:616:LEU:O	1:F:620:ALA:N	2.44	0.41
1:F:671:THR:O	1:F:672:VAL:C	2.57	0.41
1:G:160:SER:HG	1:G:172:HIS:CG	2.38	0.41
1:G:175:VAL:HG22	1:G:221:GLU:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:164:LEU:HB2	1:H:109:ILE:HG21	2.01	0.41
1:I:332:MET:O	1:I:333:ILE:C	2.58	0.41
1:H:401:ASN:OD1	1:I:341:VAL:HG13	2.20	0.41
1:J:438:LEU:HD11	1:K:108:LYS:CE	2.50	0.41
1:J:45:LEU:O	1:J:46:SER:CB	2.68	0.41
1:K:448:VAL:HB	1:K:449:PHE:CD1	2.55	0.41
1:K:45:LEU:O	1:K:46:SER:CB	2.68	0.41
1:K:95:MET:O	1:K:96:GLY:C	2.58	0.41
1:K:99:ARG:HH12	1:K:530:GLN:HE21	1.68	0.41
1:L:179:MET:SD	1:L:184:TRP:CA	3.08	0.41
1:L:230:GLU:HG3	1:L:231:THR:H	1.84	0.41
1:L:348:LYS:HA	1:L:349:PRO:HD3	1.87	0.41
1:A:552:LEU:HD13	1:A:556:TYR:HE2	1.86	0.41
1:B:230:GLU:HG3	1:B:231:THR:H	1.84	0.41
1:B:58:ASP:CG	1:B:58:ASP:O	2.58	0.41
1:C:179:MET:SD	1:C:184:TRP:CA	3.08	0.41
1:C:236:GLN:HB2	1:C:265:LYS:CE	2.50	0.41
1:D:118:GLN:O	1:D:122:GLY:HA2	2.20	0.41
1:D:332:MET:O	1:D:333:ILE:C	2.58	0.41
1:D:434:THR:HA	1:D:437:GLN:NE2	2.36	0.41
1:E:58:ASP:O	1:E:58:ASP:CG	2.58	0.41
1:F:118:GLN:O	1:F:122:GLY:HA2	2.20	0.41
1:F:207:TRP:O	1:F:208:VAL:C	2.58	0.41
1:F:434:THR:HA	1:F:437:GLN:NE2	2.36	0.41
1:G:561:ASP:CG	1:G:562:GLY:N	2.72	0.41
1:H:207:TRP:O	1:H:208:VAL:C	2.58	0.41
1:H:248:LYS:HE2	1:H:513:ARG:HH12	1.85	0.41
1:H:27:ARG:CZ	1:I:211:TRP:CB	2.96	0.41
1:I:429:GLN:CD	1:I:429:GLN:H	2.22	0.41
1:I:440:MET:O	1:I:443:ASP:HB3	2.20	0.41
1:I:45:LEU:O	1:I:46:SER:CB	2.68	0.41
1:I:596:ALA:O	1:I:599:ALA:HB3	2.20	0.41
1:J:166:ASP:O	1:J:167:LYS:C	2.58	0.41
1:J:248:LYS:HB3	1:J:511:ARG:NH1	2.35	0.41
1:J:248:LYS:HE2	1:J:513:ARG:HH12	1.85	0.41
1:J:35:PHE:HE2	1:J:324:LYS:HZ3	1.66	0.41
1:I:350:PHE:HA	1:J:372:TYR:O	2.21	0.41
1:J:387:GLN:HG2	1:J:387:GLN:H	1.60	0.41
1:K:179:MET:SD	1:K:184:TRP:CA	3.08	0.41
1:K:218:GLN:HE21	1:K:218:GLN:HB2	1.64	0.41
1:K:230:GLU:HG3	1:K:231:THR:H	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:332:MET:O	1:K:333:ILE:C	2.58	0.41
1:K:434:THR:HA	1:K:437:GLN:NE2	2.36	0.41
1:L:122:GLY:HA3	1:L:317:GLU:C	2.41	0.41
1:K:89:ASP:CA	1:L:561:ASP:HB2	2.49	0.41
1:L:561:ASP:CG	1:L:562:GLY:N	2.72	0.41
1:A:179:MET:SD	1:A:184:TRP:CA	3.08	0.41
1:A:15:PHE:HE2	1:A:19:TRP:NE1	2.17	0.41
1:A:272:LYS:HD3	1:B:132:TYR:O	2.20	0.41
1:A:41:TRP:CZ3	1:A:44:TRP:O	2.74	0.41
1:B:332:MET:O	1:B:333:ILE:C	2.58	0.41
1:B:552:LEU:HD13	1:B:556:TYR:HE2	1.86	0.41
1:C:329:LEU:O	1:C:330:ARG:C	2.59	0.41
1:C:586:THR:C	1:C:588:GLU:H	2.23	0.41
1:D:179:MET:SD	1:D:184:TRP:CA	3.08	0.41
1:D:441:ARG:HH21	1:E:525:GLN:HE22	1.66	0.41
1:D:458:ARG:HH21	1:D:500:ALA:CB	2.33	0.41
1:D:312:ASP:OD2	1:E:178:SER:CB	2.68	0.41
1:E:263:PHE:O	1:E:264:ILE:C	2.59	0.41
1:E:434:THR:HA	1:E:437:GLN:NE2	2.36	0.41
1:F:122:GLY:HA3	1:F:317:GLU:C	2.41	0.41
1:F:58:ASP:CG	1:F:58:ASP:O	2.58	0.41
1:G:157:ILE:O	1:G:174:THR:HG23	2.18	0.41
1:G:236:GLN:HB2	1:G:265:LYS:CE	2.50	0.41
1:G:263:PHE:O	1:G:264:ILE:C	2.59	0.41
1:G:80:TYR:CZ	1:G:448:VAL:HG22	2.55	0.41
1:H:198:ILE:HA	1:H:199:PRO:HD3	1.74	0.41
1:H:203:ASN:HA	1:H:204:PRO:HD3	1.74	0.41
1:H:387:GLN:H	1:H:387:GLN:HG2	1.60	0.41
1:H:448:VAL:HB	1:H:449:PHE:CD1	2.55	0.41
1:H:248:LYS:HB3	1:H:511:ARG:NH1	2.35	0.41
1:H:438:LEU:HD11	1:I:108:LYS:HD2	2.02	0.41
1:I:671:THR:O	1:I:672:VAL:C	2.57	0.41
1:J:448:VAL:HB	1:J:449:PHE:CD1	2.55	0.41
1:J:458:ARG:HH21	1:J:500:ALA:CB	2.33	0.41
1:J:552:LEU:HD13	1:J:556:TYR:HE2	1.85	0.41
1:K:118:GLN:O	1:K:122:GLY:HA2	2.21	0.41
1:K:207:TRP:O	1:K:208:VAL:C	2.58	0.41
1:K:528:LYS:HE3	1:K:528:LYS:HB2	1.77	0.41
1:K:58:ASP:O	1:K:58:ASP:CG	2.58	0.41
1:L:80:TYR:CZ	1:L:448:VAL:HG22	2.55	0.41
1:L:41:TRP:CZ3	1:L:44:TRP:O	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:99:ARG:HH12	1:L:530:GLN:HE21	1.68	0.41
1:A:448:VAL:HB	1:A:449:PHE:CD1	2.55	0.41
1:A:248:LYS:HB3	1:A:511:ARG:NH1	2.35	0.41
1:A:99:ARG:HH12	1:A:530:GLN:HE21	1.68	0.41
1:A:67:LEU:HG	1:A:67:LEU:H	1.68	0.41
1:B:122:GLY:HA3	1:B:317:GLU:C	2.40	0.41
1:B:384:LEU:HD22	1:B:384:LEU:H	1.84	0.41
1:B:413:LYS:HE2	1:B:413:LYS:HB3	1.88	0.41
1:B:448:VAL:HB	1:B:449:PHE:CD1	2.55	0.41
1:C:15:PHE:HE2	1:C:19:TRP:NE1	2.17	0.41
1:C:350:PHE:CE1	1:D:372:TYR:HB2	2.55	0.41
1:D:122:GLY:HA3	1:D:317:GLU:C	2.41	0.41
1:D:463:ILE:HA	1:D:496:VAL:O	2.21	0.41
1:E:118:GLN:O	1:E:122:GLY:HA2	2.21	0.41
1:E:400:ALA:HB2	1:F:395:PRO:HB2	2.01	0.41
1:E:41:TRP:CZ3	1:E:44:TRP:O	2.74	0.41
1:E:420:VAL:HA	1:E:428:GLY:HA3	2.02	0.41
1:E:552:LEU:HD13	1:E:556:TYR:HE2	1.85	0.41
1:F:229:LYS:HA	1:F:271:ILE:O	2.20	0.41
1:G:277:TYR:CE1	1:G:292:LEU:HD12	2.56	0.41
1:H:118:GLN:O	1:H:122:GLY:HA2	2.20	0.41
1:H:236:GLN:HB2	1:H:265:LYS:CE	2.50	0.41
1:H:277:TYR:CE1	1:H:292:LEU:HD12	2.56	0.41
1:H:384:LEU:HD22	1:H:384:LEU:H	1.84	0.41
1:G:390:ALA:HB3	1:H:387:GLN:OE1	2.20	0.41
1:H:554:LEU:HD22	1:I:567:MET:CE	2.50	0.41
1:I:263:PHE:O	1:I:264:ILE:C	2.59	0.41
1:I:99:ARG:HH12	1:I:530:GLN:HE21	1.68	0.41
1:J:207:TRP:O	1:J:208:VAL:C	2.58	0.41
1:J:386:THR:HG21	1:J:389:LEU:HD21	2.01	0.41
1:K:80:TYR:CZ	1:K:448:VAL:HG22	2.55	0.41
1:L:248:LYS:HE2	1:L:513:ARG:HH12	1.85	0.41
1:A:48:TYR:CZ	1:A:210:PRO:HG2	2.56	0.41
1:B:277:TYR:CE1	1:B:292:LEU:HD12	2.56	0.41
1:B:310:VAL:HB	1:B:311:GLU:H	1.74	0.41
1:B:434:THR:HA	1:B:437:GLN:NE2	2.36	0.41
1:B:463:ILE:HA	1:B:496:VAL:O	2.21	0.41
1:C:139:SER:HB3	1:C:455:THR:HG23	2.03	0.41
1:C:48:TYR:CZ	1:C:210:PRO:HG2	2.56	0.41
1:C:463:ILE:HA	1:C:496:VAL:O	2.21	0.41
1:D:329:LEU:O	1:D:330:ARG:C	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:41:TRP:CZ3	1:D:44:TRP:O	2.74	0.41
1:D:95:MET:O	1:D:96:GLY:C	2.58	0.41
1:E:138:THR:HG23	1:E:143:VAL:CG2	2.37	0.41
1:E:554:LEU:HD21	1:F:564:GLY:CA	2.33	0.41
1:F:586:THR:C	1:F:588:GLU:H	2.23	0.41
1:G:122:GLY:HA3	1:G:317:GLU:C	2.41	0.41
1:G:166:ASP:O	1:G:167:LYS:C	2.58	0.41
1:G:179:MET:SD	1:G:184:TRP:CA	3.08	0.41
1:G:413:LYS:HG2	1:G:413:LYS:H	1.61	0.41
1:G:41:TRP:CZ3	1:G:44:TRP:O	2.74	0.41
1:H:118:GLN:HB2	1:H:118:GLN:HE21	1.66	0.41
1:H:166:ASP:OD1	1:H:168:SER:CB	2.68	0.41
1:H:41:TRP:CZ3	1:H:44:TRP:O	2.74	0.41
1:H:58:ASP:O	1:H:58:ASP:CG	2.58	0.41
1:I:277:TYR:CE1	1:I:292:LEU:HD12	2.56	0.41
1:I:422:THR:HG22	1:I:425:VAL:CG2	2.51	0.41
1:I:463:ILE:HA	1:I:496:VAL:O	2.21	0.41
1:I:95:MET:O	1:I:96:GLY:C	2.58	0.41
1:J:147:GLU:HA	1:J:148:PRO:HD3	1.83	0.41
1:J:208:VAL:HB	1:J:209:PHE:H	1.75	0.41
1:J:48:TYR:CZ	1:J:210:PRO:HG2	2.56	0.41
1:J:541:LYS:HE2	1:J:541:LYS:HB2	1.79	0.41
1:K:41:TRP:CZ3	1:K:44:TRP:O	2.74	0.41
1:K:586:THR:C	1:K:588:GLU:H	2.23	0.41
1:L:229:LYS:HA	1:L:271:ILE:O	2.20	0.41
1:L:332:MET:O	1:L:333:ILE:C	2.58	0.41
1:L:596:ALA:O	1:L:599:ALA:HB3	2.20	0.41
1:L:617:GLN:O	1:L:621:GLU:N	2.52	0.41
1:B:157:ILE:HG12	1:B:157:ILE:O	2.20	0.41
1:B:166:ASP:O	1:B:167:LYS:C	2.58	0.41
1:B:208:VAL:HB	1:B:211:TRP:CZ2	2.56	0.41
1:B:248:LYS:HE2	1:B:513:ARG:HH12	1.85	0.41
1:B:322:LEU:HA	1:B:322:LEU:HD13	1.77	0.41
1:B:48:TYR:CZ	1:B:210:PRO:HG2	2.56	0.41
1:B:546:THR:O	1:B:547:PRO:C	2.59	0.41
1:A:723:THR:CB	1:B:725:GLN:O	2.68	0.41
1:C:45:LEU:O	1:C:46:SER:CB	2.68	0.41
1:D:236:GLN:HB3	1:D:265:LYS:HZ3	1.81	0.41
1:D:99:ARG:HH12	1:D:530:GLN:HE21	1.68	0.41
1:E:138:THR:HG1	1:E:143:VAL:HA	1.85	0.41
1:E:229:LYS:HA	1:E:271:ILE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:332:MET:O	1:E:333:ILE:C	2.58	0.41
1:E:362:MET:HE1	1:E:369:TYR:HB3	2.03	0.41
1:E:386:THR:HG21	1:E:389:LEU:HD21	2.01	0.41
1:E:554:LEU:HD22	1:F:567:MET:CE	2.50	0.41
1:F:179:MET:SD	1:F:184:TRP:CA	3.08	0.41
1:F:203:ASN:HA	1:F:204:PRO:HD3	1.74	0.41
1:F:326:GLY:O	1:F:329:LEU:HB2	2.19	0.41
1:F:420:VAL:HA	1:F:428:GLY:HA3	2.02	0.41
1:F:45:LEU:O	1:F:46:SER:CB	2.68	0.41
1:G:207:TRP:O	1:G:208:VAL:C	2.58	0.41
1:G:208:VAL:HB	1:G:211:TRP:CZ2	2.56	0.41
1:G:225:VAL:HG21	1:G:298:ILE:HD11	2.03	0.41
1:G:248:LYS:HB3	1:G:511:ARG:NH1	2.36	0.41
1:G:248:LYS:HE2	1:G:513:ARG:HH12	1.85	0.41
1:G:329:LEU:O	1:G:330:ARG:C	2.59	0.41
1:G:543:PRO:C	1:G:545:GLY:H	2.22	0.41
1:H:126:TRP:CD1	1:H:126:TRP:C	2.94	0.41
1:H:122:GLY:HA3	1:H:317:GLU:C	2.40	0.41
1:H:463:ILE:HA	1:H:496:VAL:O	2.21	0.41
1:H:99:ARG:HH12	1:H:530:GLN:HE21	1.68	0.41
1:I:166:ASP:OD1	1:I:168:SER:CB	2.68	0.41
1:I:225:VAL:HG21	1:I:298:ILE:HD11	2.03	0.41
1:I:552:LEU:HD13	1:I:556:TYR:HE2	1.86	0.41
1:H:557:PHE:CE2	1:I:563:LYS:HD3	2.55	0.41
1:I:616:LEU:O	1:I:620:ALA:N	2.44	0.41
1:J:122:GLY:HA3	1:J:317:GLU:C	2.40	0.41
1:K:126:TRP:C	1:K:126:TRP:CD1	2.94	0.41
1:L:157:ILE:O	1:L:157:ILE:HG12	2.20	0.41
1:L:207:TRP:O	1:L:208:VAL:C	2.58	0.41
1:A:337:ASN:HB2	1:L:404:MET:CE	2.50	0.41
1:L:422:THR:HG22	1:L:425:VAL:CG2	2.51	0.41
1:L:48:TYR:CZ	1:L:210:PRO:HG2	2.56	0.41
1:L:248:LYS:HB3	1:L:511:ARG:NH1	2.35	0.41
1:L:95:MET:O	1:L:96:GLY:C	2.58	0.41
1:A:463:ILE:HA	1:A:496:VAL:O	2.21	0.41
1:B:139:SER:HB3	1:B:455:THR:HG23	2.03	0.41
1:B:179:MET:SD	1:B:184:TRP:CA	3.08	0.41
1:B:263:PHE:O	1:B:264:ILE:C	2.59	0.41
1:B:329:LEU:O	1:B:330:ARG:C	2.59	0.41
1:C:448:VAL:HB	1:C:449:PHE:CD1	2.55	0.41
1:C:596:ALA:O	1:C:599:ALA:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:48:TYR:CZ	1:D:210:PRO:HG2	2.56	0.41
1:E:166:ASP:O	1:E:167:LYS:C	2.58	0.41
