



Full wwPDB/EMDataBank EM Map/Model Validation Report ⓘ

Mar 2, 2017 – 11:57 am GMT

PDB ID : 3JCO
Title : Structure of yeast 26S proteasome in M1 state derived from Titan dataset
Authors : Luan, B.; Huang, X.L.; Wu, J.P.; Shi, Y.G.; Wang, F.
Deposited on : 2016-01-06
Resolution : 4.80 Å (reported)
Based on PDB ID : PDB entry 4CR4

This is a Full wwPDB/EMDataBank EM Map/Model Validation Report
for a publicly released PDB/EMDB entry.

We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<http://wwpdb.org/validation/2016/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

MolProbity : 4.02b-467
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : recalc29047

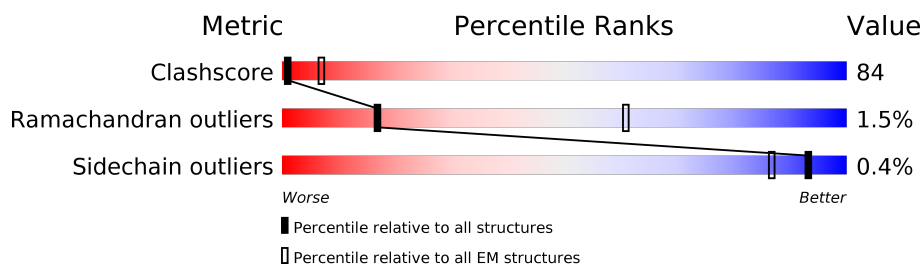
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.80 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.



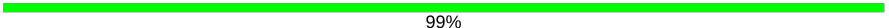




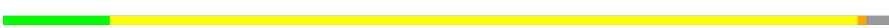











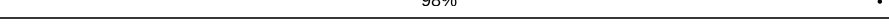





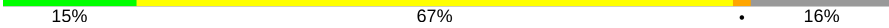

Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	125131	1336
Ramachandran outliers	121729	1120
Sidechain outliers	121581	1026

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	1	241	13% 79% 8%
1	8	241	14% 78% 8%
2	2	266	13% 74% 12%
2	9	266	15% 72% 12%
3	3	215	14% 80% 5%
3	h	215	95% 5%
4	4	261	13% 72% 15%
4	i	261	85% 15%
5	5	205	12% 87%

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Mol	Chain	Length	Quality of chain
5	j	205	 99%
6	6	198	 13% 85%
6	k	198	 97%
7	7	287	 12% 61% 26%
7	l	287	 73% 26%
8	A	252	 12% 84%
8	a	252	 95%
9	B	250	 15% 84%
9	b	250	 100%
10	C	258	 11% 82% 5%
10	c	258	 93% 5%
11	D	254	 17% 78% 5%
11	d	254	 95% 5%
12	E	260	 17% 74% 7%
12	e	260	 92% 7%
13	F	234	 11% 88%
13	f	234	 98%
14	G	288	 7% 76% 15%
14	g	288	 83% 15%
15	H	467	 13% 60% 24%
16	I	437	 13% 60% 26%
17	J	405	 19% 71% 8%
18	K	428	 15% 67% 16%
19	L	437	 12% 68% 18%
20	M	434	 15% 65% 18%

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Mol	Chain	Length	Quality of chain
21	N	945	<div><div></div><div>11%76%10%</div></div>
22	O	393	<div><div></div><div>12%73%8%.</div></div>
23	P	445	<div><div></div><div>8%80%8%.</div></div>
24	Q	434	<div><div></div><div>12%85%.</div></div>
25	R	429	<div><div></div><div>6%79%8%7%</div></div>
26	S	523	<div><div></div><div>13%64%7%16%</div></div>
27	T	274	<div><div></div><div>10%85%.</div></div>
28	U	338	<div><div></div><div>8%62%.25%</div></div>
29	V	306	<div><div></div><div>11%64%5%20%</div></div>
30	W	268	<div><div></div><div>9%60%.26%</div></div>
31	X	156	<div><div></div><div>17%58%.19%</div></div>
32	Y	89	<div><div></div><div>10%26%.62%</div></div>
33	Z	993	<div><div></div><div>19%56%.23%</div></div>

2 Entry composition

There are 33 unique types of molecules in this entry. The entry contains 104317 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 Proteasome subunit beta type-6.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	1	222	Total	C	N	O	S	0	0
			1757	1115	303	335	4		
1	8	222	Total	C	N	O	S	0	0
			1757	1115	303	335	4		

- Molecule 2 is a protein called Proteasome subunit beta type-7.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	2	233	Total	C	N	O	S	0	0
			1824	1154	312	351	7		
2	9	233	Total	C	N	O	S	0	0
			1824	1154	312	351	7		

- Molecule 3 is a protein called Proteasome subunit beta type-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	3	205	Total	C	N	O	S	0	0
			1574	995	261	311	7		
3	h	205	Total	C	N	O	S	0	0
			1574	995	261	311	7		

- Molecule 4 is a protein called Proteasome subunit beta type-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	4	222	Total	C	N	O	S	0	0
			1684	1061	293	323	7		
4	i	222	Total	C	N	O	S	0	0
			1684	1061	293	323	7		

- Molecule 5 is a protein called Proteasome subunit beta type-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	5	204	Total	C	N	O	S	0	0
			1581	1010	258	305	8		
5	j	204	Total	C	N	O	S	0	0
			1581	1010	258	305	8		

- Molecule 6 is a protein called Proteasome subunit beta type-4.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	6	198	Total	C	N	O	S	0	0
			1585	1005	269	305	6		
6	k	198	Total	C	N	O	S	0	0
			1585	1005	269	305	6		

- Molecule 7 is a protein called Proteasome subunit beta type-5.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	7	212	Total	C	N	O	S	0	0
			1644	1045	280	312	7		
7	l	212	Total	C	N	O	S	0	0
			1644	1045	280	312	7		

- Molecule 8 is a protein called Proteasome subunit alpha type-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	A	243	Total	C	N	O	S	0	0
			1921	1221	322	370	8		
8	a	243	Total	C	N	O	S	0	0
			1921	1221	322	370	8		

- Molecule 9 is a protein called Proteasome subunit alpha type-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	B	250	Total	C	N	O	S	0	0
			1915	1219	315	377	4		
9	b	250	Total	C	N	O	S	0	0
			1915	1219	315	377	4		

- Molecule 10 is a protein called Proteasome subunit alpha type-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	C	244	Total	C	N	O	S	0	0
			1904	1201	321	379	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
10	c	244	Total	C	N	O	S	0	0
			1904	1201	321	379	3		

- Molecule 11 is a protein called Proteasome subunit alpha type-4.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	D	241	Total	C	N	O	S	0	0
			1890	1181	331	374	4		
11	d	241	Total	C	N	O	S	0	0
			1890	1181	331	374	4		

- Molecule 12 is a protein called Proteasome subunit alpha type-5.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	E	242	Total	C	N	O	S	0	0
			1861	1162	314	378	7		
12	e	242	Total	C	N	O	S	0	0
			1861	1162	314	378	7		

- Molecule 13 is a protein called Proteasome subunit alpha type-6.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	F	233	Total	C	N	O	S	0	0
			1795	1129	312	350	4		
13	f	233	Total	C	N	O	S	0	0
			1795	1129	312	350	4		

- Molecule 14 is a protein called Probable proteasome subunit alpha type-7.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	G	244	Total	C	N	O	S	0	0
			1896	1205	330	357	4		
14	g	244	Total	C	N	O	S	0	0
			1896	1205	330	357	4		

- Molecule 15 is a protein called 26S protease regulatory subunit 7 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	H	356	Total	C	N	O	S	0	0
			2771	1744	496	516	15		

- Molecule 16 is a protein called 26S protease regulatory subunit 4 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	I	325	Total	C	N	O	S	0	0
			2513	1573	424	503	13		

- Molecule 17 is a protein called 26S protease regulatory subunit 8 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	J	373	Total	C	N	O	S	0	0
			2928	1837	527	547	17		

- Molecule 18 is a protein called 26S protease regulatory subunit 6B homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	K	361	Total	C	N	O	S	0	0
			2849	1788	506	545	10		

- Molecule 19 is a protein called 26S protease subunit RPT4.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	L	358	Total	C	N	O	S	0	0
			2829	1782	501	534	12		

- Molecule 20 is a protein called 26S protease regulatory subunit 6A.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	M	357	Total	C	N	O	S	0	0
			2754	1723	473	548	10		

- Molecule 21 is a protein called 26S proteasome regulatory subunit RPN2.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	N	849	Total	C	N	O	S	0	0
			6562	4174	1099	1261	28		

- Molecule 22 is a protein called 26S proteasome regulatory subunit RPN9.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	O	376	Total	C	N	O	S	0	0
			3083	1991	497	586	9		

- Molecule 23 is a protein called 26S proteasome regulatory subunit RPN5.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	P	431	Total	C	N	O	S	0	0
			3470	2210	585	667	8		

- Molecule 24 is a protein called 26S proteasome regulatory subunit RPN6.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	Q	431	Total	C	N	O	S	0	0
			3471	2205	574	676	16		

- Molecule 25 is a protein called 26S proteasome regulatory subunit RPN7.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	R	400	Total	C	N	O	S	0	0
			3218	2051	527	630	10		

- Molecule 26 is a protein called 26S proteasome regulatory subunit RPN3.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	S	439	Total	C	N	O	S	0	0
			3357	2136	569	635	17		

- Molecule 27 is a protein called 26S proteasome regulatory subunit RPN12.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	T	267	Total	C	N	O	S	0	0
			2201	1410	350	435	6		

- Molecule 28 is a protein called 26S proteasome regulatory subunit RPN8.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	U	254	Total	C	N	O	S	0	0
			2034	1291	350	387	6		

- Molecule 29 is a protein called Ubiquitin carboxyl-terminal hydrolase RPN11.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	V	245	Total	C	N	O	S	0	0
			1912	1206	322	371	13		

- Molecule 30 is a protein called 26S proteasome regulatory subunit RPN10.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	W	197	Total	C	N	O	S	0	0
			1534	962	269	300	3		

- Molecule 31 is a protein called 26S proteasome regulatory subunit RPN13.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	X	127	Total	C	N	O	S	0	0
			1032	664	169	195	4		

- Molecule 32 is a protein called 26S proteasome complex subunit SEM1.

Mol	Chain	Residues	Atoms				AltConf	Trace
32	Y	34	Total	C	N	O	0	0
			243	146	45	52		

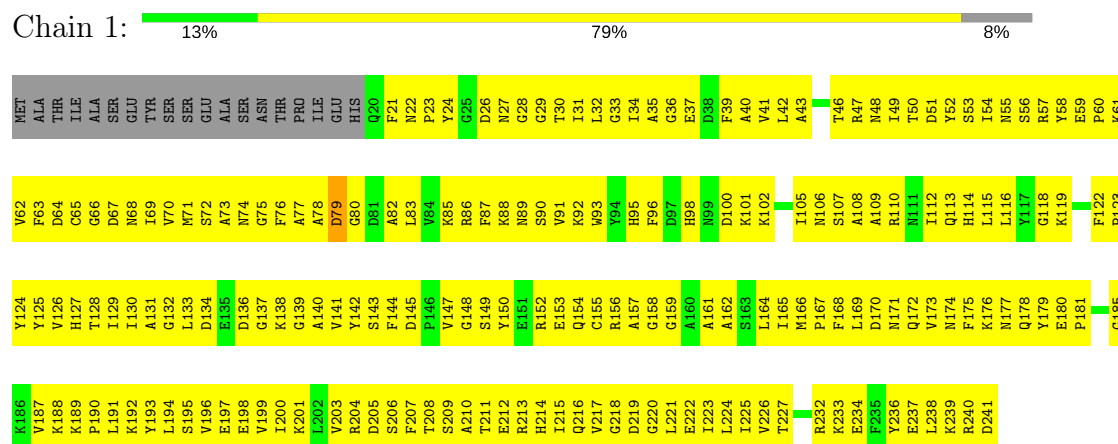
- Molecule 33 is a protein called 26S proteasome regulatory subunit RPN1.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	Z	763	Total	C	N	O	S	0	0
			5894	3744	966	1156	28		

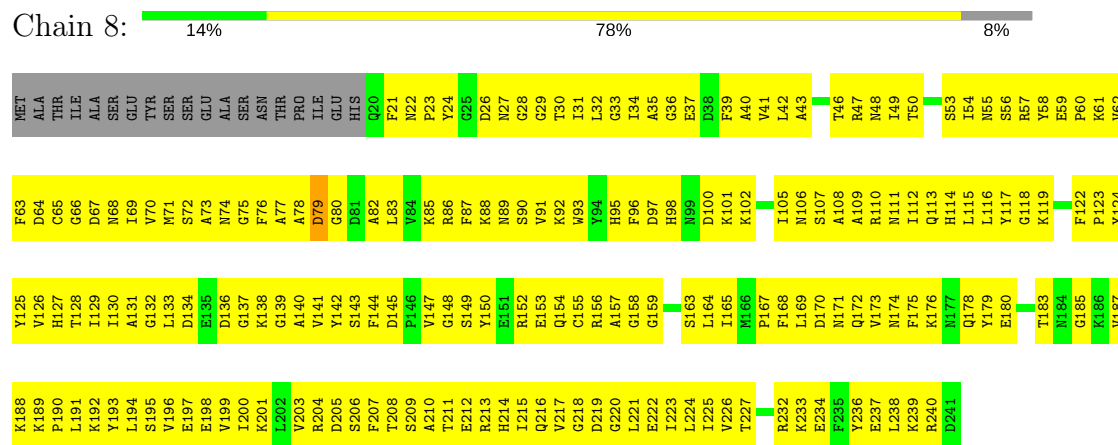
3 Residue-property plots

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.

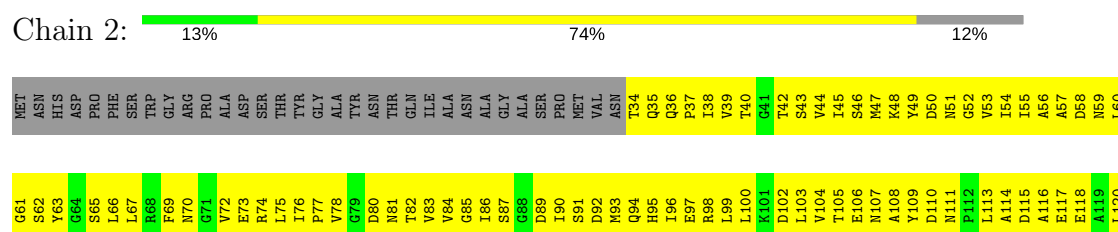
• Molecule 1: Proteasome subunit beta type-6

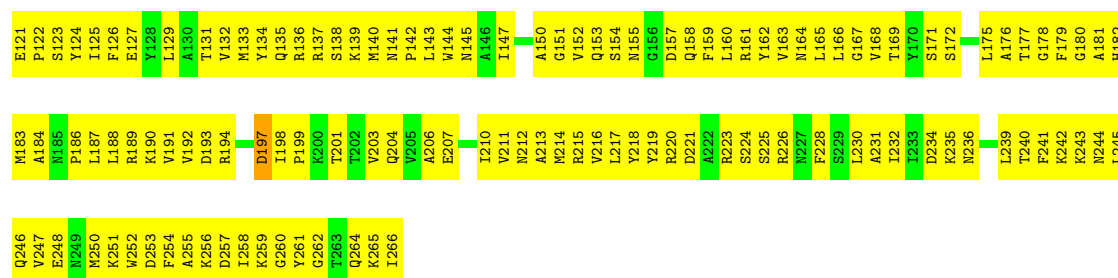


• Molecule 1: Proteasome subunit beta type-6



• Molecule 2: Proteasome subunit beta type-7

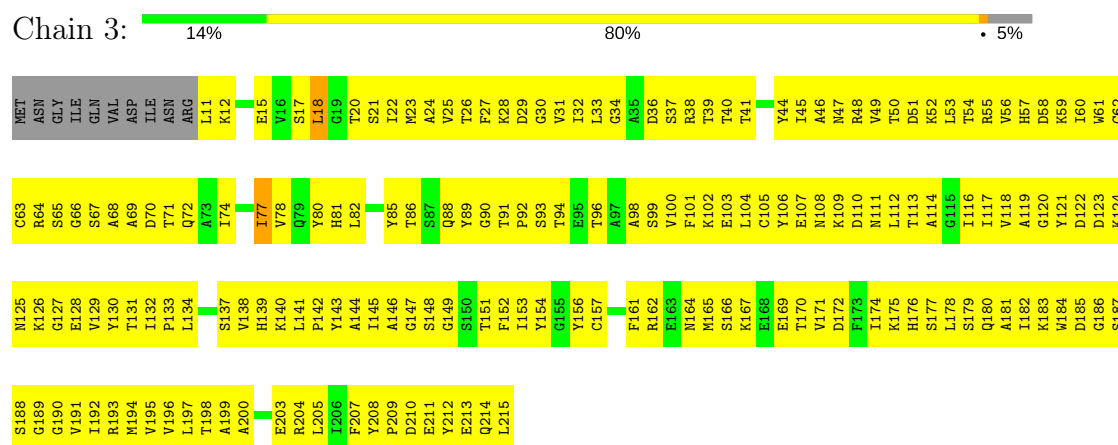




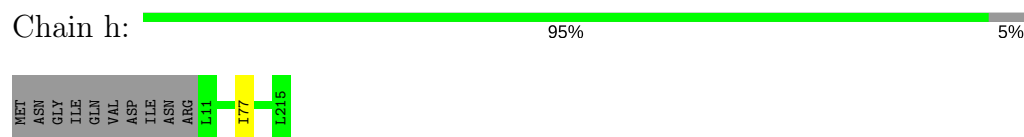
• Molecule 2: Proteasome subunit beta type-7



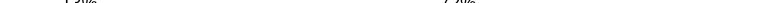
• Molecule 3: Proteasome subunit beta type-1

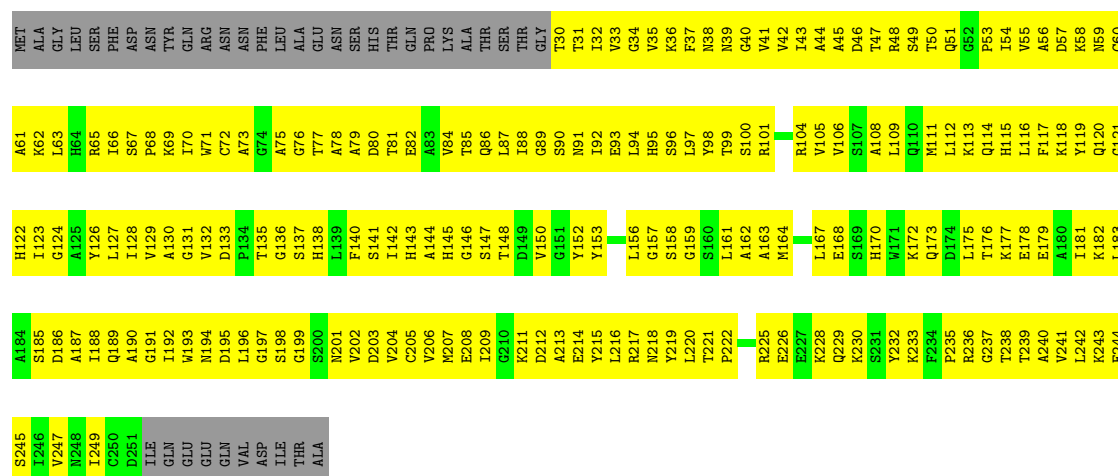


• Molecule 3: Proteasome subunit beta type-1




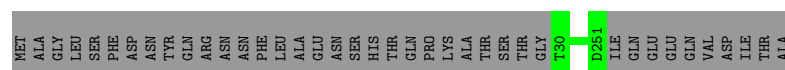
• Molecule 4: Proteasome subunit beta type-2

Chain 4:  13% 72% 15%



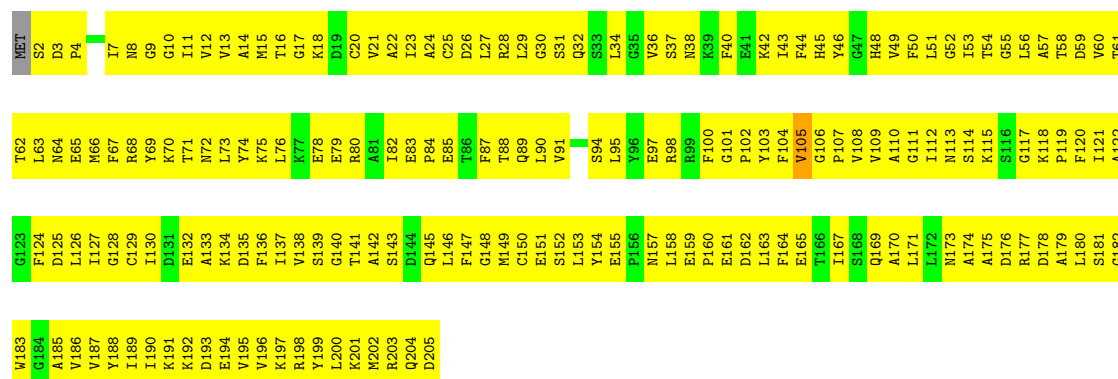
- Molecule 4: Proteasome subunit beta type-2

Chain i:  85% 15%



- Molecule 5: Proteasome subunit beta type-3

Chain 5: 12% 87%



- Molecule 5: Proteasome subunit beta type-3

Chain j:



- Molecule 6: Proteasome subunit beta type-4

Chain 6: 13% 85%



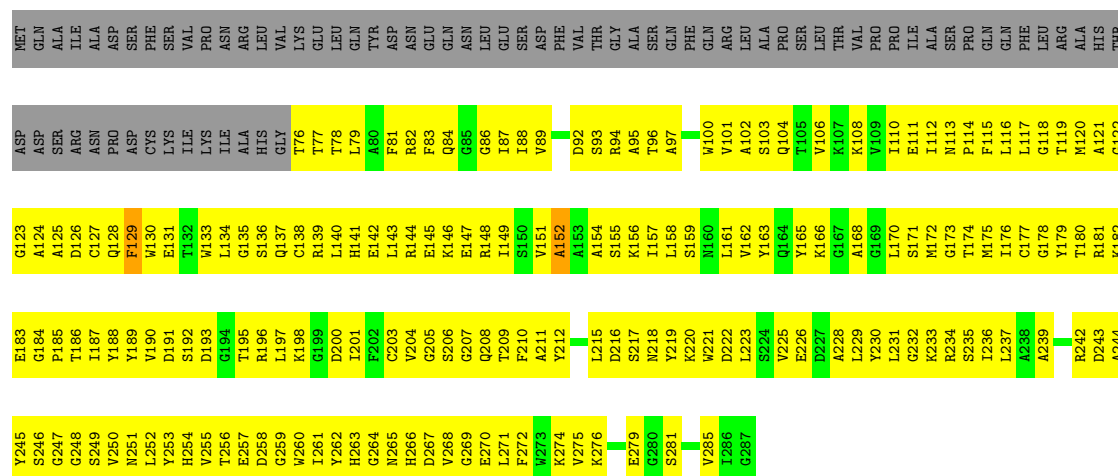
• Molecule 6: Proteasome subunit beta type-4

Chain k: 97%



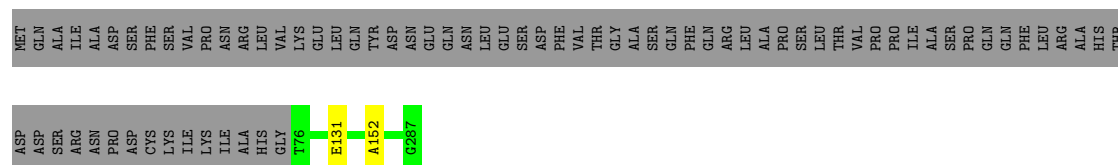
• Molecule 7: Proteasome subunit beta type-5

Chain 7: 12% 61% 26%



• Molecule 7: Proteasome subunit beta type-5

Chain l: 73% 26%



• Molecule 8: Proteasome subunit alpha type-1

Chain A: 12% 84%



• Molecule 8: Proteasome subunit alpha type-1

Chain a: 95%



• Molecule 9: Proteasome subunit alpha type-2

Chain B: 15%



• Molecule 9: Proteasome subunit alpha type-2

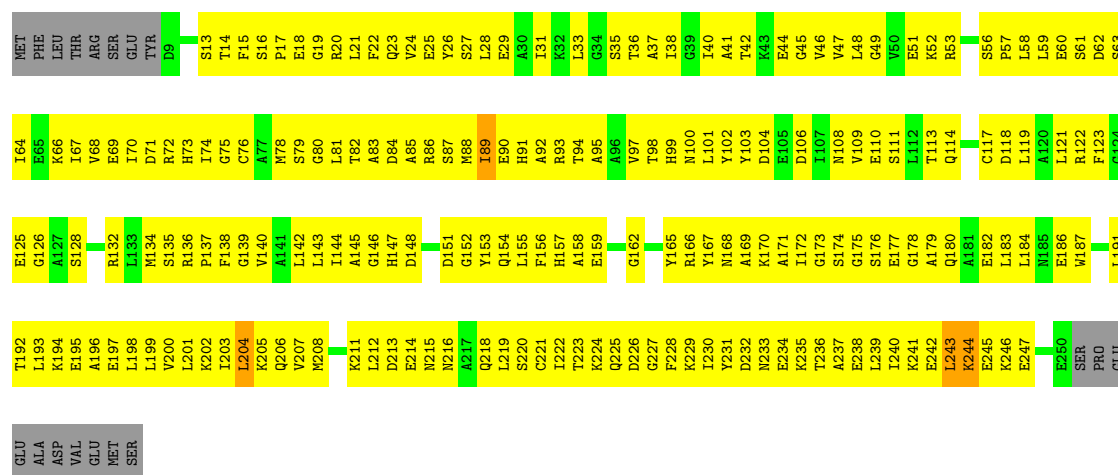
Chain b: 100%



• Molecule 10: Proteasome subunit alpha type-3

Chain C: 11%





• Molecule 12: Proteasome subunit alpha type-5

Chain e: 92% 7%



• Molecule 13: Proteasome subunit alpha type-6

Chain F: 11% 88%



• Molecule 13: Proteasome subunit alpha type-6

Chain f: 98%

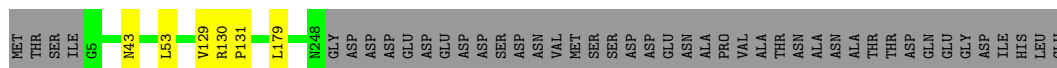
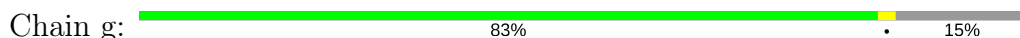


• Molecule 14: Probable proteasome subunit alpha type-7

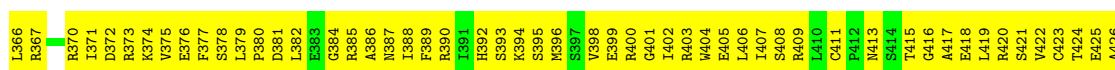
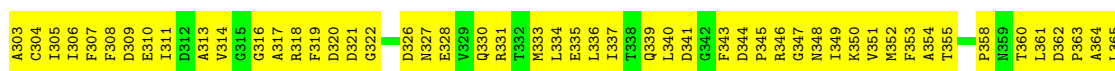
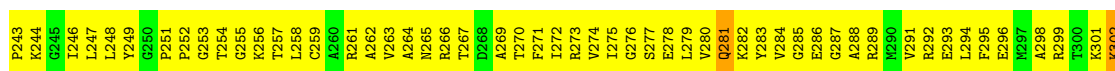
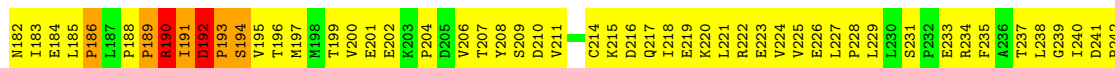
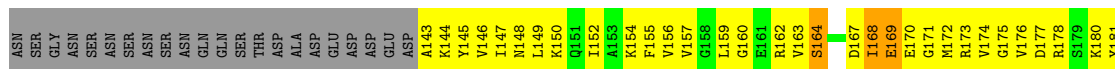
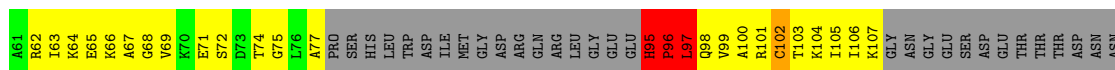
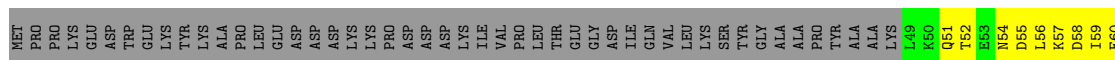
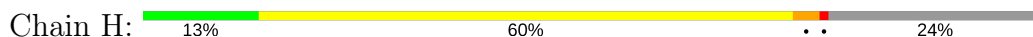
Chain G: 7% 76% 15%



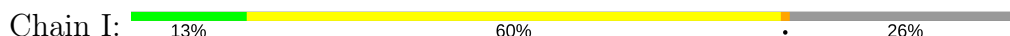
- Molecule 14: Probable proteasome subunit alpha type-7



- Molecule 15: 26S protease regulatory subunit 7 homolog



- Molecule 16: 26S protease regulatory subunit 4 homolog





T62	T125	E189	R252	V314	R374	T62	T125	E189	R252	V314	R374
L63	L126	L190	M253	L315	N375	L63	L126	L190	M253	L315	N375
Q64	D127	P191	V254	K316	D376	Q64	D127	P191	V254	K316	D376
E65	R128		R255	A317	S377	E65	R128		R255	A317	S377
D66	E129		D256	L378	L378	D66	E129		D256	L378	L378
Y67	L130		V257	N319	S379	Y67	L130		V257	N319	S379
T68	L131		F258	R320	G380	T68	L131		F258	R320	G380
K69	K132		R259	A321	A381	K69	K132		R259	A321	A381
D70			L260	D322	V382	D70			L260	D322	V382
E71	M135		A261	T323	L383	E71	M135		A261	T323	L383
Q72	L136		R262	L324	A384	Q72	L136		R262	L324	A384
R73	S136		E263	D325	A385	R73	S136		E263	D325	A385
H74	V137		N264	P326	I386	H74	V137		N264	P326	I386
L75	A138		A265	A327	M387	L75	A138		A265	A327	M387
	L139		P266	L328	Q388		L139		P266	L328	Q388
	H140		S267	L329	R389		H140		S267	L329	R389
	R141		I268	R330	A390		R141		I268	R330	A390
	H142		I269	P331	G391		H142		I269	P331	G391
	S143		G270	G332	L392		S143		G270	G332	L392
	N144		I271	R333	R393		N144		I271	R333	R393
	A145		D272	L334	A394		A145		D272	L334	A394
	L146		E273	D335	V395		L146		E273	D335	V395
	D147		V274	R336	R396		D147		V274	R336	R396
	E148		D275	K337	K397		E148		D275	K337	K397
	I149		S276	I338	N398		I149		S276	I338	N398
	E150		I277	E339	R399		E150		I277	E339	R399
	P151		A278	F340	Y400		P151		A278	F340	Y400
	P152		T279	P341	Y401		P152		T279	P341	Y401
	S154		K280	L342	I402		S154		K280	L342	I402
	D155		R281	S343	L403		D155		R281	S343	L403
	S156		T220	R344	Q404		S156		T220	R344	Q404
	S157		M221	D345	S405		S157		M221	D345	S405
	I158		D283	R346	D406		I158		D283	R346	D406
	P159		L222	R347	L407		P159		L222	R347	L407
	V160		Q285	E348	E408		V160		Q285	E348	E408
	M161		A225	R349	E409		M161		A225	R349	E409
	G162		V226	R350	A410		G162		V226	R350	A410
			E291	L351	Y411				E291	L351	Y411
			V292	I352	A412				V292	I352	A412
			Q293	F353					Q293	F353	
			R294	G354	V415				R294	G354	V415
			I295	T355					I295	T355	
			L296	I356	D418				L296	I356	D418
			I297	A357	ASN				I297	A357	ASN
			E298	S358	THR				E298	S358	THR
			L299	K359	VAL				L299	K359	VAL
			L300	K360	ASP				L300	K360	ASP
			T301	S361	LYS				T301	S361	LYS
			Q302	L362	PHE				Q302	L362	PHE
			M303	A363	ASP				M303	A363	ASP
			D304	F364	TYR				D304	F364	TYR
			G305	E365	LYS				G305	E365	LYS
			F306	A366					F306	A366	
			D307	D367					D307	D367	
			Q308	L368	LYS				Q308	L368	LYS
			S309	D369	ALA				S309	D369	ALA
			T310	S370	LEU				T310	S370	LEU
			N311	L371	ASN				N311	L371	ASN
			G250	I372	GLN				G250	I372	GLN
			K313	I373	PHE				K313	I373	PHE

• Molecule 19: 26S protease subunit RPT4

Chain L: 12% 68% 18%

MET	SER	GLU	GLY	GLN	ASP	PRO	LEU	LEU	LEU	LEU	LEU
ARG	K63	L64	S377	L378	S379	G380	A381	V382	L383	A384	A385
L65	L66	L67	L68	L69	L70	L71	L72	L73	L74	L75	L76
L77	L78	L79	L80	L81	L82	L83	L84	L85	L86	L87	L88
L89	L90	L91	L92	L93	L94	L95	L96	L97	L98	L99	L100
L101	L102	L103	L104	L105	L106	L107	L108	L109	L110	L111	L112
L113	L114	L115	L116	L117	L118	L119	L120	L121	L122	L123	L124
L125	L126	L127	L128	L129	L130	L131	L132	L133	L134	L135	L136
L137	L138	L139	L140	L141	L142	L143	L144	L145	L146	L147	L148
L149	L150	L151	L152	L153	L154	L155	L156	L157	L158	L159	L160
L161	L162	L163	L164	L165	L166	L167	L168	L169	L170	L171	L172
L173	L174	L175	L176	L177	L178	L179	L180	L181	L182	L183	L184
L185	L186	L187	L188	L189	L190	L191	L192	L193	L194	L195	L196
L197	L198	L199	L200	L201	L202	L203	L204	L205	L206	L207	L208
L209	L210	L211	L212	L213	L214	L215	L216	L217	L218	L219	L220
L221	L222	L223	L224	L225	L226	L227	L228	L229	L230	L231	L232
L233	L234	L235	L236	L237	L238	L239	L240	L241	L242	L243	L244
L245	L246	L247	L248	L249	L250	L251	L252	L253	L254	L255	L256
L257	L258	L259	L260	L261	L262	L263	L264	L265	L266	L267	L268
L269	L270	L271	L272	L273	L274	L275	L276	L277	L278	L279	L280
L281	L282	L283	L284	L285	L286	L287	L288	L289	L290	L291	L292
L293	L294	L295	L296	L297	L298	L299	L300	L301	L302	L303	L304
L305	L306	L307	L308	L309	L310	L311	L312	L313	L314	L315	L316
L317	L318	L319	L320	L321	L322	L323	L324	L325	L326	L327	L328
L329	L330	L331	L332	L333	L334	L335	L336	L337	L338	L339	L340
L341	L342	L343	L344	L345	L346	L347	L348	L349	L350	L351	L352
L353	L354	L355	L356	L357	L358	L359	L360	L361	L362	L363	L364
L365	L366	L367	L368	L369	L370	L371	L372	L373	L374	L375	L376
L377	L378	L379	L380	L381	L382	L383	L384	L385	L386	L387	L388
L389	L390	L391	L392	L393	L394	L395	L396	L397	L398	L399	L400
L401	L402	L403	L404	L405	L406	L407	L408	L409	L410	L411	L412
L413	L414	L415	L416	L417	L418	L419	L420	L421	L422	L423	L424
L425	L426	L427	L428	L429	L430	L431	L432	L433	L434	L435	L436
L437	L438	L439	L440	L441	L442	L443	L444	L445	L446	L447	L448
L449	L450	L451	L452	L453	L454	L455	L456	L457	L458	L459	L460
L461	L462	L463	L464	L465	L466	L467	L468	L469	L470	L471	L472
L473	L474	L475	L476	L477	L478	L479	L480	L481	L482	L483	L484
L485	L486	L487	L488	L489	L490	L491	L492	L493	L494	L495	L496
L497	L498	L499	L500	L501	L502	L503	L504	L505	L506	L507	L508
L509	L510	L511	L512	L513	L514	L515	L516	L517	L518	L519	L520
L521	L522	L523	L524	L525	L526	L527	L528	L529	L530	L531	L532
L533	L534	L535	L536	L537	L538	L539	L540	L541	L542	L543	L544
L545	L546	L547	L548	L549	L550	L551	L552	L553	L554	L555	L556
L557	L558	L559	L560	L561	L562	L563	L564	L565	L566	L567	L568
L569	L570	L571	L572	L573	L574	L575	L576	L577	L578	L579	L580
L581	L582	L583	L584	L585	L586	L587	L588	L589	L590	L591	L592
L593	L594	L595	L596	L597	L598	L599	L600	L601	L602	L603	L604
L605	L606	L607	L608	L609	L610	L611	L612	L613	L614	L615	L616
L617	L618	L619	L620	L621	L622	L623	L624	L625	L626	L627	L628
L629	L630	L631	L632	L633	L634	L635	L636	L637	L638	L639	L640
L641	L642	L643	L644	L645	L646	L647	L648	L649	L650	L651	L652
L653	L654	L655	L656	L657	L658	L659	L660	L661	L662	L663	L664
L665	L666	L667	L668	L669	L670	L671	L672	L673	L674	L675	L676
L677	L678	L679	L680	L681	L682	L683	L684	L685	L686	L687	L688
L689	L690	L691	L692	L693	L694	L695	L696	L697	L698	L699	L700
L701	L702	L703	L704	L705	L706	L707	L708	L709	L710	L711	L712
L713	L714	L715	L716	L717	L718	L719	L720	L721	L722	L723	L724
L725	L726	L727	L728	L729	L730	L731	L732	L733	L734	L735	L736
L737	L738	L739	L740	L741	L742	L743	L744	L745	L746	L747	L748
L749	L750	L751	L752	L753	L754	L755	L756	L757	L758	L759	L760
L761	L762	L763	L764	L765	L766	L767	L768	L769	L770	L771	L772
L773	L774	L775	L776	L777	L778	L779	L780	L781	L782	L783	L784
L785	L786	L787	L788	L789	L790	L791	L792	L793	L794	L795	L796
L797	L798	L799	L800	L801	L802	L803	L804	L805	L806	L807	L808
L809	L810	L811	L812	L813	L814	L815	L816	L817	L818	L819	L820
L821	L822	L823	L824	L825	L826	L827	L828	L829	L830	L831	L832
L833	L834	L835	L836	L837	L838	L839	L840	L841	L842	L843	L844
L845	L846	L847	L848	L849	L850	L851	L852	L853	L854	L855	L856
L857	L858	L859	L860	L861	L862	L863	L864	L865	L866	L867	L868
L869	L870	L871	L872	L873	L874	L875	L876	L877	L878	L879	L880





L423	E243	F303	L363	L423	R123
E424	L244	T304	R364	E424	V124
H425	Y245	T305	L365	H425	V125
L426	Y246	N306	L366	L426	L186
E427	T247	E307	E367	E427	T126
T428	D248	L308	L368	T428	S187
L429	K249	M309	L369	L429	N128
G430	L250	M310	D370	G430	K129
H431	K251	W311	L371	H431	L130
L432	S252	F312	E372	L432	F131
E433	D253	I313	T373	E433	V132
T434	E254	A11	E374	T434	Y193
K435	Q194	R12	S375	K435	V134
E436	K255	Q315	T376	E436	E135
E437	W257	K316	T377	E437	R136
I438	T258	T317	E377	I438	R137
M439	F259	Y318	T378	M439	L138
H440	V260	R320	E379	H440	Y139
G441	L261	V321	S381	G441	T140
L442	S262	L322	D382	L442	K141
GLN	H263	N323	L383	GLN	L142
ALA	L264	E324	V384	ALA	L143
LYS	V265	D325	N385	LYS	E145
	K266	D326	Q386		I146
	F267	L327	G387		T147
	L268	A328	T388		K148
	V269	F329	I389		E149
	N270	G330	L270		N210
	S271	G331	A391		E151
	P272	E332	L392		K152
	Y273	K333	K393		I153
	Q274	N334	K394		E154
	L275	K335	K395		E155
	L276	H336	P396		L216
	Q277	H337	A397		K217
	N278	W338	K398		K218
	D279	E339	I399		D158
	L280	D340	W400		I159
	L281	L341	M401		E219
	H282	Q342	F402		Y220
	K283	K343	E403		Y221
	L284	K344	K404		N222
	Q285	V345	F405		L223
	N286	K346	K406		L224
	D287	E347	M407		V225
	N288	H348	V408		E165
	N289	L349	S409		E166
	L290	L350	Q410		T167
	K291	R351	L411		Y168
	K292	L352	L412		G169
	L293	I353	M413		L229
	E294	E414	E415		K230
	S295	E515	N415		H231
	Q296	S416	Q54		R232
	E297	H417	E55		E233
	Y357	H418	T56		Y234
	S358	M419	S57		L235
	L299	V419	L58		E236
	K300	D420	L59		V237
	L301	E421	E123		I177
	L302	L422	E60		A238

• Molecule 24: 26S proteasome regulatory subunit RPN6

Chain Q:

12%

85%

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M1	L61	A125	K187	T251	L311	Q372	VAL
S2	G62	K126	L188	H252	L312	V373	LEU
L3	Q63	R189	M189	N253	D313	E374	TYR
P4	L64	E128	M190	S254	F314	G375	
G5	Y65	K129	Y255	L191	T315	K376	
S6	V66	R130	A192	E256	T316	L377	GLU
K7	T67	V131	K193	K257	A317	S378	LYS
L8	M68	F132	S194	A258	L318	Q379	SRR
E9	G69	L133	K195	C259		M380	
E10	A70	K134	A196	Q260	Y321	L381	GLN
A11	R71	H135	S197	V261	E322	L382	GLU
R12	D72	S136	L198	L262	K323	D383	GLU
K13	K73	L137	T199	K263	E324	K384	TVR
L14	L74	S138	A200	Y264	L325	I385	VAL
V15	R75	I139	A201	M265	M326	F386	ASP
N16	E76	K140	E202	L266	G327	Y387	PRO
E17	F77	L141	E205	L267	D328	G388	THR
K18	I78	A142		A206	S329	V389	VAL
Q19	P79	T143	T208		L390	L391	ASN
Y20	H80	L144			L392	D391	ARG
N21	S81	H145			R332	L393	VAL
A22	T82	Y146	T212	T213	S333	G393	PRO
E23	E83	Q147	Q213	Q214	H334	N394	N23
E24	Y84	K148	T214	T215	F335	G395	Y24
Q25	M85	K149	V215	A216	N336	W396	E25
V26	M86	Q150		E217	A337	L397	V26
Y27	Q87	Y151		L218	L338	F398	S27
L28	F88	S154		L219	Y339	Y399	E28
S29	A89	K155		D220	D340	Y400	K29
K90	K90	L156		L221	T341	E401	A30
L31	T93	L157		M221	L342	T402	F31
D32		L158		S222	L343	F403	L32
K33		I158		G223	E344	M404	L33
D34		L159		L224	S345	Q405	L34
S35		D160		K285	N346	D406	Q35
S36		L161		Y286	L347	A407	Q36
Q37		L162		T287	C348	T408	S37
S38		R163		C227	K349	Y409	V38
S39		E164		E228	I350	D410	S39
A40		F104		D229	L351	S411	T40
A41		E105		K230	E352	A412	E41
A42		K166		D231	P353	L413	Q42
A43		K167		Y232	F354	E414	Q43
G43		L168		K233	E355	L415	R43
A44		P108		T234	E356	V416	K44
S45		D109		A235	V357	G417	E45
V46		S110		F236	E358	Q418	A46
D47		P172		S237	L419	L419	A47
D48		D112		Y238	S359	N420	E48
K49		D113		F239	H361	K421	V50
R50		Q114		E240	I362	V422	L51
R51		I115		E241	S363	V423	A52
N52		F116		F242	K364	D424	K53
E53		V117		E243	I365	Q425	I54
Q54		C118		E244	L366	L426	K55
E55		E119		S245	A305	F427	E56
E56		K120		Y246	Y306	L367	E57
T56		S182		H247	N307	L368	E58
S57		K183		M248	N308	D369	E59
L58		I122		L249	R309	T370	
E60		E123		E185	E431	L59	
		F124			H186		

• Molecule 25: 26S proteasome regulatory subunit RPN7

Chain R:

6%

79%

8%

7%

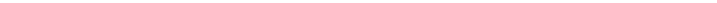
MET	VAL	ASP	VAL	GLU	GLU	LYS	SRR	GLN	GLU	VAL	GLU	TVR	VAL	ASP	PRO	THR	THR	VAL	ASN	ARG	VAL	PRO	N23	Y24	E25	V26	S27	E28	K29	A30	F31	L32	L33	T34	Q35	S36	K37	V38	S39	T40	E41	Q42	R43	K44	E45	A46	A47	E48	F49	V50	L51	A52	K53	I54	K55	E56	E57	E58	M59	A60
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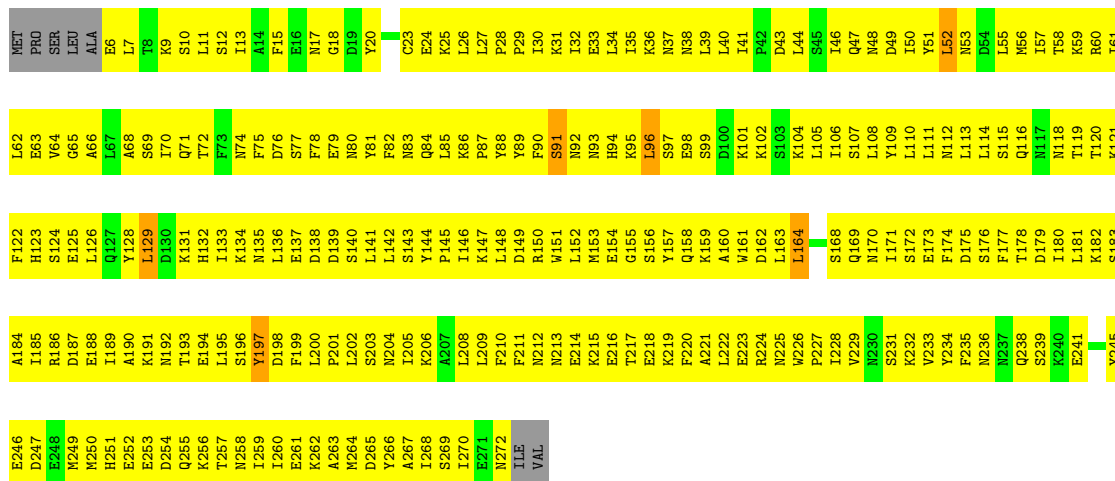
THR	D440	C380	I320	K256	H196	I134	T73	R422	A362	A302	E242	N182	E122	P61
LEU	G441	V381	Q321	L257	S197	N136	L74	LEU	F363	S303	L243	D183	D123	Y62
ASP	F442	R382	L322	E258	S198	C136	C75	THR	L364	Y304	T244	D184	D124	X64
GLY	I443	L383	L323	Y259	E199	F137	F76	GLY	F305	F306	S245	L185	X245	Y65
ASP	E444	R384	M324	E260	E200	H138	THR	SER	N366	Y307	E246	Y187	E127	L66
LEU	S385	G325	G325	H261	I201	H139	VAL	ASN	D367	L308	S248	K188	E128	C67
MET	T446	N386	D326	H261	N202	L140	ASN	ARG	L368	L309	S248	K188	E129	E68
ASP	E447	V387	I327	Y264	S203	L141	VAL	VAL	G369	L309	I249	K189	E129	E69
ASP							LEU	V10	K370	E310	A250	K190	Q130	Y70
MET	Y451						TYR	D11	F371	T311	T251	L191	A131	L71
SER	Y452						PRO	S12	L372	Y252	Y252	E192	Q132	
ASP	D453						ASP	S13	P373	A313	A253	A193	A133	
ILE	S454						SER	G14	N374	N314	S254	V194	W134	V72
SER	E455						SER	V15	K375	V315	V255	N195	I135	N74
ASP	D456						SER	N16	Q376	L316	T256	S196	N136	G75
LEU	P457						PHE	D17	L377	T317	G257	M197	L137	Q76
ASP	Q458						LYS	L18	N378	P318	L258	I198	G138	S77
ASP	Q459						LYS	H19	C379	C319	F259	E199	E139	D78
LEU	V460						ASN	H20	V380	K320	T260	K200	Y140	L79
GLY	F461						LEU	S21	I381	Y321	L261	G201	Y141	E80
PHE	D462						LEU	E22	D382	L322	E262	G202	A142	H81
ASP	E463						LYS	K23	R383	N323	R263	D203	Q143	D82
LEU	R464						PHE	K24	V384	R324	T264	W204	I144	X84
							ILE	Y25	N385	H325	D265	E205	G145	
							THR	A26	G386	A326	L266	R206	D146	
							SER	E27	I387	D327	K267	R207	K147	S87
							SER	E28	V388	F328	S268	N208	D148	L88
							ASN	D29	F389	F329	K269	R209	N149	N89
							LYS	Q30	N390	V330	V270	Y210	A150	E90
							SER	V31	N391	L271	K211	K211	E151	W91
							SER	Q32	R392	D272	T212	T212	K152	I92
							VAL	E33	P393	K333	T273	T213	T153	K93
							PRO	L34	D394	R334	T274	Y214	L154	F94
							GLY	L35	N395	K335	E275	G215	G155	D95
							SER	ALA	K396	V337	L276	T216	K156	Q96
							ALA	E40	N397	V337	L277	H217	E157	E97
							GLU	I41	A398	Y338	S278	C218	L158	L98
							LEU	S42	Q399	A339	L279	L219	S159	Y99
							ARG	K43	Y400	Q340	I280	A220	K160	N100
							ASN	T44	H401	L341	S281	V221	A161	E101
							SER	L46	L402	E343	T282	R222	I162	L102
							TYR	L45	L403	E343	T283	N223	S163	C103
							PRO	T47	V404	S344	A284	T224	T164	K104
							ALA	L48	K405	Y345	A285	K225	G165	K105
							SER	D49	Q406	K346	L286	E226	A166	N106
							PHE	P50	G407	T347	Q287	A227	K167	E107
							TYR	R51	D408	L348	S288	A228	I168	S108
							SER	Y52	G409	S349	I289	K229	D169	K109
							VAL	I53	L410	L350	S290	L230	V170	I110
							ASN	W54	L411	K351	S291	L231	M171	K111
							THR	R55	T412	S352	L292	V232	L172	E112
							GLU	S56	K413	N353	T293	D233	L173	L113
							LYS	L57	L414	A354	I294	S234	I174	N114
							K126	K58	L415	S355	S295	L235	A175	E115
								K416	A356	L296	A236	R176	K116	
								Y51	F357	Y297	T237	Y297	L177	I117
								S61	G418	A298	F238	F238	G178	Q118
								V130	L69	S299	T239	T239	F179	K119
								T131	A419	D300	S240	S240	F180	L120
								E133	E72	V361	Y301	L241	Y181	E121

• Molecule 26: 26S proteasome regulatory subunit RPN3

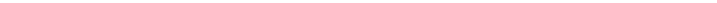
Chain S: 13% 64% 7% 16%

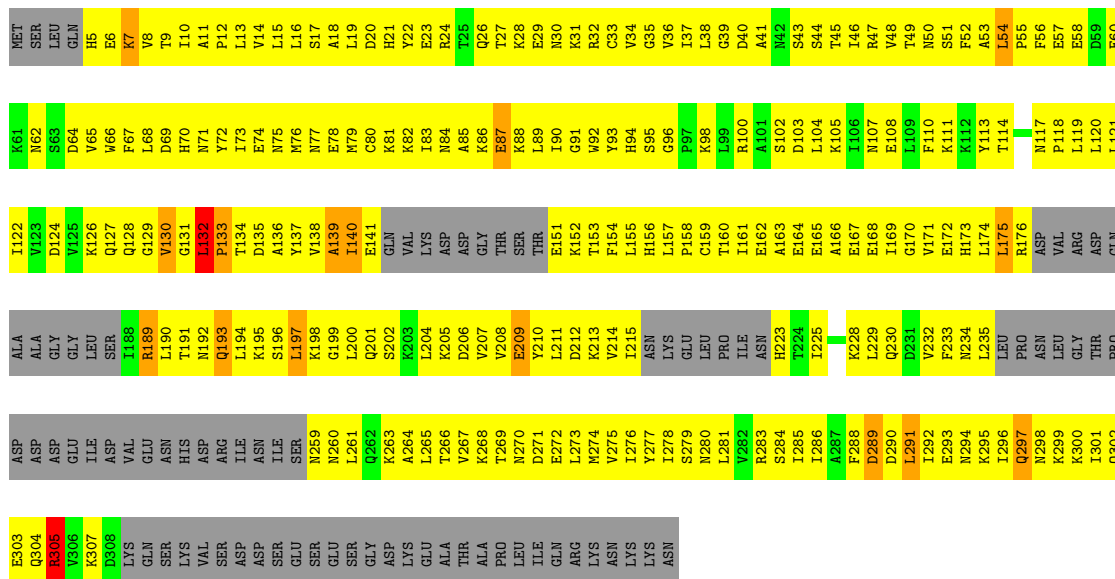
- Molecule 27: 26S proteasome regulatory subunit RPN12

Chain T:  10% 85% . .




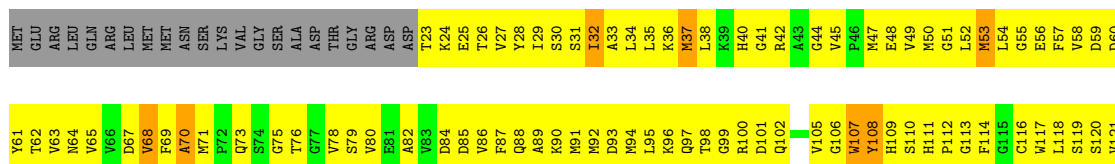
- Molecule 28: 26S proteasome regulatory subunit RPN8

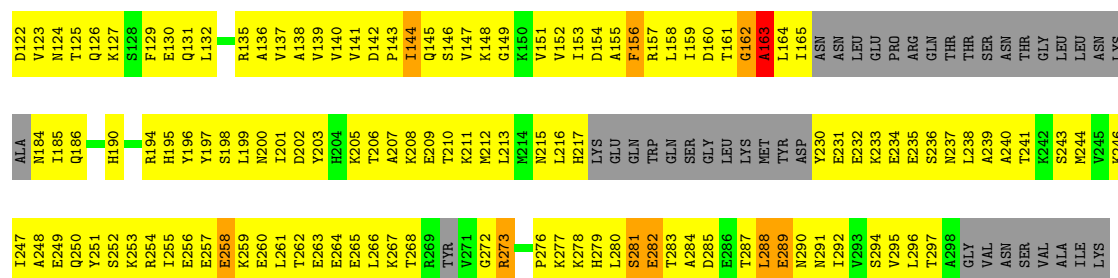
Chain U:  8% 62% . . 25%



- Molecule 29: Ubiquitin carboxyl-terminal hydrolase RPN11

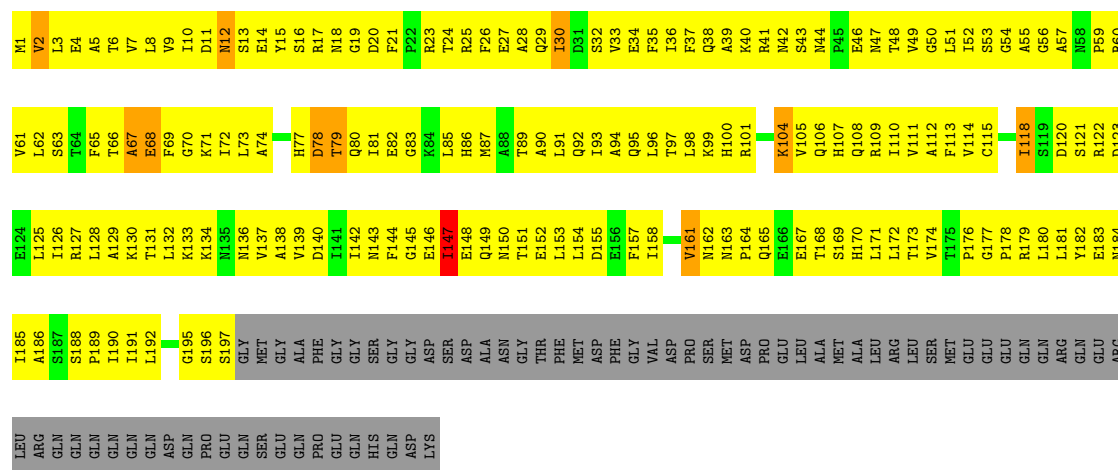
Chain V:  11% 64% 5% 20%





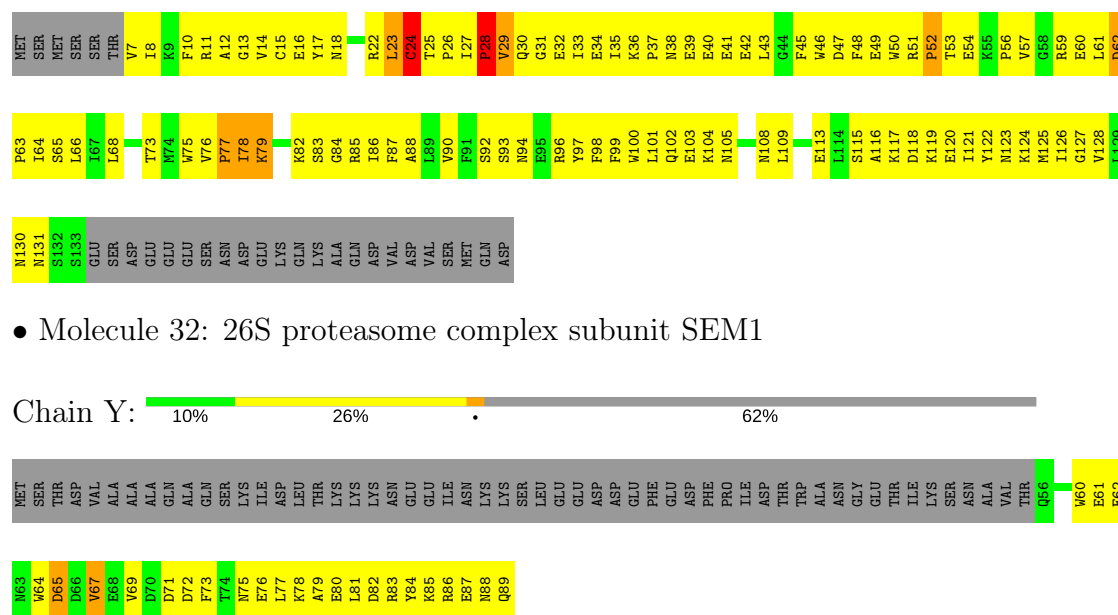
• Molecule 30: 26S proteasome regulatory subunit RPN10

Chain W: 9% 60% 26%



• Molecule 31: 26S proteasome regulatory subunit RPN13

Chain X: 17% 58% 19%



• Molecule 33: 26S proteasome regulatory subunit RPN1

Response	Percentage
Yes	19%
No	56%
Don't know	23%




4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of particles used	81782	Depositor
Resolution determination method	FSC 0.143	Depositor
CTF correction method	each micrograph	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	Not provided	Depositor
Minimum defocus (nm)	1.5	Depositor
Maximum defocus (nm)	2.5	Depositor
Magnification	75000	Depositor
Image detector	FEI FALCON II (4k x 4k)	Depositor

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	$\# Z > 2$	RMSZ	$\# Z > 2$
1	1	0.62	0/1795	0.67	0/2420
1	8	0.61	0/1795	0.67	0/2420
10	C	0.56	0/1934	0.63	0/2618
10	c	0.56	0/1934	0.63	0/2618
11	D	0.57	0/1919	0.64	0/2598
11	d	0.57	0/1919	0.64	0/2598
12	E	0.57	0/1886	0.67	0/2541
12	e	0.58	0/1886	0.69	1/2541 (0.0%)
13	F	0.57	0/1823	0.68	0/2463
13	f	0.57	0/1823	0.68	0/2463
14	G	0.60	0/1936	0.67	3/2614 (0.1%)
14	g	0.60	1/1936 (0.1%)	0.67	3/2614 (0.1%)
15	H	0.51	1/2810 (0.0%)	0.70	2/3780 (0.1%)
16	I	0.41	0/2543	0.63	1/3429 (0.0%)
17	J	0.50	2/2964 (0.1%)	0.68	3/3981 (0.1%)
18	K	0.49	1/2887 (0.0%)	0.69	0/3894
19	L	0.48	0/2870	0.65	1/3858 (0.0%)
2	2	0.62	0/1855	0.67	0/2514
2	9	0.62	0/1855	0.67	0/2514
20	M	0.44	0/2785	0.66	2/3763 (0.1%)
21	N	0.55	1/6670 (0.0%)	0.69	4/9023 (0.0%)
22	O	0.63	0/3142	0.87	6/4241 (0.1%)
23	P	0.64	0/3520	0.82	6/4752 (0.1%)
24	Q	0.59	1/3527 (0.0%)	0.68	2/4748 (0.0%)
25	R	0.61	0/3272	0.75	2/4412 (0.0%)
26	S	0.54	0/3410	0.78	3/4621 (0.1%)
27	T	0.58	0/2244	0.73	2/3029 (0.1%)
28	U	0.56	0/2059	0.78	5/2774 (0.2%)
29	V	0.57	1/1939 (0.1%)	0.81	2/2613 (0.1%)
3	3	0.64	0/1603	0.66	0/2168
3	h	0.64	0/1603	0.67	0/2168
30	W	0.49	0/1557	0.72	0/2111
31	X	0.48	1/1058 (0.1%)	0.68	1/1432 (0.1%)
32	Y	0.62	0/244	0.82	0/328

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >2	RMSZ	# Z >2
33	Z	0.37	1/6001 (0.0%)	0.61	1/8141 (0.0%)
4	4	0.59	0/1715	0.67	0/2326
4	i	0.59	0/1715	0.67	0/2326
5	5	0.60	0/1611	0.64	0/2174
5	j	0.60	0/1611	0.64	0/2174
6	6	0.60	0/1613	0.69	1/2173 (0.0%)
6	k	0.60	0/1613	0.69	1/2173 (0.0%)
7	7	0.60	0/1681	0.67	0/2274
7	l	0.61	0/1681	0.67	0/2274
8	A	0.60	0/1959	0.69	1/2652 (0.0%)
8	a	0.61	0/1959	0.71	2/2652 (0.1%)
9	B	0.56	1/1952 (0.1%)	0.64	0/2642
9	b	0.56	1/1952 (0.1%)	0.64	0/2642
All	All	0.56	12/106066 (0.0%)	0.69	55/143284 (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
10	C	0	1
10	c	0	1
13	F	0	1
13	f	0	1
15	H	0	10
16	I	0	2
17	J	0	3
18	K	0	4
19	L	0	4
20	M	0	4
21	N	0	11
22	O	0	22
23	P	0	17
24	Q	0	8
25	R	0	8
26	S	0	16
27	T	0	4
28	U	0	8
29	V	0	6
30	W	0	8
31	X	0	6

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Mol	Chain	#Chirality outliers	#Planarity outliers
32	Y	0	2
33	Z	0	5
6	6	0	1
6	k	0	1
8	A	0	1
8	a	0	1
All	All	0	156

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	V	107	TRP	CB-CG	-6.56	1.38	1.50
21	N	355	TRP	CB-CG	-5.89	1.39	1.50
24	Q	339	TYR	CE1-CZ	-5.77	1.31	1.38
9	B	159	TRP	CB-CG	-5.74	1.40	1.50
18	K	362	LEU	C-N	-5.73	1.20	1.34
9	b	159	TRP	CB-CG	-5.71	1.40	1.50
33	Z	468	GLU	C-N	-5.47	1.23	1.34
14	g	131	PRO	N-CD	5.26	1.55	1.47
15	H	96	PRO	N-CD	5.16	1.55	1.47
17	J	319	PRO	N-CD	5.11	1.55	1.47
17	J	318	PRO	N-CD	5.09	1.54	1.47
31	X	62	ASP	C-N	-5.01	1.24	1.34

All (55) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	S	155	LEU	CA-CB-CG	-10.11	92.05	115.30
25	R	309	LEU	CA-CB-CG	-9.51	93.44	115.30
23	P	412	LEU	CA-CB-CG	8.47	134.79	115.30
29	V	107	TRP	CB-CA-C	-8.08	94.25	110.40
29	V	70	ALA	C-N-CA	-7.60	102.71	121.70
24	Q	419	LEU	CA-CB-CG	-7.39	98.31	115.30
8	a	244	ARG	NE-CZ-NH1	-7.35	116.63	120.30
28	U	175	LEU	CA-CB-CG	6.69	130.69	115.30
22	O	225	ASP	CB-CG-OD1	6.38	124.04	118.30
20	M	158	THR	C-N-CA	-6.36	105.79	121.70
15	H	97	LEU	CB-CG-CD1	-6.34	100.23	111.00
22	O	254	LEU	CA-CB-CG	-6.29	100.83	115.30
26	S	402	ILE	N-CA-C	-6.26	94.11	111.00
17	J	316	PHE	C-N-CD	6.15	141.31	128.40
16	I	162	ASP	CB-CG-OD1	6.11	123.80	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	L	98	LEU	CA-CB-CG	-6.10	101.27	115.30
12	e	243	LEU	CA-CB-CG	6.09	129.31	115.30
14	G	130	ARG	C-N-CD	6.03	141.06	128.40
6	k	28	LEU	CA-CB-CG	-6.02	101.45	115.30
6	6	28	LEU	CA-CB-CG	-6.01	101.48	115.30
14	g	179	LEU	CA-CB-CG	-5.90	101.73	115.30
24	Q	191	LEU	CA-CB-CG	-5.90	101.73	115.30
14	G	179	LEU	CA-CB-CG	-5.89	101.76	115.30
21	N	609	LEU	CA-CB-CG	-5.84	101.87	115.30
22	O	352	TRP	C-N-CA	5.81	136.23	121.70
23	P	18	PRO	N-CA-CB	5.74	110.18	103.30
22	O	41	LEU	CB-CG-CD1	-5.66	101.39	111.00
23	P	422	LEU	CA-CB-CG	-5.64	102.32	115.30
22	O	222	LEU	CA-CB-CG	-5.64	102.33	115.30
14	g	130	ARG	C-N-CD	5.58	140.13	128.40
22	O	240	GLU	N-CA-C	5.57	126.04	111.00
21	N	163	LEU	CA-CB-CG	-5.48	102.70	115.30
28	U	289	ASP	N-CA-C	5.44	125.70	111.00
26	S	383	LEU	CA-CB-CG	-5.44	102.80	115.30
17	J	318	PRO	C-N-CD	5.41	139.76	128.40
27	T	129	LEU	CA-CB-CG	5.41	127.74	115.30
25	R	243	LEU	CA-CB-CG	-5.41	102.87	115.30
23	P	290	LEU	CA-CB-CG	5.38	127.67	115.30
20	M	156	LEU	CA-CB-CG	-5.33	103.03	115.30
33	Z	827	LEU	CB-CG-CD2	-5.27	102.04	111.00
14	g	53	LEU	CA-CB-CG	-5.27	103.19	115.30
14	G	53	LEU	CA-CB-CG	-5.26	103.20	115.30
23	P	401	ASN	C-N-CA	-5.26	108.56	121.70
8	a	46	ARG	NE-CZ-NH1	-5.25	117.67	120.30
8	A	46	ARG	NE-CZ-NH1	-5.24	117.68	120.30
21	N	745	LEU	CA-CB-CG	-5.21	103.31	115.30
28	U	54	LEU	CA-CB-CG	-5.18	103.39	115.30
15	H	95	HIS	C-N-CD	5.14	139.19	128.40
23	P	411	LEU	CA-CB-CG	5.11	127.05	115.30
28	U	289	ASP	C-N-CA	5.10	134.45	121.70
17	J	317	PRO	C-N-CD	5.10	139.10	128.40
31	X	53	THR	N-CA-C	-5.08	97.27	111.00
21	N	572	LEU	CA-CB-CG	-5.08	103.62	115.30
28	U	289	ASP	CB-CA-C	5.06	120.52	110.40
27	T	164	LEU	CA-CB-CG	-5.04	103.72	115.30

There are no chirality outliers.

All (156) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
6	6	196	GLN	Peptide
8	A	64	LEU	Peptide
10	C	221	ASN	Peptide
13	F	175	THR	Peptide
15	H	102	CYS	Peptide
15	H	164	SER	Peptide
15	H	169	GLU	Peptide
15	H	189	PRO	Peptide
15	H	190	ARG	Peptide
15	H	192	ASP	Peptide
15	H	193	PRO	Peptide
15	H	281	GLN	Peptide
15	H	302	LYS	Peptide
15	H	97	LEU	Peptide
16	I	125	MET	Peptide
16	I	134	SER	Peptide
17	J	257	ARG	Peptide
17	J	37	LYS	Peptide
17	J	38	THR	Peptide
18	K	151	PRO	Peptide
18	K	154	SER	Peptide
18	K	158	ILE	Peptide
18	K	318	THR	Peptide
19	L	161	ARG	Peptide
19	L	213	LYS	Peptide
19	L	296	SER	Peptide
19	L	407	ARG	Peptide
20	M	161	SER	Peptide
20	M	328	ASN	Peptide
20	M	386	PHE	Peptide
20	M	72	ASN	Peptide
21	N	196	THR	Peptide
21	N	217	MET	Peptide
21	N	248	GLU	Peptide
21	N	322	ASP	Peptide
21	N	323	GLY	Peptide
21	N	352	ASN	Peptide
21	N	663	ILE	Peptide
21	N	670	LYS	Peptide
21	N	693	GLY	Peptide
21	N	730	VAL	Peptide
21	N	778	LYS	Peptide

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Mol	Chain	Res	Type	Group
22	O	15	ARG	Peptide
22	O	16	MET	Peptide
22	O	164	PRO	Peptide
22	O	17	GLU	Peptide
22	O	21	SER	Peptide
22	O	223	LEU	Peptide
22	O	226	LYS	Peptide
22	O	240	GLU	Peptide
22	O	244	ASN	Peptide
22	O	299	THR	Peptide
22	O	301	PHE	Peptide
22	O	302	VAL	Peptide
22	O	309	SER	Peptide
22	O	310	PHE	Peptide
22	O	34	GLU	Peptide
22	O	41	LEU	Peptide
22	O	51	ASP	Peptide
22	O	53	LYS	Peptide
22	O	58	ARG	Peptide
22	O	75	GLN	Peptide
22	O	92	PHE	Peptide
22	O	98	TYR	Peptide
23	P	203	ILE	Peptide
23	P	211	PRO	Peptide
23	P	233	GLU	Peptide
23	P	248	ASP	Peptide
23	P	286	ASN	Peptide
23	P	308	LEU	Peptide
23	P	318	TYR	Peptide
23	P	320	PRO	Peptide
23	P	321	VAL	Peptide
23	P	325	ASP	Peptide
23	P	332	GLU	Peptide
23	P	391	ALA	Peptide
23	P	393	VAL	Peptide
23	P	400	VAL	Peptide
23	P	409	SER	Peptide
23	P	411	LEU	Peptide
23	P	86	HIS	Peptide
24	Q	107	VAL	Peptide
24	Q	124	PHE	Peptide
24	Q	128	GLU	Peptide

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Mol	Chain	Res	Type	Group
24	Q	129	LYS	Peptide
24	Q	133	LEU	Peptide
24	Q	254	SER	Peptide
24	Q	34	ASP	Peptide
24	Q	418	GLN	Peptide
25	R	223	ASN	Peptide
25	R	238	PHE	Peptide
25	R	240	SER	Peptide
25	R	329	PHE	Peptide
25	R	377	LEU	Peptide
25	R	380	VAL	Peptide
25	R	397	ASN	Peptide
25	R	94	PHE	Peptide
26	S	145	PHE	Peptide
26	S	146	LEU	Peptide
26	S	170	TYR	Peptide
26	S	200	GLU	Peptide
26	S	203	SER	Peptide
26	S	224	LYS	Peptide
26	S	227	ASN	Peptide
26	S	247	VAL	Peptide
26	S	258	GLU	Peptide
26	S	333	PHE	Peptide
26	S	337	ASN	Peptide
26	S	342	LEU	Peptide
26	S	401	LYS	Peptide
26	S	417	GLN	Peptide
26	S	436	ILE	Peptide
26	S	480	ARG	Peptide
27	T	197	TYR	Peptide
27	T	52	LEU	Peptide
27	T	91	SER	Peptide
27	T	96	LEU	Peptide
28	U	129	GLY	Peptide
28	U	132	LEU	Peptide
28	U	193	GLN	Peptide
28	U	197	LEU	Peptide
28	U	289	ASP	Peptide
28	U	305	ARG	Peptide
28	U	7	LYS	Peptide
28	U	87	GLU	Peptide
29	V	156	PHE	Peptide

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Mol	Chain	Res	Type	Group
29	V	161	THR	Peptide
29	V	162	GLY	Peptide
29	V	163	ALA	Peptide
29	V	273	ARG	Peptide
29	V	70	ALA	Peptide
30	W	104	LYS	Peptide
30	W	12	ASN	Peptide
30	W	146	GLU	Peptide
30	W	147	ILE	Peptide
30	W	161	VAL	Peptide
30	W	189	PRO	Peptide
30	W	2	VAL	Peptide
30	W	77	HIS	Peptide
31	X	23	LEU	Peptide
31	X	24	CYS	Peptide
31	X	28	PRO	Peptide
31	X	52	PRO	Peptide
31	X	77	PRO	Peptide
31	X	79	LYS	Peptide
32	Y	62	GLU	Peptide
32	Y	65	ASP	Peptide
33	Z	142	ASP	Peptide
33	Z	205	LEU	Peptide
33	Z	276	ASN	Peptide
33	Z	497	PHE	Peptide
33	Z	574	TYR	Peptide
8	a	64	LEU	Peptide
10	c	221	ASN	Peptide
13	f	175	THR	Peptide
6	k	196	GLN	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	1	1757	0	1708	320	0
1	8	1757	0	1708	308	0
2	2	1824	0	1829	330	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	9	1824	0	1829	323	0
3	3	1574	0	1547	296	0
3	h	1574	0	1547	0	0
4	4	1684	0	1685	329	0
4	i	1684	0	1685	0	0
5	5	1581	0	1571	310	0
5	j	1581	0	1571	0	0
6	6	1585	0	1590	307	0
6	k	1585	0	1590	0	0
7	7	1644	0	1592	299	0
7	l	1644	0	1592	0	0
8	A	1921	0	1910	403	0
8	a	1921	0	1910	0	0
9	B	1915	0	1929	361	0
9	b	1915	0	1929	0	0
10	C	1904	0	1901	389	0
10	c	1904	0	1901	0	0
11	D	1890	0	1900	382	0
11	d	1890	0	1900	0	0
12	E	1861	0	1836	413	0
12	e	1861	0	1836	0	0
13	F	1795	0	1797	444	0
13	f	1795	0	1797	0	0
14	G	1896	0	1886	535	0
14	g	1896	0	1886	0	0
15	H	2771	0	2866	574	0
16	I	2513	0	2564	480	0
17	J	2928	0	3057	546	0
18	K	2849	0	2928	567	0
19	L	2829	0	2902	570	0
20	M	2754	0	2799	553	0
21	N	6562	0	6625	1318	0
22	O	3083	0	3099	843	0
23	P	3470	0	3500	924	0
24	Q	3471	0	3495	791	0
25	R	3218	0	3211	823	0
26	S	3357	0	3180	853	0
27	T	2201	0	2167	478	0
28	U	2034	0	2072	563	0
29	V	1912	0	1906	541	0
30	W	1534	0	1542	359	0
31	X	1032	0	1017	165	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
32	Y	243	0	182	47	0
33	Z	5894	0	5828	866	0
All	All	104317	0	104302	15935	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 84.