1:E:208:VAL:HB	1:E:211:TRP:CZ2	2.56	0.41
1:E:248:LYS:H	1:E:248:LYS:CD	2.29	0.41
1:G:208:VAL:HB	1:G:209:PHE:H	1.75	0.41
1:G:528:LYS:HE3	1:G:528:LYS:HB2	1.77	0.41
1:H:166:ASP:O	1:H:167:LYS:C	2.58	0.41
1:I:208:VAL:HB	1:I:211:TRP:CZ2	2.56	0.41
1:I:41:TRP:CZ3	1:I:44:TRP:O	2.74	0.41
1:J:179:MET:SD	1:J:184:TRP:CA	3.08	0.41
1:J:80:TYR:CZ	1:J:448:VAL:HG22	2.55	0.41
1:J:65:ARG:O	1:J:69:SER:HB2	2.21	0.41
1:K:277:TYR:CE1	1:K:292:LEU:HD12	2.56	0.41
1:L:208:VAL:HB	1:L:209:PHE:H	1.75	0.41
1:L:208:VAL:HB	1:L:211:TRP:CZ2	2.56	0.41
1:L:295:GLY:HA2	1:L:453:LEU:CD2	2.51	0.41
1:L:586:THR:C	1:L:588:GLU:H	2.23	0.41
1:A:352:TRP:CG	1:B:376:ARG:HB2	2.55	0.41
1:A:362:MET:HE1	1:A:369:TYR:HB3	2.03	0.41
1:B:528:LYS:HE3	1:B:528:LYS:HB2	1.77	0.41
1:B:541:LYS:HE2	1:B:541:LYS:HB2	1.79	0.41
1:C:248:LYS:HE2	1:C:513:ARG:HH12	1.85	0.41
1:C:423:GLU:O	1:C:424:ALA:HB3	2.21	0.41
1:C:420:VAL:HA	1:C:428:GLY:HA3	2.02	0.41
1:C:41:TRP:CZ3	1:C:44:TRP:O	2.74	0.41
1:D:208:VAL:HB	1:D:209:PHE:H	1.75	0.41
1:D:248:LYS:HB3	1:D:511:ARG:NH1	2.35	0.41
1:D:295:GLY:HA2	1:D:453:LEU:CD2	2.51	0.41
1:D:301:VAL:HA	1:D:302:PRO:HD3	1.67	0.41
1:D:37:ARG:HD2	1:D:37:ARG:HA	1.70	0.41
1:D:420:VAL:HA	1:D:428:GLY:HA3	2.02	0.41
1:D:80:TYR:CZ	1:D:448:VAL:HG22	2.55	0.41
1:E:236:GLN:HB2	1:E:265:LYS:CE	2.50	0.41
1:E:448:VAL:HB	1:E:449:PHE:CD1	2.55	0.41
1:E:99:ARG:HH12	1:E:530:GLN:HE21	1.68	0.41
1:E:80:TYR:CZ	1:E:448:VAL:HG22	2.55	0.41
1:F:248:LYS:HB3	1:F:511:ARG:NH1	2.35	0.41
1:F:37:ARG:NH2	1:F:41:TRP:CZ3	2.89	0.41
1:G:157:ILE:O	1:G:157:ILE:HG12	2.20	0.41
1:G:231:THR:O	1:G:249:ARG:CB	2.69	0.41
1:G:362:MET:HE1	1:G:369:TYR:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:521:GLY:O	1:G:522:PRO:C	2.59	0.41
1:H:420:VAL:HA	1:H:428:GLY:HA3	2.02	0.41
1:I:438:LEU:HD11	1:J:108:LYS:CE	2.51	0.41
1:I:248:LYS:HB3	1:I:511:ARG:NH1	2.36	0.41
1:I:559:LEU:HA	1:I:559:LEU:HD23	1.85	0.41
1:J:420:VAL:HA	1:J:428:GLY:HA3	2.02	0.41
1:J:528:LYS:HE3	1:J:528:LYS:HB2	1.77	0.41
1:J:554:LEU:HD21	1:K:564:GLY:CA	2.36	0.41
1:K:295:GLY:HA2	1:K:453:LEU:CD2	2.51	0.41
1:K:335:SER:O	1:K:338:ALA:HB3	2.21	0.41
1:L:118:GLN:O	1:L:122:GLY:HA2	2.21	0.41
1:L:420:VAL:HA	1:L:428:GLY:HA3	2.02	0.41
1:L:45:LEU:O	1:L:46:SER:CB	2.68	0.41
1:L:552:LEU:HD13	1:L:556:TYR:HE2	1.85	0.41
1:A:237:ASP:HA	1:A:238:PRO:HD2	1.83	0.41
1:B:126:TRP:C	1:B:126:TRP:CD1	2.94	0.41
1:B:225:VAL:HG21	1:B:298:ILE:HD11	2.03	0.41
1:B:41:TRP:CZ3	1:B:44:TRP:O	2.74	0.41
1:B:45:LEU:CD2	1:B:45:LEU:N	2.83	0.41
1:C:157:ILE:O	1:C:157:ILE:HG12	2.20	0.41
1:C:199:PRO:HB3	1:C:282:THR:CG2	2.46	0.41
1:C:325:ASP:OD2	1:D:56:GLN:HB2	2.20	0.41
1:C:346:LYS:HG3	1:D:367:ASP:OD1	2.21	0.41
1:C:35:PHE:O	1:C:37:ARG:N	2.54	0.41
1:C:528:LYS:HB2	1:C:528:LYS:HE3	1.77	0.41
1:C:65:ARG:O	1:C:69:SER:HB2	2.21	0.41
1:D:198:ILE:HA	1:D:199:PRO:HD3	1.74	0.41
1:D:236:GLN:HB2	1:D:265:LYS:CE	2.50	0.41
1:D:350:PHE:HB3	1:E:374:LEU:HD12	2.02	0.41
1:D:248:LYS:HZ1	1:D:513:ARG:HH12	1.67	0.41
1:D:521:GLY:O	1:D:522:PRO:C	2.59	0.41
1:E:248:LYS:HB3	1:E:511:ARG:NH1	2.35	0.41
1:E:248:LYS:HE2	1:E:513:ARG:HH12	1.85	0.41
1:D:390:ALA:HB2	1:E:387:GLN:HB2	1.95	0.41
1:F:236:GLN:HB2	1:F:265:LYS:CE	2.50	0.41
1:F:31:ASN:HD22	1:F:31:ASN:HA	1.65	0.41
1:F:329:LEU:O	1:F:330:ARG:C	2.59	0.41
1:F:344:THR:HA	1:F:345:PRO:HD3	1.90	0.41
1:F:41:TRP:CZ3	1:F:44:TRP:O	2.74	0.41
1:F:546:THR:O	1:F:547:PRO:C	2.59	0.41
1:G:229:LYS:HA	1:G:271:ILE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:463:ILE:HA	1:G:496:VAL:O	2.21	0.41
1:G:552:LEU:CD1	1:G:556:TYR:HE2	2.34	0.41
1:G:60:VAL:O	1:G:61:ARG:C	2.59	0.41
1:H:175:VAL:O	1:H:220:ALA:HB1	2.21	0.41
1:I:231:THR:O	1:I:249:ARG:CB	2.69	0.41
1:I:65:ARG:O	1:I:69:SER:HB2	2.21	0.41
1:J:126:TRP:CD1	1:J:126:TRP:C	2.94	0.41
1:J:175:VAL:O	1:J:220:ALA:HB1	2.21	0.41
1:J:208:VAL:HB	1:J:211:TRP:CZ2	2.56	0.41
1:J:546:THR:O	1:J:547:PRO:C	2.59	0.41
1:K:122:GLY:O	1:K:305:GLY:N	2.47	0.41
1:L:139:SER:HB3	1:L:455:THR:HG23	2.03	0.41
1:K:309:PHE:HB2	1:L:150:HIS:ND1	2.34	0.41
1:L:175:VAL:O	1:L:220:ALA:HB1	2.21	0.41
1:L:231:THR:O	1:L:249:ARG:CB	2.69	0.41
1:L:45:LEU:CD2	1:L:45:LEU:N	2.83	0.41
1:L:463:ILE:HA	1:L:496:VAL:O	2.21	0.41
1:A:236:GLN:HB2	1:A:265:LYS:CE	2.50	0.41
1:A:263:PHE:O	1:A:264:ILE:C	2.59	0.41
1:A:521:GLY:O	1:A:522:PRO:C	2.59	0.41
1:A:27:ARG:CG	1:B:212:LEU:HD13	2.42	0.41
1:B:209:PHE:CE2	1:B:214:GLN:HG2	2.56	0.41
1:B:231:THR:O	1:B:249:ARG:CB	2.69	0.41
1:B:335:SER:O	1:B:338:ALA:HB3	2.21	0.41
1:C:118:GLN:HB2	1:C:118:GLN:HE21	1.66	0.41
1:C:263:PHE:O	1:C:264:ILE:C	2.59	0.41
1:C:263:PHE:O	1:C:264:ILE:O	2.39	0.41
1:C:122:GLY:HA3	1:C:317:GLU:C	2.40	0.41
1:C:434:THR:HA	1:C:437:GLN:NE2	2.36	0.41
1:D:231:THR:O	1:D:249:ARG:CB	2.69	0.41
1:D:231:THR:O	1:D:249:ARG:HB3	2.21	0.41
1:D:263:PHE:O	1:D:264:ILE:O	2.39	0.41
1:D:35:PHE:O	1:D:37:ARG:N	2.54	0.41
1:D:45:LEU:N	1:D:45:LEU:CD2	2.83	0.41
1:E:246:TYR:CD2	1:E:510:ILE:HG12	2.56	0.41
1:E:322:LEU:HA	1:E:322:LEU:HD13	1.77	0.41
1:E:423:GLU:O	1:E:424:ALA:HB3	2.21	0.41
1:E:521:GLY:O	1:E:522:PRO:C	2.59	0.41
1:F:231:THR:O	1:F:249:ARG:HB3	2.21	0.41
1:E:348:LYS:HB3	1:F:371:TYR:HA	2.03	0.41
1:F:65:ARG:O	1:F:69:SER:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:118:GLN:O	1:G:122:GLY:HA2	2.21	0.41
1:G:139:SER:HB3	1:G:455:THR:HG23	2.03	0.41
1:G:311:GLU:O	1:G:312:ASP:CB	2.66	0.41
1:G:45:LEU:O	1:G:46:SER:CB	2.68	0.41
1:G:546:THR:O	1:G:547:PRO:C	2.59	0.41
1:H:208:VAL:HB	1:H:211:TRP:CZ2	2.56	0.41
1:H:596:ALA:O	1:H:599:ALA:HB3	2.20	0.41
1:I:179:MET:SD	1:I:184:TRP:CA	3.08	0.41
1:I:208:VAL:HB	1:I:209:PHE:H	1.75	0.41
1:I:175:VAL:O	1:I:220:ALA:HB1	2.21	0.41
1:I:413:LYS:HB3	1:I:413:LYS:HE2	1.88	0.41
1:J:45:LEU:N	1:J:45:LEU:CD2	2.83	0.41
1:J:99:ARG:HH12	1:J:530:GLN:HE21	1.68	0.41
1:J:60:VAL:O	1:J:61:ARG:C	2.59	0.41
1:K:157:ILE:O	1:K:157:ILE:HG12	2.20	0.41
1:K:48:TYR:CZ	1:K:210:PRO:HG2	2.56	0.41
1:J:404:MET:CE	1:K:337:ASN:HB2	2.51	0.41
1:K:35:PHE:O	1:K:37:ARG:N	2.54	0.41
1:K:248:LYS:HB3	1:K:511:ARG:NH1	2.35	0.41
1:L:335:SER:O	1:L:338:ALA:HB3	2.21	0.41
1:L:423:GLU:O	1:L:424:ALA:HB3	2.21	0.41
1:A:118:GLN:O	1:A:122:GLY:HA2	2.20	0.41
1:A:35:PHE:O	1:A:37:ARG:N	2.54	0.41
1:A:408:ALA:O	1:A:412:VAL:HG23	2.21	0.41
1:A:45:LEU:N	1:A:45:LEU:CD2	2.83	0.41
1:A:45:LEU:O	1:A:46:SER:CB	2.68	0.41
1:A:573:ASN:O	1:A:574:LYS:C	2.60	0.41
1:B:550:GLN:O	1:B:551:LEU:C	2.60	0.41
1:B:590:GLN:O	1:B:591:GLN:C	2.60	0.41
1:C:209:PHE:CE2	1:C:214:GLN:HG2	2.56	0.41
1:C:238:PRO:HG2	1:C:239:VAL:HG23	2.03	0.41
1:C:225:VAL:HG21	1:C:298:ILE:HD11	2.03	0.41
1:C:422:THR:HG22	1:C:425:VAL:CG2	2.51	0.41
1:C:83:LYS:HE3	1:C:517:TYR:HB3	2.03	0.41
1:C:521:GLY:O	1:C:522:PRO:C	2.59	0.41
1:D:175:VAL:O	1:D:220:ALA:HB1	2.21	0.41
1:D:229:LYS:HA	1:D:271:ILE:O	2.20	0.41
1:D:277:TYR:CE1	1:D:292:LEU:HD12	2.56	0.41
1:C:350:PHE:CE1	1:D:372:TYR:HB3	2.56	0.41
1:E:277:TYR:CE1	1:E:292:LEU:HD12	2.56	0.41
1:E:83:LYS:HE3	1:E:517:TYR:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:65:ARG:O	1:E:69:SER:HB2	2.21	0.41
1:F:263:PHE:O	1:F:264:ILE:O	2.39	0.41
1:F:35:PHE:O	1:F:37:ARG:N	2.54	0.41
1:F:463:ILE:HA	1:F:496:VAL:O	2.21	0.41
1:F:246:TYR:CD2	1:F:510:ILE:HG12	2.56	0.41
1:G:111:VAL:O	1:G:114:ALA:HB3	2.21	0.41
1:G:350:PHE:HE1	1:H:363:TYR:HE1	1.68	0.41
1:G:423:GLU:O	1:G:424:ALA:HB3	2.21	0.41
1:G:596:ALA:O	1:G:599:ALA:HB3	2.20	0.41
1:G:88:PRO:C	1:H:561:ASP:HB2	2.41	0.41
1:G:8:LEU:HA	1:G:8:LEU:HD23	1.98	0.41
1:H:264:ILE:O	1:H:265:LYS:CD	2.68	0.41
1:H:521:GLY:O	1:H:522:PRO:C	2.60	0.41
1:H:542:THR:HA	1:H:543:PRO:HD3	1.89	0.41
1:G:89:ASP:N	1:H:561:ASP:HB2	2.35	0.41
1:H:642:GLN:O	1:H:646:ASN:CB	2.69	0.41
1:I:157:ILE:O	1:I:157:ILE:HG12	2.20	0.41
1:I:263:PHE:O	1:I:264:ILE:O	2.39	0.41
1:J:209:PHE:CE2	1:J:214:GLN:HG2	2.56	0.41
1:J:329:LEU:O	1:J:330:ARG:C	2.58	0.41
1:J:552:LEU:CD1	1:J:556:TYR:HE2	2.34	0.41
1:J:590:GLN:O	1:J:591:GLN:C	2.60	0.41
1:K:166:ASP:O	1:K:167:LYS:C	2.58	0.41
1:K:231:THR:O	1:K:249:ARG:CB	2.69	0.41
1:K:236:GLN:HB2	1:K:265:LYS:CE	2.50	0.41
1:K:329:LEU:O	1:K:330:ARG:C	2.59	0.41
1:K:165:MET:HE3	1:K:435:VAL:HB	2.03	0.41
1:K:521:GLY:O	1:K:522:PRO:C	2.59	0.41
1:L:122:GLY:O	1:L:305:GLY:N	2.47	0.41
1:L:231:THR:O	1:L:249:ARG:HB3	2.21	0.41
1:L:236:GLN:HB2	1:L:265:LYS:CE	2.50	0.41
1:L:329:LEU:O	1:L:330:ARG:C	2.59	0.41
1:L:448:VAL:HB	1:L:449:PHE:CD1	2.55	0.41
1:L:521:GLY:O	1:L:522:PRO:C	2.59	0.41
1:A:166:ASP:OD1	1:A:168:SER:CB	2.68	0.40
1:A:66:LYS:H3	1:A:420:VAL:HG11	1.85	0.40
1:A:434:THR:HA	1:A:437:GLN:NE2	2.36	0.40
1:B:408:ALA:O	1:B:412:VAL:HG23	2.22	0.40
1:C:166:ASP:OD1	1:C:168:SER:CB	2.68	0.40
1:C:231:THR:O	1:C:249:ARG:HB3	2.21	0.40
1:C:248:LYS:HB3	1:C:511:ARG:NH1	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:58:ASP:O	1:C:58:ASP:CG	2.58	0.40
1:D:225:VAL:HG21	1:D:298:ILE:HD11	2.03	0.40
1:E:126:TRP:C	1:E:126:TRP:CD1	2.94	0.40
1:E:209:PHE:CE2	1:E:214:GLN:HG2	2.56	0.40
1:E:231:THR:O	1:E:249:ARG:CB	2.69	0.40
1:E:408:ALA:O	1:E:412:VAL:HG23	2.21	0.40
1:E:411:ALA:CB	1:F:57:PHE:CD1	3.05	0.40
1:E:67:LEU:HG	1:E:67:LEU:H	1.68	0.40
1:F:225:VAL:HG21	1:F:298:ILE:HD11	2.03	0.40
1:F:231:THR:O	1:F:249:ARG:CB	2.69	0.40