All (15935) 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)
22:O:11:LEU:CD2	22:O:14:LEU:HD12	1.22	1.64
22:O:11:LEU:CD2	22:O:14:LEU:CD1	1.80	1.58
16:I:249:GLY:CA	16:I:252:LEU:HD11	1.08	1.55
24:Q:413:LEU:CD1	25:R:406:GLN:HG3	1.33	1.53
26:S:471:LEU:HD22	28:U:292:ILE:CD1	1.38	1.52
33:Z:369:PHE:CE2	33:Z:859:LYS:HE3	1.41	1.51
16:I:249:GLY:C	16:I:252:LEU:HD11	1.22	1.47
28:U:276:ILE:HG12	29:V:291:ASN:ND2	1.22	1.45
18:K:343:LEU:CD2	18:K:344:ARG:H	1.30	1.45
16:I:249:GLY:C	16:I:252:LEU:CD1	1.82	1.45
13:F:11:VAL:CG2	14:G:128:SER:O	1.66	1.43
25:R:373:PRO:HD3	26:S:395:ILE:CG2	1.46	1.43
33:Z:369:PHE:HB3	33:Z:390:LEU:CD2	1.48	1.43
23:P:107:SER:HB3	23:P:111:ASP:CB	1.47	1.42
18:K:342:SER:OG	18:K:379:SER:CA	1.65	1.41
26:S:472:HIS:O	26:S:475:TYR:CD1	1.71	1.41
22:O:11:LEU:HD21	22:O:14:LEU:CD1	1.44	1.40
29:V:241:THR:CG2	29:V:297:THR:HG21	1.53	1.37
16:I:249:GLY:O	16:I:252:LEU:CD1	1.66	1.35
16:I:249:GLY:CA	16:I:252:LEU:CD1	2.04	1.34
17:J:190:PRO:CG	17:J:318:PRO:O	1.77	1.33
25:R:200:LYS:O	25:R:207:ARG:NH2	1.58	1.33
26:S:471:LEU:HD13	28:U:288:PHE:O	1.21	1.32
25:R:200:LYS:O	25:R:207:ARG:CZ	1.75	1.31
16:I:252:LEU:HD22	16:I:287:ILE:CD1	1.61	1.31
16:I:249:GLY:HA2	16:I:252:LEU:CD1	1.62	1.28
17:J:190:PRO:HG2	17:J:318:PRO:O	1.26	1.28
26:S:390:THR:O	26:S:394:ILE:HD12	1.21	1.28
13:F:13:PHE:CE2	14:G:131:PRO:HD2	1.68	1.27
26:S:486:LYS:NZ	28:U:298:ASN:HB3	1.46	1.27
25:R:372:ILE:HB	26:S:395:ILE:CG2	1.64	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:240:ILE:O	12:E:243:LEU:HG	1.14	1.25
14:G:95:GLU:OE2	14:G:115:ARG:NH1	1.69	1.25
17:J:153:LEU:HB3	17:J:316:PHE:CZ	1.70	1.25
26:S:143:GLN:HG3	26:S:148:ASP:OD2	1.29	1.25
4:4:182:LYS:NZ	4:4:186:ASP:OD2	1.67	1.25
18:K:66:ASP:O	18:K:69:LYS:NZ	1.71	1.24
25:R:203:ASP:O	25:R:207:ARG:NH1	1.70	1.23
28:U:141:GLU:HG2	28:U:151:GLU:O	1.35	1.23
17:J:190:PRO:CD	17:J:318:PRO:O	1.87	1.22
26:S:428:ARG:NH1	27:T:157:TYR:OH	1.70	1.22
18:K:343:LEU:CD2	18:K:344:ARG:N	2.03	1.21
33:Z:369:PHE:CB	33:Z:390:LEU:HD21	1.70	1.21
28:U:140:ILE:N	28:U:153:THR:O	1.71	1.21
26:S:143:GLN:CG	26:S:148:ASP:OD2	1.87	1.20
13:F:11:VAL:HG21	14:G:128:SER:O	1.09	1.20
28:U:140:ILE:CB	28:U:153:THR:HB	1.70	1.20
18:K:343:LEU:O	18:K:344:ARG:CG	1.90	1.20
18:K:343:LEU:O	18:K:344:ARG:HG2	1.04	1.20
28:U:290:ASP:OD1	29:V:277:LYS:HD2	1.39	1.18
4:4:58:LYS:NZ	5:5:151:GLU:OE2	1.76	1.18
22:O:140:LYS:HA	22:O:181:PHE:CE1	1.78	1.18
11:D:193:LYS:NZ	11:D:239:GLU:OE2	1.76	1.17
33:Z:365:SER:O	33:Z:962:ARG:NH2	1.76	1.17
22:O:11:LEU:HD23	22:O:14:LEU:CB	1.74	1.17
25:R:422:ARG:NH1	28:U:303:GLU:OE1	1.77	1.17
7:7:110:ILE:HD13	7:7:131:GLU:OE1	1.40	1.17
26:S:293:ILE:HG23	26:S:297:ILE:HD11	1.21	1.16
33:Z:363:ASP:HA	33:Z:366:LYS:HD3	1.27	1.16
24:Q:413:LEU:CD1	25:R:406:GLN:CG	2.23	1.16
28:U:276:ILE:CG1	29:V:291:ASN:ND2	2.07	1.16
28:U:286:ILE:O	28:U:290:ASP:HB2	1.43	1.15
25:R:198:ILE:CG1	25:R:200:LYS:HG3	1.66	1.15
28:U:140:ILE:C	28:U:153:THR:H	1.50	1.15
22:O:11:LEU:HD23	22:O:14:LEU:CD1	1.54	1.14
11:D:7:ALA:N	12:E:125:GLU:OE2	1.78	1.14
26:S:479:MET:SD	28:U:291:LEU:HD12	1.87	1.13
26:S:471:LEU:HB3	28:U:288:PHE:HA	1.17	1.13
4:4:203:ASP:OD2	4:4:217:ARG:NH1	1.80	1.13
22:O:15:ARG:O	22:O:17:GLU:HG2	1.45	1.13
29:V:108:TYR:CE1	29:V:141:VAL:HG21	1.82	1.13
17:J:43:ARG:NH1	26:S:476:LEU:O	1.81	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:200:LYS:O	25:R:207:ARG:NH1	1.79	1.12
13:F:126:ARG:NH1	13:F:127:PRO:O	1.81	1.12
24:Q:423:VAL:HG12	25:R:417:TYR:HE1	1.14	1.12
10:C:4:ARG:HA	11:D:6:ARG:HH12	1.19	1.12
29:V:107:TRP:O	29:V:139:VAL:N	1.83	1.12
17:J:317:PRO:HB2	17:J:318:PRO:HA	1.32	1.11
23:P:130:ILE:O	23:P:136:ARG:NH1	1.82	1.11
13:F:13:PHE:HE2	14:G:131:PRO:HD2	1.01	1.11
29:V:37:MET:HG2	29:V:108:TYR:CD2	1.85	1.11
17:J:318:PRO:HD2	17:J:319:PRO:HA	1.30	1.11
28:U:140:ILE:CB	28:U:153:THR:CB	2.28	1.11
25:R:372:ILE:HB	26:S:395:ILE:HG22	1.22	1.11
26:S:472:HIS:O	26:S:475:TYR:CE1	2.02	1.11
25:R:285:ALA:O	25:R:286:LEU:CD2	1.98	1.11
28:U:297:GLN:O	28:U:301:ILE:HD12	1.48	1.11
33:Z:369:PHE:CE2	33:Z:859:LYS:CE	2.34	1.11
33:Z:369:PHE:CD2	33:Z:859:LYS:HE3	1.85	1.11
22:O:11:LEU:HD23	22:O:14:LEU:CG	1.81	1.11
14:G:175:GLU:OE2	14:G:178:LYS:NZ	1.84	1.10
16:I:250:SER:O	16:I:253:ILE:HG22	1.50	1.10
33:Z:362:LEU:O	33:Z:366:LYS:HB3	1.51	1.10
21:N:774:ASN:N	21:N:869:ASP:OD2	1.83	1.10
20:M:352:PRO:O	20:M:357:ARG:NH1	1.84	1.10
26:S:471:LEU:HD13	28:U:288:PHE:C	1.72	1.10
23:P:422:LEU:HB3	23:P:426:ILE:CD1	1.79	1.10
24:Q:423:VAL:HG12	25:R:417:TYR:CE1	1.86	1.10
25:R:373:PRO:HD3	26:S:395:ILE:HG23	1.16	1.10
21:N:726:ASP:OD2	21:N:729:SER:N	1.82	1.10
29:V:37:MET:SD	29:V:68:VAL:HG21	1.92	1.10
13:F:11:VAL:HG21	14:G:128:SER:C	1.71	1.09
13:F:123:TYR:HB3	14:G:128:SER:HB2	1.49	1.09
14:G:126:TYR:HB2	14:G:129:VAL:HG22	1.87	1.09
3:3:38:ARG:NH1	3:3:186:GLY:O	1.86	1.09
18:K:343:LEU:HD22	18:K:344:ARG:N	1.64	1.09
25:R:373:PRO:CD	26:S:395:ILE:CG2	2.31	1.09
22:O:11:LEU:CD2	22:O:14:LEU:HD13	1.81	1.09
25:R:372:ILE:CB	26:S:395:ILE:HG22	1.82	1.09
30:W:67:ALA:O	30:W:71:LYS:NZ	1.86	1.09
2:9:42:THR:O	2:9:74:ARG:NH1	1.86	1.09
2:2:42:THR:O	2:2:74:ARG:NH1	1.85	1.09
24:Q:417:GLY:O	24:Q:421:LYS:NZ	1.86	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:471:LEU:CD2	28:U:292:ILE:CD1	2.30	1.08
8:A:39:ASN:O	8:A:58:LYS:NZ	1.87	1.08
22:O:15:ARG:CB	30:W:18:ASN:OD1	2.00	1.08
16:I:252:LEU:HD22	16:I:287:ILE:HD13	1.28	1.08
17:J:48:ARG:HH12	21:N:611:LYS:HB3	1.05	1.07
8:A:243:GLU:CD	8:A:244:ARG:HH12	1.87	1.07
23:P:107:SER:HB3	23:P:111:ASP:HB3	1.35	1.07
29:V:241:THR:HG23	29:V:297:THR:CG2	1.83	1.07
13:F:13:PHE:HE2	14:G:131:PRO:CD	1.66	1.07
12:E:151:ASP:HB3	12:E:166:ARG:HH12	1.16	1.06
25:R:147:LYS:NZ	25:R:177:LEU:O	1.87	1.06
1:8:29:GLY:O	1:8:74:ASN:ND2	1.87	1.06
26:S:405:ARG:HA	26:S:408:CYS:HB2	1.37	1.06
3:3:36:ASP:OD1	3:3:52:LYS:NZ	1.89	1.06
28:U:297:GLN:O	28:U:301:ILE:CD1	2.03	1.06
26:S:471:LEU:HD22	28:U:292:ILE:HD11	1.13	1.06
27:T:252:GLU:HB2	27:T:256:LYS:HG3	1.32	1.06
29:V:23:THR:N	29:V:25:GLU:OE2	1.89	1.06
5:5:103:TYR:HA	6:6:93:ARG:HH22	1.20	1.05
33:Z:366:LYS:NZ	33:Z:367:SER:O	1.88	1.05
19:L:149:ASP:OD2	19:L:152:THR:N	1.89	1.05
33:Z:365:SER:O	33:Z:962:ARG:CZ	2.03	1.05
16:I:252:LEU:HD22	16:I:287:ILE:HD11	1.35	1.05
17:J:190:PRO:HB2	17:J:319:PRO:HD3	1.08	1.05
30:W:25:ARG:HH12	30:W:144:PHE:HB3	1.21	1.05
15:H:176:VAL:H	15:H:189:PRO:HG3	1.21	1.05
29:V:37:MET:SD	29:V:68:VAL:CG2	2.44	1.05
28:U:20:ASP:OD2	29:V:100:ARG:NH2	1.89	1.05
25:R:372:ILE:CG2	26:S:395:ILE:H	1.70	1.05
26:S:471:LEU:HD22	28:U:292:ILE:HD13	1.35	1.04
23:P:108:LYS:O	23:P:111:ASP:N	1.88	1.04
33:Z:363:ASP:O	33:Z:366:LYS:HG2	1.55	1.04
11:D:127:ARG:NH1	11:D:128:PRO:O	1.88	1.04
20:M:377:GLN:HB2	20:M:381:ARG:HH12	1.17	1.04
26:S:24:LYS:O	26:S:27:GLU:N	1.89	1.04
15:H:150:LYS:NZ	15:H:152:ILE:O	1.89	1.04
19:L:403:ILE:O	20:M:203:ARG:NH1	1.90	1.04
26:S:390:THR:O	26:S:394:ILE:CD1	2.05	1.04
27:T:104:LYS:NZ	27:T:169:GLN:OE1	1.90	1.04
13:F:106:GLU:OE2	13:F:110:HIS:NE2	1.91	1.04
26:S:425:ARG:HH11	27:T:156:SER:N	1.54	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:237:GLU:OE2	2:2:194:ARG:NH1	1.90	1.04
3:3:20:THR:CB	3:3:36:ASP:CG	2.25	1.04
22:O:11:LEU:HA	22:O:14:LEU:HB2	1.05	1.04
18:K:343:LEU:HD23	18:K:344:ARG:H	0.93	1.03
23:P:47:ARG:HG3	23:P:49:ALA:H	1.19	1.03
24:Q:413:LEU:HD11	25:R:406:GLN:HG3	1.34	1.03
26:S:280:ASN:HA	26:S:283:GLN:HB2	1.40	1.03
24:Q:413:LEU:HD11	25:R:406:GLN:CG	1.87	1.03
16:I:249:GLY:O	16:I:252:LEU:HD13	1.52	1.03
10:C:179:ASP:OD2	10:C:199:LYS:NZ	1.91	1.03
2:9:42:THR:HG23	2:9:74:ARG:NH2	1.73	1.03
7:7:127:CYS:O	7:7:131:GLU:HB2	1.59	1.03
26:S:408:CYS:O	26:S:412:ASN:N	1.89	1.03
26:S:486:LYS:HZ1	28:U:298:ASN:HB3	0.93	1.03
28:U:276:ILE:HG12	29:V:291:ASN:CG	1.79	1.03
16:I:179:GLU:HB2	16:I:234:LYS:HB2	1.41	1.03
23:P:107:SER:CB	23:P:111:ASP:CB	2.36	1.03
23:P:280:LEU:HD22	23:P:283:LYS:HZ1	1.24	1.03
24:Q:423:VAL:CG1	25:R:417:TYR:CE1	2.42	1.02
30:W:158:ILE:HG13	30:W:171:LEU:HB2	1.40	1.02
21:N:712:ASN:OD1	21:N:873:ARG:NH1	1.92	1.02
27:T:254:ASP:O	27:T:258:ASN:N	1.91	1.02
25:R:372:ILE:HG21	26:S:395:ILE:H	1.21	1.02
26:S:293:ILE:CG2	26:S:297:ILE:HD11	1.89	1.02
1:1:54:ILE:HB	2:2:189:ARG:HH12	1.25	1.02
12:E:35:SER:OG	12:E:66:LYS:NZ	1.93	1.02
6:6:18:SER:O	6:6:34:LYS:NZ	1.91	1.02
12:E:240:ILE:O	12:E:243:LEU:CG	2.07	1.02
27:T:182:LYS:HB3	27:T:186:ARG:HH12	1.21	1.02
2:2:42:THR:HG23	2:2:74:ARG:NH2	1.74	1.02
17:J:182:PRO:O	17:J:289:LYS:NZ	1.91	1.02
3:3:38:ARG:N	3:3:52:LYS:HZ1	1.58	1.01
16:I:172:LYS:HB3	16:I:246:ARG:HB3	1.38	1.01
21:N:25:LEU:HB3	21:N:60:MET:HG2	1.41	1.01
1:8:237:GLU:OE2	2:9:194:ARG:NH1	1.93	1.01
11:D:37:LYS:NZ	12:E:60:GLU:OE2	1.92	1.01
25:R:198:ILE:HG12	25:R:200:LYS:CG	1.89	1.01
17:J:318:PRO:CD	17:J:319:PRO:HA	1.88	1.01
26:S:221:ALA:HB3	26:S:230:LYS:HZ3	1.25	1.01
16:I:423:VAL:O	17:J:306:ARG:NH1	1.93	1.01
25:R:285:ALA:O	25:R:286:LEU:HD23	1.54	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:123:TYR:CB	14:G:128:SER:HB2	1.91	1.01
17:J:26:LYS:NZ	21:N:103:SER:O	1.92	1.01
22:O:15:ARG:NH2	30:W:144:PHE:O	1.93	1.01
24:Q:391:ASP:HB3	24:Q:394:ASN:HB2	1.38	1.01
25:R:78:ASP:HA	25:R:93:LYS:HA	1.42	1.01
30:W:67:ALA:HB3	30:W:68:GLU:HB2	1.37	1.01
33:Z:391:ASN:OD1	33:Z:859:LYS:NZ	1.92	1.01
17:J:190:PRO:HG2	17:J:318:PRO:C	1.79	1.01
14:G:87:HIS:HD2	14:G:132:PHE:HE2	1.02	1.01
26:S:222:SER:OG	26:S:226:ASP:OD2	1.76	1.01
31:X:14:VAL:HG22	31:X:33:ILE:HD12	1.43	1.01
18:K:128:ARG:NH1	18:K:129:GLU:OE2	1.93	1.00
14:G:126:TYR:O	14:G:129:VAL:HG22	1.59	1.00
16:I:148:LEU:HB3	16:I:157:VAL:HB	1.41	1.00
20:M:377:GLN:HB2	20:M:381:ARG:NH1	1.76	1.00
18:K:298:GLU:OE2	18:K:302:GLN:NE2	1.94	1.00
23:P:107:SER:HB3	23:P:111:ASP:CG	1.80	1.00
13:F:11:VAL:HG23	14:G:128:SER:O	1.63	1.00
29:V:48:GLU:HB3	29:V:109:HIS:HB3	1.42	1.00
22:O:108:GLU:HA	22:O:112:LYS:HB2	1.41	1.00
26:S:425:ARG:NH1	27:T:151:TRP:O	1.95	1.00
18:K:127:ASP:OD2	29:V:273:ARG:N	1.95	1.00
33:Z:770:GLU:HA	33:Z:773:ARG:HB2	1.44	1.00
25:R:120:LEU:HA	25:R:125:GLU:HB3	1.41	1.00
14:G:44:ASP:OD2	14:G:222:SER:N	1.95	0.99
17:J:190:PRO:CB	17:J:319:PRO:HD3	1.91	0.99
25:R:382:ASP:OD2	25:R:385:ASN:N	1.95	0.99
11:D:180:ASP:OD2	11:D:183:GLU:N	1.94	0.99
23:P:107:SER:CB	23:P:111:ASP:HB3	1.91	0.99
30:W:66:THR:HG23	30:W:68:GLU:HB3	1.43	0.99
25:R:77:SER:HA	25:R:83:GLU:HA	1.42	0.99
15:H:101:ARG:NH1	16:I:125:MET:O	1.94	0.99
29:V:108:TYR:CZ	29:V:141:VAL:HG21	1.97	0.99
25:R:382:ASP:HA	26:S:399:TYR:HB2	1.42	0.99
28:U:141:GLU:N	28:U:153:THR:HB	1.77	0.98
21:N:665:ILE:HG12	21:N:706:MET:HA	1.44	0.98
24:Q:202:ARG:NH2	24:Q:222:SER:OG	1.96	0.98
29:V:244:MET:HA	29:V:247:ILE:HG23	1.46	0.98
20:M:17:GLU:HA	30:W:69:PHE:HZ	1.28	0.98
2:2:135:GLN:HB3	2:2:139:LYS:NZ	1.78	0.98
23:P:413:ASN:O	23:P:417:HIS:N	1.95	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:144:LEU:HD22	26:S:155:LEU:HD13	1.46	0.98
28:U:140:ILE:CA	28:U:153:THR:O	2.11	0.98
30:W:66:THR:CG2	30:W:68:GLU:HB3	1.93	0.98
17:J:141:LYS:HA	17:J:209:LYS:HG3	1.45	0.98
14:G:126:TYR:HB2	14:G:129:VAL:HG13	1.46	0.98
22:O:15:ARG:O	22:O:17:GLU:CG	2.10	0.98
32:Y:80:GLU:OE1	32:Y:83:ARG:NH2	1.96	0.98
10:C:64:GLU:N	10:C:212:GLU:OE2	1.96	0.98
24:Q:413:LEU:HD13	25:R:406:GLN:CG	1.88	0.98
25:R:60:ALA:O	25:R:64:LYS:N	1.95	0.98
10:C:185:LYS:HE3	10:C:187:ASP:HB2	1.46	0.97
22:O:166:ARG:HH12	22:O:170:SER:HB2	1.25	0.97
8:A:91:ARG:NH2	14:G:157:TYR:O	1.96	0.97
21:N:321:LEU:HG	21:N:323:GLY:H	1.27	0.97
18:K:219:LYS:NZ	18:K:318:THR:O	1.97	0.97
22:O:65:PHE:HB2	22:O:72:LYS:HG2	1.47	0.97
16:I:249:GLY:HA2	16:I:252:LEU:HD11	0.99	0.97
7:7:206:SER:OG	7:7:243:ASP:OD2	1.81	0.97
1:8:54:ILE:HB	2:9:189:ARG:HH12	1.27	0.97
12:E:153:TYR:O	12:E:166:ARG:NH2	1.97	0.97
16:I:383:THR:OG1	16:I:420:LYS:NZ	1.97	0.97
25:R:152:LYS:HB3	25:R:156:LYS:HZ1	1.27	0.97
23:P:435:LYS:HZ1	28:U:156:HIS:H	1.11	0.97
29:V:241:THR:HG23	29:V:297:THR:HG21	0.98	0.97
22:O:15:ARG:NH2	30:W:144:PHE:C	2.18	0.97
30:W:19:GLY:HA2	30:W:25:ARG:H	1.25	0.97
32:Y:80:GLU:OE2	32:Y:84:TYR:HB2	1.64	0.97
8:A:72:ILE:N	8:A:224:GLU:OE2	1.97	0.97
17:J:153:LEU:HB3	17:J:316:PHE:HZ	1.15	0.97
27:T:206:LYS:HG3	27:T:211:PHE:HB2	1.47	0.97
29:V:108:TYR:CE1	29:V:141:VAL:CG2	2.48	0.97
29:V:237:ASN:HB2	29:V:238:LEU:HB3	1.44	0.97
3:3:20:THR:O	3:3:148:SER:N	1.98	0.97
15:H:200:VAL:HG11	15:H:301:LYS:HZ3	1.28	0.97
23:P:383:LEU:HA	23:P:386:GLN:HB2	1.46	0.97
22:O:15:ARG:HB2	30:W:18:ASN:OD1	1.60	0.97
21:N:246:LYS:NZ	21:N:281:GLY:O	1.96	0.97
11:D:193:LYS:HZ1	11:D:235:GLN:HG2	1.29	0.96
26:S:486:LYS:NZ	28:U:298:ASN:CB	2.27	0.96
27:T:252:GLU:HB3	27:T:255:GLN:HB2	1.45	0.96
18:K:207:ARG:NH1	18:K:303:MET:O	1.98	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:347:ARG:NH1	24:Q:219:ASP:OD1	1.97	0.96
28:U:174:LEU:O	28:U:176:ARG:NH1	1.96	0.96
26:S:471:LEU:CD1	28:U:288:PHE:O	2.12	0.96
22:O:95:SER:O	22:O:99:LEU:N	1.98	0.96
26:S:479:MET:SD	28:U:291:LEU:CD1	2.52	0.96
11:D:32:CYS:N	11:D:47:GLU:OE2	1.98	0.96
17:J:26:LYS:NZ	21:N:106:ILE:HB	1.80	0.96
21:N:311:ILE:O	21:N:315:ASN:N	1.99	0.96
23:P:108:LYS:O	23:P:112:LEU:N	1.99	0.96
26:S:383:LEU:HD23	26:S:386:ASN:HD22	1.31	0.96
17:J:26:LYS:HZ1	21:N:106:ILE:HB	1.30	0.96
18:K:343:LEU:HD23	18:K:344:ARG:N	1.73	0.96
2:9:135:GLN:HB3	2:9:139:LYS:NZ	1.78	0.96
20:M:269:LEU:O	20:M:273:LYS:NZ	1.99	0.96
18:K:120:VAL:O	18:K:121:ARG:NH1	1.97	0.96
15:H:101:ARG:H	15:H:173:ARG:HD2	1.29	0.95
23:P:147:LYS:HZ2	23:P:159:ILE:HG21	1.31	0.95
15:H:253:GLY:H	15:H:256:LYS:HB3	1.26	0.95
25:R:369:GLY:CA	26:S:395:ILE:HB	1.96	0.95
26:S:293:ILE:HG23	26:S:297:ILE:CD1	1.95	0.95
4:4:48:ARG:NH1	4:4:196:LEU:O	1.98	0.95
23:P:390:TYR:HB3	23:P:403:GLU:HB3	1.46	0.95
28:U:141:GLU:CA	28:U:153:THR:N	2.29	0.95
22:O:185:PHE:HA	22:O:188:PHE:HB3	1.46	0.95
24:Q:61:LEU:O	24:Q:65:TYR:N	1.99	0.95
16:I:249:GLY:O	16:I:252:LEU:HD12	1.66	0.95
18:K:106:ASN:HA	18:K:122:ILE:HG12	1.43	0.95
24:Q:24:GLU:HA	24:Q:27:TYR:HB2	1.46	0.95
19:L:109:MET:H	19:L:119:VAL:HA	1.31	0.95
22:O:76:LEU:HB3	22:O:80:LYS:HE2	1.45	0.95
7:7:94:ARG:NH1	7:7:244:ALA:O	2.00	0.95
8:A:68:THR:HG21	14:G:159:GLY:HA3	1.46	0.95
16:I:216:PRO:O	16:I:323:LYS:NZ	1.99	0.95
16:I:248:VAL:O	16:I:252:LEU:HG	1.67	0.95
23:P:427:GLU:OE1	29:V:234:GLU:OE1	1.85	0.95
25:R:123:ASP:HB2	25:R:125:GLU:HB2	1.49	0.95
24:Q:413:LEU:HD13	25:R:406:GLN:HG3	0.95	0.95
25:R:41:GLU:HA	25:R:44:LYS:HB3	1.45	0.94
18:K:343:LEU:O	18:K:378:LEU:O	1.85	0.94
21:N:200:SER:O	21:N:204:SER:N	2.00	0.94
22:O:370:LEU:HB3	28:U:200:LEU:HD13	1.45	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D:116:VAL:HA	11:D:119:ARG:NH1	1.83	0.94
1:8:21:PHE:HZ	2:9:137:ARG:HG3	1.32	0.94
8:A:43:LEU:HA	8:A:170:ALA:HA	1.49	0.94
8:A:91:ARG:HH12	14:G:157:TYR:H	0.96	0.94
23:P:107:SER:HB3	23:P:111:ASP:HB2	1.48	0.94
26:S:293:ILE:CG2	26:S:297:ILE:CD1	2.45	0.94
16:I:252:LEU:CD2	16:I:287:ILE:HD11	1.97	0.94
19:L:345:ARG:NH1	19:L:346:LYS:O	2.00	0.94
2:2:44:VAL:H	2:2:177:THR:HG1	1.11	0.94
6:6:67:TYR:HA	6:6:70:ARG:HH11	1.29	0.94
17:J:48:ARG:NH1	21:N:611:LYS:HB3	1.83	0.94
18:K:342:SER:OG	18:K:379:SER:HA	0.76	0.94
28:U:259:ASN:HB2	28:U:261:LEU:HG	1.48	0.94
10:C:13:PHE:H	11:D:19:GLN:HE22	1.14	0.94
18:K:122:ILE:HA	18:K:146:LEU:HB3	1.49	0.94
23:P:423:LEU:O	23:P:427:GLU:HB3	1.65	0.94
28:U:140:ILE:C	28:U:153:THR:N	2.21	0.94
30:W:29:GLN:NE2	30:W:115:CYS:SG	2.41	0.94
15:H:144:LYS:HZ3	15:H:155:PHE:HE2	1.13	0.93
17:J:40:ASN:OD1	26:S:480:ARG:NH2	2.01	0.93
21:N:614:ASN:HD21	21:N:616:HIS:HB2	1.31	0.93
28:U:140:ILE:CB	28:U:153:THR:CG2	2.46	0.93
16:I:97:GLU:OE2	17:J:83:LYS:NZ	1.99	0.93
26:S:390:THR:HA	26:S:393:ARG:HH12	1.32	0.93
27:T:169:GLN:HG3	27:T:174:PHE:HB2	1.48	0.93
30:W:12:ASN:HD22	30:W:79:THR:HB	1.31	0.93
24:Q:160:ASP:OD1	24:Q:163:ARG:NH2	2.01	0.93
24:Q:391:ASP:HB2	24:Q:396:TRP:H	1.30	0.93
26:S:425:ARG:NH2	27:T:150:ARG:O	2.01	0.93
22:O:15:ARG:HB3	30:W:18:ASN:OD1	1.68	0.93
18:K:127:ASP:H	18:K:130:LEU:HB2	1.31	0.93
22:O:310:PHE:HD1	22:O:348:VAL:HG22	1.34	0.93
30:W:25:ARG:NH1	30:W:144:PHE:HB3	1.82	0.93
27:T:76:ASP:O	27:T:80:ASN:N	2.02	0.93
29:V:205:LYS:HG2	29:V:206:THR:HG22	1.50	0.93
12:E:35:SER:HB3	12:E:51:GLU:HB3	1.49	0.93
14:G:11:SER:HB3	14:G:127:ASN:HB2	1.50	0.93
21:N:740:TRP:HE3	29:V:24:LYS:NZ	1.64	0.93
22:O:138:LEU:HD12	22:O:177:GLN:NE2	1.84	0.93
2:2:164:ASN:HD21	2:2:168:VAL:HB	1.33	0.93
5:5:10:GLY:HA3	5:5:42:LYS:HE2	1.51	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D:116:VAL:HA	11:D:119:ARG:HH12	1.33	0.93
21:N:492:THR:HA	21:N:528:ARG:HD2	1.48	0.93
29:V:241:THR:CG2	29:V:297:THR:CG2	2.42	0.93
29:V:264:GLU:OE1	29:V:280:LEU:HD23	1.68	0.93
26:S:351:ALA:HA	26:S:359:LYS:NZ	1.84	0.93
28:U:281:LEU:O	28:U:285:ILE:CB	2.17	0.93
9:B:48:GLU:O	9:B:63:LYS:NZ	2.02	0.93
19:L:365:THR:HB	19:L:370:LYS:NZ	1.84	0.93
25:R:172:LEU:HB3	25:R:176:ARG:HH12	1.32	0.93
8:A:147:ASP:OD2	8:A:150:LEU:N	2.01	0.92
22:O:303:LYS:HA	28:U:260:ASN:HD22	1.33	0.92
26:S:428:ARG:HH12	27:T:157:TYR:HH	1.06	0.92
29:V:254:ARG:HG2	29:V:287:THR:OG1	1.67	0.92
33:Z:106:TRP:O	33:Z:112:LYS:NZ	2.01	0.92
22:O:310:PHE:HZ	22:O:341:ILE:HG23	1.31	0.92
25:R:247:GLU:OE2	25:R:285:ALA:CB	2.17	0.92
25:R:358:GLY:HA3	32:Y:86:ARG:HD3	1.51	0.92
12:E:82:THR:O	12:E:86:ARG:NH1	2.02	0.92
22:O:95:SER:HB3	22:O:135:ARG:HD2	1.49	0.92
23:P:110:LEU:HD23	23:P:113:ASN:HD22	1.35	0.92
23:P:404:LYS:HE3	23:P:406:LYS:HB3	1.50	0.92
28:U:24:ARG:NH1	29:V:99:GLY:O	2.02	0.92
2:9:164:ASN:HD21	2:9:168:VAL:HB	1.33	0.92
8:A:176:GLN:HE21	8:A:180:THR:HG23	1.35	0.92
16:I:249:GLY:C	16:I:252:LEU:HD12	1.88	0.92
28:U:124:ASP:OD2	28:U:128:GLN:N	2.01	0.92
32:Y:81:LEU:O	32:Y:85:LYS:N	2.00	0.92
18:K:113:THR:HG21	19:L:126:ARG:HB2	1.52	0.92
29:V:27:VAL:HA	29:V:63:VAL:HB	1.51	0.92
15:H:428:MET:O	15:H:432:ARG:N	2.01	0.92
26:S:335:GLN:O	26:S:337:ASN:ND2	2.03	0.92
29:V:254:ARG:CG	29:V:287:THR:OG1	2.18	0.92
25:R:373:PRO:HD3	26:S:395:ILE:HG21	1.51	0.92
29:V:27:VAL:HB	29:V:201:ILE:HA	1.52	0.92
28:U:290:ASP:OD1	29:V:277:LYS:CD	2.17	0.92
30:W:49:VAL:N	30:W:71:LYS:HZ3	1.66	0.92
33:Z:531:ALA:HB2	33:Z:569:ALA:HA	1.49	0.92
3:3:12:LYS:N	3:3:15:GLU:OE2	2.03	0.91
29:V:238:LEU:N	29:V:241:THR:OG1	2.03	0.91
5:5:161:GLU:HA	5:5:164:PHE:HB3	1.50	0.91
21:N:29:ASN:OD1	21:N:67:LYS:NZ	2.03	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:468:GLU:O	21:N:472:ASN:N	2.03	0.91
26:S:321:GLN:HB3	26:S:326:ASP:HB2	1.51	0.91
29:V:29:ILE:H	29:V:203:TYR:HA	1.33	0.91
2:9:136:ARG:NE	2:9:141:ASN:O	2.03	0.91
10:C:186:VAL:HB	10:C:217:ARG:HH21	1.35	0.91
12:E:128:SER:H	13:F:125:GLY:HA3	1.33	0.91
21:N:775:CYS:HG	21:N:883:SER:HG	1.15	0.91
24:Q:420:ASN:O	24:Q:424:ASP:N	2.03	0.91
28:U:9:THR:HB	28:U:47:ARG:HA	1.51	0.91
5:5:141:THR:OG1	5:5:178:ASP:OD2	1.89	0.91
23:P:110:LEU:O	23:P:114:THR:N	2.03	0.91
25:R:23:ASN:N	25:R:242:GLU:OE1	2.03	0.91
28:U:283:ARG:HB2	29:V:288:LEU:HD23	1.53	0.91
2:2:136:ARG:NE	2:2:141:ASN:O	2.03	0.91
13:F:80:ASP:OD2	13:F:129:GLY:N	2.03	0.91
22:O:11:LEU:HD21	22:O:14:LEU:HD13	1.43	0.91
26:S:182:LYS:O	26:S:186:TYR:N	2.02	0.91
28:U:77:ASN:HB3	28:U:81:LYS:NZ	1.86	0.91
13:F:121:GLN:HA	14:G:130:ARG:HE	1.33	0.91
17:J:49:ASN:HA	21:N:611:LYS:HZ2	1.31	0.91
21:N:241:LEU:O	21:N:245:LEU:N	2.03	0.91
21:N:758:VAL:H	21:N:871:MET:HA	1.35	0.91
26:S:290:ASN:HB2	26:S:320:ILE:HG21	1.50	0.91
28:U:288:PHE:O	28:U:292:ILE:HD12	1.71	0.91
11:D:171:VAL:HG23	11:D:198:SER:HB2	1.53	0.91
28:U:209:GLU:O	28:U:213:LYS:N	2.04	0.91
6:6:148:TYR:O	6:6:149:ARG:NH1	2.04	0.90
11:D:194:LEU:HA	11:D:197:ARG:HD3	1.53	0.90
11:D:178:ASN:OD1	11:D:197:ARG:NH2	2.04	0.90
17:J:190:PRO:HB2	17:J:319:PRO:CD	1.99	0.90
23:P:362:LEU:HA	23:P:365:LEU:HD12	1.53	0.90
25:R:126:GLY:HA3	25:R:129:GLU:HB2	1.49	0.90
26:S:475:TYR:CD1	26:S:476:LEU:N	2.39	0.90
28:U:137:TYR:HE1	28:U:156:HIS:HB2	1.36	0.90
33:Z:493:LEU:HA	33:Z:496:ALA:HB3	1.51	0.90
2:2:42:THR:CG2	2:2:74:ARG:NH2	2.34	0.90
2:2:54:ILE:HG12	2:2:232:ILE:HG12	1.53	0.90
15:H:387:ASN:OD1	15:H:390:ARG:NH1	2.04	0.90
17:J:26:LYS:NZ	21:N:107:GLU:H	1.69	0.90
24:Q:20:TYR:O	24:Q:24:GLU:N	2.03	0.90
23:P:396:PRO:HD3	24:Q:361:HIS:HE1	1.31	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:117:GLU:HB3	13:F:139:LYS:HE3	1.51	0.90
18:K:157:SER:HA	18:K:159:SER:H	1.35	0.90
22:O:45:LEU:HD13	30:W:14:GLU:OE2	1.71	0.90
25:R:414:LEU:HD22	26:S:471:LEU:CD1	2.01	0.90
20:M:373:ASP:HB2	20:M:411:LYS:HB2	1.51	0.90
28:U:276:ILE:HG12	29:V:291:ASN:HD21	1.11	0.90
29:V:208:LYS:HA	29:V:211:LYS:HZ1	1.34	0.90
8:A:27:GLN:OE1	14:G:15:PHE:N	2.04	0.90
24:Q:51:ARG:HH12	24:Q:55:GLU:HB2	1.36	0.90
25:R:284:ALA:O	25:R:286:LEU:N	2.03	0.90
26:S:471:LEU:HD12	28:U:288:PHE:CB	2.01	0.90
23:P:427:GLU:HA	29:V:234:GLU:CD	1.92	0.90
6:6:81:SER:HB2	6:6:125:LYS:HD2	1.53	0.90
14:G:87:HIS:CD2	14:G:132:PHE:HE2	1.90	0.90
16:I:362:LEU:HD23	16:I:392:ILE:HG23	1.53	0.90
22:O:11:LEU:HA	22:O:14:LEU:CB	1.99	0.90
22:O:232:GLU:HG2	22:O:233:LEU:H	1.36	0.90
28:U:273:LEU:HA	28:U:276:ILE:HD12	1.52	0.90
28:U:34:VAL:HA	28:U:94:HIS:HA	1.52	0.90
23:P:280:LEU:HD22	23:P:283:LYS:NZ	1.86	0.90
26:S:425:ARG:HH11	27:T:156:SER:H	0.95	0.90
10:C:216:ILE:HG12	10:C:227:GLN:HG2	1.54	0.90
23:P:42:LEU:HD11	23:P:88:GLN:HE21	1.34	0.90
30:W:51:LEU:HB3	30:W:63:SER:HB3	1.53	0.90
30:W:49:VAL:H	30:W:71:LYS:HZ3	1.19	0.90
3:3:40:THR:HA	3:3:45:ILE:HA	1.52	0.90
13:F:38:LEU:HA	13:F:158:GLY:HA2	1.53	0.90
14:G:51:GLU:OE2	14:G:204:HIS:ND1	2.04	0.90
1:8:27:ASN:O	1:8:49:ILE:HG13	1.72	0.90
16:I:249:GLY:HA2	16:I:252:LEU:CD2	2.01	0.90
22:O:12:SER:O	22:O:18:ALA:N	2.05	0.90
23:P:147:LYS:NZ	23:P:159:ILE:HG21	1.87	0.90
25:R:198:ILE:HG12	25:R:200:LYS:HG3	0.92	0.90
28:U:140:ILE:CB	28:U:153:THR:HG22	2.02	0.90
29:V:37:MET:HB3	29:V:108:TYR:CE2	2.06	0.90
33:Z:819:GLY:HA2	33:Z:827:LEU:HD21	1.54	0.90
17:J:238:ARG:NH1	17:J:283:GLU:HG3	1.87	0.89
22:O:7:ILE:HD12	22:O:11:LEU:HG	1.52	0.89
33:Z:165:TYR:HE1	33:Z:201:LEU:HD23	1.36	0.89
4:4:158:SER:OG	4:4:195:ASP:OD2	1.91	0.89
13:F:3:ARG:O	13:F:7:ASP:N	2.05	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:280:LEU:HA	22:O:283:HIS:HB2	1.54	0.89
24:Q:7:LYS:HZ2	24:Q:33:LYS:HB2	1.35	0.89
33:Z:815:MET:HG2	33:Z:830:LEU:HD11	1.53	0.89
17:J:71:TYR:HB2	17:J:115:LEU:HB3	1.51	0.89
21:N:308:ASN:HD22	21:N:712:ASN:HD21	1.18	0.89
29:V:119:SER:HB2	29:V:122:ASP:H	1.34	0.89
16:I:249:GLY:HA2	16:I:252:LEU:HD21	1.54	0.89
23:P:421:GLU:O	23:P:425:HIS:N	2.04	0.89
28:U:141:GLU:C	28:U:153:THR:OG1	2.11	0.89
21:N:475:ALA:N	29:V:59:ASP:OD2	2.05	0.89
33:Z:516:THR:HB	33:Z:555:ALA:HB3	1.53	0.89
2:9:42:THR:CG2	2:9:74:ARG:NH2	2.35	0.89
12:E:201:LEU:HD23	12:E:243:LEU:HD22	1.52	0.89
17:J:181:GLN:HG2	17:J:286:LYS:HD2	1.54	0.89
24:Q:51:ARG:NH1	24:Q:55:GLU:HB2	1.87	0.89
30:W:16:SER:HG	30:W:115:CYS:HG	0.98	0.89
6:6:22:THR:O	6:6:23:ARG:NH1	2.05	0.89
15:H:341:ASP:OD1	15:H:370:ARG:NH1	2.04	0.89
23:P:292:LYS:HG3	23:P:294:GLU:HB2	1.54	0.89
23:P:393:VAL:H	24:Q:354:PHE:HB2	1.37	0.89
25:R:293:THR:O	25:R:297:TYR:N	2.05	0.89
33:Z:138:ARG:NH2	33:Z:206:ASP:OD2	2.04	0.89
9:B:179:TRP:HA	9:B:183:LEU:HD11	1.55	0.89
13:F:176:LEU:HD22	14:G:57:LYS:HB3	1.55	0.89
17:J:182:PRO:HA	17:J:311:ASP:HB2	1.54	0.89
17:J:88:VAL:HB	17:J:91:GLU:HB2	1.53	0.89
18:K:249:GLU:OE2	18:K:252:ARG:NE	2.06	0.89
22:O:14:LEU:O	22:O:16:MET:HB2	1.73	0.89
26:S:205:ASN:O	26:S:209:ILE:N	2.06	0.89
26:S:402:ILE:HB	26:S:407:ILE:HG13	1.52	0.89
33:Z:366:LYS:HE2	33:Z:859:LYS:CE	2.02	0.89
22:O:1:MET:HG3	22:O:37:LEU:HG	1.52	0.89
22:O:383:LYS:HA	22:O:386:ALA:HB3	1.51	0.89
24:Q:71:LYS:O	24:Q:75:ARG:N	2.04	0.89
25:R:285:ALA:O	25:R:286:LEU:CG	2.21	0.89
28:U:141:GLU:HA	28:U:153:THR:N	1.88	0.89
12:E:243:LEU:O	12:E:247:GLU:N	2.06	0.88
22:O:4:ASN:O	22:O:8:ASP:N	2.04	0.88
30:W:12:ASN:H	30:W:55:ALA:HB2	1.37	0.88
19:L:243:PHE:HA	19:L:277:ILE:HB	1.53	0.88
28:U:57:GLU:HB3	28:U:67:PHE:HB3	1.53	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:69:VAL:HA	14:G:158:TRP:CZ3	2.07	0.88
11:D:187:THR:N	11:D:190:GLU:OE2	2.06	0.88
19:L:313:ASP:OD2	19:L:339:ARG:NH2	2.05	0.88
22:O:138:LEU:HD12	22:O:177:GLN:HE22	1.36	0.88
25:R:264:THR:O	25:R:268:SER:N	2.06	0.88
26:S:458:GLN:NE2	28:U:270:ASN:O	2.06	0.88
3:3:88:GLN:HG2	8:A:98:LYS:HZ2	1.38	0.88
13:F:107:ARG:HA	13:F:110:HIS:HD2	1.38	0.88
17:J:53:ASP:N	21:N:611:LYS:HZ3	1.70	0.88
18:K:238:ASN:ND2	18:K:241:GLU:OE2	2.07	0.88
30:W:25:ARG:NH2	30:W:114:VAL:O	2.05	0.88
30:W:143:ASN:ND2	30:W:149:GLN:O	2.06	0.88
1:8:78:ALA:H	2:9:168:VAL:HG22	1.35	0.88
4:4:97:LEU:HB3	9:B:90:ARG:NH1	1.88	0.88
10:C:4:ARG:HA	11:D:6:ARG:NH1	2.01	0.88
13:F:48:ALA:HB3	13:F:212:SER:HB3	1.55	0.88
17:J:164:ILE:HG12	17:J:185:VAL:HG21	1.56	0.88
4:4:228:LYS:NZ	5:5:154:TYR:O	2.06	0.88
2:9:54:ILE:HG12	2:9:232:ILE:HG12	1.53	0.88
12:E:84:ASP:OD2	12:E:139:GLY:N	2.06	0.88
15:H:335:GLU:OE2	15:H:339:GLN:NE2	2.06	0.88
17:J:53:ASP:OD1	21:N:611:LYS:NZ	2.06	0.88
18:K:191:PRO:HB2	18:K:313:LYS:NZ	1.88	0.88
15:H:155:PHE:HB3	20:M:76:PRO:HD2	1.54	0.88
24:Q:378:SER:O	24:Q:382:LEU:N	2.06	0.88
27:T:257:THR:O	27:T:261:GLU:N	2.07	0.88
29:V:37:MET:CB	29:V:108:TYR:CE2	2.57	0.88
30:W:130:LYS:HB3	30:W:134:LYS:HE3	1.53	0.88
33:Z:397:ASP:O	33:Z:401:VAL:N	2.05	0.88
21:N:204:SER:HB3	21:N:208:ARG:HH12	1.38	0.88
21:N:345:ASP:OD2	21:N:347:SER:OG	1.90	0.88
23:P:424:GLU:O	23:P:428:THR:N	2.06	0.88
24:Q:6:SER:O	24:Q:10:GLU:N	2.07	0.88
25:R:294:ILE:HA	25:R:297:TYR:HB3	1.54	0.88
28:U:195:LYS:HG2	29:V:233:LYS:HE3	1.55	0.88
16:I:249:GLY:HA2	16:I:252:LEU:CG	2.02	0.88
17:J:169:LYS:NZ	17:J:205:HIS:O	2.07	0.88
18:K:98:GLN:H	18:K:111:SER:HB2	1.39	0.88
21:N:718:GLU:HB2	21:N:725:LEU:HD23	1.55	0.88
24:Q:262:LEU:O	24:Q:266:LEU:N	2.06	0.88
25:R:62:TYR:O	25:R:66:LEU:N	2.06	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:465:ILE:HA	28:U:280:ASN:HD21	1.37	0.88
32:Y:80:GLU:O	32:Y:84:TYR:N	2.06	0.88
10:C:99:LEU:O	10:C:103:ASN:N	2.06	0.88
20:M:264:ARG:HA	20:M:311:GLN:HE22	1.38	0.88
6:6:8:ARG:HA	6:6:13:VAL:HA	1.54	0.88
19:L:226:THR:HA	19:L:387:ASN:HB2	1.54	0.88
22:O:7:ILE:HG23	22:O:11:LEU:HB2	1.54	0.88
27:T:79:GLU:O	27:T:83:ASN:N	2.06	0.88
33:Z:202:ARG:HA	33:Z:205:LEU:HB2	1.54	0.88
9:B:66:LEU:HD11	9:B:69:PRO:HA	1.56	0.87
18:K:256:ASP:O	18:K:260:LEU:N	2.06	0.87
21:N:786:ARG:NH1	21:N:787:MET:O	2.06	0.87
22:O:5:HIS:HA	22:O:8:ASP:HB2	1.56	0.87
24:Q:7:LYS:NZ	24:Q:34:ASP:HB2	1.89	0.87
25:R:285:ALA:O	25:R:286:LEU:HG	1.74	0.87
8:A:62:LYS:NZ	14:G:177:GLU:O	2.06	0.87
26:S:351:ALA:HA	26:S:359:LYS:HZ2	1.39	0.87
1:1:92:LYS:NZ	13:F:93:ASN:HB2	97.37	0.87
13:F:6:TYR:OH	14:G:9:ASP:OD2	1.91	0.87
24:Q:23:ALA:O	24:Q:27:TYR:N	2.07	0.87
27:T:256:LYS:O	27:T:260:ILE:N	2.06	0.87
28:U:20:ASP:O	28:U:24:ARG:N	2.06	0.87
33:Z:138:ARG:NH1	33:Z:144:SER:OG	2.07	0.87
33:Z:365:SER:O	33:Z:962:ARG:NH1	2.06	0.87
5:5:68:ARG:NH2	10:C:100:LYS:HA	1.89	0.87
1:8:96:PHE:HB3	13:F:89:ARG:NH1	1.90	0.87
4:4:98:TYR:O	8:A:119:LYS:NZ	2.06	0.87
26:S:348:LEU:O	26:S:352:VAL:N	2.07	0.87
1:1:68:ASN:ND2	1:1:227:THR:O	2.07	0.87
28:U:141:GLU:N	28:U:153:THR:CB	2.37	0.87
30:W:108:GLN:O	30:W:138:ALA:N	2.08	0.87
22:O:15:ARG:HH22	30:W:145:GLY:CA	1.87	0.87
12:E:243:LEU:H	12:E:243:LEU:HD23	1.38	0.87
15:H:96:PRO:HA	15:H:190:ARG:O	1.74	0.87
21:N:892:PRO:HA	21:N:906:ARG:HB3	1.56	0.87
25:R:372:ILE:HG21	26:S:395:ILE:N	1.89	0.87
4:4:249:ILE:HD12	5:5:48:HIS:HA	1.53	0.87
6:6:185:ASP:CG	6:6:190:ARG:HH12	1.76	0.87
7:7:219:TYR:O	7:7:220:LYS:NZ	2.07	0.87
19:L:260:ALA:O	19:L:264:ARG:N	2.07	0.87
20:M:228:LYS:NZ	20:M:327:THR:O	2.06	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:15:ARG:NE	30:W:144:PHE:CE2	2.41	0.87
28:U:117:ASN:HD21	28:U:139:ALA:HB3	1.37	0.87
19:L:145:ARG:HE	19:L:161:ARG:HA	1.39	0.87
21:N:666:GLN:NE2	21:N:711:ARG:O	2.08	0.87
23:P:334:ASN:O	23:P:338:TRP:N	2.07	0.87
24:Q:124:PHE:HA	24:Q:127:ARG:HG2	1.56	0.87
24:Q:407:ALA:HA	24:Q:410:ASP:OD2	1.75	0.87
26:S:166:ASN:O	26:S:171:TYR:OH	1.91	0.87
28:U:166:ALA:H	29:V:42:ARG:NH1	1.73	0.87
32:Y:75:ASN:O	32:Y:79:ALA:N	2.06	0.87
8:A:232:LYS:HE2	8:A:234:PHE:HB3	1.57	0.87
9:B:94:HIS:HA	9:B:98:LYS:HB3	1.56	0.87
19:L:291:PHE:HA	20:M:294:GLU:HG2	1.57	0.87
23:P:108:LYS:HA	23:P:112:LEU:HG	1.57	0.87
26:S:268:LEU:O	26:S:272:TYR:N	2.08	0.87
30:W:51:LEU:HG	30:W:62:LEU:HB2	1.57	0.87
4:4:99:THR:O	4:4:101:ARG:NH1	2.08	0.86
11:D:56:ASP:OD2	11:D:58:ARG:NH2	2.08	0.86
22:O:5:HIS:CE1	22:O:31:LYS:HG3	2.09	0.86
25:R:350:LEU:O	25:R:354:ALA:N	2.07	0.86
25:R:40:ILE:O	25:R:44:LYS:N	2.08	0.86