1:F:423:GLU:O	1:F:424:ALA:HB3	2.21	0.40
1:G:209:PHE:CE2	1:G:214:GLN:HG2	2.56	0.40
1:G:263:PHE:O	1:G:264:ILE:O	2.39	0.40
1:G:420:VAL:HA	1:G:428:GLY:HA3	2.02	0.40
1:G:458:ARG:HH21	1:G:500:ALA:CB	2.33	0.40
1:H:179:MET:SD	1:H:184:TRP:CA	3.08	0.40
1:H:322:LEU:HD13	1:H:322:LEU:HA	1.77	0.40
1:G:348:LYS:HB3	1:H:371:TYR:HA	2.03	0.40
1:H:437:GLN:HA	1:H:440:MET:HB2	2.04	0.40
1:H:617:GLN:O	1:H:621:GLU:N	2.52	0.40
1:I:126:TRP:C	1:I:126:TRP:CD1	2.94	0.40
1:I:229:LYS:HA	1:I:271:ILE:O	2.20	0.40
1:J:158:TRP:HB3	1:J:173:CYS:H	1.87	0.40
1:J:277:TYR:CE1	1:J:292:LEU:HD12	2.56	0.40
1:J:225:VAL:HG21	1:J:298:ILE:HD11	2.03	0.40
1:J:37:ARG:NH2	1:J:41:TRP:CZ3	2.89	0.40
1:J:139:SER:HB3	1:J:455:THR:HG23	2.02	0.40
1:J:463:ILE:HA	1:J:496:VAL:O	2.21	0.40
1:K:175:VAL:O	1:K:220:ALA:HB1	2.21	0.40
1:K:208:VAL:HB	1:K:211:TRP:CZ2	2.56	0.40
1:K:263:PHE:O	1:K:264:ILE:C	2.59	0.40
1:K:225:VAL:HG21	1:K:298:ILE:HD11	2.03	0.40
1:K:37:ARG:NH2	1:K:41:TRP:CZ3	2.89	0.40
1:K:420:VAL:HA	1:K:428:GLY:HA3	2.02	0.40
1:K:45:LEU:N	1:K:45:LEU:CD2	2.83	0.40
1:K:463:ILE:HA	1:K:496:VAL:O	2.21	0.40
1:K:552:LEU:HD13	1:K:556:TYR:HE2	1.86	0.40
1:L:550:GLN:O	1:L:551:LEU:C	2.60	0.40
1:A:295:GLY:HA2	1:A:453:LEU:CD2	2.51	0.40
1:A:423:GLU:O	1:A:424:ALA:HB3	2.21	0.40
1:A:139:SER:HB3	1:A:455:THR:HG23	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:175:VAL:O	1:B:220:ALA:HB1	2.21	0.40
1:B:329:LEU:HA	1:B:329:LEU:HD13	1.92	0.40
1:C:171:ARG:HH21	1:D:182:ASN:HD22	1.68	0.40
1:C:231:THR:O	1:C:249:ARG:CB	2.69	0.40
1:C:277:TYR:CE1	1:C:292:LEU:HD12	2.56	0.40
1:C:437:GLN:HA	1:C:440:MET:HB2	2.04	0.40
1:D:246:TYR:CD2	1:D:510:ILE:HG12	2.56	0.40
1:D:15:PHE:CE1	1:D:283:CYS:HA	2.57	0.40
1:D:335:SER:O	1:D:338:ALA:HB3	2.21	0.40
1:D:370:PRO:HB2	1:D:371:TYR:CE1	2.57	0.40
1:D:590:GLN:O	1:D:591:GLN:C	2.60	0.40
1:D:642:GLN:O	1:D:646:ASN:CB	2.70	0.40
1:D:83:LYS:HE3	1:D:517:TYR:HB3	2.04	0.40
1:E:310:VAL:HB	1:E:311:GLU:H	1.75	0.40
1:E:552:LEU:CD1	1:E:556:TYR:HE2	2.34	0.40
1:E:554:LEU:HD22	1:F:567:MET:HE2	2.02	0.40
1:F:126:TRP:C	1:F:126:TRP:CD1	2.94	0.40
1:F:166:ASP:O	1:F:167:LYS:C	2.58	0.40
1:F:248:LYS:CG	1:F:511:ARG:NH1	2.83	0.40
1:F:277:TYR:CE1	1:F:292:LEU:HD12	2.56	0.40
1:F:335:SER:O	1:F:338:ALA:HB3	2.21	0.40
1:F:83:LYS:HE3	1:F:517:TYR:HB3	2.04	0.40
1:G:230:GLU:HG3	1:G:231:THR:H	1.84	0.40
1:G:231:THR:O	1:G:249:ARG:HB3	2.21	0.40
1:G:15:PHE:CE1	1:G:283:CYS:HA	2.57	0.40
1:G:37:ARG:NH2	1:G:41:TRP:CZ3	2.89	0.40
1:G:617:GLN:O	1:G:621:GLU:N	2.52	0.40
1:H:48:TYR:CZ	1:H:210:PRO:HG2	2.56	0.40
1:H:31:ASN:HB3	1:H:35:PHE:CZ	2.57	0.40
1:H:37:ARG:NH2	1:H:41:TRP:CZ3	2.89	0.40
1:I:295:GLY:HA2	1:I:453:LEU:CD2	2.51	0.40
1:I:408:ALA:O	1:I:412:VAL:HG23	2.21	0.40
1:I:423:GLU:O	1:I:424:ALA:HB3	2.21	0.40
1:I:246:TYR:CD2	1:I:510:ILE:HG12	2.56	0.40
1:I:521:GLY:O	1:I:522:PRO:C	2.59	0.40
1:I:552:LEU:CD1	1:I:556:TYR:HE2	2.34	0.40
1:I:573:ASN:O	1:I:574:LYS:C	2.60	0.40
1:J:229:LYS:HA	1:J:271:ILE:O	2.20	0.40
1:J:238:PRO:HG2	1:J:239:VAL:HG23	2.04	0.40
1:J:335:SER:O	1:J:338:ALA:HB3	2.21	0.40
1:J:31:ASN:HB3	1:J:35:PHE:CZ	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:437:GLN:HA	1:J:440:MET:HB2	2.04	0.40
1:J:246:TYR:CD2	1:J:510:ILE:HG12	2.56	0.40
1:J:83:LYS:HE3	1:J:517:TYR:HB3	2.03	0.40
1:K:546:THR:O	1:K:547:PRO:C	2.59	0.40
1:L:126:TRP:C	1:L:126:TRP:CD1	2.94	0.40
1:L:434:THR:HA	1:L:437:GLN:NE2	2.36	0.40
1:L:165:MET:HE3	1:L:435:VAL:HB	2.03	0.40
1:L:246:TYR:CD2	1:L:510:ILE:HG12	2.56	0.40
1:A:171:ARG:HH21	1:B:182:ASN:HD22	1.69	0.40
1:A:329:LEU:O	1:A:330:ARG:C	2.59	0.40
1:A:65:ARG:O	1:A:69:SER:HB2	2.21	0.40
1:B:111:VAL:O	1:B:114:ALA:HB3	2.21	0.40
1:B:263:PHE:O	1:B:264:ILE:O	2.39	0.40
1:B:35:PHE:O	1:B:37:ARG:N	2.54	0.40
1:B:60:VAL:O	1:B:61:ARG:C	2.60	0.40
1:C:118:GLN:O	1:C:122:GLY:HA2	2.21	0.40
1:C:208:VAL:HB	1:C:211:TRP:CZ2	2.56	0.40
1:C:27:ARG:CZ	1:D:211:TRP:CB	2.93	0.40
1:C:15:PHE:CE1	1:C:283:CYS:HA	2.57	0.40
1:B:352:TRP:CD1	1:C:374:LEU:O	2.73	0.40
1:D:126:TRP:C	1:D:126:TRP:CD1	2.94	0.40
1:D:328:ARG:HA	1:D:331:ASN:ND2	2.36	0.40
1:D:546:THR:O	1:D:547:PRO:C	2.59	0.40
1:D:65:ARG:O	1:D:69:SER:HB2	2.21	0.40
1:E:295:GLY:HA2	1:E:453:LEU:CD2	2.51	0.40
1:E:573:ASN:O	1:E:574:LYS:C	2.60	0.40
1:E:60:VAL:O	1:E:61:ARG:C	2.59	0.40
1:F:171:ARG:HH21	1:G:182:ASN:ND2	2.19	0.40
1:F:209:PHE:CE2	1:F:214:GLN:HG2	2.56	0.40
1:F:248:LYS:HE2	1:F:513:ARG:HH12	1.85	0.40
1:F:370:PRO:HB2	1:F:371:TYR:CE1	2.57	0.40
1:F:448:VAL:HB	1:F:449:PHE:CD1	2.55	0.40
1:G:175:VAL:O	1:G:220:ALA:HB1	2.21	0.40
1:G:35:PHE:O	1:G:37:ARG:N	2.54	0.40
1:G:408:ALA:O	1:G:412:VAL:HG23	2.21	0.40
1:G:48:TYR:CZ	1:G:210:PRO:HG2	2.56	0.40
1:G:590:GLN:O	1:G:591:GLN:C	2.60	0.40
1:H:248:LYS:CE	1:H:513:ARG:HH12	2.35	0.40
1:H:295:GLY:HA2	1:H:453:LEU:CD2	2.51	0.40
1:H:348:LYS:HA	1:H:349:PRO:HD3	1.87	0.40
1:H:408:ALA:O	1:H:412:VAL:HG23	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:423:GLU:O	1:H:424:ALA:HB3	2.21	0.40
1:H:434:THR:HA	1:H:437:GLN:NE2	2.36	0.40
1:H:552:LEU:HD13	1:H:556:TYR:HE2	1.86	0.40
1:I:231:THR:O	1:I:249:ARG:HB3	2.21	0.40
1:H:404:MET:SD	1:I:337:ASN:CB	3.09	0.40
1:I:35:PHE:O	1:I:37:ARG:N	2.54	0.40
1:I:458:ARG:HH21	1:I:500:ALA:CB	2.33	0.40
1:J:118:GLN:O	1:J:122:GLY:HA2	2.21	0.40
1:J:422:THR:HG22	1:J:425:VAL:CG2	2.51	0.40
1:J:434:THR:HA	1:J:437:GLN:NE2	2.36	0.40
1:K:147:GLU:HA	1:K:148:PRO:HD3	1.83	0.40
1:K:209:PHE:CE2	1:K:214:GLN:HG2	2.56	0.40
1:K:122:GLY:HA3	1:K:317:GLU:C	2.41	0.40
1:K:370:PRO:HB2	1:K:371:TYR:CE1	2.57	0.40
1:J:554:LEU:HD22	1:K:567:MET:HE2	2.03	0.40
1:L:158:TRP:HB3	1:L:173:CYS:H	1.87	0.40
1:L:186:ASP:O	1:L:190:LYS:HG2	2.22	0.40
1:A:175:VAL:O	1:A:220:ALA:HB1	2.21	0.40
1:A:209:PHE:CE2	1:A:214:GLN:HG2	2.56	0.40
1:A:263:PHE:O	1:A:264:ILE:O	2.39	0.40
1:A:37:ARG:NH2	1:A:41:TRP:CZ3	2.89	0.40
1:A:546:THR:O	1:A:547:PRO:C	2.59	0.40
1:A:552:LEU:CD1	1:A:556:TYR:HE2	2.34	0.40
1:A:642:GLN:O	1:A:646:ASN:CB	2.69	0.40
1:A:722:GLU:O	1:A:723:THR:C	2.60	0.40
1:B:370:PRO:HB2	1:B:371:TYR:CE1	2.57	0.40
1:C:186:ASP:O	1:C:190:LYS:HG2	2.22	0.40
1:C:408:ALA:O	1:C:412:VAL:HG23	2.21	0.40
1:D:158:TRP:HB3	1:D:173:CYS:H	1.87	0.40
1:D:37:ARG:NH2	1:D:41:TRP:CZ3	2.89	0.40
1:D:541:LYS:HE2	1:D:541:LYS:HB2	1.79	0.40
1:D:550:GLN:O	1:D:551:LEU:C	2.60	0.40
1:D:82:PRO:HB2	1:D:83:LYS:H	1.63	0.40
1:E:48:TYR:CZ	1:E:210:PRO:HG2	2.56	0.40
1:E:413:LYS:HB3	1:E:413:LYS:HE2	1.88	0.40
1:F:208:VAL:HB	1:F:211:TRP:CZ2	2.56	0.40
1:F:404:MET:SD	1:G:337:ASN:CB	3.09	0.40
1:F:552:LEU:HD13	1:F:556:TYR:HE2	1.86	0.40
1:G:335:SER:O	1:G:338:ALA:HB3	2.21	0.40
1:G:434:THR:HA	1:G:437:GLN:NE2	2.36	0.40
1:G:552:LEU:HD13	1:G:556:TYR:HE2	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:573:ASN:O	1:G:574:LYS:C	2.60	0.40
1:H:335:SER:O	1:H:338:ALA:HB3	2.21	0.40
1:H:546:THR:O	1:H:547:PRO:C	2.59	0.40
1:H:92:ASP:N	1:H:92:ASP:OD2	2.55	0.40
1:I:158:TRP:HB3	1:I:173:CYS:H	1.87	0.40
1:I:209:PHE:CE2	1:I:214:GLN:HG2	2.56	0.40
1:I:370:PRO:HB2	1:I:371:TYR:CE1	2.57	0.40
1:I:420:VAL:HA	1:I:428:GLY:HA3	2.02	0.40
1:I:434:THR:HA	1:I:437:GLN:NE2	2.36	0.40
1:J:15:PHE:CE1	1:J:283:CYS:HA	2.57	0.40
1:J:350:PHE:HZ	1:J:392:TYR:HD2	1.70	0.40
1:J:41:TRP:CZ3	1:J:44:TRP:O	2.74	0.40
1:L:166:ASP:OD1	1:L:168:SER:CB	2.68	0.40
1:L:35:PHE:O	1:L:37:ARG:N	2.54	0.40
1:L:37:ARG:NH2	1:L:41:TRP:CZ3	2.89	0.40
1:L:66:LYS:HZ3	1:L:420:VAL:CG1	2.35	0.40
1:A:208:VAL:HB	1:A:211:TRP:CZ2	2.56	0.40
1:A:231:THR:O	1:A:249:ARG:CB	2.69	0.40
1:B:422:THR:HG22	1:B:425:VAL:CG2	2.51	0.40
1:B:423:GLU:O	1:B:424:ALA:HB3	2.21	0.40
1:B:295:GLY:HA2	1:B:453:LEU:CD2	2.51	0.40
1:B:552:LEU:CD1	1:B:556:TYR:HE2	2.34	0.40
1:C:126:TRP:CD1	1:C:126:TRP:C	2.94	0.40
1:D:248:LYS:CG	1:D:511:ARG:NH1	2.83	0.40
1:D:408:ALA:O	1:D:412:VAL:HG23	2.21	0.40
1:D:92:ASP:OD2	1:D:92:ASP:N	2.55	0.40
1:E:230:GLU:HG3	1:E:231:THR:H	1.84	0.40
1:E:550:GLN:O	1:E:551:LEU:C	2.60	0.40
1:E:92:ASP:N	1:E:92:ASP:OD2	2.55	0.40
1:F:48:TYR:CZ	1:F:210:PRO:HG2	2.56	0.40
1:F:78:VAL:CG2	1:F:444:LEU:HD21	2.52	0.40
1:G:422:THR:HG22	1:G:425:VAL:CG2	2.51	0.40
1:G:429:GLN:OE1	1:G:429:GLN:N	2.55	0.40
1:G:437:GLN:HA	1:G:440:MET:HB2	2.04	0.40
1:G:99:ARG:HH12	1:G:530:GLN:HE21	1.68	0.40
1:G:65:ARG:O	1:G:69:SER:HB2	2.21	0.40
1:H:231:THR:O	1:H:249:ARG:CB	2.69	0.40
1:G:390:ALA:HB1	1:H:387:GLN:HB2	2.04	0.40
1:H:552:LEU:CD1	1:H:556:TYR:HE2	2.34	0.40
1:I:48:TYR:CZ	1:I:210:PRO:HG2	2.56	0.40
1:I:238:PRO:HG2	1:I:239:VAL:HG23	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:31:ASN:HB3	1:I:35:PHE:CZ	2.57	0.40
1:I:335:SER:O	1:I:338:ALA:HB3	2.21	0.40
1:I:369:TYR:HA	1:I:370:PRO:HD3	1.75	0.40
1:I:429:GLN:OE1	1:I:429:GLN:N	2.55	0.40
1:I:586:THR:C	1:I:588:GLU:H	2.23	0.40
1:J:186:ASP:O	1:J:190:LYS:HG2	2.22	0.40
1:J:231:THR:O	1:J:249:ARG:CB	2.69	0.40
1:J:231:THR:O	1:J:249:ARG:HB3	2.21	0.40
1:J:642:GLN:O	1:J:646:ASN:CB	2.70	0.40
1:K:186:ASP:O	1:K:190:LYS:HG2	2.22	0.40
1:K:31:ASN:HB3	1:K:35:PHE:CZ	2.57	0.40
1:K:422:THR:HG22	1:K:425:VAL:CG2	2.51	0.40
1:L:248:LYS:CE	1:L:513:ARG:HH12	2.35	0.40
1:L:263:PHE:O	1:L:264:ILE:C	2.59	0.40
1:L:263:PHE:O	1:L:264:ILE:O	2.39	0.40
1:L:437:GLN:HA	1:L:440:MET:HB2	2.04	0.40