15:H:222:ARG:NH1	15:H:227:LEU:HD11	1.88	0.86
20:M:12:LEU:O	20:M:16:ASP:N	2.06	0.86
20:M:397:GLU:O	20:M:401:ILE:N	2.07	0.86
22:O:211:GLN:O	22:O:215:TYR:N	2.08	0.86
26:S:221:ALA:CB	26:S:230:LYS:HZ3	1.87	0.86
26:S:346:TYR:O	26:S:350:LYS:N	2.06	0.86
29:V:107:TRP:O	29:V:138:ALA:HA	1.74	0.86
30:W:67:ALA:HB3	30:W:68:GLU:CB	2.05	0.86
13:F:11:VAL:HA	14:G:130:ARG:HD3	1.57	0.86
15:H:101:ARG:HB2	15:H:173:ARG:NH1	1.90	0.86
17:J:87:LYS:HA	17:J:93:LYS:HA	1.57	0.86
21:N:606:VAL:O	21:N:610:SER:N	2.07	0.86
23:P:306:ASN:HA	23:P:310:ARG:NH1	1.90	0.86
24:Q:394:ASN:HB3	24:Q:396:TRP:CD2	2.09	0.86
28:U:286:ILE:O	28:U:290:ASP:CB	2.21	0.86
30:W:140:ASP:HB3	30:W:190:ILE:HG12	1.56	0.86
3:3:57:HIS:HB3	3:3:60:ILE:HB	1.55	0.86
26:S:217:PHE:O	26:S:221:ALA:N	2.07	0.86
28:U:276:ILE:CG1	29:V:291:ASN:HD21	1.78	0.86
2:9:232:ILE:O	2:9:240:THR:N	2.08	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:171:TYR:HB2	18:K:181:LYS:HD2	1.58	0.86
24:Q:423:VAL:O	24:Q:427:PHE:N	2.09	0.86
1:8:68:ASN:ND2	1:8:227:THR:O	2.07	0.86
21:N:314:LEU:HG	21:N:318:LYS:HE2	1.58	0.86
22:O:239:MET:O	22:O:243:VAL:N	2.08	0.86
25:R:332:GLU:O	25:R:336:LYS:N	2.08	0.86
16:I:141:LEU:HD13	16:I:147:VAL:HG12	1.56	0.86
17:J:45:GLU:O	17:J:49:ASN:ND2	2.09	0.86
23:P:108:LYS:C	23:P:112:LEU:H	1.79	0.86
23:P:294:GLU:O	23:P:298:SER:N	2.08	0.86
33:Z:926:ASN:HB2	33:Z:993:GLU:HG3	1.55	0.86
6:6:70:ARG:NH2	11:D:87:GLU:OE2	2.09	0.86
17:J:190:PRO:HD2	17:J:318:PRO:O	1.74	0.86
21:N:677:ASP:O	21:N:681:ASN:N	2.09	0.86
21:N:764:SER:OG	21:N:907:ASP:OD2	1.93	0.86
29:V:208:LYS:HA	29:V:211:LYS:NZ	1.90	0.86
29:V:264:GLU:HB3	29:V:280:LEU:HD21	1.57	0.86
33:Z:106:TRP:HB2	33:Z:140:LEU:HD22	1.57	0.86
2:2:207:GLU:OE2	2:2:242:LYS:NZ	2.09	0.86
2:9:207:GLU:OE2	2:9:242:LYS:NZ	2.09	0.86
8:A:46:ARG:HH21	8:A:167:LYS:HA	1.39	0.86
14:G:200:ILE:O	14:G:204:HIS:N	2.08	0.86
19:L:219:LEU:HA	19:L:325:MET:HB2	1.56	0.86
22:O:367:LYS:HG2	22:O:371:VAL:HG23	1.56	0.86
27:T:265:ASP:OD2	28:U:189:ARG:NH2	2.08	0.86
33:Z:369:PHE:HB3	33:Z:390:LEU:HD22	1.55	0.86
2:2:232:ILE:O	2:2:240:THR:N	2.08	0.86
2:9:87:SER:O	2:9:145:ASN:ND2	2.09	0.86
22:O:11:LEU:HD21	22:O:14:LEU:HD12	0.97	0.86
26:S:209:ILE:O	26:S:213:THR:N	2.09	0.86
33:Z:363:ASP:HA	33:Z:366:LYS:CD	2.06	0.86
2:2:135:GLN:HB3	2:2:139:LYS:HZ2	1.41	0.85
14:G:87:HIS:HD2	14:G:132:PHE:CE2	1.94	0.85
18:K:234:PHE:HA	18:K:268:ILE:HB	1.57	0.85
18:K:156:SER:OG	18:K:252:ARG:NH2	2.09	0.85
18:K:49:PHE:O	18:K:52:LYS:N	2.09	0.85
23:P:130:ILE:HG23	23:P:132:VAL:H	1.41	0.85
33:Z:369:PHE:HB3	33:Z:390:LEU:HD21	0.88	0.85
12:E:142:LEU:HB2	12:E:158:ALA:HB3	1.58	0.85
14:G:16:SER:OG	14:G:18:ASP:OD1	1.94	0.85
33:Z:512:ILE:HG23	33:Z:521:GLU:HB3	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:87:SER:O	2:2:145:ASN:ND2	2.09	0.85
6:6:184:VAL:HG22	6:6:189:ILE:HG12	1.58	0.85
12:E:223:THR:O	12:E:227:GLY:N	2.08	0.85
12:E:52:LYS:HE3	12:E:218:GLN:HB2	1.58	0.85
17:J:269:GLN:O	17:J:273:LEU:N	2.09	0.85
22:O:9:THR:O	22:O:12:SER:OG	1.93	0.85
23:P:108:LYS:CA	23:P:112:LEU:HG	2.06	0.85
23:P:343:LYS:O	23:P:347:GLU:N	2.08	0.85
25:R:348:LEU:O	25:R:388:VAL:N	2.08	0.85
27:T:57:ILE:O	27:T:61:ILE:N	2.09	0.85
29:V:36:LYS:NZ	29:V:68:VAL:O	2.07	0.85
31:X:127:GLY:O	31:X:131:ASN:N	2.08	0.85
7:7:189:TYR:HB3	7:7:197:LEU:HB2	1.56	0.85
8:A:21:PRO:HA	9:B:23:TYR:CD1	2.10	0.85
16:I:257:LEU:HD23	16:I:301:GLU:HB2	1.58	0.85
23:P:422:LEU:HB3	23:P:426:ILE:CG1	2.07	0.85
25:R:131:ALA:HB2	25:R:160:LYS:HB2	1.57	0.85
25:R:247:GLU:OE2	25:R:285:ALA:HB3	1.76	0.85
26:S:330:LEU:O	26:S:334:HIS:N	2.08	0.85
4:4:230:LYS:NZ	4:4:232:TYR:HA	1.91	0.85
6:6:47:ALA:O	6:6:101:ASN:N	2.09	0.85
19:L:120:LYS:HA	19:L:126:ARG:HA	1.57	0.85
19:L:220:LEU:HA	19:L:347:VAL:HB	1.57	0.85
23:P:45:LYS:HD3	23:P:52:LEU:HB2	1.56	0.85
28:U:141:GLU:N	28:U:153:THR:N	2.24	0.85
29:V:123:VAL:O	29:V:127:LYS:N	2.09	0.85
11:D:36:VAL:HG12	11:D:161:ALA:HB1	1.59	0.85
14:G:175:GLU:HB3	14:G:199:ILE:HG12	1.59	0.85
18:K:84:GLU:HB3	18:K:88:ARG:HH12	1.41	0.85
23:P:218:LEU:O	23:P:222:ASN:N	2.08	0.85
25:R:215:GLY:O	25:R:223:ASN:ND2	2.09	0.85
32:Y:78:LYS:HA	32:Y:81:LEU:HB3	1.57	0.85
33:Z:298:PHE:HB3	33:Z:338:HIS:HB3	1.58	0.85
11:D:15:GLY:HA3	12:E:29:GLU:HB2	1.57	0.85
12:E:128:SER:N	13:F:125:GLY:HA3	1.91	0.85
20:M:401:ILE:HA	20:M:404:ARG:HB2	1.55	0.85
21:N:556:ALA:O	21:N:560:ALA:N	2.08	0.85
23:P:413:ASN:HA	23:P:416:SER:HB2	1.59	0.85
28:U:277:TYR:O	28:U:280:ASN:HB2	1.77	0.85
4:4:50:THR:HA	4:4:56:ALA:H	1.41	0.85
21:N:230:VAL:HG21	21:N:264:SER:HB3	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:79:LEU:O	18:K:83:GLN:N	2.08	0.85
21:N:150:LEU:O	21:N:154:LEU:N	2.10	0.85
24:Q:172:PRO:HA	24:Q:208:ILE:HD13	1.59	0.85
33:Z:396:ASN:HD21	33:Z:399:LEU:HD12	1.39	0.85
3:3:138:VAL:H	2:9:94:GLN:HE22	1.20	0.84
5:5:75:LYS:O	5:5:79:GLU:N	2.10	0.84
2:9:60:LEU:HA	2:9:70:ASN:HA	1.59	0.84
2:9:58:ASP:H	2:9:74:ARG:HH21	1.25	0.84
17:J:324:ARG:O	17:J:328:LEU:N	2.08	0.84
19:L:325:MET:HG3	19:L:343:LEU:HD21	1.57	0.84
21:N:326:SER:O	21:N:330:THR:N	2.10	0.84
23:P:245:TYR:O	23:P:257:TRP:NE1	2.07	0.84
30:W:4:GLU:OE2	30:W:109:ARG:NE	2.09	0.84
11:D:12:SER:OG	11:D:14:ASP:OD1	1.95	0.84
16:I:375:VAL:HG22	16:I:413:ALA:HA	1.58	0.84
15:H:51:GLN:HA	16:I:92:GLU:HG2	1.59	0.84
17:J:153:LEU:CB	17:J:316:PHE:HZ	1.90	0.84
21:N:176:GLN:HA	21:N:179:THR:HA	1.56	0.84
21:N:175:ASP:H	21:N:182:ASN:ND2	1.73	0.84
21:N:436:ASP:O	21:N:440:ASP:N	2.09	0.84
22:O:326:HIS:O	22:O:330:ARG:N	2.09	0.84
23:P:338:TRP:O	23:P:342:GLN:N	2.10	0.84
25:R:398:ALA:HB1	25:R:402:LEU:HG	1.59	0.84
27:T:85:LEU:HG	27:T:89:TYR:HB2	1.58	0.84
28:U:140:ILE:CB	28:U:153:THR:C	2.46	0.84
13:F:123:TYR:CG	14:G:128:SER:HB2	2.12	0.84
19:L:76:GLN:O	19:L:80:ASN:N	2.08	0.84
21:N:773:MET:HB3	21:N:884:PHE:HA	1.57	0.84
23:P:228:SER:HB3	23:P:237:VAL:HG22	1.58	0.84
23:P:422:LEU:HD13	23:P:426:ILE:HD11	1.58	0.84
24:Q:344:GLU:O	24:Q:348:CYS:N	2.10	0.84
24:Q:413:LEU:HA	24:Q:416:VAL:HB	1.60	0.84
26:S:351:ALA:O	26:S:355:GLY:N	2.09	0.84
33:Z:106:TRP:HB2	33:Z:112:LYS:HZ2	1.41	0.84
24:Q:223:GLY:O	24:Q:227:CYS:N	2.09	0.84
8:A:165:GLY:O	9:B:57:MET:N	2.09	0.84
17:J:308:GLY:N	17:J:311:ASP:OD1	2.10	0.84
21:N:156:ILE:O	21:N:160:GLY:N	2.10	0.84
3:3:20:THR:CB	3:3:36:ASP:OD1	2.26	0.84
9:B:98:LYS:O	9:B:102:GLY:N	2.11	0.84
8:A:161:GLY:O	9:B:83:ARG:NH1	2.11	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D:162:GLN:NE2	11:D:163:THR:O	2.10	0.84
20:M:216:LYS:NZ	20:M:311:GLN:O	2.10	0.84
21:N:361:ASN:HB3	21:N:399:PHE:CD2	2.13	0.84
27:T:129:LEU:O	27:T:132:HIS:NE2	2.09	0.84
27:T:261:GLU:OE2	29:V:295:VAL:HB	1.77	0.84
29:V:91:MET:O	29:V:95:LEU:N	2.11	0.84
33:Z:366:LYS:HE2	33:Z:859:LYS:HE2	1.59	0.84
1:1:169:LEU:O	1:1:173:VAL:N	2.10	0.84
4:4:189:GLN:HA	4:4:192:ILE:HB	1.57	0.84
13:F:67:ASP:OD2	13:F:69:HIS:NE2	2.11	0.84
14:G:11:SER:HB3	14:G:127:ASN:CB	2.08	0.84
14:G:126:TYR:CB	14:G:129:VAL:HG22	2.49	0.84
19:L:401:PHE:HA	19:L:404:ARG:HB3	1.60	0.84
25:R:115:GLU:O	25:R:119:LYS:N	2.09	0.84
29:V:37:MET:O	29:V:41:GLY:N	2.09	0.84
10:C:115:LEU:HA	10:C:118:ILE:HD12	1.60	0.84
14:G:126:TYR:HB2	14:G:129:VAL:CG2	2.38	0.84
21:N:229:VAL:O	21:N:233:ASN:N	2.09	0.84
21:N:346:ASN:HA	21:N:349:ILE:HD12	1.59	0.84
22:O:9:THR:OG1	22:O:27:GLU:OE2	1.95	0.84
26:S:296:ALA:O	26:S:300:ALA:HB2	1.77	0.84
33:Z:916:LEU:O	33:Z:983:LEU:N	2.09	0.84
1:8:54:ILE:HB	2:9:189:ARG:NH1	1.92	0.84
9:B:241:GLN:O	9:B:245:ASP:N	2.10	0.84
17:J:147:TYR:HB2	17:J:157:ILE:HD13	1.58	0.84
17:J:48:ARG:HH12	21:N:611:LYS:CB	1.91	0.84
21:N:318:LYS:NZ	21:N:348:PHE:HB2	1.92	0.84
5:5:84:PRO:O	5:5:88:THR:N	2.10	0.84
1:8:169:LEU:O	1:8:173:VAL:N	2.10	0.84
10:C:158:THR:HG1	10:C:160:TRP:HE1	1.31	0.84
11:D:188:VAL:HG21	11:D:216:LYS:HE2	1.60	0.84
13:F:11:VAL:HG22	14:G:130:ARG:HB2	1.59	0.84
16:I:102:ASN:HB3	17:J:83:LYS:HZ3	1.42	0.84
19:L:357:ARG:O	19:L:361:PHE:N	2.09	0.84
16:I:177:PRO:HB2	16:I:234:LYS:HB3	1.59	0.83
16:I:252:LEU:O	16:I:254:GLN:N	2.10	0.83
26:S:319:CYS:HA	26:S:322:LEU:HD12	1.59	0.83
27:T:141:LEU:HD22	27:T:169:GLN:HB2	1.60	0.83
28:U:141:GLU:H	28:U:153:THR:HB	1.43	0.83
20:M:21:GLU:HG2	30:W:73:LEU:HB2	1.60	0.83
3:3:148:SER:OG	3:3:185:ASP:OD2	1.95	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:83:GLU:OE2	5:5:114:SER:OG	1.94	0.83
8:A:226:GLY:HA2	8:A:235:THR:HA	1.60	0.83
12:E:187:TRP:HA	12:E:191:LEU:HD11	1.60	0.83
16:I:221:LEU:N	16:I:326:MET:O	2.11	0.83
21:N:59:GLU:HB3	21:N:85:ALA:HA	1.60	0.83
26:S:246:GLU:HB2	27:T:128:TYR:HB2	1.60	0.83
28:U:27:THR:HA	28:U:31:LYS:HE2	1.60	0.83
3:3:38:ARG:O	3:3:52:LYS:NZ	2.11	0.83
9:B:41:ASN:HD21	9:B:185:LEU:H	1.26	0.83
11:D:96:HIS:ND1	11:D:102:ASP:O	2.11	0.83
22:O:240:GLU:N	22:O:241:THR:OG1	2.11	0.83
27:T:159:LYS:O	27:T:163:LEU:N	2.12	0.83
27:T:39:LEU:O	27:T:88:TYR:OH	1.95	0.83
3:3:88:GLN:HA	8:A:98:LYS:HZ3	1.42	0.83
12:E:240:ILE:CA	12:E:243:LEU:HD21	2.06	0.83
22:O:106:PHE:O	22:O:111:SER:OG	1.96	0.83
22:O:185:PHE:HB3	22:O:220:SER:HB2	1.58	0.83
22:O:59:LEU:HA	22:O:62:TYR:CE2	2.13	0.83
25:R:414:LEU:HD22	26:S:471:LEU:HD12	1.59	0.83
28:U:141:GLU:HA	28:U:152:LYS:C	1.98	0.83
29:V:108:TYR:HD1	29:V:109:HIS:N	1.75	0.83
33:Z:369:PHE:HE2	33:Z:859:LYS:HE3	1.03	0.83
7:7:142:GLU:O	7:7:146:LYS:N	2.11	0.83
10:C:28:SER:HA	10:C:31:HIS:HD2	1.44	0.83
17:J:317:PRO:CB	17:J:318:PRO:HA	2.08	0.83
21:N:431:SER:O	21:N:472:ASN:ND2	2.12	0.83
21:N:504:TYR:O	21:N:508:THR:N	2.10	0.83
22:O:256:ASN:O	22:O:260:VAL:N	2.11	0.83
27:T:182:LYS:HB3	27:T:186:ARG:NH1	1.93	0.83
27:T:253:GLU:HG3	27:T:254:ASP:H	1.40	0.83
32:Y:78:LYS:O	32:Y:82:ASP:N	2.12	0.83
3:3:191:VAL:HG12	3:3:209:PRO:HD3	1.61	0.83
6:6:120:ASP:OD2	6:6:122:LEU:HB2	1.77	0.83
17:J:257:ARG:NH1	17:J:296:ARG:NH1	2.26	0.83
19:L:108:VAL:O	19:L:143:GLY:N	2.08	0.83
20:M:405:ASN:ND2	20:M:414:ASP:OD1	2.12	0.83
21:N:362:TRP:O	21:N:366:THR:N	2.10	0.83
6:6:162:LYS:NZ	6:6:198:GLN:H	1.76	0.83
1:8:40:ALA:HB3	1:8:226:VAL:HB	1.58	0.83
8:A:65:ASP:N	14:G:159:GLY:O	2.11	0.83
14:G:44:ASP:HB2	14:G:221:LEU:HB3	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:390:ARG:HG2	15:H:394:LYS:HE3	1.60	0.83
15:H:173:ARG:NE	16:I:127:ASP:O	2.12	0.83
19:L:403:ILE:HG23	20:M:203:ARG:HD2	1.59	0.83
21:N:324:LYS:HB2	21:N:328:PHE:H	1.44	0.83
21:N:500:ASP:O	21:N:504:TYR:N	2.12	0.83
25:R:172:LEU:HB3	25:R:176:ARG:NH1	1.93	0.83
26:S:390:THR:HA	26:S:393:ARG:NH1	1.92	0.83
30:W:98:LEU:HB3	30:W:108:GLN:HG2	1.60	0.83
30:W:143:ASN:O	30:W:174:VAL:N	2.12	0.83
9:B:218:ASN:ND2	9:B:233:PRO:O	2.12	0.83
17:J:64:LEU:HD21	18:K:121:ARG:HE	1.43	0.83
21:N:344:THR:OG1	21:N:378:ASN:ND2	2.11	0.83
22:O:140:LYS:HA	22:O:181:PHE:CZ	2.14	0.83
2:2:58:ASP:H	2:2:74:ARG:HH21	1.25	0.83
1:8:106:ASN:ND2	12:E:104:ASP:OD2	2.10	0.83
12:E:240:ILE:HA	12:E:243:LEU:HD11	1.60	0.83
13:F:171:TYR:O	13:F:175:THR:N	2.12	0.83
14:G:126:TYR:HB2	14:G:129:VAL:CG1	2.08	0.83
17:J:163:VAL:HG22	17:J:185:VAL:HG22	1.59	0.83
21:N:466:LEU:O	21:N:470:LEU:N	2.11	0.83
21:N:680:LYS:O	21:N:684:SER:N	2.09	0.83
23:P:254:GLU:HA	23:P:257:TRP:CE3	2.13	0.83
31:X:87:PHE:HB2	31:X:99:PHE:HB2	1.59	0.83
15:H:253:GLY:HA2	15:H:257:THR:H	1.42	0.83
23:P:108:LYS:C	23:P:112:LEU:HG	1.99	0.83
23:P:372:THR:N	23:P:375:GLN:OE1	2.11	0.83
25:R:118:GLN:O	25:R:122:GLU:N	2.11	0.83
3:3:20:THR:CB	3:3:36:ASP:OD2	2.25	0.82
1:1:209:SER:OG	4:4:225:ARG:NH2	2.11	0.82
11:D:44:LEU:HB2	11:D:213:THR:HB	1.61	0.82
21:N:599:TYR:HD1	21:N:632:LYS:HZ3	1.25	0.82
24:Q:404:ASN:OD1	24:Q:405:GLN:NE2	2.12	0.82
24:Q:9:GLU:O	24:Q:13:ARG:N	2.11	0.82
25:R:301:TYR:CD2	25:R:357:PHE:HB3	2.13	0.82
4:4:49:SER:HB3	4:4:57:ASP:HB3	1.60	0.82
15:H:58:ASP:O	15:H:62:ARG:N	2.11	0.82
20:M:255:TYR:HD2	20:M:258:GLU:HB2	1.42	0.82
21:N:719:ASN:O	21:N:723:GLY:N	2.12	0.82
21:N:772:GLN:HB3	21:N:869:ASP:H	1.44	0.82
22:O:370:LEU:HD13	28:U:200:LEU:HD22	1.60	0.82
23:P:104:LEU:O	23:P:108:LYS:N	2.11	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:57:GLU:O	23:P:61:LYS:N	2.11	0.82
24:Q:391:ASP:HA	25:R:347:THR:HB	1.59	0.82
29:V:50:MET:O	29:V:71:MET:N	2.11	0.82
6:6:120:ASP:OD1	6:6:124:THR:N	2.12	0.82
7:7:139:ARG:NH2	12:E:69:GLU:OE2	2.11	0.82
7:7:140:LEU:HG	7:7:144:ARG:NH1	1.94	0.82
7:7:276:LYS:NZ	7:7:285:VAL:O	2.10	0.82
10:C:168:ASN:ND2	10:C:202:ASP:OD1	2.13	0.82
21:N:562:THR:OG1	21:N:597:ARG:NH1	2.13	0.82
23:P:323:ASN:O	23:P:337:HIS:ND1	2.11	0.82
27:T:198:ASP:O	27:T:235:PHE:N	2.11	0.82
14:G:97:ALA:O	14:G:101:LYS:N	2.13	0.82
16:I:259:ASP:O	16:I:263:LEU:N	2.10	0.82
19:L:122:SER:OG	20:M:126:THR:OG1	1.97	0.82
21:N:124:TYR:HB2	21:N:162:ARG:HH11	1.43	0.82
21:N:468:GLU:HA	21:N:471:TYR:HB3	1.62	0.82
21:N:761:ILE:HG22	21:N:762:ARG:H	1.45	0.82
22:O:263:PHE:O	22:O:267:ASP:N	2.12	0.82
26:S:405:ARG:O	26:S:409:LEU:N	2.12	0.82
26:S:415:SER:OG	26:S:422:MET:SD	2.36	0.82
27:T:34:LEU:HA	27:T:37:ASN:HB2	1.57	0.82
32:Y:83:ARG:O	32:Y:87:GLU:N	2.12	0.82
3:3:196:VAL:HB	3:3:203:GLU:HB3	1.62	0.82
13:F:13:PHE:HB3	13:F:17:GLY:HA2	1.62	0.82
19:L:219:LEU:HD23	19:L:346:LYS:HG3	1.61	0.82
20:M:145:LEU:HB3	20:M:159:LEU:HB2	1.62	0.82
20:M:21:GLU:OE2	30:W:73:LEU:HA	1.80	0.82
21:N:525:ASN:HA	21:N:528:ARG:HD3	1.61	0.82
22:O:309:SER:HB3	22:O:347:LEU:HA	1.59	0.82
25:R:267:LYS:HA	25:R:271:ILE:HB	1.61	0.82
25:R:290:SER:O	25:R:294:ILE:N	2.11	0.82
26:S:399:TYR:O	26:S:445:THR:OG1	1.96	0.82
1:1:40:ALA:HB3	1:1:226:VAL:HB	1.58	0.82
1:1:96:PHE:HB3	13:F:89:ARG:NH1	106.73	0.82
7:7:89:VAL:HB	7:7:253:TYR:HB2	1.61	0.82
15:H:150:LYS:HG2	15:H:152:ILE:H	1.44	0.82
18:K:404:GLN:O	18:K:408:GLU:N	2.10	0.82
19:L:244:ILE:N	19:L:277:ILE:O	2.12	0.82
20:M:36:LEU:O	20:M:71:ASN:N	2.11	0.82
23:P:432:LEU:O	23:P:436:GLU:N	2.12	0.82
24:Q:360:SER:HA	24:Q:363:SER:HB2	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:15:ARG:HH22	30:W:145:GLY:N	1.77	0.82
4:4:92:ILE:O	4:4:96:SER:N	2.10	0.82
9:B:242:GLU:HB3	9:B:246:ARG:NH1	1.94	0.82
15:H:211:VAL:HG13	15:H:218:ILE:HD13	1.62	0.82
21:N:381:GLU:O	21:N:385:VAL:N	2.12	0.82
22:O:260:VAL:HG11	22:O:265:LYS:HD2	1.62	0.82
22:O:2:PHE:O	22:O:6:GLU:N	2.11	0.82
23:P:107:SER:O	23:P:108:LYS:NZ	2.13	0.82
23:P:19:LYS:HA	23:P:34:SER:HB2	1.59	0.82
24:Q:223:GLY:HA2	24:Q:226:HIS:HB2	1.62	0.82
24:Q:374:GLU:O	24:Q:378:SER:N	2.13	0.82
26:S:421:TYR:O	26:S:425:ARG:N	2.11	0.82
26:S:471:LEU:HB3	28:U:288:PHE:CA	2.06	0.82
16:I:419:ALA:O	16:I:423:VAL:N	2.13	0.82
19:L:365:THR:HB	19:L:370:LYS:HZ1	1.45	0.82
21:N:440:ASP:O	21:N:444:HIS:N	2.13	0.82
22:O:104:ALA:HB2	22:O:132:GLU:HG3	1.61	0.82
26:S:479:MET:HE3	28:U:291:LEU:HD11	1.61	0.82
26:S:425:ARG:NH1	27:T:156:SER:H	1.77	0.82
31:X:85:ARG:HA	31:X:115:SER:HB2	1.60	0.82
2:2:44:VAL:N	2:2:177:THR:OG1	2.10	0.82
3:3:20:THR:HA	3:3:188:SER:OG	1.79	0.82
5:5:28:ARG:O	5:5:42:LYS:NZ	2.13	0.82
6:6:68:SER:O	6:6:72:ASP:N	2.12	0.82
1:8:79:ASP:OD2	1:8:125:TYR:N	2.13	0.82
10:C:47:ALA:HB1	10:C:197:LEU:HD11	1.61	0.82
11:D:37:LYS:HE2	11:D:160:SER:HA	1.62	0.82
14:G:33:ASN:HA	14:G:167:LYS:NZ	1.95	0.82
14:G:52:LYS:O	14:G:213:GLU:N	2.10	0.82
15:H:97:LEU:HD21	15:H:173:ARG:HB3	1.62	0.82
16:I:362:LEU:HD21	16:I:384:LYS:NZ	1.95	0.82
21:N:365:PHE:HB2	21:N:399:PHE:HB3	1.61	0.82
25:R:365:ASP:O	25:R:369:GLY:N	2.11	0.82
26:S:235:ASN:ND2	26:S:259:TYR:OH	2.12	0.82
33:Z:112:LYS:HZ2	33:Z:140:LEU:HD22	1.45	0.82
1:1:78:ALA:H	2:2:168:VAL:HG22	1.45	0.82
4:4:204:VAL:O	4:4:216:LEU:N	2.11	0.82
15:H:244:LYS:HB3	15:H:346:ARG:HE	1.44	0.82
23:P:337:HIS:O	23:P:341:LEU:N	2.12	0.82
28:U:166:ALA:HB2	29:V:42:ARG:HD2	1.60	0.82
6:6:3:ILE:HB	6:6:18:SER:HB3	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:71:ASP:N	12:E:74:ILE:O	2.11	0.81
14:G:175:GLU:OE1	14:G:198:LYS:NZ	2.13	0.81
14:G:218:TRP:CZ3	14:G:224:THR:HG23	2.15	0.81
14:G:67:ILE:HG12	14:G:77:VAL:HB	1.62	0.81
2:2:109:TYR:HB3	14:G:93:ARG:NH1	98.45	0.81
17:J:163:VAL:HG23	17:J:312:ARG:HB3	1.59	0.81
19:L:246:SER:N	19:L:279:PHE:O	2.12	0.81
20:M:180:TYR:HB3	20:M:190:ILE:HD13	1.62	0.81
22:O:225:ASP:HA	22:O:226:LYS:HB2	1.62	0.81
25:R:63:TYR:HA	25:R:66:LEU:HB3	1.62	0.81
22:O:15:ARG:HH22	30:W:145:GLY:C	1.83	0.81
2:2:60:LEU:HA	2:2:70:ASN:HA	1.59	0.81
13:F:136:GLY:O	13:F:143:HIS:N	2.13	0.81
14:G:200:ILE:HG21	14:G:214:LEU:HD13	1.60	0.81
17:J:75:VAL:O	17:J:110:SER:N	2.13	0.81
21:N:295:THR:O	21:N:299:TYR:N	2.10	0.81
21:N:439:VAL:O	21:N:443:LEU:N	2.11	0.81
22:O:19:ASP:HB3	22:O:72:LYS:NZ	1.95	0.81
22:O:58:ARG:O	22:O:62:TYR:N	2.09	0.81
26:S:231:ALA:O	26:S:235:ASN:N	2.11	0.81
2:9:90:ILE:O	2:9:94:GLN:N	2.11	0.81
9:B:57:MET:HB3	9:B:59:GLU:OE2	1.79	0.81
14:G:141:VAL:HA	14:G:146:ALA:HA	1.62	0.81
17:J:159:GLU:HB3	17:J:314:ILE:HG21	1.59	0.81
22:O:383:LYS:O	22:O:387:ARG:N	2.13	0.81
24:Q:329:GLU:O	24:Q:333:SER:N	2.13	0.81
33:Z:359:LYS:HG3	33:Z:394:TYR:HA	1.62	0.81
1:8:77:ALA:HB3	2:9:168:VAL:HG13	1.61	0.81
14:G:45:GLY:HA2	14:G:146:ALA:HB2	1.62	0.81
14:G:51:GLU:O	14:G:66:LYS:NZ	2.14	0.81
18:K:237:VAL:O	18:K:272:ASP:N	2.11	0.81
18:K:297:ILE:HD13	18:K:300:LEU:HD12	1.62	0.81
21:N:113:ALA:O	21:N:117:TYR:N	2.10	0.81
22:O:166:ARG:HA	22:O:169:ASN:HB3	1.61	0.81
24:Q:126:LYS:HG2	24:Q:134:LYS:NZ	1.96	0.81
23:P:393:VAL:HG12	24:Q:357:VAL:HG11	1.62	0.81
25:R:49:PHE:O	25:R:53:LYS:N	2.12	0.81
26:S:479:MET:CE	28:U:291:LEU:HD11	2.10	0.81
27:T:194:GLU:O	27:T:238:GLN:NE2	2.13	0.81
30:W:37:PHE:CZ	30:W:68:GLU:N	2.48	0.81
4:4:129:VAL:HG13	4:4:140:PHE:HB2	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:51:THR:HB	8:A:228:ALA:HB3	1.62	0.81
11:D:75:PHE:HA	11:D:133:THR:HA	1.62	0.81
16:I:399:ALA:HB1	16:I:411:VAL:HG11	1.61	0.81
21:N:424:LYS:O	21:N:428:VAL:N	2.13	0.81
22:O:34:GLU:HB3	22:O:36:LYS:H	1.45	0.81
33:Z:369:PHE:HE2	33:Z:859:LYS:CE	1.77	0.81
1:1:79:ASP:OD2	1:1:125:TYR:N	2.13	0.81
5:5:55:GLY:HA3	5:5:105:VAL:HA	1.63	0.81
9:B:128:ARG:NH1	9:B:129:PRO:O	2.13	0.81
14:G:9:ASP:HA	14:G:22:PHE:HB2	1.62	0.81
21:N:211:PHE:O	21:N:215:MET:N	2.13	0.81
22:O:311:GLU:HB3	22:O:315:LYS:NZ	1.96	0.81
23:P:157:ALA:O	23:P:161:CYS:N	2.13	0.81
23:P:422:LEU:HD22	23:P:426:ILE:CG1	2.10	0.81
26:S:152:LEU:O	26:S:156:VAL:N	2.13	0.81
7:7:110:ILE:CD1	7:7:131:GLU:OE1	2.28	0.81
9:B:160:LYS:HD2	10:C:56:LEU:HA	1.62	0.81
21:N:460:ILE:O	21:N:464:GLU:N	2.10	0.81
23:P:422:LEU:HA	23:P:425:HIS:HB3	1.63	0.81
24:Q:167:LYS:HD3	24:Q:171:LYS:HE3	1.63	0.81
33:Z:225:LEU:HD11	33:Z:253:VAL:HA	1.62	0.81
5:5:202:MET:O	5:5:204:GLN:NE2	2.12	0.81
9:B:98:LYS:NZ	9:B:104:TYR:OH	2.14	0.81
16:I:307:LEU:O	16:I:311:ASN:N	2.13	0.81
21:N:96:GLN:O	21:N:100:THR:N	2.11	0.81
21:N:332:VAL:HG23	21:N:355:TRP:HH2	1.46	0.81
22:O:43:GLU:N	22:O:47:LYS:HB3	1.96	0.81
24:Q:218:LEU:O	24:Q:222:SER:N	2.14	0.81
25:R:205:GLU:OE1	25:R:206:ARG:NH1	2.13	0.81
25:R:380:VAL:HB	25:R:389:GLU:HB2	1.61	0.81
33:Z:363:ASP:C	33:Z:366:LYS:HG2	2.01	0.81
4:4:247:VAL:HB	5:5:195:VAL:HB	1.61	0.81
12:E:136:ARG:NH1	12:E:137:PRO:O	2.14	0.81
15:H:317:ALA:HB2	15:H:363:PRO:HD3	1.61	0.81
18:K:259:ARG:O	18:K:263:GLU:N	2.14	0.81
22:O:367:LYS:O	22:O:371:VAL:N	2.12	0.81
23:P:208:PHE:HB2	23:P:217:LYS:HZ1	1.43	0.81
1:8:27:ASN:O	1:8:49:ILE:O	1.97	0.81
19:L:227:GLY:O	19:L:231:LEU:N	2.13	0.81
20:M:197:ILE:HG22	20:M:239:THR:HG21	1.60	0.81
24:Q:155:LEU:HA	24:Q:158:ILE:HB	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:378:ASN:HB3	25:R:391:ASN:H	1.43	0.81
26:S:418:THR:O	26:S:422:MET:N	2.11	0.81
30:W:123:ASP:HB3	30:W:127:ARG:HH12	1.46	0.81
33:Z:862:MET:HA	33:Z:910:PRO:HA	1.62	0.81
6:6:14:ILE:HG12	6:6:183:ILE:HG12	1.62	0.81
7:7:95:ALA:N	7:7:103:SER:O	2.11	0.81
11:D:138:PHE:CE1	11:D:145:PRO:HA	2.16	0.81
15:H:215:LYS:O	15:H:219:GLU:N	2.13	0.81
21:N:542:SER:HB2	21:N:547:LEU:HB2	1.62	0.81
24:Q:279:LYS:O	24:Q:283:ASN:N	2.12	0.81
25:R:99:TYR:O	25:R:103:CYS:N	2.14	0.81
29:V:127:LYS:HA	29:V:130:GLU:OE2	1.80	0.81
29:V:209:GLU:O	29:V:213:LEU:N	2.11	0.81
33:Z:762:GLY:H	33:Z:789:GLN:HE21	1.25	0.81
7:7:96:THR:HA	7:7:102:ALA:H	1.46	0.80
13:F:50:LYS:N	13:F:210:ASN:O	2.12	0.80
18:K:253:MET:HB3	18:K:257:VAL:HG23	1.63	0.80
24:Q:140:LYS:O	24:Q:144:LEU:N	2.11	0.80
24:Q:40:ALA:HA	24:Q:46:VAL:HA	1.61	0.80
25:R:304:TYR:HA	25:R:307:TYR:CD2	2.15	0.80
26:S:336:SER:HA	26:S:339:GLN:HE22	1.47	0.80
29:V:231:GLU:O	29:V:235:GLU:N	2.14	0.80
16:I:389:GLY:HA2	16:I:392:ILE:HD12	1.62	0.80
17:J:318:PRO:HB2	17:J:319:PRO:O	1.81	0.80
23:P:113:ASN:HA	23:P:116:ILE:HB	1.62	0.80
25:R:176:ARG:HA	25:R:243:LEU:HD21	1.62	0.80
26:S:471:LEU:CD2	28:U:292:ILE:HD13	2.02	0.80
33:Z:202:ARG:NH1	33:Z:205:LEU:HD13	1.95	0.80
33:Z:616:LEU:HB3	33:Z:746:ILE:HD12	1.63	0.80
1:8:225:ILE:N	1:8:232:ARG:O	2.12	0.80
15:H:100:ALA:N	15:H:177:ASP:OD1	2.09	0.80
15:H:199:THR:HB	15:H:273:ARG:HB3	1.61	0.80
18:K:266:PRO:HA	18:K:311:ASN:HB3	1.62	0.80
15:H:220:LYS:HA	20:M:404:ARG:HH22	1.46	0.80
21:N:68:VAL:O	21:N:72:LEU:N	2.14	0.80
22:O:166:ARG:O	22:O:170:SER:N	2.14	0.80
25:R:335:ARG:CZ	25:R:376:GLN:HB2	2.10	0.80
29:V:136:ALA:H	29:V:157:ARG:HD3	1.45	0.80
33:Z:407:VAL:O	33:Z:410:THR:OG1	2.00	0.80
10:C:218:LYS:HA	10:C:225:VAL:HA	1.63	0.80
19:L:400:PHE:HE1	20:M:215:PRO:HD3	1.47	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:131:SER:O	22:O:135:ARG:N	2.13	0.80
22:O:382:LYS:HG2	22:O:383:LYS:HG3	1.63	0.80
24:Q:29:SER:HA	24:Q:32:ASP:HB2	1.63	0.80
24:Q:355:GLU:OE2	24:Q:388:GLY:HA3	1.80	0.80
25:R:202:GLY:HA3	25:R:206:ARG:HG2	1.64	0.80
27:T:258:ASN:O	27:T:262:LYS:N	2.12	0.80
29:V:28:TYR:N	29:V:63:VAL:O	2.15	0.80
33:Z:161:ILE:HB	33:Z:203:LEU:HD13	1.62	0.80
1:8:225:ILE:HB	1:8:232:ARG:HB3	1.64	0.80
2:9:135:GLN:HB3	2:9:139:LYS:HZ3	1.44	0.80
10:C:53:THR:HG21	10:C:210:ARG:HA	1.62	0.80
19:L:290:ARG:HD2	19:L:298:ASP:HB3	1.63	0.80
22:O:11:LEU:HD23	22:O:14:LEU:HB2	1.60	0.80
23:P:417:HIS:O	23:P:421:GLU:N	2.13	0.80
26:S:465:ILE:HA	28:U:280:ASN:ND2	1.96	0.80
27:T:34:LEU:HD23	27:T:37:ASN:HD22	1.47	0.80
30:W:53:SER:N	30:W:60:ARG:O	2.13	0.80
33:Z:417:SER:O	33:Z:421:SER:N	2.13	0.80
5:5:95:LEU:O	5:5:98:ARG:N	2.12	0.80
8:A:219:SER:N	8:A:222:ASP:OD2	2.14	0.80
11:D:9:SER:HB3	11:D:17:ILE:HD13	1.64	0.80
15:H:254:THR:HG21	15:H:415:THR:HB	1.63	0.80
16:I:184:ILE:HD12	16:I:187:LEU:HD12	1.62	0.80
18:K:182:GLN:HE21	18:K:186:GLU:HG3	1.46	0.80
33:Z:776:VAL:O	33:Z:780:MET:N	2.15	0.80
3:3:132:ILE:HG12	3:3:138:VAL:HG22	1.62	0.80
3:3:190:GLY:O	3:3:212:TYR:OH	2.00	0.80
12:E:26:TYR:HA	12:E:29:GLU:HG2	1.64	0.80
15:H:403:ARG:HB2	15:H:406:LEU:HG	1.64	0.80
18:K:99:PHE:N	18:K:135:MET:O	2.10	0.80
19:L:370:LYS:HG2	19:L:410:ILE:HB	1.62	0.80
21:N:15:GLU:OE2	27:T:80:ASN:HB3	1.81	0.80
21:N:274:VAL:HG22	21:N:290:LEU:HD13	1.64	0.80
21:N:615:ALA:O	21:N:619:CYS:N	2.15	0.80
22:O:72:LYS:HG3	22:O:73:ILE:H	1.47	0.80
24:Q:4:PRO:O	24:Q:50:ARG:NH1	2.15	0.80
24:Q:57:SER:O	24:Q:61:LEU:N	2.14	0.80
26:S:483:GLU:OE2	28:U:295:LYS:NZ	2.14	0.80
8:A:200:GLU:HG3	8:A:244:ARG:NH2	1.97	0.80
19:L:103:GLN:O	20:M:128:PHE:N	2.15	0.80
19:L:199:LEU:O	19:L:203:ASN:N	2.15	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:233:LEU:HA	22:O:236:HIS:HD2	1.46	0.80
22:O:272:VAL:O	22:O:276:LYS:N	2.15	0.80
23:P:295:SER:HA	23:P:298:SER:HB2	1.62	0.80
26:S:153:GLU:HA	26:S:156:VAL:HG23	1.62	0.80
26:S:479:MET:HG3	26:S:483:GLU:OE1	1.82	0.80
27:T:220:PHE:O	27:T:224:ARG:N	2.11	0.80
33:Z:415:MET:HG2	33:Z:447:VAL:HG22	1.64	0.80
33:Z:897:HIS:HD2	33:Z:899:GLN:HG2	1.47	0.80
1:1:225:ILE:HB	1:1:232:ARG:HB3	1.64	0.80
18:K:343:LEU:C	18:K:344:ARG:HG2	2.02	0.80
19:L:256:ILE:HD12	19:L:303:ARG:HH11	1.46	0.80
19:L:70:TYR:HA	20:M:12:LEU:HD21	1.64	0.80
21:N:315:ASN:O	21:N:319:SER:N	2.10	0.80
21:N:493:GLY:HA3	21:N:524:ILE:HB	1.64	0.80
23:P:422:LEU:HD22	23:P:426:ILE:HG12	1.63	0.80
23:P:67:ALA:HB1	23:P:72:TRP:CH2	2.17	0.80
23:P:429:ILE:HA	28:U:229:LEU:HD22	1.64	0.80
29:V:37:MET:CG	29:V:108:TYR:CD2	2.63	0.80
22:O:16:MET:SD	30:W:18:ASN:ND2	2.55	0.80
13:F:46:LEU:HB2	13:F:214:ALA:HB3	1.64	0.80
13:F:43:HIS:HB3	13:F:215:ILE:HD11	1.64	0.80
17:J:344:ARG:O	17:J:348:GLU:N	2.15	0.80
18:K:106:ASN:ND2	18:K:124:SER:OG	2.14	0.80
18:K:207:ARG:NH1	18:K:306:PHE:O	2.14	0.80
21:N:784:TYR:HB2	21:N:873:ARG:HE	1.46	0.80
22:O:6:GLU:O	22:O:10:ILE:N	2.10	0.80
23:P:193:TYR:O	23:P:197:THR:N	2.15	0.80
29:V:37:MET:CG	29:V:108:TYR:CE2	2.65	0.80
2:2:90:ILE:O	2:2:94:GLN:N	2.11	0.79
9:B:1:MET:HG2	9:B:2:THR:H	1.47	0.79
10:C:175:LEU:HD13	10:C:199:LYS:HE2	1.63	0.79
15:H:385:ARG:NH1	15:H:413:ASN:OD1	2.15	0.79
21:N:399:PHE:HE1	21:N:438:ASP:HA	1.47	0.79
23:P:136:ARG:O	23:P:140:THR:OG1	1.99	0.79
26:S:232:MET:O	26:S:236:LEU:N	2.12	0.79
27:T:89:TYR:HA	27:T:102:LYS:HE3	1.62	0.79
2:2:193:ASP:N	2:2:197:ASP:OD2	2.15	0.79
5:5:28:ARG:NH1	5:5:180:LEU:O	2.14	0.79
1:8:134:ASP:OD1	1:8:138:LYS:N	2.16	0.79
11:D:151:GLU:OE2	11:D:155:ILE:HB	1.82	0.79
13:F:20:PHE:O	13:F:24:TYR:N	2.14	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:17:PRO:HA	13:F:24:TYR:CD1	2.19	0.79
14:G:205:GLU:HA	14:G:208:LYS:HB3	1.63	0.79
20:M:370:THR:HA	20:M:410:VAL:H	1.47	0.79
21:N:205:SER:O	21:N:209:LYS:NZ	2.16	0.79
22:O:99:LEU:HD12	22:O:103:LYS:HA	1.64	0.79
26:S:390:THR:HG23	26:S:393:ARG:HH22	1.46	0.79
27:T:57:ILE:HG22	27:T:61:ILE:HG13	1.64	0.79
9:B:35:LEU:HA	9:B:163:ALA:HA	1.64	0.79
14:G:168:GLY:HA2	14:G:206:ASP:OD2	1.83	0.79
15:H:421:SER:HB2	15:H:450:VAL:HG11	1.64	0.79
19:L:80:ASN:HA	19:L:83:ASP:OD2	1.82	0.79
20:M:127:VAL:HG21	20:M:153:TYR:HB3	1.62	0.79
21:N:360:GLN:H	21:N:363:ALA:HB3	1.46	0.79
22:O:166:ARG:NH1	22:O:170:SER:HB2	1.97	0.79
22:O:1:MET:N	22:O:35:GLU:O	2.14	0.79
23:P:298:SER:O	23:P:302:LEU:N	2.16	0.79
25:R:185:LEU:O	25:R:189:GLU:N	2.10	0.79
26:S:160:ARG:HH22	26:S:206:GLN:HB3	1.45	0.79
27:T:178:THR:HG22	27:T:182:LYS:NZ	1.97	0.79
30:W:17:ARG:HH12	30:W:18:ASN:HD22	1.30	0.79
1:1:225:ILE:N	1:1:232:ARG:O	2.12	0.79
3:3:21:SER:HA	3:3:147:GLY:HA3	1.62	0.79
6:6:118:GLN:NE2	6:6:132:ALA:O	2.16	0.79
10:C:159:GLY:HA3	11:D:59:ILE:HG13	1.83	0.79
18:K:215:PRO:HA	18:K:219:LYS:HB3	1.63	0.79
18:K:262:ARG:HH12	18:K:306:PHE:HB3	1.48	0.79
21:N:368:THR:HB	21:N:403:GLY:HA3	1.64	0.79
22:O:99:LEU:HB2	22:O:135:ARG:HH22	1.46	0.79
23:P:186:LEU:HD23	23:P:189:LEU:HD12	1.63	0.79
25:R:372:ILE:HB	26:S:395:ILE:HG23	1.64	0.79
26:S:145:PHE:HB2	26:S:147:TRP:HB2	1.64	0.79
28:U:276:ILE:HA	29:V:291:ASN:HD22	1.46	0.79
30:W:67:ALA:CB	30:W:68:GLU:HB2	2.13	0.79
3:3:122:ASP:OD2	3:3:125:ASN:N	2.15	0.79
3:3:25:VAL:HG22	3:3:143:TYR:HB2	1.64	0.79
2:9:44:VAL:N	2:9:177:THR:OG1	2.10	0.79
12:E:122:ARG:HA	12:E:132:ARG:HB3	1.63	0.79
12:E:23:GLN:O	12:E:27:SER:N	2.12	0.79
16:I:161:GLN:HA	16:I:162:ASP:OD1	1.83	0.79
19:L:291:PHE:HB3	19:L:298:ASP:OD2	1.83	0.79
18:K:276:SER:HA	19:L:299:ARG:NH1	1.98	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:140:TYR:O	25:R:144:ILE:N	2.16	0.79
28:U:141:GLU:HA	28:U:152:LYS:HA	1.64	0.79
29:V:29:ILE:HA	29:V:65:VAL:HB	1.63	0.79
2:2:34:THR:N	2:2:141:ASN:HA	1.98	0.79
7:7:113:ASN:OD1	7:7:116:LEU:N	2.15	0.79
6:6:52:ASP:H	7:7:166:LYS:NZ	1.81	0.79
1:8:27:ASN:HD21	2:9:168:VAL:HG11	1.47	0.79
11:D:122:GLN:O	12:E:135:SER:N	2.10	0.79
12:E:240:ILE:C	12:E:243:LEU:HG	2.03	0.79
15:H:277:SER:O	15:H:281:GLN:NE2	2.16	0.79
19:L:114:GLU:O	19:L:117:TYR:OH	2.00	0.79
21:N:776:TYR:N	21:N:864:LYS:O	2.16	0.79
22:O:99:LEU:O	22:O:103:LYS:N	2.15	0.79
23:P:382:ASP:O	23:P:386:GLN:N	2.13	0.79
25:R:201:GLY:HA3	25:R:207:ARG:HG3	1.65	0.79
28:U:126:LYS:C	29:V:208:LYS:HZ1	1.85	0.79
33:Z:266:LYS:HE2	33:Z:290:GLU:OE2	1.82	0.79
33:Z:451:ALA:O	33:Z:455:ILE:N	2.12	0.79
33:Z:457:ILE:HA	33:Z:460:SER:HB2	1.62	0.79
1:1:223:ILE:HB	1:1:234:GLU:HB2	1.65	0.79
6:6:39:SER:OG	6:6:74:GLU:OE2	2.00	0.79
1:8:214:HIS:HD2	1:8:217:VAL:HG23	1.47	0.79
8:A:207:ILE:HD12	8:A:244:ARG:HB3	1.64	0.79
8:A:61:ASP:HB3	8:A:64:LEU:HG	1.64	0.79
14:G:12:ASN:ND2	14:G:123:HIS:O	2.15	0.79
22:O:15:ARG:HB2	30:W:18:ASN:CG	2.03	0.79
22:O:47:LYS:HA	22:O:50:ASP:HB2	1.65	0.79
24:Q:332:ARG:O	24:Q:336:ASN:ND2	2.16	0.79
31:X:75:TRP:HB3	31:X:126:ILE:HD13	1.64	0.79
33:Z:416:THR:HA	33:Z:450:GLY:HA2	1.65	0.79
2:9:193:ASP:N	2:9:197:ASP:OD2	2.15	0.79
11:D:118:GLN:O	11:D:121:THR:OG1	2.00	0.79
11:D:189:GLU:O	11:D:193:LYS:N	2.13	0.79
20:M:278:ILE:N	20:M:322:LYS:O	2.15	0.79
21:N:528:ARG:HB3	21:N:531:LEU:HB2	1.65	0.79
23:P:127:GLU:HG2	23:P:128:ASN:H	1.46	0.79
33:Z:307:HIS:NE2	33:Z:339:PHE:O	2.15	0.79
4:4:39:ASN:ND2	4:4:208:GLU:OE2	2.16	0.79
12:E:128:SER:OG	13:F:122:SER:O	2.01	0.79
18:K:271:ILE:HD12	18:K:316:MET:HG2	1.65	0.79
18:K:394:ALA:O	18:K:399:ARG:N	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:181:GLU:O	21:N:185:ILE:N	2.15	0.79