All (12) 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:49:THR:O	1:J:684:ARG:O[8_554]	1.56	0.64
1:A:49:THR:O	1:E:684:ARG:O[3_555]	1.86	0.34
1:A:48:TYR:O	1:E:687:ALA:CB[3_555]	1.89	0.31
1:H:49:THR:OG1	1:J:687:ALA:CB[8_554]	1.93	0.27
1:A:49:THR:CB	1:E:687:ALA:CB[3_555]	1.94	0.26
1:A:48:TYR:C	1:E:687:ALA:CB[3_555]	2.00	0.20
1:A:209:PHE:CD2	1:F:691:LEU:CB[3_555]	2.02	0.18
1:A:49:THR:CG2	1:E:683:ALA:O[3_555]	2.09	0.11
1:A:48:TYR:O	1:E:687:ALA:C[3_555]	2.13	0.07
1:A:49:THR:OG1	1:E:687:ALA:CB[3_555]	2.14	0.06
1:A:51:LEU:CD2	1:E:681:GLU:O[3_555]	2.16	0.04
1:H:48:TYR:O	1:J:688:GLU:N[8_554]	2.18	0.02

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	688/725 (95%)	507 (74%)	122 (18%)	59 (9%)	1	11
1	B	688/725 (95%)	507 (74%)	122 (18%)	59 (9%)	1	11
1	C	688/725 (95%)	508 (74%)	121 (18%)	59 (9%)	1	11
1	D	688/725 (95%)	506 (74%)	123 (18%)	59 (9%)	1	11
1	E	688/725 (95%)	507 (74%)	122 (18%)	59 (9%)	1	11
1	F	688/725 (95%)	507 (74%)	122 (18%)	59 (9%)	1	11
1	G	688/725 (95%)	507 (74%)	122 (18%)	59 (9%)	1	11
1	H	688/725 (95%)	506 (74%)	123 (18%)	59 (9%)	1	11
1	I	688/725 (95%)	507 (74%)	122 (18%)	59 (9%)	1	11
1	J	688/725 (95%)	507 (74%)	122 (18%)	59 (9%)	1	11
1	K	688/725 (95%)	508 (74%)	121 (18%)	59 (9%)	1	11
1	L	688/725 (95%)	507 (74%)	122 (18%)	59 (9%)	1	11
All	All	8256/8700 (95%)	6084 (74%)	1464 (18%)	708 (9%)	1	11