23:P:107:SER:HB3	23:P:111:ASP:OD2	1.81	0.79
29:V:267:LYS:HB3	29:V:276:PRO:HG3	1.64	0.79
1:8:55:ASN:O	2:9:189:ARG:NH2	2.16	0.79
15:H:441:LYS:HA	15:H:444:LEU:HB2	1.63	0.79
18:K:191:PRO:HB2	18:K:313:LYS:HZ3	1.44	0.79
21:N:529:GLN:HA	21:N:558:ALA:HB1	1.64	0.79
22:O:11:LEU:CD2	22:O:14:LEU:CB	2.57	0.79
22:O:152:ASP:O	22:O:156:THR:N	2.13	0.79
22:O:310:PHE:CD1	22:O:348:VAL:HG22	2.18	0.79
25:R:316:LEU:HA	25:R:322:LEU:HB3	1.64	0.79
25:R:34:THR:HG22	25:R:70:TYR:HB2	1.65	0.79
26:S:471:LEU:CB	28:U:288:PHE:HA	2.08	0.79
26:S:486:LYS:HZ2	28:U:298:ASN:CB	1.94	0.79
1:1:65:CYS:HA	1:1:88:LYS:HE2	1.65	0.78
2:2:45:ILE:HA	2:2:176:ALA:HA	1.64	0.78
3:3:26:THR:HG23	3:3:129:VAL:HG23	1.63	0.78
7:7:137:GLN:O	7:7:141:HIS:N	2.12	0.78
7:7:173:GLY:HA2	7:7:191:ASP:HA	1.65	0.78
7:7:84:GLN:HB2	7:7:222:ASP:HA	1.63	0.78
1:8:122:PHE:HZ	2:9:137:ARG:HH12	1.29	0.78
8:A:70:SER:OG	8:A:224:GLU:OE2	2.00	0.78
6:6:65:GLN:HB2	11:D:94:GLN:HE22	1.46	0.78
12:E:211:LYS:O	12:E:216:ASN:ND2	2.16	0.78
16:I:310:LEU:HD13	16:I:338:LEU:HA	1.64	0.78
21:N:46:ILE:HG23	21:N:61:ALA:HB1	1.65	0.78
24:Q:314:PHE:O	24:Q:318:LEU:N	2.12	0.78
1:1:23:PRO:O	2:2:137:ARG:NH1	2.15	0.78
7:7:82:ARG:HG3	7:7:185:PRO:HB2	1.65	0.78
1:8:108:ALA:O	1:8:112:ILE:N	2.12	0.78
9:B:242:GLU:HB3	9:B:246:ARG:HH12	1.48	0.78
10:C:28:SER:HA	10:C:31:HIS:CD2	2.18	0.78
17:J:134:VAL:HG12	17:J:135:SER:H	1.48	0.78
21:N:302:PHE:O	21:N:306:ASN:N	2.11	0.78
21:N:535:LEU:O	21:N:539:MET:N	2.11	0.78
24:Q:13:ARG:O	24:Q:17:GLU:N	2.13	0.78
25:R:115:GLU:HA	25:R:118:GLN:HB3	1.65	0.78
25:R:187:VAL:O	25:R:191:LEU:N	2.13	0.78
7:7:148:ARG:NH1	7:7:257:GLU:O	2.15	0.78
1:8:65:CYS:HA	1:8:88:LYS:HE2	1.65	0.78
15:H:253:GLY:N	15:H:256:LYS:HB3	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:8:LEU:HB2	24:Q:50:ARG:HH12	1.47	0.78
28:U:127:GLN:HA	28:U:133:PRO:HB3	1.65	0.78
9:B:185:LEU:O	9:B:189:ILE:N	2.14	0.78
10:C:50:ARG:N	10:C:210:ARG:O	2.17	0.78
11:D:34:VAL:HA	11:D:163:THR:HA	1.63	0.78
13:F:11:VAL:CG2	14:G:130:ARG:HB2	2.12	0.78
15:H:309:ASP:HA	15:H:354:ALA:HB3	1.65	0.78
16:I:108:THR:O	16:I:121:THR:N	2.12	0.78
18:K:349:ARG:NH1	18:K:375:ASN:HB3	1.98	0.78
22:O:29:PHE:HD2	22:O:61:LEU:HD11	1.49	0.78
22:O:46:THR:O	22:O:50:ASP:N	2.16	0.78
23:P:422:LEU:HB3	23:P:426:ILE:HG13	1.64	0.78
29:V:37:MET:SD	29:V:68:VAL:HG22	2.23	0.78
30:W:16:SER:H	30:W:115:CYS:HB3	1.48	0.78
33:Z:223:LEU:O	33:Z:227:ILE:N	2.13	0.78
33:Z:509:LEU:O	33:Z:513:ALA:N	2.16	0.78
3:3:59:LYS:HD3	3:3:121:TYR:HD2	1.48	0.78
11:D:174:PHE:O	11:D:178:ASN:ND2	2.16	0.78
13:F:13:PHE:CE2	14:G:131:PRO:CD	2.52	0.78
22:O:166:ARG:HH12	22:O:170:SER:CB	1.96	0.78
26:S:461:PHE:O	26:S:465:ILE:HG13	1.84	0.78
33:Z:741:LEU:HB2	33:Z:775:MET:HE2	1.66	0.78
6:6:41:HIS:CD2	6:6:109:LYS:HD3	2.18	0.78
6:6:67:TYR:HA	6:6:70:ARG:NH1	1.99	0.78
12:E:28:LEU:HA	12:E:31:ILE:HD12	1.65	0.78
15:H:184:GLU:N	15:H:185:LEU:HA	1.97	0.78
18:K:96:ILE:HD12	19:L:126:ARG:HB3	1.66	0.78
20:M:78:LEU:HG	20:M:150:LYS:HE2	1.65	0.78
21:N:463:TYR:HA	21:N:485:MET:HG2	1.66	0.78
21:N:499:HIS:O	21:N:503:THR:N	2.14	0.78
23:P:144:VAL:HG13	23:P:156:ALA:HB1	1.66	0.78
23:P:140:THR:HG23	23:P:159:ILE:HG13	1.65	0.78
24:Q:247:HIS:ND1	24:Q:289:GLU:HG2	1.97	0.78
29:V:154:ASP:OD1	29:V:155:ALA:N	2.17	0.78
4:4:138:HIS:HB3	4:4:140:PHE:HE2	1.48	0.78
8:A:46:ARG:NH2	8:A:167:LYS:HA	1.99	0.78
10:C:49:GLU:OE2	10:C:210:ARG:NH2	2.16	0.78
10:C:218:LYS:HB2	10:C:225:VAL:HG22	1.66	0.78
11:D:16:HIS:HB3	11:D:21:GLU:OE2	1.84	0.78
10:C:161:LYS:HE3	11:D:56:ASP:HA	1.66	0.78
21:N:47:GLU:OE2	21:N:69:TYR:OH	2.00	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:238:ALA:HB2	23:P:267:PHE:HB2	1.64	0.78
23:P:245:TYR:CZ	23:P:261:LEU:HB2	2.19	0.78
26:S:293:ILE:HG22	26:S:297:ILE:HD12	1.65	0.78
1:1:221:LEU:N	1:1:236:TYR:O	2.15	0.78
2:2:42:THR:CG2	2:2:74:ARG:CZ	2.62	0.78
16:I:106:ILE:HD11	17:J:85:LEU:HG	1.66	0.78
18:K:342:SER:OG	18:K:379:SER:CB	2.32	0.78
22:O:176:SER:O	22:O:180:LYS:N	2.14	0.78
23:P:309:MET:HA	23:P:370:ASP:OD2	1.84	0.78
23:P:40:LEU:O	23:P:44:LYS:NZ	2.17	0.78
24:Q:358:GLU:HA	24:Q:396:TRP:HA	1.66	0.78
25:R:347:THR:HA	25:R:389:GLU:OE2	1.83	0.78
24:Q:413:LEU:HD11	25:R:406:GLN:CD	2.04	0.78
26:S:30:GLN:O	26:S:34:LEU:N	2.14	0.78
30:W:186:ALA:HA	30:W:191:ILE:HD11	1.66	0.78
33:Z:557:GLU:HB2	33:Z:562:TRP:CD1	2.18	0.78
33:Z:557:GLU:HB2	33:Z:562:TRP:HD1	1.49	0.78
5:5:43:ILE:HA	5:5:52:GLY:HA2	1.65	0.78
7:7:179:TYR:HA	7:7:185:PRO:HA	1.66	0.78
2:9:34:THR:N	2:9:141:ASN:HA	1.98	0.78
2:9:45:ILE:HA	2:9:176:ALA:HA	1.64	0.78
8:A:55:SER:HB3	8:A:224:GLU:HB3	1.66	0.78
12:E:201:LEU:HG	12:E:243:LEU:HD13	1.65	0.78
14:G:52:LYS:HB2	14:G:213:GLU:HB3	1.66	0.78
14:G:46:VAL:HG13	14:G:146:ALA:HB1	1.66	0.78
9:B:102:GLY:HA3	17:J:89:GLN:HE21	162.72	0.78
18:K:51:LEU:O	18:K:55:GLU:N	2.17	0.78
22:O:342:ASP:HB3	22:O:347:LEU:HB2	1.66	0.78
23:P:218:LEU:HD21	23:P:248:ASP:OD2	1.84	0.78
24:Q:190:ASN:HB3	24:Q:193:LYS:HD2	1.65	0.78
25:R:310:GLU:O	25:R:314:ASN:ND2	2.16	0.78
2:9:232:ILE:HB	2:9:240:THR:HB	1.65	0.78
14:G:175:GLU:HA	14:G:178:LYS:HD2	1.66	0.78
19:L:110:LYS:HE2	19:L:118:ILE:HD12	1.66	0.78
22:O:15:ARG:HH21	30:W:144:PHE:C	1.82	0.78
22:O:310:PHE:N	22:O:346:GLU:O	2.17	0.78
23:P:204:LEU:HD11	23:P:217:LYS:HD3	1.66	0.78
23:P:414:GLU:O	23:P:418:ASN:N	2.13	0.78
23:P:56:LYS:HD3	23:P:92:SER:HA	1.64	0.78
24:Q:135:HIS:O	24:Q:139:ILE:N	2.14	0.78
25:R:205:GLU:O	25:R:208:ASN:N	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:382:LEU:O	25:R:263:ARG:NH1	2.15	0.78
28:U:141:GLU:HA	28:U:152:LYS:CA	2.13	0.78
28:U:165:GLU:N	29:V:42:ARG:HH12	1.82	0.78
3:3:88:GLN:HA	8:A:98:LYS:NZ	1.99	0.77
4:4:46:ASP:OD1	4:4:62:LYS:NZ	2.16	0.77
5:5:18:LYS:HD3	5:5:157:ASN:HB3	1.67	0.77
8:A:102:ALA:O	8:A:106:TYR:N	2.13	0.77
12:E:144:ILE:HB	12:E:156:PHE:HB2	1.64	0.77
16:I:196:GLU:OE1	16:I:346:ARG:NH2	2.17	0.77
17:J:54:LYS:O	17:J:58:ILE:N	2.15	0.77
22:O:11:LEU:HD23	22:O:14:LEU:HD12	1.16	0.77
22:O:155:LYS:HA	22:O:158:ASP:OD2	1.83	0.77
22:O:196:LEU:O	22:O:200:GLU:N	2.17	0.77
22:O:43:GLU:HA	22:O:47:LYS:HD3	1.64	0.77
21:N:95:SER:HB2	26:S:219:LYS:NZ	1.99	0.77
27:T:178:THR:HG22	27:T:182:LYS:HZ2	1.49	0.77
28:U:23:GLU:O	28:U:26:GLN:NE2	2.17	0.77
33:Z:497:PHE:HB3	33:Z:501:LYS:HA	1.66	0.77
1:1:108:ALA:O	1:1:112:ILE:N	2.12	0.77
1:1:214:HIS:HD2	1:1:217:VAL:HG23	1.47	0.77
3:3:41:THR:N	3:3:44:TYR:O	2.11	0.77
5:5:59:ASP:OD2	5:5:104:PHE:N	2.15	0.77
1:8:21:PHE:CZ	2:9:137:ARG:HG3	2.19	0.77
8:A:88:PRO:HB3	14:G:155:GLY:HA3	1.65	0.77
11:D:44:LEU:N	11:D:213:THR:O	2.14	0.77
14:G:121:GLN:O	14:G:124:THR:OG1	2.02	0.77
21:N:376:LYS:HA	21:N:411:ILE:HG12	1.65	0.77
22:O:149:LEU:O	22:O:153:LEU:N	2.14	0.77
22:O:243:VAL:HG12	22:O:248:TYR:HB3	1.64	0.77
24:Q:137:LEU:HA	24:Q:140:LYS:NZ	1.99	0.77
27:T:97:SER:O	27:T:98:GLU:HG3	1.84	0.77
24:Q:408:THR:HG22	29:V:255:ILE:HD11	1.66	0.77
1:8:223:ILE:HB	1:8:234:GLU:HB2	1.65	0.77
10:C:137:TYR:HB2	10:C:149:TYR:HB2	1.67	0.77
10:C:16:GLU:O	11:D:29:ARG:NH1	2.39	0.77
12:E:205:LYS:HZ1	12:E:211:LYS:HE2	1.48	0.77
12:E:240:ILE:HA	12:E:243:LEU:HD21	1.64	0.77
16:I:384:LYS:NZ	16:I:392:ILE:HG12	1.99	0.77
19:L:215:PRO:HD2	19:L:322:LYS:HZ1	1.49	0.77
21:N:420:THR:HG23	21:N:450:ILE:HA	1.65	0.77
17:J:52:ASN:HD21	21:N:612:SER:HA	1.47	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:56:ARG:HB3	21:N:613:HIS:HA	1.65	0.77
22:O:167:ILE:HG23	22:O:168:THR:H	1.49	0.77
22:O:280:LEU:O	22:O:284:GLU:N	2.12	0.77
25:R:79:LEU:HD23	25:R:95:ASP:HA	1.66	0.77
26:S:131:THR:O	26:S:135:ASN:N	2.11	0.77
26:S:475:TYR:HD1	26:S:476:LEU:H	1.32	0.77
1:1:134:ASP:OD1	1:1:138:LYS:N	2.16	0.77
8:A:30:TYR:CD1	14:G:17:PRO:HA	2.20	0.77
8:A:37:GLN:HE22	14:G:20:ARG:HG2	1.65	0.77
19:L:107:GLU:HG2	19:L:145:ARG:HA	1.67	0.77
19:L:278:ILE:N	19:L:322:LYS:O	2.14	0.77
19:L:387:ASN:OD1	19:L:390:ASP:N	2.12	0.77
20:M:200:PRO:HB3	20:M:215:PRO:HD2	1.67	0.77
21:N:308:ASN:HD22	21:N:873:ARG:HH12	1.32	0.77
25:R:223:ASN:O	25:R:226:GLU:N	2.17	0.77
26:S:378:GLN:O	26:S:382:ARG:NH1	2.17	0.77
26:S:436:ILE:HB	27:T:197:TYR:HE1	1.49	0.77
26:S:1:MET:H2	26:S:4:THR:HG23	1.50	0.77
29:V:88:GLN:O	29:V:92:MET:N	2.11	0.77
5:5:29:LEU:N	5:5:37:SER:O	2.18	0.77
7:7:156:LYS:HE2	11:D:101:GLU:OE2	1.84	0.77
11:D:176:GLU:HA	12:E:58:LEU:HD21	2.81	0.77
15:H:327:ASN:O	15:H:331:ARG:N	2.15	0.77
15:H:214:CYS:HA	15:H:378:SER:HB2	1.65	0.77
19:L:170:MET:HG2	19:L:266:MET:HG3	1.67	0.77
19:L:77:ARG:NH1	20:M:16:ASP:HA	1.99	0.77
20:M:125:GLN:OE1	20:M:153:TYR:OH	2.00	0.77
21:N:227:LYS:NZ	21:N:723:GLY:O	2.17	0.77
22:O:72:LYS:HG3	22:O:73:ILE:HD12	1.65	0.77
23:P:133:GLU:HA	23:P:136:ARG:HG3	1.65	0.77
23:P:154:ASP:O	23:P:158:ASP:N	2.16	0.77
23:P:180:ILE:HG23	23:P:199:LEU:HB3	1.67	0.77
24:Q:267:LEU:HD12	24:Q:270:ILE:HB	1.67	0.77
25:R:50:VAL:HA	25:R:53:LYS:HB2	1.67	0.77
28:U:140:ILE:O	28:U:153:THR:N	2.16	0.77
33:Z:307:HIS:O	33:Z:311:ALA:N	2.16	0.77
1:1:35:ALA:O	1:1:154:GLN:NE2	2.18	0.77
3:3:74:ILE:HA	3:3:77:ILE:HD12	1.67	0.77
6:6:5:LEU:HD21	6:6:136:SER:HB3	1.65	0.77
12:E:146:GLY:HA2	12:E:222:ILE:HD13	1.67	0.77
16:I:108:THR:HA	16:I:146:SER:HA	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:57:ASP:O	21:N:60:MET:N	2.18	0.77
24:Q:417:GLY:C	24:Q:421:LYS:HZ1	1.87	0.77
25:R:359:VAL:HA	32:Y:82:ASP:HB3	1.66	0.77
31:X:113:GLU:OE1	31:X:115:SER:OG	2.03	0.77
3:3:12:LYS:HE2	4:4:120:GLN:HB3	1.66	0.77
3:3:194:MET:O	3:3:205:LEU:N	2.18	0.77
5:5:62:THR:HA	6:6:85:ARG:HH22	1.49	0.77
6:6:104:ILE:HB	6:6:117:TYR:HB2	1.67	0.77
7:7:189:TYR:N	7:7:197:LEU:O	2.17	0.77
8:A:236:LEU:HB3	8:A:240:ASN:HB2	1.65	0.77
14:G:126:TYR:O	14:G:129:VAL:CG2	2.33	0.77
15:H:308:PHE:O	15:H:354:ALA:N	2.17	0.77
19:L:379:ALA:HB2	19:L:415:LEU:HD21	1.66	0.77
22:O:242:ILE:HG13	22:O:243:VAL:HG13	1.66	0.77
23:P:147:LYS:HB3	23:P:152:LYS:HB2	1.64	0.77
23:P:17:PHE:O	23:P:21:ASP:N	2.17	0.77
23:P:392:LYS:NZ	24:Q:356:CYS:SG	2.58	0.77
24:Q:245:SER:O	24:Q:249:LEU:N	2.14	0.77
26:S:273:PHE:HA	26:S:276:LEU:HB3	1.66	0.77
30:W:164:PRO:O	30:W:168:THR:OG1	2.00	0.77
5:5:18:LYS:N	5:5:158:LEU:O	2.17	0.77
6:6:82:SER:HB3	10:C:103:ASN:HD22	1.49	0.77
19:L:303:ARG:O	19:L:307:GLU:N	2.18	0.77
17:J:26:LYS:HZ2	21:N:107:GLU:H	1.32	0.77
24:Q:281:ILE:O	24:Q:287:THR:OG1	2.01	0.77
26:S:287:SER:O	26:S:291:GLU:N	2.14	0.77
7:7:78:THR:N	7:7:204:VAL:O	2.14	0.77
1:8:35:ALA:O	1:8:154:GLN:NE2	2.18	0.77
5:5:115:LYS:NZ	9:B:141:GLU:OE2	2.16	0.77
13:F:13:PHE:CZ	14:G:131:PRO:HD2	2.18	0.77
15:H:234:ARG:O	15:H:238:LEU:N	2.16	0.77
16:I:109:LEU:HB2	16:I:145:CYS:H	1.49	0.77
16:I:336:PRO:O	16:I:340:ARG:N	2.11	0.77
18:K:405:SER:O	18:K:409:GLU:N	2.13	0.77
20:M:392:LYS:HA	20:M:395:THR:HB	1.65	0.77
20:M:401:ILE:O	20:M:405:ASN:N	2.17	0.77
21:N:642:ASP:O	21:N:645:THR:OG1	2.03	0.77
21:N:740:TRP:HE3	29:V:24:LYS:HZ3	0.82	0.77
21:N:770:LYS:HD3	21:N:870:ASN:HD21	1.49	0.77
24:Q:80:HIS:O	24:Q:84:TYR:N	2.15	0.77
33:Z:369:PHE:CD2	33:Z:390:LEU:HD21	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:232:ILE:HB	2:2:240:THR:HB	1.65	0.77
1:8:221:LEU:N	1:8:236:TYR:O	2.15	0.77
1:8:36:GLY:H	1:8:40:ALA:HA	1.49	0.77
8:A:156:LYS:NZ	8:A:175:GLN:HE22	1.82	0.77
12:E:186:GLU:HG3	12:E:203:ILE:HD11	1.66	0.77
15:H:395:SER:O	16:I:319:ARG:NH2	2.15	0.77
16:I:248:VAL:HG13	16:I:283:GLU:HB3	1.67	0.77
22:O:220:SER:O	22:O:224:GLY:N	2.17	0.77
23:P:435:LYS:HZ2	28:U:156:HIS:HB3	1.47	0.77
24:Q:267:LEU:O	24:Q:271:MET:N	2.15	0.77
28:U:211:LEU:O	28:U:215:ILE:N	2.18	0.77
30:W:158:ILE:O	30:W:169:SER:OG	2.03	0.77
30:W:2:VAL:HG13	30:W:4:GLU:HG2	1.67	0.77
33:Z:285:ALA:HB2	33:Z:297:VAL:HG21	1.66	0.77
1:1:36:GLY:H	1:1:40:ALA:HA	1.49	0.76
7:7:93:SER:OG	7:7:249:SER:N	2.18	0.76
10:C:15:PRO:HA	11:D:22:TYR:CD1	2.19	0.76
13:F:166:GLN:HA	13:F:169:LYS:HB3	1.67	0.76
15:H:247:LEU:HD22	15:H:361:LEU:HD11	1.67	0.76
17:J:219:VAL:HG22	17:J:268:VAL:HG23	1.67	0.76
18:K:159:SER:OG	18:K:241:GLU:O	2.03	0.76
19:L:82:ARG:HA	19:L:85:GLU:HB3	1.67	0.76
21:N:86:LYS:HE3	21:N:132:LYS:HE2	1.67	0.76
22:O:100:ASP:OD1	22:O:103:LYS:NZ	2.17	0.76
22:O:15:ARG:CZ	30:W:144:PHE:CE2	2.68	0.76
23:P:104:LEU:O	23:P:107:SER:HB2	1.86	0.76
23:P:365:LEU:O	23:P:369:LEU:N	2.15	0.76
25:R:290:SER:HA	25:R:293:THR:HB	1.65	0.76
25:R:309:LEU:HA	25:R:312:TYR:HB3	1.66	0.76
26:S:239:ARG:O	26:S:243:ASN:N	2.18	0.76
29:V:246:LYS:HE2	29:V:250:GLN:HE21	1.50	0.76
6:6:64:ILE:O	6:6:68:SER:N	2.17	0.76
6:6:86:GLN:HG2	6:6:90:LYS:HE3	1.68	0.76
2:9:135:GLN:O	2:9:139:LYS:N	2.17	0.76
3:3:138:VAL:H	2:9:94:GLN:NE2	1.83	0.76
10:C:45:VAL:HG22	10:C:186:VAL:HG13	1.67	0.76
11:D:26:ALA:O	11:D:30:GLY:N	2.18	0.76
11:D:160:SER:N	12:E:58:LEU:O	2.17	0.76
8:A:91:ARG:NH1	14:G:157:TYR:H	1.80	0.76
19:L:82:ARG:HB3	19:L:86:LYS:NZ	2.01	0.76
21:N:308:ASN:HB3	21:N:711:ARG:HH11	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:119:ILE:HG22	23:P:120:GLU:HG3	1.68	0.76
23:P:258:LYS:NZ	23:P:290:LEU:HD11	1.99	0.76
24:Q:362:ILE:O	24:Q:366:ILE:N	2.17	0.76
25:R:225:LYS:HD2	25:R:260:THR:HB	1.67	0.76
22:O:380:LEU:HD13	27:T:258:ASN:HD22	1.47	0.76
28:U:8:VAL:HG22	28:U:46:ILE:HB	1.66	0.76
33:Z:488:ALA:O	33:Z:492:GLY:N	2.19	0.76
2:2:153:GLN:N	2:2:157:ASP:O	2.16	0.76
3:3:68:ALA:O	3:3:72:GLN:N	2.15	0.76
10:C:20:TYR:O	10:C:24:TYR:N	2.16	0.76
16:I:236:VAL:HA	16:I:239:GLN:HB3	1.67	0.76
16:I:266:GLN:HA	16:I:269:LYS:HD2	1.65	0.76
21:N:649:VAL:HB	21:N:652:VAL:HG23	1.67	0.76
21:N:769:PRO:HB2	21:N:914:VAL:HG22	1.68	0.76
22:O:301:PHE:HB2	22:O:305:ILE:HG12	1.67	0.76
25:R:58:GLU:OE2	25:R:109:LYS:NZ	2.18	0.76
31:X:30:GLN:HG2	31:X:100:TRP:CZ3	2.21	0.76
1:1:64:ASP:HA	1:1:70:VAL:HA	1.67	0.76
2:2:254:PHE:HA	2:2:256:LYS:HZ3	1.50	0.76
4:4:170:HIS:HB2	4:4:183:LEU:HD13	1.68	0.76
11:D:37:LYS:HA	11:D:42:VAL:HA	1.68	0.76
12:E:154:GLN:HB3	12:E:156:PHE:HE2	1.51	0.76
13:F:90:GLN:O	13:F:94:TYR:N	2.12	0.76
16:I:403:ALA:HB1	16:I:408:ARG:HG3	1.67	0.76
19:L:111:GLU:OE2	19:L:114:GLU:HA	1.85	0.76
19:L:290:ARG:NH1	19:L:302:GLN:HB2	2.00	0.76
20:M:216:LYS:HD2	20:M:315:PHE:HB2	1.67	0.76
21:N:360:GLN:O	21:N:364:LYS:N	2.16	0.76
21:N:775:CYS:H	21:N:882:ILE:HG23	1.50	0.76
23:P:10:SER:O	23:P:14:LYS:N	2.18	0.76
23:P:222:ASN:C	23:P:226:LYS:HZ3	1.88	0.76
25:R:64:LYS:O	25:R:81:HIS:NE2	2.18	0.76
27:T:106:ILE:O	27:T:110:LEU:N	2.14	0.76
31:X:117:LYS:HE3	31:X:121:ILE:HG12	1.66	0.76
5:5:56:LEU:N	5:5:104:PHE:O	2.19	0.76
2:9:153:GLN:N	2:9:157:ASP:O	2.16	0.76
13:F:93:ASN:O	13:F:97:LEU:N	2.16	0.76
16:I:358:LYS:HD3	16:I:384:LYS:HD2	1.66	0.76
17:J:143:PRO:HG2	17:J:210:PHE:HB3	1.68	0.76
21:N:306:ASN:O	21:N:712:ASN:ND2	2.18	0.76
21:N:759:ILE:HG22	21:N:903:VAL:HG11	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:273:PHE:HB3	26:S:292:TYR:HB3	1.67	0.76
27:T:131:LYS:O	27:T:135:ASN:ND2	2.18	0.76
28:U:104:LEU:HD13	28:U:152:LYS:NZ	2.00	0.76
31:X:34:GLU:HB2	31:X:49:GLU:HB3	1.67	0.76
1:1:139:GLY:O	1:1:152:ARG:NH2	2.18	0.76
1:1:219:ASP:HA	1:1:240:ARG:HG2	1.67	0.76
16:I:137:ASP:HB3	16:I:140:LEU:HG	1.66	0.76
17:J:353:CYS:SG	17:J:393:ASN:ND2	2.59	0.76
20:M:220:MET:HB2	20:M:326:ALA:HA	1.64	0.76
20:M:70:LYS:HB3	29:V:75:GLY:H	1.50	0.76
25:R:300:ASP:OD2	25:R:303:SER:OG	2.04	0.76
23:P:426:ILE:O	29:V:234:GLU:OE2	2.04	0.76
33:Z:139:LEU:HA	33:Z:203:LEU:HB2	1.67	0.76
5:5:28:ARG:HB2	5:5:183:TRP:HB2	1.66	0.76
7:7:110:ILE:O	7:7:118:GLY:N	2.18	0.76
2:9:232:ILE:N	2:9:240:THR:O	2.16	0.76
2:9:42:THR:CG2	2:9:74:ARG:CZ	2.63	0.76
11:D:18:PHE:HB3	11:D:22:TYR:CZ	2.20	0.76
21:N:189:LEU:O	21:N:193:ALA:N	2.14	0.76
24:Q:8:LEU:HG	24:Q:12:ARG:HH12	1.51	0.76
25:R:288:SER:HA	25:R:292:LEU:HG	1.65	0.76
24:Q:423:VAL:HG13	25:R:417:TYR:OH	1.86	0.76
30:W:8:LEU:HD23	30:W:51:LEU:HD13	1.66	0.76
1:1:180:GLU:OE2	1:1:189:LYS:HA	1.84	0.76
2:2:135:GLN:O	2:2:139:LYS:N	2.17	0.76
4:4:75:ALA:N	4:4:126:TYR:O	2.19	0.76
1:8:64:ASP:HA	1:8:70:VAL:HA	1.67	0.76
14:G:179:LEU:HA	14:G:182:HIS:HB2	1.68	0.76
14:G:220:SER:OG	14:G:222:SER:OG	2.04	0.76
23:P:422:LEU:HB3	23:P:426:ILE:HD11	1.66	0.76
24:Q:277:ASP:O	24:Q:281:ILE:N	2.13	0.76
24:Q:315:ASN:HA	24:Q:318:LEU:HB3	1.68	0.76
25:R:191:LEU:HD11	25:R:210:TYR:HA	1.68	0.76
33:Z:516:THR:HG22	33:Z:556:ILE:HG22	1.68	0.76
4:4:117:PHE:O	4:4:120:GLN:NE2	2.18	0.76
8:A:182:LEU:O	8:A:186:PHE:N	2.16	0.76
9:B:25:LEU:HA	9:B:28:VAL:HB	1.67	0.76
12:E:151:ASP:HB3	12:E:166:ARG:NH1	1.99	0.76
15:H:445:LYS:O	15:H:449:LYS:N	2.16	0.76
17:J:164:ILE:HA	17:J:289:LYS:HE3	1.67	0.76
18:K:381:ALA:O	18:K:385:ALA:N	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:74:GLN:HE21	20:M:77:TYR:HA	1.50	0.76
22:O:311:GLU:O	22:O:315:LYS:N	2.17	0.76
23:P:254:GLU:HA	23:P:257:TRP:HE3	1.48	0.76
27:T:266:TYR:HA	27:T:269:SER:HB2	1.67	0.76
27:T:59:LYS:HE3	27:T:94:HIS:HE1	1.51	0.76
29:V:249:GLU:O	29:V:253:LYS:N	2.17	0.76
29:V:37:MET:HG2	29:V:108:TYR:CE2	2.21	0.76
33:Z:209:PRO:HA	33:Z:212:LEU:HB3	1.66	0.76
33:Z:369:PHE:CG	33:Z:390:LEU:HD21	2.21	0.76
1:8:219:ASP:HA	1:8:240:ARG:HG2	1.67	0.76
2:9:44:VAL:H	2:9:177:THR:HG1	1.30	0.76
8:A:41:ASN:HA	8:A:172:GLY:HA3	1.67	0.76
17:J:137:MET:HA	17:J:213:VAL:HA	1.66	0.76
17:J:165:GLU:HG3	17:J:202:VAL:HG13	1.67	0.76
17:J:142:VAL:H	17:J:209:LYS:HA	1.50	0.76
17:J:26:LYS:HZ2	21:N:107:GLU:N	1.83	0.76
18:K:365:GLU:HG2	18:K:404:GLN:HB3	1.68	0.76
21:N:174:LEU:HD11	21:N:213:PHE:HD1	1.49	0.76
22:O:296:LEU:HD23	22:O:300:VAL:HG21	1.68	0.76
22:O:343:GLN:HG2	23:P:364:ARG:HG2	1.68	0.76
23:P:429:ILE:HD12	28:U:229:LEU:HA	1.66	0.76
25:R:61:PRO:HD3	25:R:102:LEU:HD11	1.68	0.76
26:S:136:CYS:O	26:S:140:LEU:N	2.19	0.76
26:S:402:ILE:HG21	26:S:406:ASP:OD2	1.86	0.76
33:Z:158:ALA:O	33:Z:162:GLY:N	2.19	0.76
1:1:37:GLU:O	1:1:138:LYS:HA	1.85	0.75
1:8:139:GLY:O	1:8:152:ARG:NH2	2.18	0.75
15:H:167:ASP:HB3	15:H:174:VAL:HG11	1.68	0.75
15:H:217:GLN:O	15:H:221:LEU:N	2.18	0.75
15:H:264:ALA:HB2	15:H:305:ILE:HD12	1.66	0.75
19:L:171:THR:O	19:L:245:PHE:N	2.19	0.75
19:L:353:ASN:O	19:L:357:ARG:N	2.13	0.75
21:N:921:ARG:O	21:N:925:ASP:N	2.18	0.75
22:O:196:LEU:HD23	22:O:233:LEU:HD11	1.67	0.75
24:Q:163:ARG:HA	24:Q:166:LYS:HD2	1.68	0.75
25:R:285:ALA:C	25:R:286:LEU:HG	2.05	0.75
26:S:15:VAL:HG13	26:S:18:LEU:HD12	1.69	0.75
26:S:423:VAL:HG21	26:S:436:ILE:HD11	1.68	0.75
26:S:435:LYS:O	26:S:444:GLU:N	2.15	0.75
33:Z:348:LEU:HD13	33:Z:922:PRO:HD2	1.66	0.75
5:5:45:HIS:HA	5:5:50:PHE:HA	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:93:SER:OG	7:7:104:GLN:O	2.03	0.75
10:C:240:VAL:HA	10:C:245:THR:HA	1.68	0.75
10:C:43:GLY:HA2	10:C:146:TYR:CZ	2.21	0.75
10:C:51:LYS:HG2	10:C:52:VAL:HG23	1.69	0.75
11:D:120:TYR:HA	11:D:123:SER:HB2	1.68	0.75
16:I:220:ILE:HG13	16:I:344:ILE:HG21	1.68	0.75
21:N:683:LEU:O	21:N:687:THR:N	2.17	0.75
21:N:877:GLN:O	21:N:880:ARG:N	2.19	0.75
23:P:112:LEU:O	23:P:116:ILE:N	2.18	0.75
23:P:184:MET:HG2	23:P:196:ALA:HA	1.67	0.75
24:Q:339:TYR:HA	24:Q:342:LEU:HD12	1.66	0.75
25:R:341:LEU:O	25:R:344:SER:OG	2.04	0.75
26:S:290:ASN:O	26:S:294:ILE:N	2.15	0.75
29:V:232:GLU:HA	29:V:235:GLU:HB3	1.68	0.75
32:Y:76:GLU:HA	32:Y:79:ALA:HB3	1.68	0.75
6:6:49:GLU:N	6:6:99:GLN:O	2.13	0.75
1:8:180:GLU:OE2	1:8:189:LYS:HA	1.84	0.75
2:9:73:GLU:OE2	2:9:75:LEU:HB2	1.87	0.75
9:B:184:GLU:HB3	9:B:187:ASP:OD2	1.86	0.75
11:D:35:GLY:N	11:D:162:GLN:O	2.16	0.75
17:J:32:LEU:HA	17:J:35:ARG:HB3	1.67	0.75
18:K:122:ILE:HB	18:K:146:LEU:HD23	1.67	0.75
19:L:175:GLN:HB3	19:L:237:ALA:HA	1.66	0.75
21:N:582:ASP:HA	21:N:585:ARG:HB3	1.67	0.75
23:P:144:VAL:O	23:P:148:LYS:N	2.14	0.75
24:Q:71:LYS:HE3	24:Q:113:ASP:OD2	1.86	0.75
24:Q:383:ASP:OD1	25:R:263:ARG:NH2	2.18	0.75
27:T:260:ILE:HG22	27:T:264:MET:HE2	1.69	0.75
29:V:51:GLY:HA2	29:V:71:MET:HG2	1.68	0.75
7:7:191:ASP:OD2	7:7:193:ASP:HB2	1.86	0.75
1:8:30:THR:HA	1:8:159:GLY:HA3	1.69	0.75
2:9:242:LYS:HB3	2:9:245:LEU:HD11	1.68	0.75
2:9:254:PHE:HA	2:9:256:LYS:HZ3	1.49	0.75
3:3:102:LYS:NZ	2:9:94:GLN:HB3	2.01	0.75
11:D:226:SER:O	11:D:230:ASN:N	2.19	0.75
12:E:213:ASP:OD1	12:E:216:ASN:N	2.19	0.75
15:H:163:VAL:HG12	15:H:164:SER:H	1.51	0.75
15:H:330:GLN:O	15:H:334:LEU:N	2.14	0.75
18:K:208:GLY:N	18:K:333:ARG:O	2.19	0.75
18:K:394:ALA:HB1	18:K:399:ARG:HB2	1.68	0.75
19:L:150:ILE:HG23	19:L:151:THR:HG23	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:50:TYR:HA	21:N:58:ARG:HB2	1.69	0.75
21:N:781:ALA:H	21:N:878:GLN:HE22	1.33	0.75
23:P:350:LEU:O	23:P:354:SER:N	2.19	0.75
23:P:48:GLN:HG2	23:P:86:HIS:HB2	1.68	0.75
24:Q:267:LEU:HA	24:Q:270:ILE:HB	1.69	0.75
24:Q:375:GLY:O	24:Q:379:GLN:N	2.18	0.75
25:R:205:GLU:HG3	25:R:208:ASN:HD22	1.52	0.75
26:S:437:ASN:HB3	26:S:439:GLU:HG2	1.68	0.75
27:T:261:GLU:O	27:T:265:ASP:N	2.12	0.75
27:T:39:LEU:HD22	27:T:55:LEU:HB2	1.69	0.75
28:U:205:LYS:O	28:U:209:GLU:N	2.14	0.75
29:V:108:TYR:HA	29:V:139:VAL:HB	1.68	0.75
33:Z:785:VAL:HG21	33:Z:864:MET:HB3	1.69	0.75
2:2:44:VAL:N	2:2:177:THR:HG1	1.82	0.75
3:3:63:CYS:HB2	3:3:117:ILE:HB	1.68	0.75
4:4:178:GLU:HA	4:4:181:ILE:HB	1.68	0.75
11:D:216:LYS:N	11:D:220:ASP:O	2.18	0.75
16:I:279:VAL:HB	16:I:324:VAL:HA	1.69	0.75
17:J:200:ARG:O	17:J:204:HIS:N	2.16	0.75
18:K:241:GLU:O	19:L:256:ILE:HG12	1.86	0.75
21:N:363:ALA:HA	21:N:366:THR:HB	1.69	0.75
22:O:58:ARG:HG2	22:O:61:LEU:HD12	1.67	0.75
22:O:99:LEU:HG	22:O:103:LYS:HG2	1.69	0.75
23:P:409:SER:HA	28:U:268:LYS:NZ	2.00	0.75
2:2:232:ILE:N	2:2:240:THR:O	2.16	0.75
6:6:13:VAL:HB	6:6:184:VAL:HB	1.67	0.75
18:K:235:ILE:O	18:K:270:PHE:N	2.19	0.75
24:Q:253:ASN:HD21	24:Q:258:ALA:N	1.85	0.75
24:Q:27:TYR:HA	24:Q:30:LEU:HG	1.68	0.75
24:Q:24:GLU:O	24:Q:28:LEU:N	2.19	0.75
25:R:294:ILE:O	25:R:298:ALA:N	2.18	0.75
26:S:436:ILE:HB	27:T:197:TYR:CE1	2.21	0.75
11:D:48:ARG:N	11:D:209:ASN:O	2.18	0.75
15:H:149:LEU:N	15:H:177:ASP:OD2	2.20	0.75
16:I:253:ILE:HD11	16:I:255:LYS:HE2	1.67	0.75
22:O:238:ILE:O	22:O:242:ILE:HG12	1.87	0.75
23:P:238:ALA:HB1	23:P:264:ILE:HG23	1.68	0.75
25:R:349:SER:HA	25:R:387:ILE:HA	1.67	0.75
28:U:124:ASP:N	28:U:133:PRO:O	2.16	0.75
26:S:472:HIS:CE1	28:U:283:ARG:HH12	2.05	0.75
1:1:31:ILE:N	1:1:158:GLY:O	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:43:SER:O	2:2:74:ARG:NH2	2.19	0.75
8:A:177:GLU:OE1	8:A:177:GLU:N	2.19	0.75
9:B:33:THR:OG1	9:B:167:GLY:N	2.16	0.75
11:D:73:LEU:HD12	11:D:135:ILE:HG12	1.69	0.75
13:F:148:GLN:O	13:F:151:GLY:N	2.20	0.75
15:H:406:LEU:HA	15:H:409:ARG:HH11	1.52	0.75
17:J:160:ILE:HA	17:J:163:VAL:HG12	1.69	0.75
19:L:71:ASP:C	19:L:75:LYS:HZ3	1.89	0.75
21:N:777:ALA:HB2	21:N:881:TYR:HB2	1.68	0.75
22:O:147:ARG:HA	22:O:150:LEU:HB3	1.68	0.75
23:P:57:GLU:HA	23:P:60:ALA:HB3	1.69	0.75
24:Q:413:LEU:O	24:Q:417:GLY:N	2.16	0.75
25:R:354:ALA:HB1	25:R:361:VAL:HA	1.68	0.75
28:U:64:ASP:OD1	28:U:105:LYS:NZ	2.20	0.75
1:1:21:PHE:HZ	2:2:137:ARG:HG3	1.50	0.75
8:A:244:ARG:O	8:A:248:ILE:N	2.53	0.75
8:A:26:TYR:O	8:A:30:TYR:N	2.20	0.75
10:C:117:ASP:OD1	11:D:83:ARG:NE	2.20	0.75
15:H:262:ALA:O	15:H:266:ARG:N	2.13	0.75
16:I:250:SER:O	16:I:253:ILE:CG2	2.32	0.75
19:L:216:LYS:N	19:L:344:ASP:OD2	2.17	0.75
19:L:411:ASN:OD1	19:L:414:ASP:N	2.15	0.75
21:N:141:ILE:O	21:N:145:LEU:N	2.18	0.75
21:N:512:ASN:HA	21:N:515:ARG:HH11	1.52	0.75
26:S:280:ASN:HB2	26:S:289:ALA:HB2	1.69	0.75
26:S:330:LEU:HD13	26:S:342:LEU:HD11	1.69	0.75
26:S:430:GLY:C	26:S:432:ILE:H	1.90	0.75
33:Z:291:GLU:O	33:Z:295:ARG:N	2.20	0.75
2:2:242:LYS:HB3	2:2:245:LEU:HD11	1.68	0.74
2:2:73:GLU:OE2	2:2:75:LEU:HB2	1.87	0.74
3:3:32:ILE:HG12	3:3:196:VAL:HA	1.69	0.74
8:A:130:GLN:HA	9:B:128:ARG:HG2	1.68	0.74
9:B:12:PHE:H	10:C:21:GLN:HE22	1.34	0.74
15:H:103:THR:HA	15:H:144:LYS:HE3	1.69	0.74
17:J:38:THR:HB	17:J:39:GLU:OE2	1.85	0.74
21:N:702:ALA:HA	21:N:705:ILE:HD12	1.68	0.74
25:R:372:ILE:CB	26:S:395:ILE:CG2	2.50	0.74
26:S:205:ASN:HA	26:S:208:ILE:HB	1.69	0.74
26:S:440:ASP:HB3	26:S:442:PHE:CD2	2.21	0.74
27:T:213:ASN:HB3	27:T:216:GLU:HG3	1.67	0.74
29:V:95:LEU:O	29:V:100:ARG:N	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:38:LEU:O	29:V:42:ARG:N	2.14	0.74
33:Z:152:GLU:OE2	33:Z:155:ARG:NH2	2.20	0.74
5:5:44:PHE:N	5:5:51:LEU:O	2.19	0.74
8:A:27:GLN:O	8:A:31:ALA:N	2.17	0.74
11:D:203:VAL:HG11	11:D:210:ILE:HG13	1.69	0.74
16:I:126:PRO:HB2	16:I:128:TYR:CE2	2.21	0.74
17:J:116:ARG:N	17:J:121:MET:O	2.20	0.74
18:K:391:GLY:HA2	18:K:402:ILE:HD13	1.68	0.74
19:L:219:LEU:O	19:L:347:VAL:N	2.17	0.74
19:L:228:LYS:NZ	19:L:327:THR:O	2.20	0.74
20:M:31:GLN:HB3	20:M:35:LYS:HE3	1.68	0.74
22:O:171:PHE:O	22:O:175:ASN:N	2.17	0.74
22:O:266:PHE:CZ	22:O:274:ILE:HG12	2.22	0.74
23:P:258:LYS:HZ2	23:P:290:LEU:HD11	1.49	0.74
24:Q:109:ASP:CB	24:Q:114:GLN:HE21	2.01	0.74
24:Q:335:PHE:HA	24:Q:338:LEU:HB3	1.69	0.74
24:Q:360:SER:O	24:Q:364:LYS:N	2.17	0.74
24:Q:408:THR:OG1	25:R:399:GLN:NE2	2.18	0.74
24:Q:392:GLN:N	25:R:347:THR:O	2.18	0.74
26:S:390:THR:C	26:S:394:ILE:HD12	2.06	0.74
30:W:24:THR:O	30:W:28:ALA:N	2.15	0.74
1:8:37:GLU:O	1:8:138:LYS:HA	1.85	0.74
8:A:244:ARG:O	8:A:248:ILE:HG23	1.86	0.74
11:D:115:GLY:HA2	11:D:118:GLN:HB3	1.69	0.74
12:E:204:LEU:O	12:E:208:MET:N	2.19	0.74
16:I:174:ASP:O	16:I:244:PHE:N	2.16	0.74
19:L:108:VAL:HA	19:L:119:VAL:HG22	1.68	0.74
20:M:31:GLN:O	20:M:35:LYS:N	2.16	0.74
21:N:269:LEU:HD12	21:N:272:ILE:HD12	1.69	0.74
21:N:486:GLY:O	21:N:490:LEU:N	2.19	0.74
21:N:710:GLY:O	21:N:712:ASN:ND2	2.20	0.74
22:O:183:ASN:HA	22:O:185:PHE:CE2	2.22	0.74
22:O:330:ARG:HG3	22:O:334:LEU:HG	1.68	0.74
22:O:44:SER:O	22:O:48:PHE:N	2.16	0.74
24:Q:182:SER:HA	24:Q:194:SER:HA	1.68	0.74
25:R:396:LYS:HA	26:S:452:TYR:CE2	2.22	0.74
26:S:437:ASN:O	26:S:441:GLY:N	2.20	0.74
27:T:254:ASP:HA	27:T:257:THR:HB	1.68	0.74
28:U:16:LEU:HB3	29:V:32:ILE:HG12	1.69	0.74
30:W:25:ARG:NE	30:W:115:CYS:SG	2.60	0.74
33:Z:599:ILE:HA	33:Z:602:LEU:HB2	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:807:VAL:O	33:Z:811:SER:N	2.13	0.74
11:D:68:ASP:HB3	11:D:71:VAL:HB	1.69	0.74
16:I:198:VAL:HG12	16:I:240:THR:HG21	1.69	0.74
21:N:236:GLY:O	21:N:240:GLN:N	2.15	0.74
21:N:495:PRO:O	21:N:499:HIS:ND1	2.21	0.74
22:O:192:SER:O	22:O:196:LEU:N	2.19	0.74
22:O:1:MET:H1	22:O:37:LEU:HD12	1.51	0.74
24:Q:83:GLU:O	24:Q:87:GLN:N	2.20	0.74
28:U:276:ILE:HA	29:V:291:ASN:ND2	2.02	0.74
28:U:171:VAL:HG13	29:V:213:LEU:HD21	1.68	0.74
23:P:426:ILE:HD12	29:V:238:LEU:HD21	1.68	0.74
30:W:109:ARG:NH2	30:W:195:GLY:O	2.20	0.74
30:W:151:THR:N	30:W:155:ASP:OD2	2.20	0.74
33:Z:120:SER:O	33:Z:124:MET:N	2.20	0.74
33:Z:334:LYS:HG3	33:Z:336:SER:H	1.50	0.74
2:9:215:ARG:HD3	2:9:248:GLU:O	1.87	0.74
8:A:62:LYS:HB3	14:G:180:VAL:HG11	1.68	0.74
8:A:87:ILE:HA	8:A:90:ALA:HB3	1.70	0.74
15:H:171:GLY:O	15:H:173:ARG:HG3	1.87	0.74
15:H:200:VAL:HG11	15:H:301:LYS:NZ	2.02	0.74
16:I:110:GLU:HB3	16:I:119:ILE:HG23	1.67	0.74
16:I:250:SER:HB3	17:J:231:ARG:HH22	1.51	0.74
17:J:154:THR:HA	17:J:157:ILE:HB	1.69	0.74
21:N:25:LEU:HD13	21:N:60:MET:HB3	1.69	0.74
22:O:30:GLU:H	22:O:58:ARG:HH21	1.35	0.74
22:O:66:VAL:HA	22:O:69:PHE:HB2	1.68	0.74
23:P:235:LEU:O	23:P:239:GLN:N	2.19	0.74
24:Q:221:MET:HA	24:Q:224:ILE:HB	1.68	0.74
25:R:380:VAL:O	25:R:389:GLU:N	2.21	0.74
26:S:152:LEU:HD13	26:S:187:ILE:HG12	1.68	0.74
27:T:215:LYS:C	27:T:219:LYS:HZ3	1.90	0.74
27:T:27:LEU:O	27:T:31:LYS:N	2.18	0.74
27:T:50:ILE:HG13	27:T:51:TYR:H	1.53	0.74
28:U:279:SER:O	28:U:283:ARG:N	2.18	0.74
29:V:93:ASP:O	29:V:97:GLN:N	2.16	0.74
30:W:15:TYR:CE2	30:W:145:GLY:HA2	2.23	0.74
9:B:158:PRO:HB2	10:C:58:GLU:HB3	1.68	0.74
10:C:64:GLU:HG3	10:C:65:LYS:HG3	1.70	0.74
11:D:118:GLN:NE2	12:E:83:ALA:O	2.20	0.74
16:I:190:GLN:HB3	16:I:348:ILE:HG23	1.68	0.74
17:J:252:SER:O	17:J:257:ARG:NH2	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:156:GLN:HG2	17:J:316:PHE:CB	1.96	0.74
21:N:22:THR:HG23	21:N:57:ASP:OD2	1.88	0.74
21:N:585:ARG:HH21	21:N:616:HIS:HA	1.51	0.74
21:N:779:GLU:HB3	21:N:782:PHE:HD2	1.52	0.74
21:N:919:THR:HG23	21:N:921:ARG:HB3	1.69	0.74
22:O:110:ASP:OD1	22:O:111:SER:N	2.19	0.74
22:O:352:TRP:O	22:O:353:VAL:HG12	1.87	0.74
25:R:119:LYS:HA	25:R:122:GLU:HB3	1.69	0.74
28:U:39:GLY:HA2	28:U:49:THR:HG23	1.68	0.74
28:U:21:HIS:ND1	28:U:93:TYR:OH	2.20	0.74
33:Z:135:LEU:HB2	33:Z:157:LEU:HD22	1.70	0.74
33:Z:475:GLN:NE2	33:Z:504:GLU:OE1	2.19	0.74
33:Z:821:GLY:HA3	33:Z:862:MET:HB2	1.70	0.74
2:2:215:ARG:HD3	2:2:248:GLU:O	1.87	0.74
7:7:77:THR:HA	7:7:205:GLY:HA3	1.69	0.74
1:8:89:ASN:HD21	13:F:93:ASN:HD21	1.33	0.74
8:A:131:ARG:HH11	9:B:127:VAL:CG1	2.01	0.74
13:F:202:ARG:HH21	20:M:420:SER:HA	176.02	0.74
12:E:168:ASN:N	13:F:56:LEU:O	2.20	0.74
15:H:224:VAL:HG22	15:H:243:PRO:HG2	1.68	0.74
16:I:118:ALA:O	16:I:130:VAL:N	2.19	0.74
16:I:252:LEU:HD12	16:I:252:LEU:H	1.52	0.74
19:L:366:ALA:HA	19:L:370:LYS:HD2	1.68	0.74
20:M:242:THR:O	20:M:277:ILE:N	2.20	0.74
21:N:20:VAL:O	21:N:24:ALA:N	2.19	0.74
21:N:566:SER:OG	21:N:570:ARG:NH1	2.21	0.74
22:O:207:LEU:HD22	22:O:211:GLN:HE22	1.52	0.74
26:S:273:PHE:O	26:S:277:SER:N	2.15	0.74
27:T:259:ILE:O	27:T:263:ALA:N	2.12	0.74
30:W:70:GLY:O	30:W:74:ALA:N	2.19	0.74
6:6:155:GLU:HA	6:6:158:LEU:HD12	1.69	0.74
6:6:21:VAL:O	6:6:28:LEU:N	2.21	0.74
8:A:142:THR:HA	8:A:156:LYS:HA	1.69	0.74
9:B:122:THR:HA	9:B:129:PRO:HG3	1.69	0.74
12:E:99:HIS:O	12:E:103:TYR:N	2.17	0.74
16:I:347:LYS:HZ3	16:I:349:LEU:HB3	1.50	0.74
16:I:91:GLU:OE2	16:I:98:GLU:OE2	2.06	0.74
17:J:168:VAL:HG11	17:J:206:THR:HB	1.70	0.74
17:J:337:LEU:HA	17:J:377:VAL:H	1.51	0.74
19:L:264:ARG:O	19:L:268:ALA:N	2.21	0.74
20:M:79:VAL:O	20:M:122:SER:N	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:241:LEU:HB3	23:P:264:ILE:HG12	1.68	0.74
25:R:309:LEU:HD13	32:Y:76:GLU:HB2	1.69	0.74
25:R:331:ARG:HB3	25:R:371:PHE:HZ	1.52	0.74
26:S:419:VAL:O	26:S:423:VAL:N	2.16	0.74
28:U:56:PHE:HE2	28:U:58:GLU:HB2	1.52	0.74
1:1:47:ARG:HB2	1:1:219:ASP:HB2	1.69	0.74
1:1:54:ILE:HB	2:2:189:ARG:NH1	2.01	0.74
7:7:125:ALA:O	7:7:129:PHE:N	2.20	0.74
8:A:14:ARG:HG2	8:A:26:TYR:CG	2.23	0.74
8:A:20:SER:O	9:B:23:TYR:HB3	1.88	0.74
11:D:181:ARG:NH2	12:E:57:PRO:O	2.20	0.74
12:E:59:LEU:HD21	12:E:64:ILE:HD11	1.70	0.74
13:F:67:ASP:OD1	13:F:68:GLU:N	2.21	0.74
14:G:123:HIS:HB3	14:G:131:PRO:HA	1.88	0.74
15:H:303:ALA:H	15:H:348:ASN:HB3	1.53	0.74
17:J:273:LEU:HB3	17:J:309:ARG:NH1	2.01	0.74
18:K:206:PRO:HB3	18:K:335:ASP:HB2	1.69	0.74
19:L:103:GLN:N	20:M:128:PHE:O	2.20	0.74
21:N:542:SER:O	21:N:548:ARG:NE	2.21	0.74
22:O:29:PHE:CD2	22:O:61:LEU:HD11	2.23	0.74
23:P:108:LYS:HA	23:P:112:LEU:CD2	2.18	0.74
22:O:343:GLN:HB3	23:P:360:ILE:HA	1.70	0.74
23:P:34:SER:OG	23:P:69:ARG:NH1	2.21	0.74
24:Q:197:SER:O	24:Q:201:ALA:N	2.16	0.74
24:Q:370:THR:O	24:Q:374:GLU:N	2.20	0.74
26:S:471:LEU:HD13	28:U:288:PHE:CA	2.17	0.74
28:U:195:LYS:HE2	28:U:198:LYS:HD3	1.70	0.74
31:X:7:VAL:HG11	31:X:36:LYS:HD2	1.70	0.74
33:Z:985:LYS:HG2	33:Z:991:GLU:HG2	1.70	0.74
4:4:80:ASP:OD2	4:4:124:GLY:N	2.19	0.74
8:A:75:ILE:H	8:A:80:GLY:HA2	1.53	0.74
16:I:306:MET:O	16:I:310:LEU:N	2.17	0.74
17:J:230:VAL:HG11	17:J:271:THR:HG22	1.70	0.74
19:L:66:GLU:OE1	19:L:70:TYR:OH	2.05	0.74
20:M:398:ALA:O	20:M:402:ALA:N	2.21	0.74
24:Q:142:ALA:O	24:Q:146:TYR:N	2.21	0.74
25:R:149:ASN:O	25:R:153:THR:N	2.12	0.74
25:R:342:LEU:O	25:R:345:TYR:N	2.21	0.74
28:U:141:GLU:N	28:U:153:THR:H	1.83	0.74
27:T:265:ASP:CG	28:U:189:ARG:HH21	1.91	0.74
29:V:246:LYS:HE2	29:V:250:GLN:NE2	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:58:ASP:OD2	2:2:60:LEU:HB3	1.88	0.73
5:5:21:VAL:HG13	5:5:119:PRO:HB3	1.70	0.73
10:C:21:GLN:O	10:C:25:ALA:N	2.14	0.73
11:D:122:GLN:HB3	12:E:136:ARG:NH2	2.03	0.73
18:K:255:ARG:HA	18:K:302:GLN:HE22	1.53	0.73
19:L:180:PHE:HB2	19:L:190:ILE:HG23	1.69	0.73
19:L:241:ALA:HA	19:L:275:PRO:HB2	1.70	0.73
21:N:111:GLN:C	21:N:115:LYS:HZ3	1.92	0.73
21:N:450:ILE:HG23	21:N:451:GLY:H	1.52	0.73
21:N:573:HIS:O	21:N:577:SER:N	2.18	0.73
23:P:139:VAL:HA	23:P:142:ASP:HB2	1.69	0.73
23:P:278:ASN:HA	23:P:281:ILE:HG13	1.68	0.73
24:Q:8:LEU:H	24:Q:50:ARG:HH22	1.35	0.73
24:Q:7:LYS:HZ1	24:Q:34:ASP:HB2	1.52	0.73
25:R:413:LYS:HA	25:R:416:LYS:HB3	1.69	0.73
28:U:195:LYS:O	28:U:198:LYS:N	2.21	0.73
28:U:35:GLY:O	28:U:93:TYR:N	2.20	0.73
29:V:246:LYS:HB2	29:V:250:GLN:NE2	2.03	0.73
1:1:95:HIS:HE1	1:1:102:LYS:HA	1.52	0.73
2:9:58:ASP:OD2	2:9:60:LEU:HB3	1.88	0.73
9:B:97:TYR:HE1	9:B:103:GLU:HG3	1.53	0.73
9:B:14:PRO:HA	10:C:24:TYR:CE1	2.22	0.73
11:D:174:PHE:C	11:D:178:ASN:HD22	1.92	0.73
12:E:146:GLY:O	12:E:154:GLN:N	2.20	0.73
12:E:192:THR:N	12:E:195:GLU:OE1	2.21	0.73
13:F:66:CYS:HA	13:F:89:ARG:HG2	1.70	0.73
15:H:199:THR:O	15:H:273:ARG:N	2.19	0.73
17:J:276:LEU:HD21	17:J:290:ILE:HD12	1.70	0.73
18:K:63:LEU:HA	18:K:66:ASP:OD2	1.88	0.73
19:L:98:LEU:HD13	20:M:71:ASN:ND2	2.03	0.73
20:M:405:ASN:HD22	20:M:411:LYS:HZ3	1.33	0.73
22:O:15:ARG:NH2	30:W:145:GLY:CA	2.50	0.73
22:O:331:ALA:O	22:O:334:LEU:HB2	1.88	0.73
23:P:56:LYS:O	23:P:60:ALA:N	2.20	0.73
24:Q:347:LEU:O	24:Q:351:ILE:N	2.19	0.73
23:P:396:PRO:HD3	24:Q:361:HIS:CE1	2.21	0.73
27:T:33:GLU:O	27:T:37:ASN:N	2.20	0.73
33:Z:112:LYS:NZ	33:Z:140:LEU:HD22	2.03	0.73
1:8:47:ARG:HB2	1:8:219:ASP:HB2	1.69	0.73
10:C:175:LEU:HB3	10:C:199:LYS:NZ	2.03	0.73
21:N:568:VAL:HA	21:N:571:LEU:HD12	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:302:VAL:HG21	22:O:365:LYS:HD3	1.70	0.73
22:O:338:LYS:NZ	22:O:353:VAL:N	2.35	0.73
23:P:63:VAL:HA	23:P:66:LEU:HD12	1.70	0.73
25:R:350:LEU:H	25:R:387:ILE:HA	1.52	0.73
26:S:131:THR:OG1	26:S:174:ARG:NH2	2.17	0.73
26:S:158:PHE:O	26:S:162:VAL:N	2.22	0.73
26:S:409:LEU:HA	26:S:412:ASN:HB2	1.69	0.73
26:S:411:LEU:O	26:S:415:SER:N	2.21	0.73
26:S:471:LEU:CD1	28:U:288:PHE:C	2.54	0.73
30:W:123:ASP:HB3	30:W:127:ARG:NH1	2.03	0.73
30:W:130:LYS:O	30:W:134:LYS:N	2.16	0.73
31:X:16:GLU:O	31:X:18:ASN:ND2	2.22	0.73
33:Z:357:ILE:O	33:Z:360:SER:OG	2.04	0.73
2:2:42:THR:HG22	2:2:74:ARG:CZ	2.18	0.73
9:B:123:GLN:NE2	10:C:129:ARG:O	2.21	0.73
10:C:206:LEU:HD11	10:C:211:LEU:HD21	1.70	0.73
13:F:171:TYR:O	13:F:175:THR:OG1	2.07	0.73
1:8:92:LYS:NZ	13:F:93:ASN:HB2	2.02	0.73
14:G:62:GLN:NE2	14:G:213:GLU:OE2	2.21	0.73
15:H:294:LEU:HD11	15:H:306:ILE:HG12	1.70	0.73
15:H:429:PHE:HA	15:H:432:ARG:HB2	1.69	0.73
18:K:162:GLY:O	18:K:235:ILE:HA	1.87	0.73
19:L:400:PHE:CE1	20:M:215:PRO:HD3	2.22	0.73
21:N:25:LEU:O	21:N:29:ASN:N	2.21	0.73
21:N:335:ALA:HA	21:N:338:PHE:CD2	2.24	0.73
21:N:509:GLN:O	21:N:510:HIS:ND1	2.21	0.73
21:N:769:PRO:HG3	21:N:890:PHE:CE2	2.23	0.73
22:O:266:PHE:HD1	22:O:269:LEU:HD12	1.53	0.73
23:P:155:GLU:HA	23:P:158:ASP:HB2	1.69	0.73
4:4:59:ASN:OD1	4:4:217:ARG:NH2	2.22	0.73
1:8:27:ASN:ND2	2:9:168:VAL:HG11	2.03	0.73
2:9:43:SER:O	2:9:74:ARG:NH2	2.19	0.73
13:F:70:MET:HE1	13:F:105:VAL:HA	1.69	0.73
15:H:216:ASP:C	15:H:220:LYS:HZ3	1.92	0.73
15:H:367:ARG:HH21	15:H:370:ARG:HD2	1.52	0.73
16:I:220:ILE:O	16:I:348:ILE:N	2.16	0.73
18:K:212:TYR:N	18:K:338:ILE:O	2.21	0.73
20:M:79:VAL:HG21	20:M:145:LEU:HD23	1.70	0.73
20:M:223:PRO:HD2	20:M:350:PRO:HA	1.69	0.73
20:M:389:ALA:O	20:M:393:ALA:N	2.17	0.73
21:N:682:PHE:O	21:N:686:ILE:N	2.15	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:262:ASP:OD2	22:O:265:LYS:HG3	1.88	0.73
23:P:146:ILE:O	23:P:150:GLU:N	2.16	0.73
23:P:217:LYS:O	23:P:221:TYR:N	2.15	0.73
23:P:253:ASP:O	23:P:257:TRP:HB3	1.88	0.73
24:Q:409:TYR:CE2	25:R:402:LEU:HB2	2.23	0.73
26:S:409:LEU:O	26:S:413:LEU:N	2.21	0.73
26:S:480:ARG:HG3	26:S:484:ASP:OD2	1.87	0.73
27:T:175:ASP:HA	27:T:178:THR:HG1	1.53	0.73
26:S:482:PRO:HB3	28:U:299:LYS:HB2	1.69	0.73
30:W:164:PRO:HG2	30:W:167:GLU:HB3	1.69	0.73
33:Z:112:LYS:HE3	33:Z:140:LEU:O	1.88	0.73
33:Z:304:PRO:HA	33:Z:340:LEU:HD13	1.69	0.73
9:B:43:VAL:HG23	9:B:145:PHE:HB3	1.71	0.73
11:D:115:GLY:O	11:D:119:ARG:N	2.20	0.73
14:G:169:ARG:O	14:G:173:LYS:N	2.21	0.73
14:G:183:HIS:ND1	14:G:185:GLU:OE2	2.17	0.73
15:H:321:ASP:OD2	20:M:250:GLN:NE2	2.20	0.73
16:I:149:LEU:HD23	16:I:156:ILE:HA	1.69	0.73
18:K:394:ALA:HB3	18:K:402:ILE:HG12	1.69	0.73
21:N:324:LYS:HB3	21:N:327:LEU:HB2	1.70	0.73
21:N:363:ALA:O	21:N:367:ALA:N	2.19	0.73
21:N:762:ARG:NE	21:N:907:ASP:OD2	2.21	0.73
22:O:211:GLN:HE21	22:O:241:THR:HA	1.52	0.73
23:P:214:GLU:O	23:P:218:LEU:N	2.16	0.73
26:S:376:THR:HA	26:S:378:GLN:HE22	1.52	0.73
22:O:304:ASN:HD22	28:U:261:LEU:HA	1.54	0.73
30:W:132:LEU:O	30:W:136:ASN:N	2.21	0.73
33:Z:308:LYS:O	33:Z:312:TYR:N	2.21	0.73
1:1:33:GLY:HA2	1:1:42:LEU:HA	1.71	0.73
1:1:48:ASN:HB3	1:1:56:SER:H	1.54	0.73
2:2:255:ALA:O	3:3:193:ARG:NH2	2.21	0.73
3:3:113:THR:HG23	3:3:134:LEU:HD21	1.69	0.73
17:J:110:SER:OG	17:J:128:ASN:ND2	2.13	0.73
21:N:123:PHE:HZ	21:N:161:TYR:HB2	1.53	0.73
22:O:311:GLU:OE1	22:O:321:LYS:HG3	1.87	0.73
22:O:377:VAL:O	22:O:381:GLY:N	2.17	0.73
23:P:394:ASN:HB3	23:P:397:ALA:HB3	1.71	0.73
24:Q:104:PHE:HB3	24:Q:114:GLN:HE22	1.54	0.73
24:Q:232:TYR:O	24:Q:236:PHE:N	2.21	0.73
24:Q:236:PHE:O	24:Q:240:PHE:N	2.22	0.73
26:S:143:GLN:NE2	26:S:148:ASP:OD2	2.20	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:18:GLY:HA2	27:T:20:TYR:CZ	2.24	0.73
28:U:283:ARG:HB2	29:V:288:LEU:CD2	2.18	0.73
33:Z:372:ALA:HB3	33:Z:849:ARG:HH12	1.53	0.73
4:4:47:THR:O	4:4:60:CYS:N	2.21	0.73
2:9:215:ARG:O	2:9:219:TYR:N	2.22	0.73
2:9:36:GLN:HE21	2:9:38:ILE:HD11	1.53	0.73
10:C:197:LEU:O	10:C:201:THR:N	2.22	0.73
12:E:243:LEU:N	12:E:243:LEU:HD23	2.03	0.73
13:F:198:SER:HA	13:F:201:LEU:HD12	1.71	0.73
15:H:225:VAL:HG13	15:H:350:LYS:HG3	1.71	0.73
17:J:187:LEU:H	17:J:293:ALA:HA	1.54	0.73
19:L:357:ARG:HD3	19:L:386:PHE:H	1.52	0.73
23:P:196:ALA:O	23:P:200:SER:N	2.14	0.73
24:Q:329:GLU:HA	24:Q:332:ARG:HB3	1.69	0.73
27:T:32:ILE:HG22	27:T:36:LYS:HE2	1.71	0.73
27:T:60:ARG:O	27:T:64:VAL:N	2.20	0.73
28:U:132:LEU:H	29:V:215:ASN:HD21	1.37	0.73
33:Z:309:GLN:O	33:Z:313:ILE:N	2.21	0.73
33:Z:964:GLU:HG2	33:Z:965:LEU:HG	1.71	0.73
6:6:109:LYS:NZ	6:6:186:LYS:O	2.22	0.73
19:L:398:ALA:O	19:L:402:ALA:N	2.19	0.73
20:M:401:ILE:HG21	20:M:417:GLU:HB2	1.70	0.73
21:N:461:GLU:O	21:N:465:ALA:N	2.20	0.73
22:O:184:ASP:O	22:O:187:SER:OG	2.04	0.73
22:O:190:TYR:HA	22:O:193:LEU:HB3	1.70	0.73
27:T:202:LEU:N	27:T:231:SER:O	2.22	0.73
29:V:129:PHE:O	29:V:132:LEU:N	2.21	0.73
33:Z:501:LYS:HD2	33:Z:534:PHE:HA	1.68	0.73
33:Z:808:SER:O	33:Z:812:ILE:N	2.21	0.73
6:6:118:GLN:N	6:6:126:VAL:O	2.20	0.73
1:8:48:ASN:HB3	1:8:56:SER:H	1.54	0.73
8:A:168:ALA:O	9:B:55:LEU:HB3	1.88	0.73
2:2:110:ASP:OD1	14:G:68:GLN:NE2	107.21	0.73
2:9:110:ASP:CG	14:G:93:ARG:HH12	1.92	0.73
16:I:252:LEU:N	16:I:252:LEU:HD12	2.04	0.73
19:L:132:ARG:H	19:L:135:VAL:HG11	1.53	0.73
20:M:167:VAL:O	20:M:170:MET:N	2.20	0.73
24:Q:32:ASP:HA	24:Q:44:ALA:HB3	1.70	0.73
1:1:171:ASN:OD1	1:1:178:GLN:NE2	2.22	0.72
1:1:213:ARG:NH1	4:4:58:LYS:HG3	2.04	0.72
1:1:57:ARG:HE	2:2:189:ARG:HD3	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C:194:LEU:HD12	10:C:242:THR:HG21	1.71	0.72
11:D:94:GLN:HA	11:D:97:ARG:HD3	1.70	0.72
13:F:9:ASP:HB3	13:F:11:VAL:HG12	1.69	0.72
15:H:60:GLU:HB3	15:H:64:LYS:HE3	1.69	0.72
17:J:75:VAL:HA	17:J:86:VAL:HG22	1.71	0.72
20:M:219:LEU:HD21	20:M:330:VAL:HG11	1.70	0.72
21:N:121:GLU:OE2	21:N:199:ASN:ND2	2.22	0.72
21:N:13:LEU:HD11	21:N:49:LEU:HD11	1.71	0.72
22:O:87:LYS:NZ	22:O:138:LEU:HD13	2.03	0.72
22:O:382:LYS:HD3	22:O:383:LYS:HZ2	1.54	0.72
23:P:287:ASP:O	23:P:289:ASN:N	2.22	0.72
24:Q:246:TYR:HA	24:Q:249:LEU:HB2	1.69	0.72
24:Q:30:LEU:O	24:Q:54:GLN:NE2	2.21	0.72
24:Q:389:VAL:O	24:Q:398:TYR:N	2.21	0.72
26:S:218:LEU:HA	26:S:230:LYS:NZ	2.03	0.72
26:S:349:THR:O	26:S:353:LYS:N	2.17	0.72
29:V:137:VAL:HB	29:V:155:ALA:HB1	1.69	0.72
31:X:76:VAL:HG13	31:X:79:LYS:HB3	1.71	0.72
5:5:189:ILE:HB	5:5:196:VAL:HB	1.71	0.72
9:B:29:LYS:NZ	9:B:165:GLY:O	2.15	0.72
9:B:218:ASN:OD1	9:B:236:ARG:NH2	2.22	0.72
10:C:13:PHE:N	11:D:19:GLN:HE22	1.86	0.72
14:G:237:GLN:NE2	14:G:241:ASP:OD1	2.22	0.72
15:H:385:ARG:HA	15:H:419:LEU:HD13	1.71	0.72
16:I:150:HIS:ND1	16:I:152:LYS:HG3	2.04	0.72
17:J:72:VAL:HA	17:J:113:VAL:O	1.89	0.72
21:N:379:LEU:HA	21:N:412:TYR:HE1	1.52	0.72
21:N:530:GLU:HA	21:N:533:ASP:OD2	1.88	0.72
23:P:260:VAL:O	23:P:264:ILE:N	2.20	0.72
24:Q:363:SER:O	24:Q:367:GLY:N	2.22	0.72
26:S:461:PHE:CD1	28:U:277:TYR:HB2	2.24	0.72
33:Z:139:LEU:HD22	33:Z:199:ASP:HB3	1.70	0.72
33:Z:824:ASN:HA	33:Z:828:ALA:HA	1.71	0.72
4:4:243:LYS:O	5:5:199:TYR:N	2.20	0.72
7:7:182:LYS:HD2	11:D:141:ARG:HE	1.54	0.72
11:D:161:ALA:HB3	12:E:58:LEU:HD13	1.70	0.72
14:G:36:THR:HB	14:G:168:GLY:H	1.52	0.72
15:H:97:LEU:HD11	15:H:173:ARG:O	1.89	0.72
23:P:392:LYS:H	23:P:400:VAL:HG13	1.54	0.72
23:P:435:LYS:HZ1	28:U:156:HIS:N	1.87	0.72
25:R:128:LEU:O	25:R:132:GLN:N	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:289:ILE:HG13	25:R:290:SER:H	1.54	0.72
25:R:413:LYS:O	25:R:417:TYR:N	2.20	0.72
4:4:203:ASP:OD1	4:4:218:ASN:N	2.21	0.72
1:8:31:ILE:N	1:8:158:GLY:O	2.16	0.72
1:8:33:GLY:HA2	1:8:42:LEU:HA	1.71	0.72
15:H:247:LEU:HB3	15:H:374:LYS:HG3	1.71	0.72
16:I:116:ASP:O	16:I:138:LYS:NZ	2.19	0.72
16:I:142:GLU:OE2	16:I:269:LYS:NZ	2.21	0.72
19:L:104:LEU:O	19:L:148:LEU:N	2.17	0.72
21:N:43:LEU:HA	21:N:46:ILE:HB	1.71	0.72
23:P:94:GLN:HA	23:P:97:ILE:HB	1.70	0.72
24:Q:9:GLU:OE2	24:Q:13:ARG:NH2	2.22	0.72
26:S:159:ASN:O	26:S:163:VAL:N	2.14	0.72
26:S:17:ASP:HA	26:S:20:HIS:CD2	2.24	0.72
26:S:250:ALA:O	26:S:254:ILE:N	2.17	0.72
26:S:369:GLN:O	26:S:373:LYS:N	2.19	0.72
28:U:7:LYS:HZ1	28:U:158:PRO:HB2	1.52	0.72
7:7:100:TRP:CZ3	1:8:163:SER:HA	2.24	0.72
1:8:95:HIS:HE1	1:8:102:LYS:HA	1.52	0.72
8:A:158:ASP:OD2	8:A:162:TYR:HB3	1.90	0.72
10:C:152:ASN:OD1	10:C:154:SER:OG	2.07	0.72
10:C:44:ILE:N	10:C:216:ILE:O	2.19	0.72
24:Q:137:LEU:HA	24:Q:140:LYS:HZ1	1.55	0.72
24:Q:362:ILE:HA	24:Q:365:ILE:HB	1.70	0.72
25:R:152:LYS:HB3	25:R:156:LYS:NZ	2.03	0.72
25:R:192:GLU:OE2	25:R:210:TYR:OH	2.06	0.72
25:R:391:ASN:OD1	25:R:392:ARG:N	2.23	0.72
26:S:132:ALA:O	26:S:136:CYS:N	2.23	0.72
5:5:143:SER:HA	5:5:146:LEU:HD12	1.71	0.72
6:6:5:LEU:HB2	6:6:16:ALA:HB3	1.70	0.72
2:9:194:ARG:N	2:9:197:ASP:OD2	2.19	0.72
9:B:59:GLU:OE1	9:B:59:GLU:N	2.21	0.72
12:E:71:ASP:OD1	12:E:72:ARG:N	2.23	0.72
21:N:116:GLN:HB3	21:N:123:PHE:HB2	1.71	0.72
21:N:346:ASN:HB2	21:N:350:LYS:HZ2	1.55	0.72
21:N:775:CYS:HB2	21:N:882:ILE:HA	1.71	0.72
22:O:266:PHE:HZ	22:O:274:ILE:HG12	1.55	0.72
23:P:38:GLN:HB3	23:P:62:ILE:HG12	1.70	0.72
23:P:422:LEU:CB	23:P:426:ILE:HG13	2.19	0.72
26:S:251:SER:HA	26:S:254:ILE:HD12	1.72	0.72
33:Z:783:VAL:O	33:Z:787:ASP:N	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:36:GLN:HE21	2:2:38:ILE:HD11	1.53	0.72
11:D:169:LYS:NZ	11:D:172:ARG:HD2	2.05	0.72
11:D:64:VAL:HG22	11:D:74:SER:HB3	1.70	0.72
18:K:212:TYR:O	18:K:340:PHE:N	2.22	0.72
18:K:342:SER:HB2	18:K:344:ARG:CZ	2.20	0.72
22:O:184:ASP:O	22:O:188:PHE:N	2.20	0.72
23:P:107:SER:CB	23:P:111:ASP:OD2	2.38	0.72
23:P:242:GLN:HE21	23:P:246:GLN:HG3	1.53	0.72
25:R:249:ILE:O	25:R:253:ALA:N	2.21	0.72
26:S:17:ASP:HA	26:S:20:HIS:HD2	1.55	0.72
26:S:211:ARG:HH21	26:S:240:ASP:HB3	1.55	0.72
26:S:385:SER:C	26:S:389:LYS:HZ3	1.92	0.72
30:W:162:ASN:HD21	30:W:165:GLN:HA	1.55	0.72
1:1:77:ALA:HB3	2:2:168:VAL:HG13	1.72	0.72
3:3:109:LYS:HA	3:3:112:LEU:HB2	1.70	0.72
6:6:139:TYR:HD2	6:6:168:LEU:HD23	1.52	0.72
2:9:76:ILE:N	2:9:84:VAL:O	2.22	0.72
8:A:19:PHE:HB3	8:A:23:GLY:HA2	1.71	0.72
11:D:169:LYS:HE3	11:D:173:GLU:OE2	1.90	0.72
14:G:234:ASP:O	14:G:238:GLU:N	2.17	0.72
14:G:240:ILE:O	14:G:244:GLN:N	2.19	0.72
21:N:405:LEU:HD11	21:N:442:LEU:HD12	1.72	0.72
21:N:441:VAL:O	21:N:445:GLY:N	2.20	0.72
21:N:612:SER:OG	21:N:614:ASN:O	2.06	0.72
22:O:250:TRP:O	22:O:254:LEU:N	2.23	0.72
22:O:254:LEU:O	22:O:258:LEU:N	2.22	0.72
22:O:367:LYS:HA	22:O:370:LEU:HB2	1.71	0.72
24:Q:126:LYS:HE2	24:Q:134:LYS:HZ2	1.54	0.72
24:Q:185:TYR:O	24:Q:190:ASN:N	2.22	0.72
24:Q:298:ALA:O	24:Q:302:VAL:N	2.20	0.72
24:Q:391:ASP:CB	24:Q:394:ASN:HB2	2.17	0.72
25:R:77:SER:HB3	25:R:90:GLU:HA	1.72	0.72
27:T:110:LEU:HD23	27:T:113:LEU:HD12	1.72	0.72
27:T:9:LYS:HA	27:T:12:SER:HB3	1.72	0.72
33:Z:381:LEU:HA	33:Z:410:THR:HG22	1.70	0.72
33:Z:455:ILE:HB	33:Z:474:LEU:HD13	1.70	0.72
33:Z:534:PHE:HB2	33:Z:573:LEU:HD22	1.72	0.72
1:1:79:ASP:HB3	1:1:124:TYR:HB3	1.72	0.72
12:E:37:ALA:N	12:E:172:ILE:O	2.22	0.72
15:H:162:ARG:HD2	20:M:75:LEU:HD11	1.70	0.72
15:H:224:VAL:HA	15:H:243:PRO:HD2	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:418:GLN:HB3	16:I:422:ARG:NH1	2.05	0.72
21:N:779:GLU:HG2	21:N:866:TYR:CE1	2.25	0.72
22:O:19:ASP:HB3	22:O:72:LYS:HZ1	1.54	0.72
23:P:422:LEU:HB3	23:P:426:ILE:HD12	1.70	0.72
24:Q:394:ASN:HB3	24:Q:396:TRP:CE2	2.23	0.72
25:R:190:LYS:O	25:R:194:VAL:N	2.17	0.72
25:R:292:LEU:HB3	25:R:307:TYR:HB3	1.72	0.72
28:U:305:ARG:NH1	28:U:307:LYS:HG2	2.03	0.72
23:P:415:TRP:HE1	29:V:241:THR:HG21	1.55	0.72
33:Z:480:ASN:O	33:Z:486:SER:OG	2.07	0.72
3:3:30:GLY:HA2	3:3:126:LYS:HG2	1.71	0.72
5:5:104:PHE:HA	5:5:126:LEU:HD22	1.70	0.72
6:6:92:ILE:HA	6:6:97:PRO:HB3	1.72	0.72
7:7:126:ASP:O	7:7:130:TRP:HB2	1.89	0.72
7:7:191:ASP:OD1	7:7:195:THR:N	2.17	0.72
7:7:253:TYR:HA	7:7:261:ILE:O	1.90	0.72
1:8:79:ASP:HB3	1:8:124:TYR:HB3	1.72	0.72
12:E:151:ASP:OD2	12:E:154:GLN:NE2	2.23	0.72
13:F:13:PHE:H	14:G:23:GLN:HE22	1.36	0.72
14:G:95:GLU:CD	14:G:115:ARG:HH11	1.94	0.72
16:I:126:PRO:HB2	16:I:128:TYR:HE2	1.55	0.72
20:M:250:GLN:O	20:M:253:GLN:NE2	2.23	0.72
21:N:321:LEU:HG	21:N:323:GLY:N	2.04	0.72
21:N:772:GLN:HA	21:N:869:ASP:HB2	1.70	0.72
21:N:87:ASP:OD1	21:N:88:ARG:N	2.21	0.72
24:Q:390:LEU:HD12	25:R:344:SER:HB2	1.70	0.72
26:S:356:ASP:HB2	26:S:359:LYS:HE3	1.69	0.72
30:W:16:SER:HA	30:W:25:ARG:HB3	1.71	0.72
12:E:44:GLU:OE1	12:E:193:LEU:N	2.23	0.71
20:M:339:ARG:HB3	20:M:342:ARG:HB2	1.72	0.71
20:M:71:ASN:HA	29:V:75:GLY:HA3	1.69	0.71
24:Q:8:LEU:CB	24:Q:50:ARG:HH12	2.01	0.71
25:R:258:LEU:HD12	25:R:266:LEU:HD13	1.72	0.71
26:S:343:LEU:HG	26:S:347:HIS:CE1	2.25	0.71
28:U:56:PHE:HD1	28:U:68:LEU:HB2	1.55	0.71
33:Z:202:ARG:HH11	33:Z:205:LEU:HD13	1.53	0.71
2:2:194:ARG:N	2:2:197:ASP:OD2	2.20	0.71
6:6:19:LYS:O	6:6:32:ASP:N	2.23	0.71
8:A:75:ILE:HD11	8:A:81:MET:HB3	1.71	0.71
11:D:169:LYS:O	11:D:173:GLU:N	2.21	0.71
14:G:130:ARG:NH1	14:G:131:PRO:O	2.78	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G:170:GLN:HG3	14:G:173:LYS:HZ2	1.55	0.71
20:M:280:ILE:HB	20:M:325:ALA:HA	1.70	0.71
22:O:294:MET:O	22:O:298:GLU:N	2.23	0.71
23:P:108:LYS:O	23:P:111:ASP:CA	2.38	0.71
23:P:144:VAL:HA	23:P:147:LYS:HB2	1.70	0.71
23:P:157:ALA:HA	23:P:186:LEU:HD13	1.70	0.71
24:Q:262:LEU:HA	24:Q:265:MET:HB3	1.71	0.71
25:R:263:ARG:HE	25:R:297:TYR:HE1	1.35	0.71
25:R:307:TYR:O	25:R:311:THR:N	2.20	0.71
25:R:398:ALA:O	25:R:402:LEU:N	2.19	0.71
24:Q:424:ASP:OD2	25:R:413:LYS:HD3	1.90	0.71
26:S:410:LYS:HD2	26:S:413:LEU:HD23	1.72	0.71
26:S:452:TYR:HB3	26:S:457:PRO:HG3	1.72	0.71
33:Z:888:LEU:H	33:Z:900:LEU:HB3	1.54	0.71
6:6:37:GLN:O	6:6:61:GLN:NE2	2.23	0.71
1:8:171:ASN:OD1	1:8:178:GLN:NE2	2.22	0.71
12:E:168:ASN:HB3	12:E:187:TRP:CE2	2.25	0.71
13:F:137:TYR:CZ	13:F:218:LYS:HA	2.26	0.71
15:H:270:THR:HG21	15:H:301:LYS:HD3	1.72	0.71
16:I:103:PRO:HB2	17:J:96:VAL:HG12	1.71	0.71
16:I:188:GLU:HA	16:I:191:ILE:HB	1.71	0.71
16:I:169:SER:HB3	16:I:263:LEU:HB3	1.72	0.71
16:I:415:ASP:O	16:I:419:ALA:N	2.20	0.71
17:J:338:THR:HB	17:J:378:THR:HA	1.72	0.71
21:N:308:ASN:ND2	21:N:873:ARG:HH12	1.87	0.71
22:O:266:PHE:O	22:O:269:LEU:N	2.23	0.71
22:O:31:LYS:HG2	22:O:35:GLU:OE2	1.90	0.71
23:P:395:ARG:NH1	24:Q:361:HIS:HB3	2.05	0.71
25:R:398:ALA:HA	25:R:401:HIS:HB3	1.71	0.71
25:R:78:ASP:N	25:R:82:ASP:O	2.22	0.71
28:U:77:ASN:HB3	28:U:81:LYS:HZ2	1.51	0.71
29:V:58:VAL:HB	29:V:62:THR:HG21	1.72	0.71
32:Y:84:TYR:O	32:Y:88:ASN:N	2.21	0.71
33:Z:106:TRP:CZ3	33:Z:198:GLU:HB2	2.25	0.71
3:3:20:THR:HA	3:3:188:SER:HA	1.73	0.71
4:4:36:LYS:HA	4:4:41:VAL:HA	1.73	0.71
4:4:96:SER:O	4:4:100:SER:N	2.23	0.71
1:8:82:ALA:O	1:8:86:ARG:N	2.17	0.71
10:C:193:ALA:O	10:C:197:LEU:N	2.16	0.71
12:E:16:SER:N	12:E:20:ARG:O	2.20	0.71
12:E:201:LEU:HD21	12:E:243:LEU:HD21	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:242:PRO:HD2	15:H:347:GLY:HA2	1.72	0.71
16:I:222:TYR:N	16:I:348:ILE:O	2.22	0.71
18:K:304:ASP:HA	18:K:333:ARG:HE	1.55	0.71
18:K:371:LEU:HB3	18:K:375:ASN:HD22	1.55	0.71
19:L:109:MET:HB3	19:L:118:ILE:HG22	1.72	0.71
21:N:536:ILE:O	21:N:540:LEU:N	2.17	0.71
22:O:179:PHE:HB3	22:O:188:PHE:HB2	1.72	0.71
23:P:133:GLU:HA	23:P:136:ARG:CG	2.20	0.71
23:P:394:ASN:HD22	23:P:397:ALA:HB2	1.55	0.71
24:Q:174:LEU:O	24:Q:178:HIS:ND1	2.22	0.71
25:R:76:GLN:HB2	25:R:87:SER:HB2	1.70	0.71
26:S:291:GLU:O	26:S:295:ALA:N	2.22	0.71
26:S:461:PHE:O	26:S:465:ILE:N	2.16	0.71
27:T:149:ASP:HA	27:T:152:LEU:HB2	1.71	0.71
28:U:38:LEU:N	28:U:50:ASN:O	2.22	0.71
29:V:107:TRP:N	29:V:137:VAL:O	2.23	0.71
4:4:245:SER:O	5:5:197:LYS:N	2.21	0.71
6:6:15:LEU:HD12	6:6:43:LEU:HD23	1.72	0.71
7:7:152:ALA:O	7:7:196:ARG:NH2	2.24	0.71
2:9:135:GLN:HB3	2:9:139:LYS:HZ2	1.53	0.71
12:E:201:LEU:HG	12:E:243:LEU:HD11	2.16	0.71
15:H:242:PRO:HG3	15:H:350:LYS:NZ	2.05	0.71
21:N:69:TYR:HE2	21:N:81:TYR:HD2	1.37	0.71
21:N:762:ARG:HD3	21:N:767:ALA:H	1.54	0.71
22:O:233:LEU:HD12	22:O:236:HIS:CD2	2.25	0.71
26:S:352:VAL:HG13	26:S:387:VAL:HG21	1.73	0.71
27:T:51:TYR:HA	27:T:55:LEU:HB3	1.73	0.71
29:V:121:VAL:O	29:V:125:THR:N	2.17	0.71
31:X:85:ARG:HB3	31:X:101:LEU:HD13	1.71	0.71
32:Y:65:ASP:H	32:Y:67:VAL:H	1.39	0.71
10:C:218:LYS:HE3	10:C:223:GLY:HA2	1.71	0.71
11:D:67:ILE:HG21	11:D:109:LEU:HD11	1.71	0.71
17:J:172:GLU:O	17:J:176:SER:N	2.16	0.71
17:J:212:ARG:HB3	17:J:248:ASP:OD2	1.91	0.71
21:N:545:SER:OG	21:N:580:ASN:ND2	2.22	0.71
23:P:245:TYR:C	23:P:257:TRP:HE1	1.94	0.71
26:S:160:ARG:HH12	26:S:206:GLN:HG2	1.56	0.71
26:S:171:TYR:HB3	26:S:175:SER:HB3	1.73	0.71
28:U:24:ARG:CZ	29:V:100:ARG:HA	2.20	0.71
1:1:142:TYR:HB3	1:1:144:PHE:HE1	1.55	0.71
1:8:92:LYS:HZ1	13:F:93:ASN:HB2	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:61:GLY:N	2:9:69:PHE:O	2.24	0.71
8:A:72:ILE:HA	8:A:82:VAL:HA	1.72	0.71
9:B:173:THR:HG22	9:B:177:LYS:NZ	2.06	0.71
17:J:71:TYR:HA	18:K:118:TYR:CD1	2.25	0.71
18:K:157:SER:HA	18:K:159:SER:N	2.05	0.71
19:L:71:ASP:O	19:L:75:LYS:N	2.22	0.71
22:O:219:ILE:HD13	22:O:251:LEU:HD21	1.73	0.71
22:O:383:LYS:HD2	22:O:387:ARG:HE	1.55	0.71
23:P:268:LEU:O	23:P:271:SER:OG	2.08	0.71
30:W:120:ASP:OD1	30:W:121:SER:N	2.24	0.71
8:A:131:ARG:HH11	9:B:127:VAL:HG12	1.56	0.71
10:C:15:PRO:HA	11:D:22:TYR:CE1	2.25	0.71
16:I:217:LYS:NZ	16:I:313:LEU:HG	2.06	0.71
18:K:329:LEU:HD23	18:K:334:LEU:HD23	1.70	0.71
21:N:136:ILE:HD13	21:N:139:ARG:HD3	1.72	0.71
21:N:18:ASP:O	21:N:22:THR:N	2.15	0.71
21:N:255:ALA:O	21:N:259:PHE:N	2.23	0.71
21:N:340:HIS:HB3	21:N:374:ILE:HG23	1.72	0.71
21:N:539:MET:HA	21:N:547:LEU:HB3	1.71	0.71
23:P:392:LYS:HE2	23:P:394:ASN:HB2	1.73	0.71
24:Q:28:LEU:HG	24:Q:32:ASP:OD2	1.90	0.71
25:R:147:LYS:CE	25:R:177:LEU:O	2.37	0.71
25:R:338:TYR:HD1	25:R:341:LEU:HD12	1.56	0.71
24:Q:409:TYR:CE1	25:R:403:LEU:HA	2.26	0.71
27:T:66:ALA:HA	27:T:78:PHE:HA	1.71	0.71
29:V:108:TYR:CD1	29:V:108:TYR:C	2.63	0.71
30:W:131:THR:HA	30:W:134:LYS:HD2	1.73	0.71
33:Z:916:LEU:HB2	33:Z:982:ILE:HG12	1.71	0.71
33:Z:348:LEU:HD13	33:Z:921:GLU:HB2	1.72	0.71
3:3:58:ASP:O	3:3:61:TRP:NE1	2.23	0.71
4:4:68:PRO:O	9:B:224:TYR:HB3	1.91	0.71
10:C:168:ASN:ND2	10:C:200:THR:O	2.24	0.71
12:E:179:ALA:HB2	12:E:207:VAL:HG11	1.73	0.71
13:F:84:LEU:O	13:F:88:LEU:N	2.20	0.71
14:G:44:ASP:OD2	14:G:220:SER:OG	2.09	0.71
14:G:96:ALA:O	14:G:100:LYS:N	2.22	0.71
15:H:169:GLU:HG2	15:H:170:GLU:HG3	1.73	0.71
20:M:274:ALA:HB1	20:M:320:ARG:HB3	1.73	0.71
21:N:525:ASN:OD1	21:N:528:ARG:NH1	2.24	0.71
22:O:82:LEU:H	22:O:85:SER:HB3	1.56	0.71
23:P:392:LYS:N	23:P:401:ASN:O	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:293:SER:HB2	24:Q:324:GLU:OE2	1.91	0.71
25:R:301:TYR:CE2	25:R:357:PHE:HB3	2.25	0.71
30:W:101:ARG:NE	30:W:106:GLN:O	2.17	0.71
4:4:205:CYS:HA	4:4:215:TYR:HA	1.72	0.71
1:8:142:TYR:HB3	1:8:144:PHE:HE1	1.56	0.71
11:D:108:TYR:HD1	11:D:111:ARG:HH21	1.37	0.71
1:1:106:ASN:ND2	12:E:104:ASP:OD2	89.46	0.71
14:G:123:HIS:CE1	14:G:132:PHE:CE1	2.79	0.71
15:H:176:VAL:N	15:H:189:PRO:HG3	2.03	0.71
17:J:363:THR:O	17:J:367:MET:N	2.19	0.71
19:L:131:VAL:HG11	19:L:137:ARG:HG2	1.72	0.71
23:P:282:HIS:O	23:P:286:ASN:HB3	1.89	0.71
23:P:420:ASP:O	23:P:424:GLU:N	2.21	0.71
23:P:45:LYS:HG3	23:P:51:ASP:HB3	1.72	0.71
24:Q:158:ILE:O	24:Q:162:LEU:N	2.20	0.71
24:Q:253:ASN:HD21	24:Q:258:ALA:H	1.39	0.71
26:S:464:ARG:HG3	28:U:281:LEU:HD21	1.72	0.71
28:U:28:LYS:HZ3	28:U:31:LYS:HZ1	1.37	0.71
29:V:140:VAL:N	29:V:154:ASP:O	2.23	0.71
29:V:57:PHE:HA	29:V:62:THR:O	1.90	0.71
30:W:87:MET:O	30:W:91:LEU:N	2.21	0.71
32:Y:81:LEU:HA	32:Y:84:TYR:HB3	1.72	0.71
33:Z:501:LYS:NZ	33:Z:537:THR:OG1	2.23	0.71
3:3:118:VAL:N	3:3:130:TYR:O	2.22	0.70
4:4:75:ALA:O	4:4:126:TYR:N	2.23	0.70
2:2:127:GLU:HG2	13:F:100:ASN:HB2	83.80	0.70
1:1:92:LYS:HZ3	13:F:93:ASN:HB2	97.40	0.70
15:H:287:GLY:O	15:H:291:VAL:N	2.17	0.70
17:J:114:CYS:O	17:J:123:HIS:N	2.24	0.70
18:K:99:PHE:HB3	18:K:135:MET:H	1.56	0.70
21:N:241:LEU:HA	21:N:244:LYS:HE3	1.72	0.70
23:P:263:HIS:O	23:P:266:TYR:HB3	1.90	0.70
24:Q:267:LEU:HG	24:Q:271:MET:HG3	1.72	0.70
25:R:377:LEU:HB3	25:R:379:CYS:HB3	1.73	0.70
26:S:239:ARG:NH1	26:S:243:ASN:HD21	1.88	0.70
28:U:122:ILE:N	28:U:135:ASP:O	2.23	0.70
29:V:23:THR:HB	29:V:164:LEU:HD23	1.73	0.70
29:V:247:ILE:HA	29:V:250:GLN:HB2	1.73	0.70
29:V:241:THR:CB	29:V:297:THR:HG21	2.19	0.70
30:W:16:SER:HB3	30:W:26:PHE:HB2	1.71	0.70
30:W:16:SER:OG	30:W:115:CYS:SG	2.33	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:509:LEU:HA	33:Z:512:ILE:HB	1.71	0.70
3:3:18:LEU:HA	3:3:39:THR:HG22	1.71	0.70
4:4:192:ILE:HG23	4:4:199:GLY:HA2	1.72	0.70
5:5:103:TYR:HA	6:6:93:ARG:NH2	2.01	0.70
5:5:70:LYS:NZ	5:5:94:SER:OG	2.24	0.70
1:8:46:THR:O	1:8:59:GLU:N	2.24	0.70
14:G:85:GLY:O	14:G:89:VAL:N	2.22	0.70
16:I:384:LYS:HG2	16:I:420:LYS:HD2	1.73	0.70
19:L:166:LEU:HA	19:L:170:MET:HB2	1.72	0.70
20:M:278:ILE:O	20:M:324:LEU:N	2.18	0.70
23:P:40:LEU:C	23:P:44:LYS:HZ3	1.93	0.70
24:Q:122:ILE:HA	24:Q:134:LYS:HB2	1.72	0.70
24:Q:418:GLN:HG3	29:V:262:THR:HG22	1.73	0.70
26:S:338:MET:HA	26:S:339:GLN:C	2.10	0.70
26:S:383:LEU:HA	26:S:386:ASN:HB2	1.73	0.70
28:U:41:ALA:HA	28:U:46:ILE:HG23	1.73	0.70
29:V:40:HIS:CD2	29:V:49:VAL:HB	2.26	0.70
33:Z:304:PRO:O	33:Z:308:LYS:N	2.23	0.70
1:1:134:ASP:N	1:1:138:LYS:O	2.23	0.70
10:C:195:LYS:NZ	10:C:244:ILE:HG13	2.06	0.70
11:D:127:ARG:HH12	11:D:129:PHE:HA	1.57	0.70
14:G:12:ASN:OD1	14:G:21:ASN:ND2	2.24	0.70
14:G:220:SER:HG	14:G:222:SER:HG	1.40	0.70
15:H:311:ILE:HD13	15:H:353:PHE:HB3	1.72	0.70
17:J:292:MET:HB2	17:J:310:ILE:HD11	1.72	0.70
18:K:210:LEU:O	18:K:338:ILE:N	2.20	0.70
18:K:214:PRO:O	18:K:217:THR:OG1	2.07	0.70
18:K:242:PHE:HB3	18:K:295:ILE:HD13	1.72	0.70
19:L:360:ILE:O	19:L:364:HIS:N	2.19	0.70
21:N:563:GLY:HA2	21:N:594:VAL:HG12	1.73	0.70
21:N:52:ASP:O	21:N:58:ARG:HD3	1.90	0.70
21:N:683:LEU:HA	21:N:686:ILE:HB	1.73	0.70
22:O:26:PHE:O	22:O:58:ARG:NH2	2.25	0.70
23:P:125:VAL:O	23:P:139:VAL:HB	1.92	0.70
24:Q:154:SER:O	24:Q:158:ILE:N	2.19	0.70
24:Q:415:LEU:O	24:Q:418:GLN:N	2.24	0.70
25:R:406:GLN:HA	25:R:406:GLN:NE2	2.05	0.70
22:O:362:GLN:HB3	28:U:230:GLN:HE22	1.56	0.70
28:U:30:ASN:HD21	28:U:31:LYS:HZ2	1.39	0.70
30:W:2:VAL:O	30:W:47:ASN:ND2	2.23	0.70
1:8:22:ASN:ND2	1:8:24:TYR:O	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:54:ILE:O	2:9:189:ARG:NH2	2.24	0.70
2:9:42:THR:HG22	2:9:74:ARG:CZ	2.21	0.70
2:9:42:THR:HG23	2:9:74:ARG:CZ	2.22	0.70
9:B:239:THR:OG1	9:B:242:GLU:N	2.17	0.70
11:D:230:ASN:HA	11:D:233:VAL:HB	1.74	0.70
14:G:41:LYS:HA	14:G:46:VAL:HG12	1.72	0.70
15:H:295:PHE:HB3	15:H:343:PHE:HE1	1.56	0.70
15:H:55:ASP:HB3	15:H:59:ILE:HD12	1.73	0.70
16:I:116:ASP:C	16:I:138:LYS:HZ1	1.94	0.70
19:L:377:GLU:O	19:L:381:LYS:N	2.19	0.70
19:L:98:LEU:HD13	20:M:71:ASN:HD21	1.56	0.70
22:O:310:PHE:CZ	22:O:341:ILE:HG23	2.22	0.70
22:O:83:LEU:HD21	22:O:102:LEU:HD12	1.73	0.70
24:Q:285:LYS:O	24:Q:289:GLU:N	2.24	0.70
24:Q:294:ARG:O	24:Q:298:ALA:N	2.16	0.70
26:S:390:THR:HG23	26:S:393:ARG:NH2	2.06	0.70
27:T:46:ILE:HG22	27:T:48:ASN:H	1.55	0.70
22:O:384:MET:HG3	28:U:190:LEU:HB2	1.73	0.70
30:W:37:PHE:HE1	30:W:67:ALA:O	1.75	0.70
33:Z:131:LYS:HG2	33:Z:135:LEU:HD22	1.72	0.70
33:Z:198:GLU:HA	33:Z:201:LEU:HB2	1.73	0.70
33:Z:328:ASP:OD1	33:Z:463:HIS:NE2	2.23	0.70
1:1:89:ASN:HD21	13:F:93:ASN:HD21	88.53	0.70
1:8:122:PHE:HZ	2:9:137:ARG:NH1	1.89	0.70
1:8:134:ASP:N	1:8:138:LYS:O	2.23	0.70
1:8:174:ASN:HB3	1:8:176:LYS:HE3	1.72	0.70
8:A:73:PHE:N	8:A:81:MET:O	2.15	0.70
9:B:188:ALA:HA	9:B:191:ILE:HB	1.73	0.70
12:E:80:GLY:HA3	12:E:140:VAL:HA	1.73	0.70
17:J:156:GLN:HE21	17:J:160:ILE:HG13	1.56	0.70
17:J:57:PHE:HA	17:J:60:ASP:OD2	1.92	0.70
18:K:128:ARG:HG3	18:K:129:GLU:H	1.57	0.70
22:O:215:TYR:OH	22:O:247:ASN:ND2	2.21	0.70
23:P:115:ARG:HH22	23:P:146:ILE:HG13	1.56	0.70
23:P:319:GLU:HB3	23:P:323:ASN:HB3	1.72	0.70
24:Q:379:GLN:HA	24:Q:382:LEU:HB3	1.73	0.70
25:R:384:VAL:HG23	26:S:402:ILE:HG22	1.71	0.70
25:R:61:PRO:HG3	25:R:144:ILE:HG22	1.73	0.70