All (708) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	41	TRP
1	A	82	PRO
1	A	208	VAL
1	A	256	ASP
1	A	263	PHE
1	A	294	ALA
1	A	380	ASN
1	A	504	LYS
1	A	561	ASP
1	A	586	THR
1	A	588	GLU
1	A	724	PRO
1	B	41	TRP
1	B	82	PRO
1	B	208	VAL
1	B	256	ASP
1	B	263	PHE
1	B	294	ALA

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Mol	Chain	Res	Type
1	B	380	ASN
1	B	504	LYS
1	B	561	ASP
1	B	586	THR
1	B	588	GLU
1	B	724	PRO
1	C	41	TRP
1	C	82	PRO
1	C	208	VAL
1	C	256	ASP
1	C	263	PHE
1	C	294	ALA
1	C	380	ASN
1	C	504	LYS
1	C	561	ASP
1	C	586	THR
1	C	588	GLU
1	C	724	PRO
1	D	41	TRP
1	D	82	PRO
1	D	208	VAL
1	D	256	ASP
1	D	263	PHE
1	D	294	ALA
1	D	380	ASN
1	D	504	LYS
1	D	561	ASP
1	D	586	THR
1	D	588	GLU
1	D	724	PRO
1	E	41	TRP
1	E	82	PRO
1	E	208	VAL
1	E	256	ASP
1	E	263	PHE
1	E	294	ALA
1	E	380	ASN
1	E	504	LYS
1	E	561	ASP
1	E	586	THR
1	E	588	GLU
1	E	724	PRO

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Mol	Chain	Res	Type
1	F	41	TRP
1	F	82	PRO
1	F	208	VAL
1	F	256	ASP
1	F	263	PHE
1	F	294	ALA
1	F	380	ASN
1	F	504	LYS
1	F	561	ASP
1	F	586	THR
1	F	588	GLU
1	F	724	PRO
1	G	41	TRP
1	G	82	PRO
1	G	208	VAL
1	G	256	ASP
1	G	263	PHE
1	G	294	ALA
1	G	380	ASN
1	G	504	LYS
1	G	561	ASP
1	G	586	THR
1	G	588	GLU
1	G	724	PRO
1	H	41	TRP
1	H	82	PRO
1	H	208	VAL
1	H	256	ASP
1	H	263	PHE
1	H	294	ALA
1	H	380	ASN
1	H	504	LYS
1	H	561	ASP
1	H	586	THR
1	H	588	GLU
1	H	724	PRO
1	I	41	TRP
1	I	82	PRO
1	I	208	VAL
1	I	256	ASP
1	I	263	PHE
1	I	294	ALA

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Mol	Chain	Res	Type
1	I	380	ASN
1	I	504	LYS
1	I	561	ASP
1	I	586	THR
1	I	588	GLU
1	I	724	PRO
1	J	41	TRP
1	J	82	PRO
1	J	208	VAL
1	J	256	ASP
1	J	263	PHE
1	J	294	ALA
1	J	380	ASN
1	J	504	LYS
1	J	561	ASP
1	J	586	THR
1	J	588	GLU
1	J	724	PRO
1	K	41	TRP
1	K	82	PRO
1	K	208	VAL
1	K	256	ASP
1	K	263	PHE
1	K	294	ALA
1	K	380	ASN
1	K	504	LYS
1	K	561	ASP
1	K	586	THR
1	K	588	GLU
1	K	724	PRO
1	L	41	TRP
1	L	82	PRO
1	L	208	VAL
1	L	256	ASP
1	L	263	PHE
1	L	294	ALA
1	L	380	ASN
1	L	504	LYS
1	L	561	ASP
1	L	586	THR
1	L	588	GLU
1	L	724	PRO

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Mol	Chain	Res	Type
1	A	50	THR
1	A	159	ASP
1	A	233	PHE
1	A	244	VAL
1	A	264	ILE
1	A	267	ALA
1	A	274	ARG
1	A	295	GLY
1	A	387	GLN
1	A	388	PRO
1	A	459	ARG
1	A	498	ASP
1	A	514	TYR
1	A	595	GLU
1	A	693	GLY
1	A	700	GLN
1	B	50	THR
1	B	159	ASP
1	B	233	PHE
1	B	244	VAL
1	B	264	ILE
1	B	267	ALA
1	B	274	ARG
1	B	295	GLY
1	B	387	GLN
1	B	388	PRO
1	B	459	ARG
1	B	498	ASP
1	B	514	TYR
1	B	595	GLU
1	B	693	GLY
1	B	700	GLN
1	C	50	THR
1	C	159	ASP
1	C	233	PHE
1	C	244	VAL
1	C	264	ILE
1	C	267	ALA
1	C	274	ARG
1	C	295	GLY
1	C	387	GLN
1	C	388	PRO

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Mol	Chain	Res	Type
1	C	459	ARG
1	C	498	ASP
1	C	514	TYR
1	C	595	GLU
1	C	693	GLY
1	C	700	GLN
1	D	50	THR
1	D	159	ASP
1	D	233	PHE
1	D	244	VAL
1	D	264	ILE
1	D	267	ALA
1	D	274	ARG
1	D	295	GLY
1	D	387	GLN
1	D	388	PRO
1	D	459	ARG
1	D	498	ASP
1	D	514	TYR
1	D	595	GLU
1	D	693	GLY
1	D	700	GLN
1	E	50	THR
1	E	159	ASP
1	E	233	PHE
1	E	244	VAL
1	E	264	ILE
1	E	267	ALA
1	E	274	ARG
1	E	295	GLY
1	E	387	GLN
1	E	388	PRO
1	E	459	ARG
1	E	498	ASP
1	E	514	TYR
1	E	595	GLU
1	E	693	GLY
1	E	700	GLN
1	F	50	THR
1	F	159	ASP
1	F	233	PHE
1	F	244	VAL

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Mol	Chain	Res	Type
1	F	264	ILE
1	F	267	ALA
1	F	274	ARG
1	F	295	GLY
1	F	387	GLN
1	F	388	PRO
1	F	459	ARG
1	F	498	ASP
1	F	514	TYR
1	F	595	GLU
1	F	693	GLY
1	F	700	GLN
1	G	50	THR
1	G	159	ASP
1	G	233	PHE
1	G	244	VAL
1	G	264	ILE
1	G	267	ALA
1	G	274	ARG
1	G	295	GLY
1	G	387	GLN
1	G	388	PRO
1	G	459	ARG
1	G	498	ASP
1	G	514	TYR
1	G	595	GLU
1	G	693	GLY
1	G	700	GLN
1	H	50	THR
1	H	159	ASP
1	H	233	PHE
1	H	244	VAL
1	H	264	ILE
1	H	267	ALA
1	H	274	ARG
1	H	295	GLY
1	H	387	GLN
1	H	388	PRO
1	H	459	ARG
1	H	498	ASP
1	H	514	TYR
1	H	595	GLU

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Mol	Chain	Res	Type
1	H	693	GLY
1	H	700	GLN
1	I	50	THR
1	I	159	ASP
1	I	233	PHE
1	I	244	VAL
1	I	264	ILE
1	I	267	ALA
1	I	274	ARG
1	I	295	GLY
1	I	387	GLN
1	I	388	PRO
1	I	459	ARG
1	I	498	ASP
1	I	514	TYR
1	I	595	GLU
1	I	693	GLY
1	I	700	GLN
1	J	50	THR
1	J	159	ASP
1	J	233	PHE
1	J	244	VAL
1	J	264	ILE
1	J	267	ALA
1	J	274	ARG
1	J	295	GLY
1	J	387	GLN
1	J	388	PRO
1	J	459	ARG
1	J	498	ASP
1	J	514	TYR
1	J	595	GLU
1	J	693	GLY
1	J	700	GLN
1	K	50	THR
1	K	159	ASP
1	K	233	PHE
1	K	244	VAL
1	K	264	ILE
1	K	267	ALA
1	K	274	ARG
1	K	295	GLY

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Mol	Chain	Res	Type
1	K	387	GLN
1	K	388	PRO
1	K	459	ARG
1	K	498	ASP
1	K	514	TYR
1	K	595	GLU
1	K	693	GLY
1	K	700	GLN
1	L	50	THR
1	L	159	ASP
1	L	233	PHE
1	L	244	VAL
1	L	264	ILE
1	L	267	ALA
1	L	274	ARG
1	L	295	GLY
1	L	387	GLN
1	L	388	PRO
1	L	459	ARG
1	L	498	ASP
1	L	514	TYR
1	L	595	GLU
1	L	693	GLY
1	L	700	GLN
1	A	93	VAL
1	A	205	ASN
1	A	216	THR
1	A	253	ASP
1	A	262	GLY
1	A	330	ARG
1	A	591	GLN
1	A	594	VAL
1	A	701	ARG
1	A	705	ALA
1	B	93	VAL
1	B	205	ASN
1	B	216	THR
1	B	253	ASP
1	B	262	GLY
1	B	330	ARG
1	B	591	GLN
1	B	594	VAL

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Mol	Chain	Res	Type
1	B	701	ARG
1	B	705	ALA
1	C	93	VAL
1	C	205	ASN
1	C	216	THR
1	C	253	ASP
1	C	262	GLY
1	C	330	ARG
1	C	591	GLN
1	C	594	VAL
1	C	701	ARG
1	C	705	ALA
1	D	93	VAL
1	D	205	ASN
1	D	216	THR
1	D	253	ASP
1	D	262	GLY
1	D	330	ARG
1	D	591	GLN
1	D	594	VAL
1	D	701	ARG
1	D	705	ALA
1	E	93	VAL
1	E	205	ASN
1	E	216	THR
1	E	253	ASP
1	E	262	GLY
1	E	330	ARG
1	E	591	GLN
1	E	594	VAL
1	E	701	ARG
1	E	705	ALA
1	F	93	VAL
1	F	205	ASN
1	F	216	THR
1	F	253	ASP
1	F	262	GLY
1	F	330	ARG
1	F	591	GLN
1	F	594	VAL
1	F	701	ARG
1	F	705	ALA

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Mol	Chain	Res	Type
1	G	93	VAL
1	G	205	ASN
1	G	216	THR
1	G	253	ASP
1	G	262	GLY
1	G	330	ARG
1	G	591	GLN
1	G	594	VAL
1	G	701	ARG
1	G	705	ALA
1	H	93	VAL
1	H	205	ASN
1	H	216	THR
1	H	253	ASP
1	H	262	GLY
1	H	330	ARG
1	H	591	GLN
1	H	594	VAL
1	H	701	ARG
1	H	705	ALA
1	I	93	VAL
1	I	205	ASN
1	I	216	THR
1	I	253	ASP
1	I	262	GLY
1	I	330	ARG
1	I	591	GLN
1	I	594	VAL
1	I	701	ARG
1	I	705	ALA
1	J	93	VAL
1	J	205	ASN
1	J	216	THR
1	J	253	ASP
1	J	262	GLY
1	J	330	ARG
1	J	591	GLN
1	J	594	VAL
1	J	701	ARG
1	J	705	ALA
1	K	93	VAL
1	K	205	ASN

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Mol	Chain	Res	Type
1	K	216	THR
1	K	253	ASP
1	K	262	GLY
1	K	330	ARG
1	K	591	GLN
1	K	594	VAL
1	K	701	ARG
1	K	705	ALA
1	L	93	VAL
1	L	205	ASN
1	L	216	THR
1	L	253	ASP
1	L	262	GLY
1	L	330	ARG
1	L	591	GLN
1	L	594	VAL
1	L	701	ARG
1	L	705	ALA
1	A	36	SER
1	A	161	ASN
1	A	198	ILE
1	A	302	PRO
1	A	378	ASP
1	A	381	SER
1	A	668	PHE
1	B	36	SER
1	B	161	ASN
1	B	198	ILE
1	B	302	PRO
1	B	378	ASP
1	B	381	SER
1	B	668	PHE
1	C	36	SER
1	C	161	ASN
1	C	198	ILE
1	C	302	PRO
1	C	378	ASP
1	C	381	SER
1	C	668	PHE
1	D	36	SER
1	D	161	ASN
1	D	198	ILE

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Mol	Chain	Res	Type
1	D	302	PRO
1	D	378	ASP
1	D	381	SER
1	D	668	PHE
1	E	36	SER
1	E	161	ASN
1	E	198	ILE
1	E	302	PRO
1	E	378	ASP
1	E	381	SER
1	E	668	PHE
1	F	36	SER
1	F	161	ASN
1	F	198	ILE
1	F	302	PRO
1	F	378	ASP
1	F	381	SER
1	F	668	PHE
1	G	36	SER
1	G	161	ASN
1	G	198	ILE
1	G	302	PRO
1	G	378	ASP
1	G	381	SER
1	G	668	PHE
1	H	36	SER
1	H	161	ASN
1	H	198	ILE
1	H	302	PRO
1	H	378	ASP
1	H	381	SER
1	H	668	PHE
1	I	36	SER
1	I	161	ASN
1	I	198	ILE
1	I	302	PRO
1	I	378	ASP
1	I	381	SER
1	I	668	PHE
1	J	36	SER
1	J	161	ASN
1	J	198	ILE

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Mol	Chain	Res	Type
1	J	302	PRO
1	J	378	ASP
1	J	381	SER
1	J	668	PHE
1	K	36	SER
1	K	161	ASN
1	K	198	ILE
1	K	302	PRO
1	K	378	ASP
1	K	381	SER
1	K	668	PHE
1	L	36	SER
1	L	161	ASN
1	L	198	ILE
1	L	302	PRO
1	L	378	ASP
1	L	381	SER
1	L	668	PHE
1	A	76	ILE
1	A	203	ASN
1	A	209	PHE
1	A	311	GLU
1	A	397	VAL
1	A	462	GLU
1	A	583	LYS
1	A	604	GLN
1	B	76	ILE
1	B	203	ASN
1	B	209	PHE
1	B	311	GLU
1	B	397	VAL
1	B	462	GLU
1	B	583	LYS
1	B	604	GLN
1	C	76	ILE
1	C	203	ASN
1	C	209	PHE
1	C	311	GLU
1	C	397	VAL
1	C	462	GLU
1	C	583	LYS
1	C	604	GLN

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Mol	Chain	Res	Type
1	D	76	ILE
1	D	203	ASN
1	D	209	PHE
1	D	311	GLU
1	D	397	VAL
1	D	462	GLU
1	D	583	LYS
1	D	604	GLN
1	E	76	ILE
1	E	203	ASN
1	E	209	PHE
1	E	311	GLU
1	E	397	VAL
1	E	462	GLU
1	E	583	LYS
1	E	604	GLN
1	F	76	ILE
1	F	203	ASN
1	F	209	PHE
1	F	311	GLU
1	F	397	VAL
1	F	462	GLU
1	F	583	LYS
1	F	604	GLN
1	G	76	ILE
1	G	203	ASN
1	G	209	PHE
1	G	311	GLU
1	G	397	VAL
1	G	462	GLU
1	G	583	LYS
1	G	604	GLN
1	H	76	ILE
1	H	203	ASN
1	H	209	PHE
1	H	311	GLU
1	H	397	VAL
1	H	462	GLU
1	H	583	LYS
1	H	604	GLN
1	I	76	ILE
1	I	203	ASN

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Mol	Chain	Res	Type
1	I	209	PHE
1	I	311	GLU
1	I	397	VAL
1	I	462	GLU
1	I	583	LYS
1	I	604	GLN
1	J	76	ILE
1	J	203	ASN
1	J	209	PHE
1	J	311	GLU
1	J	397	VAL
1	J	462	GLU
1	J	583	LYS
1	J	604	GLN
1	K	76	ILE
1	K	203	ASN
1	K	209	PHE
1	K	311	GLU
1	K	397	VAL
1	K	462	GLU
1	K	583	LYS
1	K	604	GLN
1	L	76	ILE
1	L	203	ASN
1	L	209	PHE
1	L	311	GLU
1	L	397	VAL
1	L	462	GLU
1	L	583	LYS
1	L	604	GLN
1	A	192	ASP
1	A	383	ASP
1	A	428	GLY
1	B	192	ASP
1	B	383	ASP
1	B	428	GLY
1	C	192	ASP
1	C	383	ASP
1	C	428	GLY
1	D	192	ASP
1	D	383	ASP
1	D	428	GLY

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Mol	Chain	Res	Type
1	E	192	ASP
1	E	383	ASP
1	E	428	GLY
1	F	192	ASP
1	F	383	ASP
1	F	428	GLY
1	G	192	ASP
1	G	383	ASP
1	G	428	GLY
1	H	192	ASP
1	H	383	ASP
1	H	428	GLY
1	I	192	ASP
1	I	383	ASP
1	I	428	GLY
1	J	192	ASP
1	J	383	ASP
1	J	428	GLY
1	K	192	ASP
1	K	383	ASP
1	K	428	GLY
1	L	192	ASP
1	L	383	ASP
1	L	428	GLY
1	A	310	VAL
1	B	310	VAL
1	C	310	VAL
1	D	310	VAL
1	E	310	VAL
1	F	310	VAL
1	G	310	VAL
1	H	310	VAL
1	I	310	VAL
1	J	310	VAL
1	K	310	VAL
1	L	310	VAL
1	A	522	PRO
1	B	522	PRO
1	C	522	PRO
1	D	522	PRO
1	E	522	PRO
1	G	522	PRO

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Mol	Chain	Res	Type
1	I	522	PRO
1	J	522	PRO
1	K	522	PRO
1	L	522	PRO
1	F	522	PRO
1	H	522	PRO
1	A	510	ILE
1	B	510	ILE
1	C	510	ILE
1	D	510	ILE
1	E	510	ILE
1	F	510	ILE
1	G	510	ILE
1	H	510	ILE
1	I	510	ILE
1	J	510	ILE
1	K	510	ILE
1	L	510	ILE

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	474/630 (75%)	410 (86%)	64 (14%)	4	17
1	B	474/630 (75%)	409 (86%)	65 (14%)	3	17
1	C	474/630 (75%)	410 (86%)	64 (14%)	4	17
1	D	474/630 (75%)	409 (86%)	65 (14%)	3	17
1	E	474/630 (75%)	409 (86%)	65 (14%)	3	17
1	F	474/630 (75%)	409 (86%)	65 (14%)	3	17
1	G	474/630 (75%)	409 (86%)	65 (14%)	3	17
1	H	474/630 (75%)	410 (86%)	64 (14%)	4	17
1	I	474/630 (75%)	410 (86%)	64 (14%)	4	17
1	J	474/630 (75%)	410 (86%)	64 (14%)	4	17

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	K	474/630 (75%)	409 (86%)	65 (14%)	3	17
1	L	474/630 (75%)	410 (86%)	64 (14%)	4	17
All	All	5688/7560 (75%)	4914 (86%)	774 (14%)	3	17

All (774) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	14	ARG
1	A	15	PHE
1	A	24	GLU
1	A	30	LYS
1	A	31	ASN
1	A	33	LEU
1	A	37	ARG
1	A	45	LEU
1	A	56	GLN
1	A	69	SER
1	A	79	LEU
1	A	93	VAL
1	A	101	ASP
1	A	118	GLN
1	A	123	VAL
1	A	127	ARG
1	A	133	GLU
1	A	144	ILE
1	A	157	ILE
1	A	158	TRP
1	A	161	ASN
1	A	164	LEU
1	A	168	SER
1	A	174	THR
1	A	190	LYS
1	A	201	PHE
1	A	202	GLN
1	A	209	PHE
1	A	211	TRP
1	A	218	GLN
1	A	234	ILE
1	A	246	TYR
1	A	248	LYS
1	A	265	LYS

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Mol	Chain	Res	Type
1	A	266	ILE
1	A	273	ARG
1	A	275	ARG
1	A	286	VAL
1	A	293	ILE
1	A	301	VAL
1	A	325	ASP
1	A	327	GLN
1	A	343	ARG
1	A	356	ILE
1	A	359	PHE
1	A	376	ARG
1	A	384	LEU
1	A	387	GLN
1	A	389	LEU
1	A	405	LEU
1	A	421	ASP
1	A	422	THR
1	A	433	ASP
1	A	444	LEU
1	A	511	ARG
1	A	513	ARG
1	A	518	THR
1	A	529	GLN
1	A	541	LYS
1	A	546	THR
1	A	552	LEU
1	A	555	GLN
1	A	558	THR
1	A	588	GLU
1	B	14	ARG
1	B	15	PHE
1	B	24	GLU
1	B	30	LYS
1	B	31	ASN
1	B	33	LEU
1	B	37	ARG
1	B	45	LEU
1	B	56	GLN
1	B	69	SER
1	B	79	LEU
1	B	93	VAL