27:T:34:LEU:HD13	27:T:58:THR:HG23	1.71	0.70
1:1:114:HIS:O	1:1:118:GLY:N	2.25	0.70
1:1:174:ASN:HB3	1:1:176:LYS:HE3	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D:68:ASP:OD1	11:D:69:SER:N	2.25	0.70
12:E:95:ALA:O	12:E:99:HIS:N	2.21	0.70
14:G:123:HIS:CE1	14:G:132:PHE:HE1	2.09	0.70
15:H:207:THR:OG1	15:H:265:ASN:ND2	2.25	0.70
19:L:360:ILE:HG22	19:L:391:ILE:HG21	1.72	0.70
20:M:129:LEU:HD13	20:M:132:VAL:HG13	1.72	0.70
20:M:255:TYR:CD2	20:M:258:GLU:HB2	2.26	0.70
20:M:336:ALA:CB	20:M:342:ARG:HH11	2.05	0.70
21:N:527:GLY:N	21:N:557:LEU:O	2.17	0.70
21:N:892:PRO:HD3	21:N:905:LEU:HD12	1.72	0.70
22:O:96:LEU:O	22:O:99:LEU:HB3	1.91	0.70
23:P:160:LEU:O	23:P:183:GLN:NE2	2.18	0.70
23:P:248:ASP:HA	23:P:251:LYS:HB3	1.72	0.70
24:Q:61:LEU:HA	24:Q:64:LEU:HB2	1.74	0.70
25:R:110:ILE:HG22	25:R:114:ASN:HD21	1.56	0.70
26:S:338:MET:HG2	26:S:341:SER:C	2.12	0.70
26:S:343:LEU:O	26:S:347:HIS:N	2.14	0.70
28:U:79:MET:O	28:U:83:ILE:N	2.18	0.70
30:W:85:LEU:HG	30:W:87:MET:H	1.56	0.70
32:Y:71:ASP:O	32:Y:75:ASN:N	2.18	0.70
33:Z:606:CYS:HB3	33:Z:875:LYS:HZ3	1.56	0.70
1:1:167:PRO:HG3	5:5:177:ARG:HG2	1.73	0.70
1:1:30:THR:HA	1:1:159:GLY:HA3	1.72	0.70
2:2:215:ARG:O	2:2:219:TYR:N	2.22	0.70
2:2:220:ARG:O	3:3:45:ILE:N	2.24	0.70
7:7:140:LEU:HG	7:7:144:ARG:HH12	1.55	0.70
7:7:122:GLY:HA3	7:7:172:MET:HA	1.72	0.70
7:7:84:GLN:N	7:7:221:TRP:O	2.22	0.70
10:C:49:GLU:HA	10:C:211:LEU:HD23	1.73	0.70
11:D:161:ALA:H	12:E:58:LEU:HB3	1.54	0.70
10:C:155:GLY:O	11:D:83:ARG:NH2	2.24	0.70
12:E:154:GLN:HB3	12:E:156:PHE:CE2	2.27	0.70
18:K:212:TYR:HB3	18:K:339:GLU:HG2	1.72	0.70
18:K:403:LEU:HB2	18:K:406:ASP:H	1.55	0.70
20:M:412:HIS:O	20:M:416:VAL:N	2.19	0.70
21:N:386:MET:O	21:N:390:LEU:N	2.24	0.70
21:N:533:ASP:HA	21:N:536:ILE:HB	1.74	0.70
21:N:36:TRP:HE3	21:N:68:VAL:HG13	1.55	0.70
21:N:890:PHE:HA	21:N:908:ARG:H	1.57	0.70
22:O:341:ILE:HB	23:P:357:TYR:HD1	1.57	0.70
22:O:382:LYS:NZ	22:O:383:LYS:HD3	2.07	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:287:ASP:O	23:P:289:ASN:ND2	2.25	0.70
24:Q:71:LYS:NZ	24:Q:109:ASP:OD1	2.22	0.70
24:Q:126:LYS:HG2	24:Q:134:LYS:HZ3	1.57	0.70
24:Q:335:PHE:HD1	24:Q:338:LEU:HD23	1.56	0.70
26:S:404:LEU:O	26:S:408:CYS:N	2.19	0.70
28:U:191:THR:O	28:U:194:LEU:N	2.24	0.70
30:W:142:ILE:HG23	30:W:174:VAL:HG21	1.73	0.70
1:1:22:ASN:ND2	1:1:24:TYR:O	2.24	0.70
6:6:43:LEU:HB2	6:6:189:ILE:HD13	1.73	0.70
7:7:97:ALA:N	7:7:100:TRP:O	2.24	0.70
2:9:49:TYR:HB2	2:9:201:THR:O	1.92	0.70
8:A:121:MET:HA	8:A:124:LEU:HD13	1.73	0.70
10:C:172:ALA:O	10:C:176:LEU:N	2.20	0.70
11:D:160:SER:HB3	11:D:179:TYR:CE2	2.27	0.70
18:K:128:ARG:HE	29:V:272:GLY:N	1.89	0.70
18:K:48:TYR:HB2	21:N:152:LEU:HG	1.74	0.70
19:L:131:VAL:HA	19:L:155:ILE:HD12	1.72	0.70
20:M:245:LYS:HZ1	20:M:281:ASP:HB2	1.55	0.70
22:O:309:SER:HA	22:O:348:VAL:HG23	1.73	0.70
24:Q:151:TYR:HA	24:Q:154:SER:HB2	1.73	0.70
25:R:134:TRP:HE3	25:R:153:THR:HG23	1.56	0.70
25:R:154:LEU:HD21	25:R:170:VAL:HG13	1.74	0.70
25:R:414:LEU:HD22	26:S:471:LEU:HD11	1.71	0.70
26:S:234:ILE:O	26:S:238:LEU:N	2.18	0.70
5:5:117:GLY:HA2	5:5:192:LYS:HD3	1.72	0.70
1:8:114:HIS:O	1:8:118:GLY:N	2.25	0.70
8:A:76:SER:OG	8:A:79:ILE:N	2.20	0.70
10:C:146:TYR:OH	10:C:218:LYS:N	2.15	0.70
10:C:14:SER:N	10:C:18:ARG:O	2.21	0.70
12:E:212:LEU:HD21	12:E:240:ILE:HG12	1.74	0.70
14:G:178:LYS:HB3	14:G:182:HIS:CE1	2.27	0.70
21:N:101:ILE:HA	21:N:104:LYS:HB3	1.74	0.70
23:P:177:ILE:HA	23:P:180:ILE:HD12	1.72	0.70
23:P:207:THR:HA	23:P:210:ASN:ND2	2.07	0.70
26:S:458:GLN:HA	26:S:461:PHE:HB2	1.73	0.70
27:T:265:ASP:O	27:T:269:SER:N	2.24	0.70
26:S:471:LEU:CD2	28:U:292:ILE:HD11	2.06	0.70
28:U:174:LEU:HD13	29:V:213:LEU:HD23	1.72	0.70
33:Z:444:GLU:HB3	33:Z:447:VAL:HG23	1.73	0.70
33:Z:567:ALA:HA	33:Z:587:THR:HG22	1.71	0.70
2:2:49:TYR:HB2	2:2:201:THR:O	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:46:TYR:OH	5:5:64:ASN:O	2.09	0.70
6:6:13:VAL:N	6:6:184:VAL:O	2.23	0.70
8:A:177:GLU:O	8:A:180:THR:OG1	2.10	0.70
8:A:57:LYS:N	8:A:222:ASP:O	2.24	0.70
10:C:85:GLU:HA	10:C:88:ILE:HB	1.74	0.70
12:E:46:VAL:HB	12:E:222:ILE:HG22	1.73	0.70
12:E:45:GLY:HA2	12:E:153:TYR:CE1	2.26	0.70
14:G:32:GLU:HG2	14:G:169:ARG:NH1	2.07	0.70
17:J:217:GLU:OE1	17:J:220:GLN:NE2	2.25	0.70
20:M:147:GLY:O	20:M:156:LEU:N	2.25	0.70
22:O:289:GLN:NE2	22:O:334:LEU:HD11	2.07	0.70
22:O:295:THR:O	22:O:299:THR:N	2.24	0.70
22:O:325:GLU:HB3	23:P:364:ARG:HH22	1.56	0.70
22:O:43:GLU:H	22:O:47:LYS:HB3	1.57	0.70
24:Q:239:PHE:HB3	24:Q:265:MET:HB2	1.74	0.70
30:W:67:ALA:HB3	30:W:68:GLU:CA	2.22	0.70
33:Z:307:HIS:CD2	33:Z:340:LEU:HB2	2.26	0.70
7:7:189:TYR:O	7:7:197:LEU:N	2.18	0.69
13:F:39:ARG:HD3	13:F:144:LEU:H	1.56	0.69
15:H:426:ALA:HB3	15:H:443:PHE:CE1	2.27	0.69
19:L:189:GLN:HE21	19:L:348:GLU:HG3	1.57	0.69
19:L:173:PHE:N	19:L:243:PHE:O	2.21	0.69
20:M:17:GLU:HA	30:W:69:PHE:CZ	2.19	0.69
21:N:714:THR:N	21:N:754:THR:O	2.21	0.69
23:P:127:GLU:O	23:P:136:ARG:HD2	1.92	0.69
23:P:409:SER:N	23:P:410:GLN:OE1	2.25	0.69
23:P:94:GLN:HG2	23:P:97:ILE:HD12	1.74	0.69
24:Q:269:LYS:O	24:Q:273:ASN:N	2.25	0.69
31:X:78:ILE:HD13	31:X:88:ALA:HB2	1.72	0.69
33:Z:232:LYS:O	33:Z:236:PHE:N	2.26	0.69
12:E:205:LYS:HZ1	12:E:211:LYS:CE	2.08	0.69
14:G:66:LYS:N	14:G:215:GLU:OE1	2.25	0.69
15:H:69:VAL:HG11	16:I:152:LYS:HE2	1.73	0.69
17:J:190:PRO:O	17:J:195:LYS:NZ	2.26	0.69
17:J:265:ASP:O	17:J:269:GLN:N	2.18	0.69
19:L:123:SER:HB2	20:M:125:GLN:HG2	1.74	0.69
21:N:714:THR:O	21:N:754:THR:N	2.25	0.69
21:N:9:LEU:HB3	21:N:28:ILE:HG12	1.73	0.69
22:O:282:GLN:OE1	22:O:282:GLN:N	2.22	0.69
23:P:128:ASN:HA	23:P:136:ARG:HH11	1.57	0.69
24:Q:164:GLU:O	24:Q:169:ASP:N	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:285:LYS:O	24:Q:290:THR:N	2.24	0.69
26:S:239:ARG:HA	26:S:242:LEU:HB2	1.73	0.69
26:S:421:TYR:HB3	27:T:156:SER:HA	1.72	0.69
27:T:239:SER:HB3	27:T:241:GLU:OE2	1.91	0.69
27:T:61:ILE:O	27:T:65:GLY:N	2.22	0.69
2:2:61:GLY:N	2:2:69:PHE:O	2.24	0.69
4:4:177:LYS:HE3	4:4:206:VAL:HG11	1.73	0.69
1:1:185:GLY:HA3	4:4:240:ALA:HB2	1.74	0.69
4:4:30:THR:O	4:4:158:SER:N	2.25	0.69
6:6:82:SER:HA	6:6:125:LYS:HZ3	1.57	0.69
6:6:142:SER:O	6:6:146:HIS:N	2.23	0.69
12:E:214:GLU:HG3	12:E:233:ASN:HB3	1.74	0.69
13:F:187:ASP:OD1	13:F:233:TYR:OH	2.10	0.69
13:F:11:VAL:HG23	14:G:130:ARG:H	3.33	0.69
15:H:210:ASP:HA	15:H:388:ILE:HG12	1.74	0.69
16:I:387:LEU:HD13	16:I:391:ASP:HB3	1.72	0.69
17:J:149:MET:HA	17:J:330:ILE:HG21	1.72	0.69
17:J:85:LEU:HA	17:J:95:ILE:HA	1.73	0.69
18:K:253:MET:O	18:K:257:VAL:N	2.26	0.69
19:L:174:GLU:HA	19:L:242:ASN:HA	1.73	0.69
20:M:180:TYR:HH	20:M:235:CYS:HG	1.39	0.69
20:M:177:THR:HA	20:M:237:ALA:HB2	1.73	0.69
21:N:451:GLY:O	21:N:455:MET:N	2.25	0.69
21:N:495:PRO:HA	21:N:498:ILE:HD12	1.74	0.69
21:N:75:TYR:O	21:N:79:VAL:N	2.18	0.69
25:R:247:GLU:OE2	25:R:285:ALA:HB1	1.93	0.69
25:R:58:GLU:HB3	25:R:105:LYS:HD2	1.72	0.69
26:S:1:MET:N	26:S:3:SER:OG	2.25	0.69
28:U:137:TYR:CE1	28:U:156:HIS:HB2	2.24	0.69
4:4:51:GLN:HG3	4:4:56:ALA:HB2	1.72	0.69
5:5:11:ILE:HD13	5:5:142:ALA:HB3	1.75	0.69
6:6:157:GLY:O	6:6:161:LEU:N	2.20	0.69
7:7:76:THR:O	7:7:206:SER:N	2.25	0.69
2:9:102:ASP:O	2:9:106:GLU:N	2.21	0.69
12:E:91:HIS:CD2	12:E:119:LEU:HD11	2.28	0.69
12:E:232:ASP:OD2	12:E:234:GLU:HB2	1.92	0.69
14:G:23:GLN:O	14:G:27:ALA:N	2.22	0.69
16:I:253:ILE:HD13	16:I:253:ILE:O	1.93	0.69
17:J:76:ILE:HG12	17:J:87:LYS:H	1.57	0.69
18:K:180:GLN:HE22	18:K:340:PHE:HA	1.55	0.69
19:L:147:THR:HG22	19:L:156:MET:HB2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:163:LEU:HD22	23:P:179:PHE:HB2	1.74	0.69
23:P:181:LEU:HG	23:P:223:LEU:HD11	1.74	0.69
24:Q:10:GLU:HA	24:Q:13:ARG:HB2	1.74	0.69
25:R:319:CYS:HB2	25:R:322:LEU:HD12	1.73	0.69
31:X:86:ILE:HG21	31:X:98:PHE:HB3	1.73	0.69
5:5:8:ASN:OD1	5:5:56:LEU:HD12	1.92	0.69
1:8:30:THR:HA	1:8:74:ASN:ND2	2.07	0.69
8:A:158:ASP:OD2	8:A:160:ALA:HB3	1.93	0.69
16:I:91:GLU:HA	16:I:94:LYS:HB3	1.74	0.69
17:J:42:ARG:NH2	26:S:484:ASP:O	2.26	0.69
19:L:110:LYS:N	19:L:118:ILE:O	2.23	0.69
21:N:318:LYS:HZ1	21:N:348:PHE:HB2	1.55	0.69
24:Q:423:VAL:CG1	25:R:417:TYR:CZ	2.76	0.69
28:U:54:LEU:HB3	28:U:68:LEU:HD11	1.74	0.69
31:X:48:PHE:CZ	31:X:68:LEU:HB2	2.26	0.69
2:2:228:PHE:N	2:2:245:LEU:O	2.24	0.69
8:A:186:PHE:O	8:A:190:LYS:N	2.17	0.69
13:F:117:GLN:NE2	13:F:120:THR:OG1	2.25	0.69
13:F:13:PHE:HZ	14:G:131:PRO:O	1.75	0.69
13:F:33:SER:HB3	13:F:62:LYS:HZ3	1.57	0.69
15:H:405:GLU:HG2	15:H:409:ARG:NH1	2.07	0.69
21:N:254:SER:HB2	21:N:286:LEU:HD21	1.74	0.69
24:Q:135:HIS:HA	24:Q:138:SER:HB2	1.74	0.69
25:R:361:VAL:HG12	25:R:365:ASP:OD2	1.93	0.69
26:S:344:PRO:HG2	26:S:370:LEU:HD23	1.74	0.69
26:S:471:LEU:CD1	28:U:288:PHE:CB	2.70	0.69
27:T:215:LYS:O	27:T:219:LYS:NZ	2.19	0.69
30:W:98:LEU:HD13	30:W:108:GLN:HB3	1.75	0.69
4:4:36:LYS:N	4:4:152:TYR:O	2.26	0.69
8:A:127:ILE:O	8:A:131:ARG:N	2.25	0.69
12:E:100:ASN:O	12:E:104:ASP:N	2.23	0.69
16:I:252:LEU:CD2	16:I:287:ILE:CD1	2.51	0.69
16:I:398:GLU:HG2	16:I:402:LEU:HG	1.75	0.69
17:J:30:THR:HB	18:K:55:GLU:OE2	1.93	0.69
21:N:259:PHE:HA	21:N:262:VAL:HG12	1.75	0.69
21:N:668:THR:HB	21:N:675:VAL:HG21	1.73	0.69
21:N:861:TYR:HB2	21:N:881:TYR:CD1	2.27	0.69
24:Q:112:ASP:O	24:Q:116:PHE:N	2.25	0.69
25:R:363:PHE:HA	25:R:366:ASN:HD22	1.58	0.69
26:S:425:ARG:NH1	27:T:156:SER:N	2.36	0.69
30:W:127:ARG:HA	30:W:130:LYS:HD2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:511:PRO:O	33:Z:515:SER:N	2.25	0.69
1:1:205:ASP:OD1	4:4:229:GLN:N	2.24	0.69
1:1:56:SER:HB3	1:1:59:GLU:HB2	1.75	0.69
1:1:82:ALA:O	1:1:86:ARG:N	2.17	0.69
3:3:175:LYS:HG2	3:3:215:LEU:HD11	1.74	0.69
4:4:38:ASN:ND2	4:4:176:THR:HA	2.08	0.69
4:4:77:THR:HG22	4:4:80:ASP:H	1.57	0.69
1:8:63:PHE:O	1:8:71:MET:N	2.24	0.69
2:9:228:PHE:N	2:9:245:LEU:O	2.24	0.69
12:E:81:LEU:N	12:E:139:GLY:O	2.23	0.69
13:F:67:ASP:HB3	13:F:70:MET:HB3	1.75	0.69
14:G:8:TYR:CD1	14:G:16:SER:HA	2.27	0.69
15:H:392:HIS:CE1	15:H:419:LEU:HB2	2.28	0.69
18:K:162:GLY:HA3	18:K:236:ARG:HB3	1.74	0.69
19:L:228:LYS:HB2	19:L:349:ILE:HG21	1.75	0.69
21:N:36:TRP:HA	21:N:39:ILE:HB	1.75	0.69
21:N:391:PRO:HA	21:N:401:LYS:HE3	1.72	0.69
22:O:140:LYS:HA	22:O:181:PHE:HE1	1.53	0.69
22:O:30:GLU:H	22:O:58:ARG:NH2	1.91	0.69
23:P:341:LEU:HA	23:P:344:ARG:HB3	1.75	0.69
23:P:381:SER:O	23:P:385:ASN:N	2.18	0.69
25:R:373:PRO:O	25:R:375:LYS:NZ	2.22	0.69
25:R:62:TYR:CE2	25:R:66:LEU:HB2	2.28	0.69
28:U:141:GLU:CA	28:U:152:LYS:C	2.61	0.69
29:V:107:TRP:O	29:V:138:ALA:CA	2.40	0.69
1:1:46:THR:O	1:1:59:GLU:N	2.24	0.69
6:6:183:ILE:N	6:6:190:ARG:O	2.24	0.69
9:B:191:ILE:HA	9:B:194:LEU:HD12	1.75	0.69
12:E:237:ALA:HA	12:E:240:ILE:HD12	1.75	0.69
12:E:97:VAL:O	12:E:101:LEU:N	2.17	0.69
17:J:180:ALA:HB1	17:J:183:LYS:NZ	2.08	0.69
18:K:210:LEU:N	18:K:336:ARG:O	2.24	0.69
19:L:246:SER:HB3	19:L:280:MET:HA	1.73	0.69
20:M:336:ALA:HB2	20:M:342:ARG:HH11	1.56	0.69
20:M:36:LEU:HD23	20:M:70:LYS:HD2	1.75	0.69
21:N:406:TYR:HB2	21:N:448:LEU:HB2	1.75	0.69
22:O:82:LEU:O	22:O:87:LYS:N	2.26	0.69
24:Q:144:LEU:O	24:Q:148:LYS:N	2.16	0.69
28:U:80:CYS:HB3	28:U:87:GLU:HG3	1.73	0.69
33:Z:513:ALA:O	33:Z:516:THR:OG1	2.07	0.69
7:7:92:ASP:HB2	7:7:247:GLY:O	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:28:GLY:HA3	1:8:49:ILE:CG1	2.22	0.69
8:A:41:ASN:OD1	8:A:174:LYS:N	2.25	0.69
10:C:170:SER:HA	10:C:173:GLN:HB3	1.74	0.69
11:D:39:LYS:H	11:D:186:ALA:HA	1.57	0.69
13:F:11:VAL:O	14:G:130:ARG:HB2	1.93	0.69
17:J:297:LEU:HD13	17:J:305:LEU:HD11	1.73	0.69
19:L:358:LEU:HB2	19:L:380:VAL:HG11	1.73	0.69
15:H:155:PHE:HE2	20:M:150:LYS:HZ1	1.40	0.69
21:N:117:TYR:OH	21:N:202:PHE:HB2	1.92	0.69
22:O:127:LEU:HA	22:O:130:ASP:OD2	1.92	0.69
23:P:125:VAL:O	23:P:136:ARG:HA	1.93	0.69
24:Q:143:THR:O	24:Q:147:GLN:N	2.20	0.69
25:R:168:ILE:HG12	25:R:206:ARG:HG3	1.73	0.69
25:R:312:TYR:HD1	25:R:316:LEU:HD12	1.58	0.69
27:T:59:LYS:HE3	27:T:94:HIS:CE1	2.27	0.69
28:U:212:ASP:HA	28:U:215:ILE:HB	1.74	0.69
31:X:123:ASN:HA	31:X:126:ILE:HB	1.75	0.69
2:2:76:ILE:N	2:2:84:VAL:O	2.22	0.69
7:7:172:MET:H	7:7:192:SER:HB3	1.55	0.69
9:B:241:GLN:NE2	9:B:245:ASP:OD1	2.23	0.69
12:E:243:LEU:O	12:E:247:GLU:CB	2.41	0.69
15:H:67:ALA:O	15:H:71:GLU:N	2.25	0.69
16:I:304:ARG:NH1	16:I:308:GLU:HB2	2.07	0.69
17:J:317:PRO:HB2	17:J:318:PRO:CA	2.18	0.69
21:N:238:ALA:O	21:N:242:PHE:N	2.19	0.69
21:N:331:ALA:HB2	21:N:697:PHE:CD2	2.27	0.69
21:N:69:TYR:HD1	21:N:72:LEU:HD12	1.58	0.69
21:N:779:GLU:HG2	21:N:866:TYR:HE1	1.58	0.69
23:P:335:LYS:HA	23:P:339:GLU:H	1.58	0.69
24:Q:219:ASP:HB2	24:Q:242:SER:HB3	1.75	0.69
26:S:221:ALA:HB3	26:S:230:LYS:NZ	2.06	0.69
26:S:371:LEU:O	26:S:375:ASP:N	2.26	0.69
26:S:469:ASN:O	26:S:473:ASP:HB3	1.93	0.69
31:X:66:LEU:HD21	31:X:97:TYR:CG	2.28	0.69
2:2:76:ILE:O	2:2:84:VAL:N	2.25	0.68
4:4:36:LYS:NZ	4:4:138:HIS:HA	2.08	0.68
1:8:113:GLN:HB2	1:8:150:TYR:HE2	1.59	0.68
10:C:171:ALA:O	10:C:175:LEU:HG	1.93	0.68
15:H:105:ILE:HD13	15:H:169:GLU:OE1	1.93	0.68
15:H:424:THR:HG21	16:I:343:ARG:HH12	1.57	0.68
16:I:190:GLN:NE2	16:I:349:LEU:O	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:379:ALA:O	19:L:383:SER:N	2.26	0.68
19:L:71:ASP:HA	19:L:74:LEU:HB3	1.75	0.68
25:R:218:CYS:O	25:R:223:ASN:N	2.26	0.68
25:R:74:ASN:HA	25:R:87:SER:HA	1.73	0.68
28:U:102:SER:HA	28:U:105:LYS:HZ3	1.57	0.68
28:U:174:LEU:HD21	29:V:210:THR:HG23	1.75	0.68
28:U:24:ARG:NH1	29:V:100:ARG:HA	2.08	0.68
33:Z:307:HIS:ND1	33:Z:310:LEU:HD23	2.09	0.68
33:Z:517:ASP:O	33:Z:522:THR:N	2.26	0.68
1:1:27:ASN:OD1	1:1:77:ALA:N	2.26	0.68
1:1:40:ALA:N	1:1:226:VAL:O	2.23	0.68
7:7:103:SER:HB3	7:7:106:VAL:HG23	1.75	0.68
7:7:103:SER:HB2	1:8:156:ARG:HH22	1.57	0.68
10:C:75:VAL:HG12	10:C:137:TYR:HA	1.75	0.68
11:D:31:THR:HG21	11:D:49:ARG:HB2	1.76	0.68
12:E:201:LEU:CD2	12:E:243:LEU:CD2	2.71	0.68
17:J:373:ARG:NH2	24:Q:193:LYS:HG2	2.08	0.68
20:M:230:LEU:O	20:M:234:ALA:N	2.22	0.68
21:N:135:SER:O	21:N:139:ARG:N	2.23	0.68
21:N:298:TYR:O	21:N:302:PHE:N	2.15	0.68
21:N:759:ILE:HG13	21:N:770:LYS:HE2	1.75	0.68
21:N:891:VAL:H	21:N:908:ARG:HG2	1.58	0.68
25:R:259:PHE:CE1	25:R:332:GLU:HB2	2.27	0.68
25:R:394:ASP:O	25:R:397:ASN:ND2	2.27	0.68
26:S:478:SER:HA	26:S:481:TYR:HE2	1.58	0.68
27:T:151:TRP:CZ2	27:T:159:LYS:HB2	2.28	0.68
28:U:195:LYS:HZ3	29:V:233:LYS:HE3	1.58	0.68
29:V:109:HIS:HB2	29:V:111:HIS:NE2	2.08	0.68
33:Z:204:CYS:O	33:Z:208:VAL:N	2.21	0.68
33:Z:233:LEU:HA	33:Z:236:PHE:HB3	1.73	0.68
5:5:149:MET:HE3	5:5:153:LEU:HD11	1.76	0.68
1:8:56:SER:HB3	1:8:59:GLU:HB2	1.75	0.68
13:F:186:PRO:O	13:F:190:ILE:N	2.23	0.68
13:F:50:LYS:HB3	13:F:59:TYR:HB3	1.76	0.68
12:E:167:TYR:CE2	13:F:57:SER:HB3	2.28	0.68
17:J:181:GLN:NE2	17:J:287:ASN:OD1	2.26	0.68
17:J:88:VAL:HG12	17:J:90:PRO:HD2	1.75	0.68
19:L:132:ARG:NH1	19:L:156:MET:HA	2.07	0.68
19:L:246:SER:O	19:L:281:ASP:N	2.20	0.68
21:N:112:GLU:O	21:N:116:GLN:N	2.22	0.68
24:Q:311:LEU:HD22	24:Q:366:ILE:HG13	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:327:ASP:HA	25:R:330:VAL:HG23	1.74	0.68
25:R:407:GLY:HA2	25:R:410:LEU:HD12	1.74	0.68
17:J:42:ARG:HB2	26:S:484:ASP:OD2	1.92	0.68
2:2:155:ASN:ND2	2:2:157:ASP:OD2	2.27	0.68
3:3:118:VAL:HB	3:3:130:TYR:HB2	1.74	0.68
4:4:96:SER:OG	4:4:101:ARG:O	2.09	0.68
4:4:121:GLY:HA3	4:4:145:HIS:CE1	2.29	0.68
6:6:159:ASP:O	6:6:163:LEU:N	2.16	0.68
6:6:18:SER:HA	6:6:179:VAL:HG12	1.76	0.68
6:6:66:LEU:HG	6:6:70:ARG:HH12	1.58	0.68
2:9:155:ASN:ND2	2:9:157:ASP:OD2	2.26	0.68
13:F:195:GLU:O	13:F:198:SER:OG	2.07	0.68
15:H:305:ILE:HA	15:H:350:LYS:HB2	1.76	0.68
16:I:303:GLN:O	16:I:307:LEU:N	2.20	0.68
16:I:378:GLU:HA	16:I:381:VAL:HB	1.75	0.68
17:J:97:ASP:OD1	17:J:98:VAL:N	2.27	0.68
18:K:78:GLU:OE1	18:K:81:ARG:NH2	2.26	0.68
25:R:167:LYS:HE2	25:R:198:ILE:HG22	1.76	0.68
26:S:471:LEU:CD1	28:U:288:PHE:CA	2.71	0.68
27:T:227:PRO:HG3	27:T:236:ASN:H	1.58	0.68
27:T:20:TYR:HA	27:T:23:CYS:SG	2.33	0.68
27:T:266:TYR:O	27:T:270:ILE:N	2.26	0.68
28:U:210:TYR:HA	28:U:213:LYS:HB3	1.75	0.68
29:V:257:GLU:OE2	29:V:287:THR:CG2	2.41	0.68
30:W:49:VAL:H	30:W:71:LYS:NZ	1.92	0.68
33:Z:297:VAL:O	33:Z:301:THR:N	2.24	0.68
7:7:276:LYS:HZ1	7:7:285:VAL:C	1.95	0.68
10:C:120:GLN:NE2	11:D:81:ASP:HA	2.09	0.68
12:E:201:LEU:HD23	12:E:243:LEU:CD2	2.24	0.68
14:G:136:THR:O	14:G:150:MET:HA	1.93	0.68
14:G:218:TRP:CH2	14:G:224:THR:HG23	2.28	0.68
14:G:38:ILE:HA	14:G:164:ALA:HA	1.76	0.68
16:I:115:ASP:OD2	16:I:129:TYR:OH	2.12	0.68
18:K:257:VAL:HA	18:K:260:LEU:HB3	1.74	0.68
18:K:348:GLU:O	18:K:352:ILE:N	2.24	0.68
18:K:96:ILE:HG12	19:L:128:ILE:HG13	1.76	0.68
19:L:355:ALA:HA	19:L:358:LEU:HB3	1.75	0.68
21:N:140:MET:O	21:N:144:CYS:N	2.24	0.68
21:N:170:LEU:O	21:N:174:LEU:N	2.26	0.68
21:N:18:ASP:HA	21:N:21:LYS:HB2	1.76	0.68
22:O:125:GLY:O	22:O:129:ILE:N	2.21	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:163:LEU:O	23:P:167:THR:OG1	2.07	0.68
24:Q:326:MET:HA	24:Q:332:ARG:HD3	1.76	0.68
26:S:143:GLN:CD	26:S:148:ASP:OD2	2.31	0.68
26:S:292:TYR:O	26:S:296:ALA:N	2.27	0.68
26:S:338:MET:H	26:S:342:LEU:H	1.40	0.68
28:U:140:ILE:C	28:U:153:THR:O	2.31	0.68
28:U:10:ILE:N	28:U:160:THR:O	2.26	0.68
29:V:49:VAL:O	29:V:109:HIS:ND1	2.23	0.68
29:V:163:ALA:HB2	29:V:184:ASN:HB3	1.75	0.68
33:Z:987:PRO:HB3	33:Z:990:ARG:HH21	1.58	0.68
1:1:63:PHE:O	1:1:71:MET:N	2.23	0.68
7:7:82:ARG:NE	7:7:185:PRO:O	2.25	0.68
12:E:72:ARG:HH21	12:E:226:ASP:HA	1.58	0.68
14:G:117:GLY:O	14:G:121:GLN:N	2.20	0.68
8:A:15:HIS:NE2	14:G:6:THR:O	2.26	0.68
17:J:149:MET:HE3	17:J:153:LEU:HD11	11.81	0.68
21:N:451:GLY:HA2	21:N:454:ALA:HB3	1.76	0.68
21:N:542:SER:CB	21:N:547:LEU:HB2	2.24	0.68
21:N:629:CYS:HA	21:N:632:LYS:HB2	1.76	0.68
23:P:147:LYS:HZ2	23:P:159:ILE:CG2	2.05	0.68
24:Q:277:ASP:HA	24:Q:280:ASN:HB2	1.76	0.68
24:Q:405:GLN:NE2	25:R:394:ASP:O	2.26	0.68
27:T:110:LEU:O	27:T:114:LEU:N	2.16	0.68
30:W:39:ALA:O	30:W:43:SER:N	2.25	0.68
30:W:92:GLN:NE2	30:W:95:GLN:OE1	2.27	0.68
33:Z:355:GLU:HA	33:Z:358:TYR:CD2	2.29	0.68
33:Z:408:TYR:HE1	33:Z:442:VAL:HG21	1.58	0.68
3:3:85:TYR:O	3:3:89:TYR:N	2.25	0.68
7:7:252:LEU:HB2	7:7:263:HIS:HB2	1.76	0.68
10:C:14:SER:OG	10:C:18:ARG:N	2.26	0.68
19:L:82:ARG:HB3	19:L:86:LYS:HZ1	1.57	0.68
20:M:219:LEU:O	20:M:347:ILE:N	2.27	0.68
21:N:36:TRP:O	21:N:40:SER:N	2.26	0.68
21:N:498:ILE:HG23	21:N:535:LEU:HD22	1.75	0.68
18:K:74:HIS:CE1	21:N:577:SER:HA	2.29	0.68
21:N:60:MET:HB2	21:N:88:ARG:HE	1.59	0.68
23:P:287:ASP:HB3	23:P:294:GLU:HG2	1.74	0.68
23:P:411:LEU:HG	23:P:415:TRP:HB2	1.76	0.68
30:W:17:ARG:NH1	30:W:18:ASN:HD22	1.91	0.68
30:W:55:ALA:O	30:W:86:HIS:NE2	2.27	0.68
33:Z:539:ASN:HB3	33:Z:542:ILE:HG22	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:987:PRO:HA	33:Z:990:ARG:HB3	1.76	0.68
2:2:50:ASP:OD1	2:2:51:ASN:N	2.27	0.68
3:3:172:ASP:O	3:3:176:HIS:ND1	2.24	0.68
5:5:12:VAL:HG22	5:5:25:CYS:HB3	1.76	0.68
15:H:390:ARG:O	15:H:393:SER:OG	2.11	0.68
17:J:114:CYS:HB2	17:J:124:LYS:HG2	1.74	0.68
17:J:318:PRO:HB2	17:J:319:PRO:C	2.13	0.68
17:J:61:GLU:O	17:J:65:LEU:N	2.25	0.68
17:J:84:VAL:N	17:J:96:VAL:O	2.27	0.68
18:K:281:ARG:HE	18:K:285:GLN:H	1.41	0.68
18:K:385:ALA:O	18:K:389:GLU:N	2.15	0.68
19:L:400:PHE:O	19:L:404:ARG:N	2.27	0.68
21:N:221:ASP:OD2	21:N:224:THR:N	2.22	0.68
21:N:325:PHE:HD2	29:V:184:ASN:HB2	1.59	0.68
23:P:276:LEU:O	23:P:280:LEU:N	2.25	0.68
25:R:232:VAL:HA	25:R:253:ALA:HB1	1.75	0.68
25:R:286:LEU:HD22	25:R:289:ILE:HD13	1.75	0.68
25:R:288:SER:O	25:R:292:LEU:N	2.27	0.68
28:U:7:LYS:HB3	28:U:157:LEU:HD23	1.74	0.68
33:Z:269:TYR:HA	33:Z:272:TYR:HB2	1.76	0.68
1:1:201:LYS:HG2	4:4:229:GLN:HG3	1.75	0.68
9:B:119:GLN:NE2	10:C:83:ASP:HA	2.08	0.68
8:A:21:PRO:HA	9:B:23:TYR:CE1	2.29	0.68
12:E:36:THR:HA	12:E:173:GLY:HA3	1.76	0.68
14:G:68:GLN:HE22	14:G:86:ARG:NH1	1.91	0.68
15:H:97:LEU:HD12	15:H:189:PRO:HB2	1.75	0.68
17:J:273:LEU:HA	17:J:276:LEU:HB2	1.76	0.68
15:H:155:PHE:HE2	20:M:150:LYS:NZ	1.91	0.68
20:M:216:LYS:HE3	20:M:321:VAL:HG21	1.75	0.68
21:N:95:SER:HB2	26:S:219:LYS:HZ2	1.59	0.68
23:P:108:LYS:HA	23:P:112:LEU:CG	2.24	0.68
23:P:168:TYR:O	23:P:176:LYS:NZ	2.25	0.68
23:P:255:ALA:HA	23:P:258:LYS:HE2	1.76	0.68
23:P:311:TRP:NE1	23:P:342:GLN:OE1	2.27	0.68
23:P:377:GLU:HA	23:P:380:ILE:HD12	1.76	0.68
24:Q:182:SER:O	24:Q:186:HIS:N	2.21	0.68
24:Q:411:SER:HB3	29:V:258:GLU:HG2	1.74	0.68
26:S:394:ILE:O	26:S:395:ILE:HG12	1.93	0.68
27:T:118:ASN:HB3	27:T:121:LYS:NZ	2.09	0.68
28:U:283:ARG:C	28:U:283:ARG:HD3	2.15	0.68
28:U:169:ILE:HG12	29:V:149:GLY:HA2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:445:PRO:HB3	33:Z:485:ILE:HG13	1.75	0.68
33:Z:762:GLY:HA3	33:Z:792:VAL:HG21	1.76	0.68
2:9:46:SER:N	2:9:175:LEU:O	2.27	0.68
9:B:150:VAL:HG22	9:B:156:TYR:HB2	1.76	0.68
11:D:122:GLN:HB3	12:E:136:ARG:CZ	2.24	0.68
12:E:18:GLU:OE1	12:E:18:GLU:N	2.21	0.68
15:H:168:ILE:HG12	15:H:186:PRO:HG3	1.75	0.68
15:H:334:LEU:HD11	20:M:169:ALA:HA	1.76	0.68
18:K:233:ALA:O	18:K:268:ILE:N	2.27	0.68
19:L:184:GLY:O	19:L:360:ILE:HG13	1.93	0.68
20:M:147:GLY:N	20:M:157:ASP:O	2.27	0.68
20:M:309:LEU:O	20:M:313:ASP:N	2.15	0.68
21:N:360:GLN:HG3	21:N:363:ALA:H	1.58	0.68
22:O:173:SER:O	22:O:176:SER:OG	2.10	0.68
22:O:340:SER:O	22:O:349:THR:N	2.27	0.68
23:P:417:HIS:HA	23:P:420:ASP:OD2	1.92	0.68
24:Q:162:LEU:HB3	24:Q:166:LYS:HE3	1.75	0.68
25:R:404:VAL:HG22	26:S:460:VAL:HG11	1.76	0.68
27:T:106:ILE:HA	27:T:109:TYR:HB3	1.75	0.68
27:T:168:SER:HA	27:T:171:ILE:HB	1.76	0.68
28:U:104:LEU:HD13	28:U:152:LYS:CE	2.24	0.68
33:Z:762:GLY:N	33:Z:789:GLN:HE21	1.91	0.68
2:2:42:THR:HG23	2:2:74:ARG:CZ	2.23	0.67
3:3:102:LYS:HZ2	2:9:94:GLN:HB3	1.58	0.67
2:2:253:ASP:HB3	4:4:173:GLN:HE22	1.59	0.67
10:C:181:LYS:HG2	10:C:184:MET:HG3	1.76	0.67
11:D:18:PHE:O	11:D:22:TYR:N	2.27	0.67
12:E:72:ARG:NH2	12:E:225:GLN:O	2.27	0.67
2:9:118:GLU:O	13:F:101:ARG:NH2	2.27	0.67
14:G:123:HIS:CD2	14:G:132:PHE:CE1	2.81	0.67
16:I:180:SER:HB3	16:I:238:ASN:HD22	1.57	0.67
16:I:396:CYS:HA	16:I:416:PHE:CE2	2.29	0.67
17:J:112:ARG:HG2	17:J:128:ASN:HA	1.74	0.67
23:P:427:GLU:HA	29:V:234:GLU:OE2	1.92	0.67
23:P:7:LYS:O	23:P:11:GLN:N	2.27	0.67
26:S:389:LYS:HA	26:S:392:ILE:HD12	1.75	0.67
30:W:20:ASP:H	30:W:25:ARG:HB2	1.60	0.67
3:3:55:ARG:HB2	3:3:61:TRP:CZ2	2.29	0.67
6:6:7:ILE:O	6:6:14:ILE:N	2.20	0.67
2:9:50:ASP:OD1	2:9:51:ASN:N	2.26	0.67
11:D:175:LEU:HA	11:D:178:ASN:HB2	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:234:GLU:N	12:E:234:GLU:OE1	2.24	0.67
1:1:92:LYS:HZ2	13:F:93:ASN:HB2	96.53	0.67
15:H:263:VAL:HA	15:H:266:ARG:HB2	1.76	0.67
15:H:319:PHE:CD1	20:M:249:PRO:HA	2.29	0.67
16:I:384:LYS:HZ2	16:I:392:ILE:HG12	1.58	0.67
18:K:342:SER:HB2	18:K:344:ARG:NH2	2.09	0.67
20:M:148:VAL:HA	20:M:156:LEU:H	1.58	0.67
21:N:227:LYS:O	21:N:231:ASN:N	2.23	0.67
22:O:64:ASN:C	22:O:66:VAL:H	1.97	0.67
22:O:93:ASP:O	22:O:96:LEU:N	2.27	0.67
26:S:320:ILE:HA	26:S:323:LEU:HD12	1.75	0.67
26:S:436:ILE:HG12	26:S:443:ILE:HA	1.76	0.67
27:T:104:LYS:HZ1	27:T:169:GLN:HE22	1.40	0.67
29:V:71:MET:HE2	29:V:84:ASP:H	1.59	0.67
1:1:119:LYS:O	1:1:122:PHE:N	2.27	0.67
3:3:55:ARG:HB2	3:3:61:TRP:CH2	2.29	0.67
1:8:54:ILE:CB	2:9:189:ARG:HH12	2.03	0.67
9:B:41:ASN:ND2	9:B:185:LEU:H	1.92	0.67
11:D:22:TYR:HA	11:D:25:GLU:HG2	1.76	0.67
15:H:288:ALA:HA	15:H:335:GLU:HG2	1.75	0.67
15:H:69:VAL:HG11	16:I:152:LYS:HB3	1.76	0.67
17:J:275:LEU:HA	17:J:278:GLN:HB3	1.76	0.67
21:N:124:TYR:HB2	21:N:162:ARG:NH1	2.08	0.67
21:N:427:ILE:O	21:N:431:SER:N	2.28	0.67
22:O:242:ILE:HB	22:O:248:TYR:CD1	2.30	0.67
23:P:305:THR:O	23:P:310:ARG:NH2	2.27	0.67
23:P:66:LEU:HB3	23:P:70:ASN:ND2	2.09	0.67
24:Q:285:LYS:HA	24:Q:288:LYS:HB3	1.75	0.67
25:R:240:SER:OG	25:R:244:THR:N	2.28	0.67
27:T:186:ARG:O	27:T:190:ALA:N	2.23	0.67
27:T:43:ASP:OD2	27:T:47:GLN:HG3	1.95	0.67
28:U:189:ARG:HA	28:U:192:ASN:ND2	2.10	0.67
33:Z:385:PHE:O	33:Z:389:PHE:N	2.21	0.67
2:2:46:SER:N	2:2:175:LEU:O	2.27	0.67
2:2:49:TYR:CZ	2:2:203:VAL:HG22	2.30	0.67
5:5:68:ARG:HH21	10:C:100:LYS:HA	1.56	0.67
7:7:104:GLN:HB3	7:7:248:GLY:HA2	1.76	0.67
2:9:136:ARG:NH2	2:9:141:ASN:OD1	2.28	0.67
13:F:166:GLN:O	13:F:170:THR:N	2.22	0.67
20:M:11:THR:O	20:M:15:ASP:N	2.20	0.67
20:M:17:GLU:HB3	20:M:21:GLU:OE2	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:376:TRP:O	20:M:380:ALA:N	2.19	0.67
21:N:313:LEU:HD12	21:N:316:LYS:HD3	1.74	0.67
22:O:192:SER:HA	22:O:195:TYR:HB3	1.77	0.67
22:O:89:SER:OG	22:O:94:GLU:OE1	2.13	0.67
23:P:252:SER:HB2	23:P:257:TRP:HB2	1.76	0.67
26:S:212:SER:O	26:S:216:LYS:N	2.22	0.67
26:S:250:ALA:HA	26:S:253:PHE:CD2	2.29	0.67
26:S:401:LYS:HG2	26:S:444:GLU:HA	1.77	0.67
28:U:235:LEU:O	28:U:259:ASN:ND2	2.28	0.67
29:V:108:TYR:HD1	29:V:108:TYR:C	1.97	0.67
29:V:145:GLN:HB3	29:V:152:VAL:HG21	1.76	0.67
30:W:129:ALA:HA	30:W:132:LEU:HD12	1.76	0.67
33:Z:362:LEU:O	33:Z:366:LYS:CB	2.39	0.67
4:4:202:VAL:O	4:4:219:TYR:N	2.27	0.67
1:1:181:PRO:HA	4:4:237:GLY:HA3	1.75	0.67
5:5:98:ARG:O	5:5:101:GLY:N	2.28	0.67
2:9:49:TYR:CZ	2:9:203:VAL:HG22	2.30	0.67
14:G:221:LEU:HA	14:G:226:GLY:H	1.59	0.67
15:H:175:GLY:HA3	15:H:189:PRO:HB3	1.75	0.67
17:J:172:GLU:HA	17:J:175:GLU:HB2	1.75	0.67
18:K:123:LEU:HB3	18:K:125:THR:HB	1.76	0.67
18:K:185:ARG:HA	18:K:189:GLU:HB3	1.76	0.67
18:K:291:GLU:HG3	18:K:294:ARG:HH22	1.59	0.67
20:M:201:MET:SD	20:M:239:THR:HB	2.35	0.67
20:M:216:LYS:HZ2	20:M:315:PHE:HD2	1.42	0.67
20:M:221:TYR:CE1	20:M:346:LYS:HG2	2.29	0.67
21:N:187:ASN:HA	21:N:190:LEU:HB3	1.77	0.67
21:N:167:GLU:HG3	21:N:213:PHE:CZ	2.29	0.67
21:N:167:GLU:HG3	21:N:213:PHE:HZ	1.60	0.67
21:N:641:LEU:O	21:N:645:THR:N	2.27	0.67
21:N:65:ALA:HB1	21:N:69:TYR:CZ	2.29	0.67
22:O:68:LYS:O	22:O:72:LYS:N	2.27	0.67
23:P:168:TYR:HD1	23:P:171:MET:HB3	1.59	0.67
25:R:225:LYS:NZ	25:R:261:LEU:HD23	2.09	0.67
25:R:382:ASP:OD1	25:R:383:ARG:N	2.28	0.67
28:U:140:ILE:C	28:U:153:THR:CA	2.63	0.67
29:V:31:SER:HA	29:V:34:LEU:HB3	1.76	0.67
31:X:28:PRO:HG2	31:X:59:ARG:HD3	1.76	0.67
7:7:115:PHE:HA	7:7:259:GLY:HA3	1.77	0.67
12:E:142:LEU:O	12:E:158:ALA:N	2.27	0.67
13:F:54:ASP:O	13:F:57:SER:OG	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G:16:SER:O	14:G:19:GLY:N	2.25	0.67
16:I:248:VAL:O	16:I:252:LEU:CG	2.43	0.67
17:J:210:PHE:HA	17:J:244:ILE:O	1.95	0.67
18:K:103:ILE:H	18:K:108:GLY:HA2	1.59	0.67
19:L:147:THR:O	19:L:156:MET:N	2.28	0.67
18:K:245:LYS:HE3	19:L:300:GLU:OE2	1.95	0.67
21:N:69:TYR:HB3	21:N:74:GLU:HB2	1.77	0.67
21:N:70:TYR:HA	21:N:75:TYR:HE1	1.60	0.67
22:O:30:GLU:O	22:O:34:GLU:N	2.24	0.67
23:P:325:ASP:H	23:P:337:HIS:HE1	1.41	0.67
25:R:192:GLU:O	25:R:196:SER:N	2.28	0.67
25:R:207:ARG:C	25:R:211:LYS:HZ3	1.98	0.67
26:S:411:LEU:C	26:S:414:ASP:H	1.98	0.67
17:J:43:ARG:HE	26:S:480:ARG:HB2	1.60	0.67
28:U:165:GLU:HA	28:U:168:GLU:HB3	1.77	0.67
1:1:133:LEU:HB3	1:1:137:GLY:HA2	1.77	0.67
2:2:228:PHE:O	2:2:245:LEU:N	2.28	0.67
3:3:40:THR:HG22	3:3:45:ILE:HG12	1.75	0.67
7:7:134:LEU:HD22	7:7:158:LEU:HB2	1.77	0.67
3:3:138:VAL:N	2:9:94:GLN:HE22	1.92	0.67
8:A:92:ASN:HB2	14:G:121:GLN:OE1	1.93	0.67
15:H:144:LYS:NZ	15:H:155:PHE:HE2	1.90	0.67
16:I:141:LEU:HD11	16:I:159:VAL:HA	1.76	0.67
19:L:284:ASP:HB3	20:M:293:SER:HA	1.75	0.67
21:N:921:ARG:HA	21:N:925:ASP:HB3	1.76	0.67
22:O:140:LYS:CA	22:O:181:PHE:CE1	2.69	0.67
23:P:133:GLU:HB2	23:P:136:ARG:HH21	1.59	0.67
24:Q:145:HIS:O	24:Q:150:GLN:N	2.26	0.67
29:V:258:GLU:HG3	29:V:259:LYS:H	1.58	0.67
30:W:126:ILE:O	30:W:130:LYS:N	2.22	0.67
33:Z:272:TYR:O	33:Z:276:ASN:N	2.28	0.67
2:2:135:GLN:HB3	2:2:139:LYS:HZ3	1.58	0.67
2:9:164:ASN:OD1	2:9:167:GLY:N	2.28	0.67
2:9:230:LEU:HD22	2:9:242:LYS:HD2	1.77	0.67
8:A:167:LYS:N	9:B:55:LEU:O	2.26	0.67
12:E:123:PHE:HA	12:E:134:MET:HB3	1.77	0.67
12:E:36:THR:OG1	12:E:175:GLY:N	2.28	0.67
15:H:403:ARG:H	15:H:406:LEU:HD12	1.59	0.67
16:I:106:ILE:HG12	16:I:160:LEU:HD21	1.75	0.67
17:J:43:ARG:NH2	26:S:477:VAL:O	2.27	0.67
18:K:128:ARG:HG3	18:K:129:GLU:HG3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:74:LEU:O	19:L:78:ARG:N	2.25	0.67
21:N:463:TYR:HD1	21:N:485:MET:HB3	1.60	0.67
21:N:732:GLY:HA2	21:N:748:PHE:HB3	1.76	0.67
23:P:133:GLU:HG3	23:P:137:ALA:HB2	1.76	0.67
24:Q:358:GLU:HG2	24:Q:360:SER:H	1.58	0.67
24:Q:42:ALA:HB2	24:Q:47:ASP:OD2	1.94	0.67
26:S:152:LEU:HB2	26:S:187:ILE:HG23	1.77	0.67
26:S:276:LEU:HA	26:S:279:ILE:HG12	1.75	0.67
28:U:102:SER:HA	28:U:105:LYS:NZ	2.10	0.67
28:U:52:PHE:HE2	28:U:80:CYS:HG	1.43	0.67
29:V:23:THR:OG1	29:V:164:LEU:N	2.25	0.67
30:W:38:GLN:HG3	30:W:42:ASN:HD21	1.59	0.67
3:3:20:THR:HA	3:3:188:SER:CA	2.24	0.67
3:3:27:PHE:N	3:3:30:GLY:O	2.17	0.67
3:3:47:ASN:OD1	3:3:49:VAL:N	2.28	0.67