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Mol	Chain	Res	Type
1	B	101	ASP
1	B	118	GLN
1	B	123	VAL
1	B	127	ARG
1	B	133	GLU
1	B	144	ILE
1	B	157	ILE
1	B	158	TRP
1	B	161	ASN
1	B	164	LEU
1	B	168	SER
1	B	174	THR
1	B	190	LYS
1	B	201	PHE
1	B	202	GLN
1	B	209	PHE
1	B	211	TRP
1	B	218	GLN
1	B	234	ILE
1	B	246	TYR
1	B	248	LYS
1	B	265	LYS
1	B	266	ILE
1	B	273	ARG
1	B	275	ARG
1	B	286	VAL
1	B	293	ILE
1	B	301	VAL
1	B	325	ASP
1	B	327	GLN
1	B	343	ARG
1	B	356	ILE
1	B	359	PHE
1	B	376	ARG
1	B	384	LEU
1	B	387	GLN
1	B	389	LEU
1	B	405	LEU
1	B	421	ASP
1	B	422	THR
1	B	433	ASP
1	B	444	LEU

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Mol	Chain	Res	Type
1	B	449	PHE
1	B	511	ARG
1	B	513	ARG
1	B	518	THR
1	B	529	GLN
1	B	541	LYS
1	B	546	THR
1	B	552	LEU
1	B	555	GLN
1	B	558	THR
1	B	588	GLU
1	C	14	ARG
1	C	15	PHE
1	C	24	GLU
1	C	30	LYS
1	C	31	ASN
1	C	33	LEU
1	C	37	ARG
1	C	45	LEU
1	C	56	GLN
1	C	69	SER
1	C	79	LEU
1	C	93	VAL
1	C	101	ASP
1	C	118	GLN
1	C	123	VAL
1	C	127	ARG
1	C	133	GLU
1	C	144	ILE
1	C	157	ILE
1	C	158	TRP
1	C	161	ASN
1	C	164	LEU
1	C	168	SER
1	C	174	THR
1	C	190	LYS
1	C	201	PHE
1	C	202	GLN
1	C	209	PHE
1	C	211	TRP
1	C	218	GLN
1	C	234	ILE

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Mol	Chain	Res	Type
1	C	246	TYR
1	C	248	LYS
1	C	265	LYS
1	C	266	ILE
1	C	273	ARG
1	C	275	ARG
1	C	286	VAL
1	C	293	ILE
1	C	301	VAL
1	C	325	ASP
1	C	327	GLN
1	C	343	ARG
1	C	356	ILE
1	C	359	PHE
1	C	376	ARG
1	C	384	LEU
1	C	387	GLN
1	C	389	LEU
1	C	405	LEU
1	C	421	ASP
1	C	422	THR
1	C	433	ASP
1	C	444	LEU
1	C	511	ARG
1	C	513	ARG
1	C	518	THR
1	C	529	GLN
1	C	541	LYS
1	C	546	THR
1	C	552	LEU
1	C	555	GLN
1	C	558	THR
1	C	588	GLU
1	D	14	ARG
1	D	15	PHE
1	D	24	GLU
1	D	30	LYS
1	D	31	ASN
1	D	33	LEU
1	D	37	ARG
1	D	45	LEU
1	D	56	GLN

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Mol	Chain	Res	Type
1	D	69	SER
1	D	79	LEU
1	D	93	VAL
1	D	101	ASP
1	D	118	GLN
1	D	123	VAL
1	D	127	ARG
1	D	133	GLU
1	D	144	ILE
1	D	157	ILE
1	D	158	TRP
1	D	161	ASN
1	D	164	LEU
1	D	168	SER
1	D	174	THR
1	D	190	LYS
1	D	201	PHE
1	D	202	GLN
1	D	209	PHE
1	D	211	TRP
1	D	218	GLN
1	D	234	ILE
1	D	246	TYR
1	D	248	LYS
1	D	265	LYS
1	D	266	ILE
1	D	273	ARG
1	D	275	ARG
1	D	286	VAL
1	D	293	ILE
1	D	301	VAL
1	D	325	ASP
1	D	327	GLN
1	D	343	ARG
1	D	356	ILE
1	D	359	PHE
1	D	376	ARG
1	D	384	LEU
1	D	387	GLN
1	D	389	LEU
1	D	405	LEU
1	D	421	ASP

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Mol	Chain	Res	Type
1	D	422	THR
1	D	433	ASP
1	D	444	LEU
1	D	449	PHE
1	D	511	ARG
1	D	513	ARG
1	D	518	THR
1	D	529	GLN
1	D	541	LYS
1	D	546	THR
1	D	552	LEU
1	D	555	GLN
1	D	558	THR
1	D	588	GLU
1	E	14	ARG
1	E	15	PHE
1	E	24	GLU
1	E	30	LYS
1	E	31	ASN
1	E	33	LEU
1	E	37	ARG
1	E	45	LEU
1	E	56	GLN
1	E	69	SER
1	E	79	LEU
1	E	93	VAL
1	E	101	ASP
1	E	118	GLN
1	E	123	VAL
1	E	127	ARG
1	E	133	GLU
1	E	144	ILE
1	E	157	ILE
1	E	158	TRP
1	E	161	ASN
1	E	164	LEU
1	E	168	SER
1	E	174	THR
1	E	190	LYS
1	E	201	PHE
1	E	202	GLN
1	E	209	PHE

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Mol	Chain	Res	Type
1	E	211	TRP
1	E	218	GLN
1	E	234	ILE
1	E	246	TYR
1	E	248	LYS
1	E	265	LYS
1	E	266	ILE
1	E	273	ARG
1	E	275	ARG
1	E	286	VAL
1	E	293	ILE
1	E	301	VAL
1	E	325	ASP
1	E	327	GLN
1	E	343	ARG
1	E	356	ILE
1	E	359	PHE
1	E	376	ARG
1	E	384	LEU
1	E	387	GLN
1	E	389	LEU
1	E	405	LEU
1	E	421	ASP
1	E	422	THR
1	E	433	ASP
1	E	444	LEU
1	E	511	ARG
1	E	513	ARG
1	E	518	THR
1	E	520	VAL
1	E	529	GLN
1	E	541	LYS
1	E	546	THR
1	E	552	LEU
1	E	555	GLN
1	E	558	THR
1	E	588	GLU
1	F	14	ARG
1	F	15	PHE
1	F	24	GLU
1	F	30	LYS
1	F	31	ASN

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Mol	Chain	Res	Type
1	F	33	LEU
1	F	37	ARG
1	F	45	LEU
1	F	56	GLN
1	F	69	SER
1	F	79	LEU
1	F	93	VAL
1	F	101	ASP
1	F	118	GLN
1	F	123	VAL
1	F	127	ARG
1	F	133	GLU
1	F	144	ILE
1	F	157	ILE
1	F	158	TRP
1	F	161	ASN
1	F	164	LEU
1	F	168	SER
1	F	174	THR
1	F	190	LYS
1	F	201	PHE
1	F	202	GLN
1	F	209	PHE
1	F	211	TRP
1	F	218	GLN
1	F	234	ILE
1	F	246	TYR
1	F	248	LYS
1	F	265	LYS
1	F	266	ILE
1	F	273	ARG
1	F	275	ARG
1	F	286	VAL
1	F	293	ILE
1	F	301	VAL
1	F	325	ASP
1	F	327	GLN
1	F	343	ARG
1	F	356	ILE
1	F	359	PHE
1	F	376	ARG
1	F	384	LEU

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Mol	Chain	Res	Type
1	F	387	GLN
1	F	389	LEU
1	F	405	LEU
1	F	421	ASP
1	F	422	THR
1	F	433	ASP
1	F	444	LEU
1	F	511	ARG
1	F	513	ARG
1	F	518	THR
1	F	520	VAL
1	F	529	GLN
1	F	541	LYS
1	F	546	THR
1	F	552	LEU
1	F	555	GLN
1	F	558	THR
1	F	588	GLU
1	G	14	ARG
1	G	15	PHE
1	G	24	GLU
1	G	30	LYS
1	G	31	ASN
1	G	33	LEU
1	G	37	ARG
1	G	45	LEU
1	G	56	GLN
1	G	69	SER
1	G	79	LEU
1	G	93	VAL
1	G	101	ASP
1	G	118	GLN
1	G	123	VAL
1	G	127	ARG
1	G	133	GLU
1	G	144	ILE
1	G	157	ILE
1	G	158	TRP
1	G	161	ASN
1	G	164	LEU
1	G	168	SER
1	G	174	THR

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Mol	Chain	Res	Type
1	G	190	LYS
1	G	201	PHE
1	G	202	GLN
1	G	209	PHE
1	G	211	TRP
1	G	218	GLN
1	G	234	ILE
1	G	246	TYR
1	G	248	LYS
1	G	265	LYS
1	G	266	ILE
1	G	273	ARG
1	G	275	ARG
1	G	286	VAL
1	G	293	ILE
1	G	301	VAL
1	G	325	ASP
1	G	327	GLN
1	G	343	ARG
1	G	356	ILE
1	G	359	PHE
1	G	376	ARG
1	G	384	LEU
1	G	387	GLN
1	G	389	LEU
1	G	405	LEU
1	G	421	ASP
1	G	422	THR
1	G	433	ASP
1	G	444	LEU
1	G	511	ARG
1	G	513	ARG
1	G	518	THR
1	G	520	VAL
1	G	529	GLN
1	G	541	LYS
1	G	546	THR
1	G	552	LEU
1	G	555	GLN
1	G	558	THR
1	G	588	GLU
1	H	14	ARG

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Mol	Chain	Res	Type
1	H	15	PHE
1	H	24	GLU
1	H	30	LYS
1	H	31	ASN
1	H	33	LEU
1	H	37	ARG
1	H	45	LEU
1	H	56	GLN
1	H	69	SER
1	H	79	LEU
1	H	93	VAL
1	H	101	ASP
1	H	118	GLN
1	H	123	VAL
1	H	127	ARG
1	H	133	GLU
1	H	144	ILE
1	H	157	ILE
1	H	158	TRP
1	H	161	ASN
1	H	164	LEU
1	H	168	SER
1	H	174	THR
1	H	190	LYS
1	H	201	PHE
1	H	202	GLN
1	H	209	PHE
1	H	211	TRP
1	H	218	GLN
1	H	234	ILE
1	H	246	TYR
1	H	248	LYS
1	H	265	LYS
1	H	266	ILE
1	H	273	ARG
1	H	275	ARG
1	H	286	VAL
1	H	293	ILE
1	H	301	VAL
1	H	325	ASP
1	H	327	GLN
1	H	343	ARG

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Mol	Chain	Res	Type
1	H	356	ILE
1	H	359	PHE
1	H	376	ARG
1	H	384	LEU
1	H	387	GLN
1	H	389	LEU
1	H	405	LEU
1	H	421	ASP
1	H	422	THR
1	H	433	ASP
1	H	444	LEU
1	H	511	ARG
1	H	513	ARG
1	H	518	THR
1	H	529	GLN
1	H	541	LYS
1	H	546	THR
1	H	552	LEU
1	H	555	GLN
1	H	558	THR
1	H	588	GLU
1	I	14	ARG
1	I	15	PHE
1	I	24	GLU
1	I	30	LYS
1	I	31	ASN
1	I	33	LEU
1	I	37	ARG
1	I	45	LEU
1	I	56	GLN
1	I	69	SER
1	I	79	LEU
1	I	93	VAL
1	I	101	ASP
1	I	118	GLN
1	I	123	VAL
1	I	127	ARG
1	I	133	GLU
1	I	144	ILE
1	I	157	ILE
1	I	158	TRP
1	I	161	ASN

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Mol	Chain	Res	Type
1	I	164	LEU
1	I	168	SER
1	I	174	THR
1	I	190	LYS
1	I	201	PHE
1	I	202	GLN
1	I	209	PHE
1	I	211	TRP
1	I	218	GLN
1	I	234	ILE
1	I	246	TYR
1	I	248	LYS
1	I	265	LYS
1	I	266	ILE
1	I	273	ARG
1	I	275	ARG
1	I	286	VAL
1	I	293	ILE
1	I	301	VAL
1	I	325	ASP
1	I	327	GLN
1	I	343	ARG
1	I	356	ILE
1	I	359	PHE
1	I	376	ARG
1	I	384	LEU
1	I	387	GLN
1	I	389	LEU
1	I	405	LEU
1	I	421	ASP
1	I	422	THR
1	I	433	ASP
1	I	444	LEU
1	I	511	ARG
1	I	513	ARG
1	I	518	THR
1	I	529	GLN
1	I	541	LYS
1	I	546	THR
1	I	552	LEU
1	I	555	GLN
1	I	558	THR

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Mol	Chain	Res	Type
1	I	588	GLU
1	J	14	ARG
1	J	15	PHE
1	J	24	GLU
1	J	30	LYS
1	J	31	ASN
1	J	33	LEU
1	J	37	ARG
1	J	45	LEU
1	J	56	GLN
1	J	69	SER
1	J	79	LEU
1	J	93	VAL
1	J	101	ASP
1	J	118	GLN
1	J	123	VAL
1	J	127	ARG
1	J	133	GLU
1	J	144	ILE
1	J	157	ILE
1	J	158	TRP
1	J	161	ASN
1	J	164	LEU
1	J	168	SER
1	J	174	THR
1	J	190	LYS
1	J	201	PHE
1	J	202	GLN
1	J	209	PHE
1	J	211	TRP
1	J	218	GLN
1	J	234	ILE
1	J	246	TYR
1	J	248	LYS
1	J	265	LYS
1	J	266	ILE
1	J	273	ARG
1	J	275	ARG
1	J	286	VAL
1	J	293	ILE
1	J	301	VAL
1	J	325	ASP

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Mol	Chain	Res	Type
1	J	327	GLN
1	J	343	ARG
1	J	356	ILE
1	J	359	PHE
1	J	376	ARG
1	J	384	LEU
1	J	387	GLN
1	J	389	LEU
1	J	405	LEU
1	J	421	ASP
1	J	422	THR
1	J	433	ASP
1	J	444	LEU
1	J	511	ARG
1	J	513	ARG
1	J	518	THR
1	J	529	GLN
1	J	541	LYS
1	J	546	THR
1	J	552	LEU
1	J	555	GLN
1	J	558	THR
1	J	588	GLU
1	K	14	ARG
1	K	15	PHE
1	K	24	GLU
1	K	30	LYS
1	K	31	ASN
1	K	33	LEU
1	K	37	ARG
1	K	45	LEU
1	K	56	GLN
1	K	69	SER
1	K	79	LEU
1	K	93	VAL
1	K	101	ASP
1	K	118	GLN
1	K	123	VAL
1	K	127	ARG
1	K	133	GLU
1	K	144	ILE
1	K	157	ILE

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Mol	Chain	Res	Type
1	K	158	TRP
1	K	161	ASN
1	K	164	LEU
1	K	168	SER
1	K	174	THR
1	K	190	LYS
1	K	201	PHE
1	K	202	GLN
1	K	209	PHE
1	K	211	TRP
1	K	218	GLN
1	K	234	ILE
1	K	246	TYR
1	K	248	LYS
1	K	265	LYS
1	K	266	ILE
1	K	273	ARG
1	K	275	ARG
1	K	286	VAL
1	K	293	ILE
1	K	301	VAL
1	K	325	ASP
1	K	327	GLN
1	K	343	ARG
1	K	356	ILE
1	K	359	PHE
1	K	376	ARG
1	K	384	LEU
1	K	387	GLN
1	K	389	LEU
1	K	405	LEU
1	K	421	ASP
1	K	422	THR
1	K	433	ASP
1	K	444	LEU
1	K	511	ARG
1	K	513	ARG
1	K	518	THR
1	K	520	VAL
1	K	529	GLN
1	K	541	LYS
1	K	546	THR

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Mol	Chain	Res	Type
1	K	552	LEU
1	K	555	GLN
1	K	558	THR
1	K	588	GLU
1	L	14	ARG
1	L	15	PHE
1	L	24	GLU
1	L	30	LYS
1	L	31	ASN
1	L	33	LEU
1	L	37	ARG
1	L	45	LEU
1	L	56	GLN
1	L	69	SER
1	L	79	LEU
1	L	93	VAL
1	L	101	ASP
1	L	118	GLN
1	L	123	VAL
1	L	127	ARG
1	L	133	GLU
1	L	144	ILE
1	L	157	ILE
1	L	158	TRP
1	L	161	ASN
1	L	164	LEU
1	L	168	SER
1	L	174	THR
1	L	190	LYS
1	L	201	PHE
1	L	202	GLN
1	L	209	PHE
1	L	211	TRP
1	L	218	GLN
1	L	234	ILE
1	L	246	TYR
1	L	248	LYS
1	L	265	LYS
1	L	266	ILE
1	L	273	ARG
1	L	275	ARG
1	L	286	VAL

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Mol	Chain	Res	Type
1	L	293	ILE
1	L	301	VAL
1	L	325	ASP
1	L	327	GLN
1	L	343	ARG
1	L	356	ILE
1	L	359	PHE
1	L	376	ARG
1	L	384	LEU
1	L	387	GLN
1	L	389	LEU
1	L	405	LEU
1	L	421	ASP
1	L	422	THR
1	L	433	ASP
1	L	444	LEU
1	L	511	ARG
1	L	513	ARG
1	L	518	THR
1	L	529	GLN
1	L	541	LYS
1	L	546	THR
1	L	552	LEU
1	L	555	GLN
1	L	558	THR
1	L	588	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (298) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	31	ASN
1	A	56	GLN
1	A	73	GLN
1	A	118	GLN
1	A	161	ASN
1	A	202	GLN
1	A	214	GLN
1	A	218	GLN
1	A	236	GLN
1	A	291	GLN
1	A	297	HIS
1	A	327	GLN

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Mol	Chain	Res	Type
1	A	331	ASN
1	A	337	ASN
1	A	361	HIS
1	A	366	ASN
1	A	439	ASN
1	A	452	ASN
1	A	529	GLN
1	A	530	GLN
1	A	555	GLN
1	A	573	ASN
1	A	590	GLN
1	B	31	ASN
1	B	56	GLN
1	B	73	GLN
1	B	118	GLN
1	B	135	GLN
1	B	161	ASN
1	B	182	ASN
1	B	202	GLN
1	B	214	GLN
1	B	218	GLN
1	B	236	GLN
1	B	291	GLN
1	B	297	HIS
1	B	327	GLN
1	B	331	ASN
1	B	337	ASN
1	B	361	HIS
1	B	366	ASN
1	B	439	ASN
1	B	452	ASN
1	B	529	GLN
1	B	530	GLN
1	B	555	GLN
1	B	573	ASN
1	B	590	GLN
1	C	31	ASN
1	C	56	GLN
1	C	73	GLN
1	C	118	GLN
1	C	135	GLN
1	C	161	ASN

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Mol	Chain	Res	Type
1	C	182	ASN
1	C	202	GLN
1	C	214	GLN
1	C	218	GLN
1	C	236	GLN
1	C	291	GLN
1	C	297	HIS
1	C	327	GLN
1	C	331	ASN
1	C	337	ASN
1	C	361	HIS
1	C	366	ASN
1	C	439	ASN
1	C	450	GLN
1	C	452	ASN
1	C	529	GLN
1	C	530	GLN
1	C	555	GLN
1	C	573	ASN
1	C	590	GLN
1	D	31	ASN
1	D	56	GLN
1	D	73	GLN
1	D	118	GLN
1	D	135	GLN
1	D	161	ASN
1	D	182	ASN
1	D	202	GLN
1	D	214	GLN
1	D	218	GLN
1	D	236	GLN
1	D	291	GLN
1	D	297	HIS
1	D	327	GLN
1	D	331	ASN
1	D	337	ASN
1	D	361	HIS
1	D	366	ASN
1	D	439	ASN
1	D	450	GLN
1	D	452	ASN
1	D	529	GLN

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Mol	Chain	Res	Type
1	D	530	GLN
1	D	555	GLN
1	D	573	ASN
1	D	590	GLN
1	E	31	ASN
1	E	56	GLN
1	E	73	GLN
1	E	118	GLN
1	E	135	GLN
1	E	161	ASN
1	E	182	ASN
1	E	202	GLN
1	E	214	GLN
1	E	218	GLN
1	E	236	GLN
1	E	291	GLN
1	E	297	HIS
1	E	327	GLN
1	E	331	ASN
1	E	337	ASN
1	E	361	HIS
1	E	366	ASN
1	E	439	ASN
1	E	450	GLN
1	E	452	ASN
1	E	525	GLN
1	E	529	GLN
1	E	530	GLN
1	E	555	GLN
1	E	573	ASN
1	E	590	GLN
1	F	31	ASN
1	F	56	GLN
1	F	73	GLN
1	F	118	GLN
1	F	135	GLN
1	F	161	ASN
1	F	182	ASN
1	F	202	GLN
1	F	214	GLN
1	F	218	GLN
1	F	236	GLN

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Mol	Chain	Res	Type
1	F	291	GLN
1	F	297	HIS
1	F	327	GLN
1	F	331	ASN
1	F	337	ASN
1	F	361	HIS
1	F	366	ASN
1	F	439	ASN
1	F	452	ASN
1	F	529	GLN
1	F	530	GLN
1	F	555	GLN
1	F	573	ASN
1	F	590	GLN
1	G	31	ASN
1	G	56	GLN
1	G	73	GLN
1	G	118	GLN
1	G	135	GLN
1	G	161	ASN
1	G	182	ASN
1	G	202	GLN
1	G	214	GLN
1	G	218	GLN
1	G	236	GLN
1	G	291	GLN
1	G	297	HIS
1	G	327	GLN
1	G	331	ASN
1	G	337	ASN
1	G	439	ASN
1	G	450	GLN
1	G	452	ASN
1	G	529	GLN
1	G	530	GLN
1	G	555	GLN
1	G	573	ASN
1	G	590	GLN
1	H	31	ASN
1	H	56	GLN
1	H	73	GLN
1	H	118	GLN

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Mol	Chain	Res	Type
1	H	135	GLN
1	H	161	ASN
1	H	182	ASN
1	H	202	GLN
1	H	214	GLN
1	H	218	GLN
1	H	236	GLN
1	H	291	GLN
1	H	297	HIS
1	H	327	GLN
1	H	331	ASN
1	H	337	ASN
1	H	439	ASN
1	H	450	GLN
1	H	452	ASN
1	H	529	GLN
1	H	530	GLN
1	H	555	GLN
1	H	573	ASN
1	H	590	GLN
1	I	31	ASN
1	I	56	GLN
1	I	73	GLN
1	I	118	GLN
1	I	135	GLN
1	I	161	ASN
1	I	182	ASN
1	I	202	GLN
1	I	214	GLN
1	I	218	GLN
1	I	236	GLN
1	I	291	GLN
1	I	297	HIS
1	I	327	GLN
1	I	331	ASN
1	I	337	ASN
1	I	361	HIS
1	I	366	ASN
1	I	439	ASN
1	I	450	GLN
1	I	452	ASN
1	I	529	GLN

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Mol	Chain	Res	Type
1	I	530	GLN
1	I	555	GLN
1	I	573	ASN
1	I	590	GLN
1	J	31	ASN
1	J	56	GLN
1	J	73	GLN
1	J	118	GLN
1	J	135	GLN
1	J	161	ASN
1	J	182	ASN
1	J	202	GLN
1	J	214	GLN
1	J	218	GLN
1	J	236	GLN
1	J	291	GLN
1	J	297	HIS
1	J	327	GLN
1	J	331	ASN
1	J	337	ASN
1	J	439	ASN
1	J	450	GLN
1	J	452	ASN
1	J	529	GLN
1	J	530	GLN
1	J	555	GLN
1	J	573	ASN
1	J	590	GLN
1	K	31	ASN
1	K	56	GLN
1	K	73	GLN
1	K	118	GLN
1	K	135	GLN
1	K	161	ASN
1	K	182	ASN
1	K	202	GLN
1	K	214	GLN
1	K	218	GLN
1	K	236	GLN
1	K	291	GLN
1	K	297	HIS
1	K	327	GLN

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Mol	Chain	Res	Type
1	K	331	ASN
1	K	337	ASN
1	K	439	ASN
1	K	452	ASN
1	K	529	GLN
1	K	530	GLN
1	K	555	GLN
1	K	573	ASN
1	K	590	GLN
1	L	31	ASN
1	L	56	GLN
1	L	73	GLN
1	L	118	GLN
1	L	135	GLN
1	L	161	ASN
1	L	182	ASN
1	L	202	GLN
1	L	214	GLN
1	L	218	GLN
1	L	236	GLN
1	L	291	GLN
1	L	297	HIS
1	L	327	GLN
1	L	331	ASN
1	L	337	ASN
1	L	361	HIS
1	L	366	ASN
1	L	439	ASN
1	L	452	ASN
1	L	529	GLN
1	L	530	GLN
1	L	555	GLN
1	L	573	ASN
1	L	590	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

Unable to reproduce the depositors R factor - this section is therefore empty.

6.2 Non-standard residues in protein, DNA, RNA chains

Unable to reproduce the depositors R factor - this section is therefore empty.

6.3 Carbohydrates

Unable to reproduce the depositors R factor - this section is therefore empty.

6.4 Ligands

Unable to reproduce the depositors R factor - this section is therefore empty.

6.5 Other polymers

Unable to reproduce the depositors R factor - this section is therefore empty.