5:5:17:GLY:HA3	5:5:163:LEU:HD22	1.77	0.67
1:8:40:ALA:N	1:8:226:VAL:O	2.23	0.67
2:9:254:PHE:HA	2:9:256:LYS:NZ	2.09	0.67
2:9:76:ILE:O	2:9:84:VAL:N	2.25	0.67
8:A:154:ILE:HD12	8:A:168:ALA:HA	1.77	0.67
10:C:34:THR:HA	10:C:166:GLY:HA3	1.76	0.67
11:D:33:ALA:N	11:D:164:ILE:O	2.22	0.67
14:G:52:LYS:NZ	14:G:62:GLN:HA	2.10	0.67
15:H:193:PRO:HG3	15:H:286:GLU:OE2	1.95	0.67
15:H:337:ILE:HD13	15:H:364:ALA:HB3	1.77	0.67
15:H:364:ALA:O	15:H:367:ARG:NE	2.26	0.67
18:K:158:ILE:HG12	18:K:253:MET:HB2	1.76	0.67
19:L:105:ILE:HD11	20:M:128:PHE:HB2	1.76	0.67
21:N:650:ASP:OD2	21:N:692:GLU:N	2.23	0.67
22:O:15:ARG:NH2	30:W:145:GLY:N	2.39	0.67
25:R:335:ARG:NH1	25:R:376:GLN:HB2	2.09	0.67
25:R:87:SER:OG	25:R:89:ASN:O	2.13	0.67
26:S:153:GLU:HA	26:S:156:VAL:CG2	2.24	0.67
26:S:27:GLU:O	26:S:31:VAL:N	2.17	0.67
30:W:165:GLN:O	30:W:169:SER:N	2.28	0.67
30:W:54:GLY:HA2	30:W:86:HIS:HB2	1.74	0.67
31:X:35:ILE:HG23	31:X:48:PHE:CE1	2.30	0.67
31:X:93:SER:HA	31:X:96:ARG:HE	1.59	0.67
33:Z:114:SER:O	33:Z:118:VAL:N	2.27	0.67
33:Z:319:THR:OG1	33:Z:875:LYS:N	2.26	0.67
4:4:242:LEU:N	5:5:199:TYR:O	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:158:LEU:HD13	6:6:198:GLN:HE22	1.60	0.67
6:6:70:ARG:HA	11:D:90:ARG:HH11	1.60	0.67
9:B:224:TYR:HE1	9:B:227:ILE:HB	1.60	0.67
10:C:195:LYS:O	10:C:199:LYS:N	2.20	0.67
10:C:24:TYR:HA	10:C:27:GLU:HB3	1.76	0.67
14:G:171:SER:HB2	14:G:203:ALA:HA	1.77	0.67
16:I:111:GLU:HA	16:I:143:PRO:HB3	1.76	0.67
17:J:164:ILE:CG1	17:J:185:VAL:HG21	2.23	0.67
20:M:83:VAL:HG23	20:M:84:GLU:H	1.60	0.67
21:N:504:TYR:HA	21:N:507:GLU:HB3	1.77	0.67
22:O:16:MET:HB3	22:O:19:ASP:OD2	1.95	0.67
22:O:312:ASP:O	22:O:316:ALA:N	2.28	0.67
22:O:338:LYS:NZ	22:O:353:VAL:HB	2.09	0.67
23:P:181:LEU:HD11	23:P:219:GLU:HB3	1.77	0.67
23:P:187:SER:HB3	23:P:192:ASP:O	1.95	0.67
23:P:207:THR:O	23:P:210:ASN:HB2	1.95	0.67
24:Q:259:CYS:HA	24:Q:262:LEU:HB3	1.77	0.67
24:Q:7:LYS:NZ	24:Q:33:LYS:HB2	2.07	0.67
26:S:486:LYS:HZ1	28:U:298:ASN:CB	1.87	0.67
33:Z:770:GLU:O	33:Z:774:ARG:N	2.18	0.67
33:Z:917:ASN:HB2	33:Z:925:VAL:HB	1.77	0.67
1:1:113:GLN:HB2	1:1:150:TYR:HE2	1.59	0.66
2:2:230:LEU:HD22	2:2:242:LYS:HD2	1.77	0.66
4:4:230:LYS:HZ3	4:4:232:TYR:HA	1.58	0.66
1:8:133:LEU:HB3	1:8:137:GLY:HA2	1.77	0.66
9:B:160:LYS:NZ	10:C:55:THR:O	2.22	0.66
10:C:156:ASN:ND2	11:D:79:ASN:OD1	2.28	0.66
13:F:14:SER:H	13:F:18:ARG:H	1.43	0.66
13:F:197:ILE:O	13:F:201:LEU:N	2.28	0.66
15:H:164:SER:HB2	15:H:168:ILE:HA	1.78	0.66
16:I:100:ARG:HE	16:I:157:VAL:HG11	1.60	0.66
16:I:283:GLU:N	16:I:327:ALA:O	2.27	0.66
17:J:285:SER:HB3	17:J:288:ILE:HD12	1.76	0.66
19:L:145:ARG:NH2	19:L:162:GLU:O	2.28	0.66
20:M:129:LEU:HD21	20:M:155:ILE:HG13	1.76	0.66
21:N:178:SER:HB2	21:N:181:GLU:HB2	1.77	0.66
21:N:619:CYS:SG	21:N:652:VAL:HG22	2.35	0.66
21:N:779:GLU:HB3	21:N:782:PHE:CD2	2.29	0.66
22:O:342:ASP:N	22:O:347:LEU:O	2.26	0.66
22:O:45:LEU:HD23	22:O:48:PHE:HD2	1.60	0.66
23:P:123:ARG:O	23:P:127:GLU:N	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:104:PHE:CB	24:Q:114:GLN:HE22	2.08	0.66
24:Q:220:LEU:HD13	24:Q:261:VAL:HG22	1.75	0.66
25:R:410:LEU:O	25:R:414:LEU:N	2.25	0.66
29:V:264:GLU:OE1	29:V:280:LEU:CD2	2.43	0.66
33:Z:161:ILE:HA	33:Z:164:VAL:HB	1.77	0.66
4:4:30:THR:HG23	4:4:62:LYS:NZ	2.09	0.66
6:6:143:LEU:HD13	6:6:163:LEU:HG	1.77	0.66
6:6:21:VAL:N	6:6:29:LYS:O	2.28	0.66
1:8:29:GLY:C	1:8:74:ASN:HD21	1.94	0.66
3:3:133:PRO:HB3	2:9:68:ARG:HH12	1.60	0.66
8:A:181:ASN:HB2	8:A:213:ALA:HB2	1.77	0.66
9:B:94:HIS:O	9:B:99:ARG:N	2.25	0.66
11:D:193:LYS:HZ3	11:D:239:GLU:CD	1.91	0.66
12:E:243:LEU:HD13	12:E:247:GLU:OE2	3.77	0.66
13:F:202:ARG:NH2	20:M:420:SER:HA	175.27	0.66
14:G:12:ASN:HB3	14:G:127:ASN:HA	1.75	0.66
13:F:176:LEU:HD13	14:G:58:LEU:HD23	2.02	0.66
16:I:220:ILE:N	16:I:346:ARG:O	2.29	0.66
17:J:273:LEU:HB3	17:J:309:ARG:CZ	2.24	0.66
18:K:188:VAL:HA	18:K:313:LYS:NZ	2.10	0.66
21:N:464:GLU:O	21:N:467:LYS:N	2.28	0.66
21:N:510:HIS:HB2	21:N:513:ILE:HB	1.78	0.66
21:N:612:SER:H	21:N:618:ARG:NE	1.93	0.66
22:O:1:MET:HB2	22:O:39:PHE:HE2	1.60	0.66
22:O:352:TRP:CG	22:O:353:VAL:N	2.59	0.66
22:O:41:LEU:HD11	22:O:81:TYR:HB3	1.77	0.66
23:P:160:LEU:HD11	23:P:179:PHE:HB3	1.78	0.66
23:P:186:LEU:O	23:P:190:LYS:N	2.19	0.66
23:P:420:ASP:HA	23:P:423:LEU:HB2	1.76	0.66
24:Q:226:HIS:HA	24:Q:229:ASP:OD1	1.95	0.66
24:Q:408:THR:O	24:Q:412:ALA:N	2.29	0.66
25:R:331:ARG:HB3	25:R:371:PHE:CZ	2.30	0.66
26:S:150:LYS:HG3	26:S:151:GLU:H	1.60	0.66
26:S:24:LYS:O	26:S:26:ALA:C	2.33	0.66
28:U:269:THR:O	28:U:273:LEU:HG	1.96	0.66
30:W:37:PHE:CE1	30:W:67:ALA:O	2.48	0.66
31:X:68:LEU:HD21	31:X:73:THR:HG21	1.77	0.66
33:Z:323:TYR:HB2	33:Z:501:LYS:HG2	1.77	0.66
33:Z:518:LEU:HD13	33:Z:524:ALA:HB3	1.76	0.66
33:Z:513:ALA:HA	33:Z:523:ALA:HB1	1.77	0.66
1:1:23:PRO:HB3	2:2:140:MET:SD	2.36	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:254:PHE:HA	2:2:256:LYS:NZ	2.10	0.66
3:3:92:PRO:HB2	3:3:96:THR:HB	1.78	0.66
6:6:41:HIS:NE2	6:6:186:LYS:O	2.28	0.66
7:7:93:SER:O	7:7:106:VAL:N	2.28	0.66
11:D:194:LEU:HD13	11:D:197:ARG:NH1	2.11	0.66
12:E:16:SER:HG	12:E:18:GLU:HB2	1.60	0.66
12:E:201:LEU:CD2	12:E:243:LEU:HD22	2.25	0.66
13:F:107:ARG:HA	13:F:110:HIS:CD2	2.27	0.66
13:F:7:ASP:OD1	13:F:8:GLY:N	2.28	0.66
18:K:253:MET:HA	18:K:256:ASP:HB2	1.78	0.66
19:L:173:PHE:O	19:L:243:PHE:N	2.27	0.66
20:M:184:GLY:HA3	20:M:359:GLN:HG3	1.76	0.66
21:N:297:ASP:O	21:N:301:THR:N	2.20	0.66
23:P:417:HIS:HA	23:P:420:ASP:CG	2.15	0.66
24:Q:300:LYS:HE2	24:Q:304:GLU:OE2	1.96	0.66
25:R:334:ARG:NH1	25:R:371:PHE:CE2	2.63	0.66
25:R:64:LYS:HA	25:R:94:PHE:CZ	2.30	0.66
26:S:232:MET:HA	26:S:235:ASN:HB2	1.78	0.66
33:Z:119:LEU:O	33:Z:123:ALA:N	2.28	0.66
5:5:75:LYS:HA	5:5:78:GLU:HB2	1.78	0.66
2:9:228:PHE:O	2:9:245:LEU:N	2.28	0.66
13:F:39:ARG:HA	13:F:44:ALA:HA	1.78	0.66
14:G:201:TYR:HB3	14:G:247:ILE:HD12	1.78	0.66
15:H:247:LEU:HD23	15:H:374:LYS:HE3	1.77	0.66
16:I:310:LEU:HA	16:I:313:LEU:HB3	1.77	0.66
18:K:85:GLU:OE1	18:K:88:ARG:NE	2.28	0.66
22:O:197:SER:HA	22:O:200:GLU:HB2	1.77	0.66
23:P:39:LEU:HG	23:P:43:GLU:HB2	1.78	0.66
27:T:155:GLY:HA2	27:T:157:TYR:CZ	2.31	0.66
30:W:12:ASN:H	30:W:55:ALA:CB	2.07	0.66
33:Z:440:LEU:O	33:Z:448:LYS:HA	1.94	0.66
33:Z:972:SER:HB3	33:Z:981:VAL:HG13	1.78	0.66
2:2:102:ASP:O	2:2:106:GLU:N	2.21	0.66
2:2:164:ASN:OD1	2:2:167:GLY:N	2.28	0.66
2:2:48:LYS:HA	2:2:53:VAL:HA	1.78	0.66
3:3:118:VAL:O	3:3:130:TYR:N	2.28	0.66
5:5:54:THR:OG1	5:5:139:SER:OG	2.10	0.66
1:8:119:LYS:O	1:8:122:PHE:N	2.27	0.66
8:A:122:ALA:O	9:B:83:ARG:NH2	2.28	0.66
9:B:174:PHE:HE1	9:B:178:ARG:HH21	1.43	0.66
15:H:258:LEU:O	15:H:262:ALA:N	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:252:SER:HB3	17:J:257:ARG:HH12	1.60	0.66
17:J:34:ILE:HA	17:J:37:LYS:HD2	1.77	0.66
17:J:341:ILE:HA	17:J:379:GLN:HB2	1.77	0.66
18:K:374:ARG:HB3	18:K:411:TYR:CZ	2.30	0.66
20:M:221:TYR:O	20:M:349:PHE:N	2.28	0.66
20:M:371:ASP:N	20:M:409:SER:HB2	2.11	0.66
21:N:36:TRP:HB2	21:N:68:VAL:HG22	1.77	0.66
22:O:15:ARG:NH2	30:W:145:GLY:C	2.49	0.66
24:Q:90:LYS:HE3	24:Q:130:ARG:HD3	1.77	0.66
24:Q:98:LYS:NZ	24:Q:140:LYS:HZ1	1.92	0.66
26:S:293:ILE:HG22	26:S:297:ILE:CD1	2.21	0.66
27:T:148:LEU:O	27:T:152:LEU:N	2.20	0.66
28:U:37:ILE:HG12	28:U:91:GLY:C	2.16	0.66
31:X:38:ASN:OD1	31:X:39:GLU:N	2.27	0.66
33:Z:183:LYS:O	33:Z:270:SER:OG	2.14	0.66
33:Z:386:VAL:HA	33:Z:389:PHE:HB2	1.77	0.66
3:3:55:ARG:NH2	3:3:58:ASP:OD1	2.29	0.66
5:5:70:LYS:HD3	5:5:90:LEU:HD11	1.76	0.66
8:A:30:TYR:CE1	14:G:17:PRO:HA	2.31	0.66
11:D:70:HIS:HE1	11:D:103:PRO:HB2	1.61	0.66
11:D:107:GLU:O	11:D:111:ARG:N	2.27	0.66
12:E:62:ASP:OD1	12:E:63:SER:N	2.28	0.66
15:H:182:ASN:HB3	15:H:185:LEU:HD11	1.77	0.66
17:J:211:ILE:HD12	17:J:245:ILE:HG12	1.78	0.66
17:J:139:VAL:HG13	17:J:211:ILE:HG12	1.77	0.66
18:K:216:GLY:N	18:K:220:THR:OG1	2.29	0.66
19:L:269:TYR:O	19:L:273:HIS:N	2.23	0.66
19:L:411:ASN:HB2	19:L:412:PRO:HD2	1.77	0.66
20:M:361:LEU:O	20:M:365:SER:N	2.23	0.66
21:N:111:GLN:O	21:N:115:LYS:N	2.21	0.66
21:N:124:TYR:HD2	21:N:162:ARG:NH1	1.94	0.66
21:N:445:GLY:HA2	21:N:448:LEU:HD12	1.76	0.66
21:N:685:VAL:HG22	21:N:691:GLN:HG3	1.78	0.66
21:N:8:PRO:O	21:N:11:ALA:HB3	1.96	0.66
22:O:151:ASP:O	22:O:155:LYS:N	2.22	0.66
23:P:358:SER:O	23:P:402:PHE:N	2.20	0.66
25:R:141:TYR:HB2	25:R:150:ALA:HB2	1.75	0.66
25:R:372:ILE:CA	26:S:395:ILE:HG22	2.25	0.66
26:S:266:SER:O	26:S:270:ALA:N	2.24	0.66
26:S:266:SER:HA	26:S:269:GLU:HB2	1.78	0.66
28:U:73:ILE:HA	28:U:76:MET:HB3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:303:ASP:HB3	33:Z:306:MET:HB3	1.78	0.66
33:Z:780:MET:O	33:Z:784:SER:N	2.23	0.66
4:4:69:LYS:HB3	4:4:132:VAL:HG23	1.76	0.66
6:6:153:THR:OG1	6:6:156:GLU:HG3	1.96	0.66
6:6:49:GLU:HB3	6:6:52:ASP:HB2	1.76	0.66
9:B:114:VAL:HA	9:B:117:ILE:HD12	1.78	0.66
13:F:69:HIS:HB2	13:F:137:TYR:O	1.96	0.66
15:H:204:PRO:O	15:H:265:ASN:ND2	2.28	0.66
15:H:241:ASP:HB3	15:H:242:PRO:HD2	1.78	0.66
15:H:382:LEU:HD23	15:H:385:ARG:HH22	1.60	0.66
19:L:270:ALA:O	19:L:274:GLU:N	2.29	0.66
19:L:278:ILE:O	19:L:324:ILE:N	2.20	0.66
19:L:308:LEU:O	19:L:312:MET:N	2.29	0.66
21:N:322:ASP:OD2	21:N:358:LYS:NZ	2.24	0.66
21:N:573:HIS:HA	21:N:576:VAL:HB	1.77	0.66
23:P:204:LEU:HG	23:P:217:LYS:HZ2	1.59	0.66
23:P:206:LYS:HA	23:P:209:LYS:HB2	1.77	0.66
23:P:224:LEU:HA	23:P:227:ILE:HD12	1.76	0.66
24:Q:230:LYS:HG3	24:Q:232:TYR:CZ	2.31	0.66
24:Q:7:LYS:HE3	24:Q:50:ARG:HH21	1.60	0.66
25:R:23:ASN:HD21	25:R:142:ALA:HB1	1.60	0.66
25:R:155:GLY:O	25:R:159:SER:N	2.25	0.66
25:R:378:ASN:HB3	25:R:391:ASN:N	2.09	0.66
26:S:236:LEU:O	26:S:240:ASP:N	2.24	0.66
26:S:354:LEU:HD12	26:S:359:LYS:HE2	1.77	0.66
26:S:360:PHE:HZ	26:S:380:CYS:HB3	1.60	0.66
26:S:385:SER:HA	26:S:388:ILE:HD12	1.77	0.66
27:T:180:ILE:O	27:T:183:SER:OG	2.14	0.66
27:T:188:GLU:HA	27:T:191:LYS:NZ	2.11	0.66
29:V:92:MET:O	29:V:96:LYS:N	2.13	0.66
30:W:17:ARG:HB3	30:W:82:GLU:HA	1.78	0.66
33:Z:386:VAL:HG22	33:Z:853:GLY:HA3	1.78	0.66
2:2:42:THR:HG22	2:2:74:ARG:NE	2.11	0.66
5:5:160:PRO:O	5:5:164:PHE:N	2.24	0.66
5:5:190:ILE:HA	5:5:195:VAL:HG22	1.75	0.66
10:C:152:ASN:HD21	10:C:156:ASN:HB3	1.61	0.66
10:C:238:ILE:HD12	10:C:241:LYS:HB2	1.78	0.66
14:G:88:LEU:HA	14:G:91:ARG:HB3	1.77	0.66
15:H:275:ILE:HD12	15:H:278:GLU:OE2	1.96	0.66
15:H:55:ASP:O	15:H:59:ILE:N	2.28	0.66
18:K:100:LEU:HD12	18:K:109:ILE:HG12	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:363:ILE:HG23	19:L:367:LYS:NZ	2.11	0.66
21:N:459:ASN:HB3	21:N:462:VAL:HG23	1.78	0.66
21:N:53:ASP:HA	21:N:58:ARG:CZ	2.25	0.66
21:N:740:TRP:HB2	29:V:24:LYS:NZ	2.10	0.66
22:O:169:ASN:HA	22:O:195:TYR:HE1	1.60	0.66
22:O:91:ASP:H	22:O:94:GLU:CD	1.99	0.66
23:P:168:TYR:C	23:P:170:SER:H	1.98	0.66
23:P:292:LYS:HG3	23:P:295:SER:H	1.60	0.66
18:K:347:ARG:N	24:Q:241:GLU:OE1	2.27	0.66
24:Q:391:ASP:OD2	24:Q:396:TRP:HB2	1.96	0.66
26:S:360:PHE:CE2	26:S:384:ARG:HG2	2.31	0.66
29:V:111:HIS:HB3	29:V:114:PHE:HD2	1.60	0.66
29:V:116:CYS:SG	29:V:117:TRP:N	2.68	0.66
29:V:111:HIS:N	29:V:141:VAL:O	2.20	0.66
31:X:34:GLU:O	31:X:49:GLU:N	2.21	0.66
1:1:48:ASN:O	1:1:55:ASN:N	2.29	0.66
4:4:176:THR:N	4:4:179:GLU:OE1	2.21	0.66
5:5:16:THR:HG22	5:5:21:VAL:HG12	1.78	0.66
6:6:51:GLY:HA3	7:7:166:LYS:HZ2	1.61	0.66
2:9:48:LYS:HA	2:9:53:VAL:HA	1.78	0.66
9:B:19:GLY:O	9:B:23:TYR:N	2.27	0.66
11:D:199:LEU:HD13	11:D:210:ILE:HG23	1.78	0.66
12:E:240:ILE:HA	12:E:243:LEU:CD1	2.25	0.66
13:F:11:VAL:HG21	14:G:128:SER:CA	2.26	0.66
1:1:89:ASN:ND2	13:F:93:ASN:HD21	88.21	0.66
15:H:319:PHE:HD1	20:M:249:PRO:HA	1.59	0.66
15:H:66:LYS:HA	15:H:69:VAL:HB	1.77	0.66
18:K:326:PRO:HA	18:K:329:LEU:HB2	1.77	0.66
19:L:221:TYR:HE2	19:L:346:LYS:HG2	1.61	0.66
21:N:90:ASP:N	21:N:93:GLU:OE1	2.28	0.66
23:P:107:SER:HB2	23:P:111:ASP:HB3	1.75	0.66
23:P:422:LEU:HD23	23:P:425:HIS:HB3	1.77	0.66
24:Q:109:ASP:OD2	24:Q:113:ASP:HB2	1.94	0.66
24:Q:20:TYR:CE1	24:Q:68:MET:HB2	2.31	0.66
25:R:219:LEU:HB2	25:R:223:ASN:ND2	2.11	0.66
17:J:43:ARG:CZ	26:S:476:LEU:O	2.44	0.66
27:T:74:ASN:OD1	27:T:75:PHE:N	2.29	0.66
26:S:453:ASP:HA	28:U:267:VAL:HG13	1.77	0.66
33:Z:319:THR:HG21	33:Z:875:LYS:HB2	1.77	0.66
33:Z:509:LEU:HD13	33:Z:526:ALA:HB1	1.77	0.66
3:3:22:ILE:O	3:3:146:ALA:N	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:125:ASP:OD1	5:5:128:GLY:N	2.29	0.66
4:4:236:ARG:CZ	5:5:161:GLU:HB2	2.26	0.66
5:5:58:THR:OG1	6:6:123:GLY:O	2.10	0.66
8:A:143:PHE:N	8:A:155:TYR:O	2.27	0.66
13:F:117:GLN:O	13:F:120:THR:OG1	2.09	0.66
16:I:217:LYS:HE2	16:I:343:ARG:HB3	1.78	0.66
16:I:265:ARG:O	16:I:269:LYS:N	2.28	0.66
22:O:2:PHE:HA	22:O:5:HIS:HD2	1.59	0.66
22:O:8:ASP:OD2	22:O:58:ARG:NH1	2.28	0.66
23:P:178:GLN:O	23:P:181:LEU:HB3	1.96	0.66
24:Q:121:SER:HA	24:Q:124:PHE:HB2	1.78	0.66
24:Q:28:LEU:O	24:Q:32:ASP:N	2.29	0.66
24:Q:79:PRO:HG3	24:Q:124:PHE:HE2	1.60	0.66
25:R:172:LEU:HG	25:R:209:ARG:NH1	2.11	0.66
25:R:296:LEU:O	25:R:299:SER:N	2.27	0.66
28:U:232:VAL:HG13	28:U:235:LEU:HD12	1.78	0.66
33:Z:405:ASN:HA	33:Z:408:TYR:HB2	1.78	0.66
1:1:127:HIS:ND1	1:1:144:PHE:O	2.28	0.65
3:3:21:SER:OG	3:3:149:GLY:N	2.29	0.65
5:5:125:ASP:OD1	5:5:129:CYS:N	2.28	0.65
6:6:99:GLN:HG2	6:6:121:TYR:CD2	2.31	0.65
2:9:230:LEU:O	2:9:242:LYS:N	2.30	0.65
8:A:200:GLU:OE1	8:A:200:GLU:N	2.21	0.65
11:D:13:PRO:HA	12:E:26:TYR:CE1	2.29	0.65
13:F:13:PHE:N	14:G:23:GLN:HE22	1.94	0.65
12:E:14:THR:HG23	13:F:21:GLN:HE22	1.61	0.65
14:G:151:LEU:HD13	14:G:157:TYR:HD1	1.61	0.65
16:I:148:LEU:HG	16:I:160:LEU:HB2	1.78	0.65
18:K:128:ARG:NH2	29:V:267:LYS:NZ	2.44	0.65
19:L:171:THR:HB	19:L:245:PHE:HB3	1.78	0.65
20:M:187:ASP:HA	20:M:190:ILE:HB	1.76	0.65
20:M:244:LEU:O	20:M:279:PHE:N	2.22	0.65
22:O:168:THR:O	22:O:172:TYR:N	2.25	0.65
22:O:320:PRO:HD2	22:O:323:ASN:HD22	1.60	0.65
25:R:110:ILE:O	25:R:113:LEU:HG	1.96	0.65
28:U:276:ILE:CB	29:V:291:ASN:ND2	2.59	0.65
28:U:7:LYS:NZ	28:U:158:PRO:HB2	2.11	0.65
30:W:149:GLN:O	30:W:154:LEU:HD12	1.95	0.65
30:W:21:PHE:CZ	30:W:28:ALA:HB1	2.31	0.65
31:X:109:LEU:HB2	31:X:118:ASP:OD2	1.96	0.65
3:3:39:THR:O	3:3:46:ALA:N	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:74:TYR:CZ	5:5:78:GLU:HG3	2.31	0.65
8:A:26:TYR:HB3	8:A:30:TYR:CZ	2.31	0.65
15:H:244:LYS:HB3	15:H:346:ARG:NE	2.10	0.65
16:I:192:GLN:HA	16:I:195:LYS:HB3	1.76	0.65
16:I:254:GLN:HE21	16:I:256:TYR:H	1.43	0.65
17:J:275:LEU:O	17:J:279:LEU:N	2.26	0.65
19:L:221:TYR:HA	19:L:327:THR:O	1.96	0.65
21:N:630:ALA:HA	21:N:663:ILE:HA	1.78	0.65
23:P:114:THR:O	23:P:118:VAL:HG23	1.96	0.65
23:P:286:ASN:OD1	23:P:287:ASP:N	2.29	0.65
24:Q:20:TYR:HB3	24:Q:64:LEU:HD13	1.77	0.65
25:R:109:LYS:HA	25:R:112:GLU:OE1	1.96	0.65
25:R:153:THR:O	25:R:157:SER:N	2.28	0.65
24:Q:416:VAL:HG11	25:R:406:GLN:HB3	1.77	0.65
27:T:61:ILE:HA	27:T:64:VAL:HB	1.77	0.65
29:V:247:ILE:O	29:V:251:TYR:N	2.19	0.65
29:V:278:LYS:HZ1	29:V:279:HIS:CE1	2.13	0.65
33:Z:342:LEU:N	33:Z:345:GLU:HB2	2.11	0.65
1:1:212:GLU:HG3	4:4:225:ARG:HD2	1.79	0.65
3:3:203:GLU:OE2	3:3:205:LEU:HD21	1.96	0.65
5:5:135:ASP:OD1	5:5:136:PHE:N	2.27	0.65
6:6:15:LEU:HD11	6:6:105:GLY:HA3	1.76	0.65
6:6:82:SER:CA	6:6:125:LYS:HZ3	2.10	0.65
2:9:124:TYR:HA	13:F:99:PHE:O	1.96	0.65
10:C:187:ASP:HA	10:C:190:ILE:HD12	1.78	0.65
2:2:110:ASP:HB3	13:F:110:HIS:CE1	107.96	0.65
13:F:46:LEU:N	13:F:214:ALA:O	2.25	0.65
17:J:238:ARG:HG2	17:J:288:ILE:HD13	1.79	0.65
17:J:53:ASP:N	21:N:611:LYS:NZ	2.44	0.65
18:K:251:PRO:HA	18:K:254:VAL:HB	1.78	0.65
18:K:251:PRO:HG2	18:K:294:ARG:HB3	1.78	0.65
18:K:273:GLU:H	18:K:317:ALA:HB3	1.59	0.65
18:K:342:SER:HB2	18:K:344:ARG:NH1	2.11	0.65
21:N:444:HIS:O	21:N:448:LEU:N	2.29	0.65
22:O:133:ILE:O	22:O:136:THR:OG1	2.11	0.65
22:O:239:MET:O	22:O:242:ILE:N	2.29	0.65
23:P:113:ASN:O	23:P:117:SER:N	2.28	0.65
23:P:177:ILE:HB	23:P:203:ILE:HD11	1.79	0.65
23:P:410:GLN:O	23:P:413:ASN:N	2.29	0.65
24:Q:76:GLU:HA	24:Q:120:LYS:HZ1	1.61	0.65
25:R:76:GLN:HB3	25:R:84:LYS:HB3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:160:ASP:OD2	29:V:184:ASN:HA	1.95	0.65
29:V:244:MET:O	29:V:247:ILE:HG12	1.96	0.65
1:1:205:ASP:OD2	4:4:232:TYR:OH	2.10	0.65
1:1:179:TYR:N	4:4:238:THR:O	2.24	0.65
5:5:34:LEU:HD22	6:6:138:PHE:HE1	1.62	0.65
7:7:220:LYS:H	7:7:223:LEU:HD13	1.60	0.65
1:8:127:HIS:ND1	1:8:144:PHE:O	2.28	0.65
10:C:91:ALA:HB2	10:C:115:LEU:HD11	1.79	0.65
10:C:20:TYR:HB3	10:C:24:TYR:CZ	2.32	0.65
11:D:139:ASP:HB2	11:D:142:ASP:HB3	1.77	0.65
15:H:101:ARG:N	15:H:173:ARG:HD2	2.09	0.65
15:H:307:PHE:CZ	15:H:354:ALA:HB2	2.32	0.65
16:I:280:PHE:HE2	16:I:282:ASP:HB2	1.62	0.65
17:J:67:GLU:OE2	18:K:144:ASN:HB3	1.96	0.65
18:K:341:PRO:C	18:K:344:ARG:HH12	1.99	0.65
20:M:74:GLN:NE2	20:M:77:TYR:HA	2.12	0.65
21:N:176:GLN:HG2	21:N:218:PRO:HB2	1.77	0.65
22:O:327:LEU:HA	22:O:330:ARG:HH11	1.62	0.65
24:Q:417:GLY:C	24:Q:421:LYS:NZ	2.45	0.65
26:S:434:ALA:HA	26:S:446:THR:HG23	1.79	0.65
27:T:104:LYS:HZ2	27:T:169:GLN:CD	1.97	0.65
27:T:148:LEU:HD11	27:T:164:LEU:HD21	1.79	0.65
27:T:49:ASP:HB3	27:T:53:ASN:HB2	1.77	0.65
29:V:79:SER:OG	29:V:82:ALA:N	2.24	0.65
30:W:114:VAL:HB	30:W:143:ASN:HA	1.78	0.65
30:W:37:PHE:HZ	30:W:68:GLU:N	1.94	0.65
31:X:23:LEU:HD22	31:X:25:THR:HG23	1.78	0.65
33:Z:208:VAL:HG11	33:Z:235:GLN:HB3	1.76	0.65
33:Z:478:VAL:HA	33:Z:489:ALA:HB1	1.77	0.65
2:2:136:ARG:NH2	2:2:141:ASN:OD1	2.28	0.65
2:2:264:GLN:NE2	2:2:266:ILE:O	2.28	0.65
1:8:48:ASN:O	1:8:55:ASN:N	2.29	0.65
8:A:94:ALA:O	8:A:98:LYS:N	2.26	0.65
9:B:215:GLY:N	9:B:234:ARG:O	2.28	0.65
10:C:147:GLN:HB3	10:C:149:TYR:CE1	2.32	0.65
16:I:186:GLY:N	16:I:360:LYS:HD3	2.11	0.65
17:J:85:LEU:HD12	17:J:95:ILE:HD12	1.77	0.65
19:L:132:ARG:HG2	19:L:133:ASN:HD22	1.62	0.65
21:N:760:GLY:HA3	21:N:769:PRO:O	1.97	0.65
22:O:156:THR:O	22:O:160:LYS:HD3	1.97	0.65
17:J:39:GLU:HB3	26:S:480:ARG:NE	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:195:LYS:HD3	29:V:233:LYS:H	1.60	0.65
27:T:257:THR:HG21	29:V:295:VAL:HG11	1.79	0.65
29:V:37:MET:HB3	29:V:108:TYR:CZ	2.31	0.65
30:W:4:GLU:HB2	30:W:107:HIS:O	1.96	0.65
5:5:149:MET:HE2	5:5:170:ALA:HA	1.78	0.65
8:A:55:SER:N	8:A:224:GLU:O	2.28	0.65
8:A:89:ASP:HA	14:G:121:GLN:HE22	1.62	0.65
10:C:38:ILE:HG12	10:C:162:ALA:HB1	1.78	0.65
14:G:193:VAL:HG12	14:G:239:ALA:HB2	1.79	0.65
15:H:191:ILE:HG13	15:H:192:ASP:HB3	1.79	0.65
16:I:220:ILE:HA	16:I:326:MET:HB2	1.79	0.65
17:J:266:SER:O	17:J:270:ARG:N	2.19	0.65
17:J:219:VAL:HG11	17:J:267:GLU:HG2	1.77	0.65
18:K:278:ALA:HB1	18:K:324:LEU:HA	1.77	0.65
20:M:276:THR:N	20:M:320:ARG:O	2.21	0.65
20:M:228:LYS:HZ1	20:M:327:THR:H	1.45	0.65
20:M:362:GLN:O	20:M:366:ARG:N	2.30	0.65
21:N:90:ASP:HB3	21:N:93:GLU:HG3	1.78	0.65
22:O:14:LEU:O	22:O:15:ARG:HB2	1.96	0.65
22:O:29:PHE:HA	22:O:32:PHE:HB3	1.77	0.65
23:P:141:LYS:O	23:P:145:GLU:N	2.22	0.65
25:R:373:PRO:CD	26:S:395:ILE:HG22	2.27	0.65
26:S:12:SER:HG	26:S:13:SER:H	1.45	0.65
26:S:293:ILE:CG2	26:S:297:ILE:HD12	2.22	0.65
26:S:424:SER:HB3	27:T:192:ASN:HB3	1.78	0.65
27:T:174:PHE:CE1	27:T:177:PHE:HD2	2.15	0.65
27:T:181:LEU:O	27:T:185:ILE:N	2.21	0.65
29:V:47:MET:O	29:V:110:SER:OG	2.15	0.65
33:Z:326:VAL:O	33:Z:330:ILE:N	2.28	0.65
33:Z:488:ALA:HA	33:Z:491:LEU:HB2	1.79	0.65
2:2:253:ASP:C	2:2:256:LYS:HZ2	2.00	0.65
4:4:37:PHE:N	4:4:40:GLY:O	2.30	0.65
4:4:40:GLY:HA2	4:4:137:SER:HB3	1.79	0.65
1:8:62:VAL:HA	1:8:72:SER:HB2	1.78	0.65
8:A:73:PHE:O	8:A:81:MET:N	2.27	0.65
14:G:67:ILE:N	14:G:215:GLU:OE2	2.30	0.65
15:H:243:PRO:HB3	15:H:372:ASP:HB2	1.79	0.65
19:L:251:ILE:HG22	19:L:259:SER:HA	1.78	0.65
21:N:497:ALA:O	21:N:501:MET:N	2.22	0.65
22:O:179:PHE:HA	22:O:182:LYS:HD3	1.79	0.65
23:P:266:TYR:O	23:P:270:LEU:HG	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:391:ALA:O	23:P:403:GLU:HB2	1.97	0.65
25:R:174:ILE:HA	25:R:177:LEU:HD12	1.79	0.65
25:R:178:GLY:HA2	25:R:183:ASP:HB2	1.79	0.65
25:R:352:SER:O	25:R:356:ALA:HB3	1.96	0.65
25:R:372:ILE:CG2	26:S:395:ILE:N	2.50	0.65
26:S:257:LEU:HB2	26:S:260:PRO:HD3	1.77	0.65
33:Z:353:VAL:O	33:Z:357:ILE:N	2.30	0.65
3:3:166:SER:N	3:3:169:GLU:OE1	2.28	0.65
3:3:194:MET:HB2	3:3:205:LEU:HB2	1.78	0.65
4:4:236:ARG:HH21	5:5:162:ASP:H	1.43	0.65
6:6:99:GLN:HA	6:6:121:TYR:HB2	1.78	0.65
2:9:42:THR:HG22	2:9:74:ARG:NE	2.12	0.65
1:1:110:ARG:HG3	12:E:102:TYR:O	82.24	0.65
12:E:128:SER:HB3	13:F:119:ASN:HA	1.79	0.65
14:G:222:SER:O	14:G:225:ASN:ND2	2.30	0.65
16:I:132:ILE:H	16:I:138:LYS:HZ2	1.43	0.65
18:K:92:VAL:O	18:K:94:LEU:N	2.28	0.65
19:L:354:GLU:OE1	19:L:357:ARG:NH2	2.27	0.65
20:M:134:LEU:HB2	20:M:156:LEU:O	1.97	0.65
21:N:398:ARG:HH21	21:N:442:LEU:HD22	1.62	0.65
21:N:6:ALA:O	21:N:10:LEU:N	2.23	0.65
22:O:336:LEU:HG	22:O:353:VAL:HG13	1.77	0.65
23:P:173:MET:O	23:P:177:ILE:N	2.23	0.65
23:P:218:LEU:HA	23:P:221:TYR:HB3	1.78	0.65
23:P:381:SER:HA	23:P:384:VAL:HB	1.79	0.65
23:P:42:LEU:HD11	23:P:88:GLN:NE2	2.11	0.65
24:Q:388:GLY:HA2	24:Q:400:TYR:HB3	1.79	0.65
25:R:154:LEU:O	25:R:158:LEU:N	2.19	0.65
25:R:188:LYS:HD3	25:R:217:HIS:HB3	1.78	0.65
25:R:65:TYR:O	25:R:69:GLU:N	2.30	0.65
26:S:24:LYS:O	26:S:26:ALA:N	2.30	0.65
26:S:305:LYS:O	26:S:309:PHE:HB3	1.96	0.65
26:S:338:MET:HB2	26:S:343:LEU:H	1.61	0.65
26:S:342:LEU:O	26:S:345:TYR:N	2.30	0.65
26:S:482:PRO:HB2	26:S:486:LYS:HE3	1.78	0.65
26:S:481:TYR:HB3	28:U:299:LYS:NZ	2.12	0.65
28:U:37:ILE:HG12	28:U:92:TRP:N	2.12	0.65
28:U:56:PHE:CD1	28:U:68:LEU:HB2	2.32	0.65
33:Z:168:GLN:HG3	33:Z:196:SER:HA	1.79	0.65
33:Z:799:PHE:HA	33:Z:802:ASP:HB2	1.77	0.65
1:1:141:VAL:HB	1:1:153:GLU:O	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:220:ARG:NH1	3:3:46:ALA:O	2.29	0.65
5:5:98:ARG:HB3	5:5:102:PRO:HA	1.79	0.65
2:9:226:ARG:NH2	2:9:248:GLU:OE1	2.30	0.65
2:9:92:ASP:OD2	2:9:144:TRP:N	2.21	0.65
8:A:69:VAL:HA	14:G:158:TRP:HZ3	1.60	0.65
11:D:37:LYS:HB2	11:D:145:PRO:HB2	1.79	0.65
11:D:133:THR:OG1	11:D:150:THR:OG1	2.06	0.65
12:E:74:ILE:HG12	12:E:109:VAL:HG22	1.79	0.65
12:E:226:ASP:O	12:E:229:LYS:HE2	1.97	0.65
13:F:48:ALA:N	13:F:212:SER:O	2.20	0.65
17:J:190:PRO:HG2	17:J:319:PRO:N	2.12	0.65
17:J:346:VAL:HG22	17:J:383:GLU:HG3	1.79	0.65
19:L:364:HIS:HB3	19:L:392:ARG:CG	2.27	0.65
19:L:64:LEU:HD23	20:M:5:GLU:OE2	1.97	0.65
20:M:173:ASP:HB3	20:M:243:PHE:HD2	1.62	0.65
20:M:29:GLU:O	20:M:33:ARG:N	2.15	0.65
21:N:253:LEU:HB2	21:N:906:ARG:HH22	1.62	0.65
21:N:512:ASN:OD1	21:N:515:ARG:NH1	2.29	0.65
21:N:880:ARG:NE	21:N:898:GLY:O	2.25	0.65
22:O:41:LEU:HG	22:O:50:ASP:O	1.96	0.65
23:P:183:GLN:O	23:P:187:SER:N	2.24	0.65
23:P:306:ASN:HA	23:P:310:ARG:CZ	2.27	0.65
23:P:42:LEU:HD22	23:P:59:LEU:HD13	1.78	0.65
24:Q:62:GLY:O	24:Q:66:VAL:N	2.25	0.65
26:S:185:PHE:CD1	26:S:188:TYR:HB2	2.31	0.65
26:S:230:LYS:O	26:S:233:LEU:N	2.28	0.65
28:U:267:VAL:HG12	28:U:271:ASP:OD2	1.97	0.65
33:Z:106:TRP:HA	33:Z:112:LYS:HD3	1.79	0.65
33:Z:483:THR:OG1	33:Z:519:PRO:O	2.10	0.65
1:1:225:ILE:O	1:1:232:ARG:N	2.21	0.65
2:2:113:LEU:HB3	2:2:116:ALA:HB3	1.79	0.65
6:6:119:ILE:HG12	6:6:125:LYS:HA	1.78	0.65
10:C:79:GLY:HA3	10:C:133:VAL:HA	1.78	0.65
14:G:138:PHE:CZ	14:G:149:TYR:HB2	2.32	0.65
14:G:33:ASN:HA	14:G:167:LYS:HZ3	1.64	0.65
15:H:104:LYS:H	15:H:144:LYS:HE3	1.62	0.65
17:J:272:MET:O	17:J:276:LEU:N	2.30	0.65
19:L:145:ARG:HG2	19:L:159:LEU:HB2	1.79	0.65
19:L:402:ALA:HA	19:L:407:ARG:HB2	1.79	0.65
15:H:143:ALA:N	20:M:74:GLN:HA	2.12	0.65
21:N:489:MET:HB3	21:N:493:GLY:HA2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:295:THR:HA	22:O:298:GLU:HB3	1.78	0.65
23:P:118:VAL:O	23:P:121:THR:OG1	2.14	0.65
24:Q:109:ASP:HB3	24:Q:114:GLN:HE21	1.62	0.65
24:Q:26:VAL:O	24:Q:30:LEU:N	2.29	0.65
24:Q:276:ASP:O	24:Q:280:ASN:N	2.20	0.65
24:Q:430:ALA:HB1	28:U:296:ILE:CG2	2.27	0.65
25:R:211:LYS:O	25:R:215:GLY:N	2.26	0.65
26:S:455:GLU:O	26:S:459:GLN:HG2	1.97	0.65
26:S:473:ASP:O	26:S:477:VAL:HG23	1.96	0.65
30:W:163:ASN:HB3	30:W:164:PRO:HD3	1.77	0.65
33:Z:524:ALA:HB1	33:Z:565:PHE:CG	2.32	0.65
2:2:230:LEU:O	2:2:242:LYS:N	2.30	0.64
10:C:144:TYR:HB2	10:C:147:GLN:HE21	1.63	0.64
10:C:33:GLY:O	10:C:65:LYS:NZ	2.26	0.64
12:E:243:LEU:O	12:E:247:GLU:HB2	1.96	0.64
8:A:89:ASP:HA	14:G:121:GLN:NE2	2.11	0.64
14:G:37:SER:N	14:G:165:THR:O	2.29	0.64
15:H:69:VAL:O	15:H:72:SER:OG	2.11	0.64
16:I:372:SER:N	16:I:411:VAL:O	2.30	0.64
17:J:252:SER:HB2	17:J:295:ASN:H	1.62	0.64
17:J:156:GLN:HG2	17:J:316:PHE:HB2	1.74	0.64
21:N:318:LYS:HZ2	21:N:348:PHE:HB2	1.61	0.64
21:N:443:LEU:O	21:N:447:SER:N	2.22	0.64
21:N:717:LEU:HD13	21:N:729:SER:HB2	1.79	0.64
21:N:761:ILE:HB	21:N:904:VAL:HA	1.79	0.64
22:O:11:LEU:CD2	22:O:14:LEU:HB3	2.26	0.64
23:P:46:THR:HG21	23:P:88:GLN:HG2	1.79	0.64
25:R:373:PRO:HB3	26:S:394:ILE:HG21	1.78	0.64
28:U:77:ASN:O	28:U:81:LYS:N	2.24	0.64
33:Z:868:ASN:HB3	33:Z:909:ARG:HH12	1.62	0.64
3:3:15:GLU:OE1	3:3:69:ALA:HB3	1.97	0.64
4:4:113:LYS:O	4:4:117:PHE:N	2.24	0.64
6:6:152:MET:HA	6:6:156:GLU:OE1	1.97	0.64
7:7:83:PHE:HZ	7:7:225:VAL:HG22	1.61	0.64
2:9:264:GLN:NE2	2:9:266:ILE:O	2.28	0.64
11:D:26:ALA:HA	11:D:29:ARG:HH11	1.62	0.64
14:G:126:TYR:C	14:G:129:VAL:HG22	2.17	0.64
14:G:170:GLN:N	14:G:170:GLN:OE1	2.25	0.64
15:H:425:GLU:OE2	15:H:449:LYS:NZ	2.28	0.64
15:H:172:MET:HG3	16:I:130:VAL:HG12	1.80	0.64
18:K:404:GLN:NE2	18:K:408:GLU:OE2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:369:LYS:HE2	19:L:409:HIS:HB3	1.78	0.64
20:M:194:VAL:HG13	20:M:198:VAL:HB	1.78	0.64
21:N:175:ASP:H	21:N:182:ASN:HD22	1.43	0.64
21:N:693:GLY:O	21:N:697:PHE:HB2	1.97	0.64
21:N:897:LYS:HG2	21:N:899:ASN:ND2	2.12	0.64
22:O:191:THR:HA	22:O:194:LEU:HD12	1.80	0.64
23:P:102:GLU:O	23:P:106:SER:N	2.31	0.64
23:P:141:LYS:HA	23:P:144:VAL:HB	1.78	0.64
26:S:411:LEU:O	26:S:414:ASP:N	2.30	0.64
26:S:482:PRO:CD	28:U:295:LYS:HB3	2.27	0.64
29:V:144:ILE:O	29:V:147:VAL:HG22	1.97	0.64
29:V:230:TYR:HB3	29:V:234:GLU:OE1	1.98	0.64
28:U:57:GLU:OE1	30:W:100:HIS:NE2	2.29	0.64
33:Z:183:LYS:NZ	33:Z:292:ASP:OD2	2.31	0.64
1:1:168:PHE:HD2	1:1:169:LEU:HD12	1.62	0.64
1:1:56:SER:OG	1:1:58:TYR:O	2.15	0.64
5:5:121:ILE:HD12	5:5:137:ILE:HG12	1.78	0.64
7:7:112:ILE:HB	7:7:116:LEU:HB2	1.79	0.64
1:8:141:VAL:HB	1:8:153:GLU:O	1.97	0.64
1:8:168:PHE:HD2	1:8:169:LEU:HD12	1.62	0.64
1:8:23:PRO:O	2:9:137:ARG:NH1	2.31	0.64
1:8:56:SER:OG	1:8:58:TYR:O	2.15	0.64
11:D:96:HIS:NE2	11:D:100:LEU:HD22	2.13	0.64
6:6:70:ARG:HA	11:D:90:ARG:NH1	2.13	0.64
12:E:201:LEU:HD13	12:E:219:LEU:HD11	1.78	0.64
16:I:310:LEU:HD13	16:I:338:LEU:HD12	1.77	0.64
16:I:217:LYS:HZ1	16:I:313:LEU:HG	1.62	0.64
17:J:55:VAL:HG22	18:K:79:LEU:HB2	1.79	0.64
18:K:51:LEU:HB3	18:K:55:GLU:HB2	1.78	0.64
18:K:388:GLN:HB3	19:L:213:LYS:HG3	1.78	0.64
19:L:183:ILE:HG22	19:L:364:HIS:CE1	2.32	0.64
20:M:221:TYR:HB2	20:M:329:ARG:HA	1.79	0.64
20:M:72:ASN:HB3	20:M:73:ARG:HG3	1.79	0.64
21:N:18:ASP:HB3	21:N:55:PHE:HD1	1.61	0.64
21:N:614:ASN:HD22	21:N:617:VAL:HG23	1.62	0.64
21:N:761:ILE:O	21:N:762:ARG:HG3	1.98	0.64
22:O:189:TYR:HE2	22:O:232:GLU:OE2	1.81	0.64
23:P:181:LEU:O	23:P:185:GLU:N	2.27	0.64
26:S:140:LEU:O	26:S:144:LEU:HG	1.97	0.64
26:S:199:GLU:O	26:S:203:SER:HA	1.97	0.64
26:S:356:ASP:O	26:S:360:PHE:N	2.17	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:378:GLN:N	26:S:378:GLN:OE1	2.30	0.64
26:S:410:LYS:O	26:S:413:LEU:HB3	1.97	0.64
27:T:193:THR:O	27:T:197:TYR:N	2.28	0.64
27:T:257:THR:CG2	29:V:295:VAL:HG11	2.27	0.64
28:U:284:SER:O	28:U:288:PHE:N	2.19	0.64
33:Z:366:LYS:HE2	33:Z:369:PHE:CE2	2.32	0.64
4:4:143:HIS:HB2	4:4:147:SER:OG	1.96	0.64
4:4:70:ILE:HG12	4:4:131:GLY:HA3	1.79	0.64
5:5:74:TYR:CE2	5:5:78:GLU:HG3	2.32	0.64
6:6:158:LEU:HA	6:6:161:LEU:HD12	1.79	0.64
7:7:128:GLN:HG2	1:8:113:GLN:HE22	1.62	0.64
8:A:14:ARG:O	8:A:27:GLN:NE2	2.21	0.64
9:B:213:ILE:N	9:B:236:ARG:O	2.22	0.64
10:C:13:PHE:H	11:D:19:GLN:NE2	1.91	0.64
11:D:160:SER:HB2	12:E:58:LEU:HA	1.78	0.64
13:F:148:GLN:N	13:F:152:ASN:O	2.30	0.64
8:A:62:LYS:HZ3	14:G:181:ASP:CG	2.01	0.64
15:H:337:ILE:HA	15:H:370:ARG:NH2	2.12	0.64
18:K:128:ARG:NH2	29:V:267:LYS:HZ1	1.96	0.64
18:K:262:ARG:HA	18:K:265:ALA:HB2	1.79	0.64
19:L:221:TYR:CE2	19:L:346:LYS:HG2	2.31	0.64
19:L:86:LYS:C	19:L:90:LYS:NZ	2.51	0.64
15:H:155:PHE:CE2	20:M:150:LYS:NZ	2.66	0.64
21:N:185:ILE:HA	21:N:188:TYR:CD2	2.32	0.64
21:N:742:TRP:CE2	21:N:744:PRO:HD2	2.32	0.64
23:P:234:TYR:HA	23:P:237:VAL:HB	1.79	0.64
22:O:341:ILE:O	23:P:358:SER:N	2.30	0.64
24:Q:98:LYS:HZ3	24:Q:140:LYS:HZ1	1.43	0.64
25:R:382:ASP:HB3	25:R:387:ILE:H	1.61	0.64
26:S:167:LEU:HA	26:S:171:TYR:CE1	2.32	0.64
26:S:387:VAL:HA	26:S:390:THR:HB	1.79	0.64
33:Z:138:ARG:HE	33:Z:158:ALA:HB2	1.62	0.64
33:Z:333:GLY:HA3	33:Z:341:TYR:HB2	1.79	0.64
1:1:212:GLU:HB3	4:4:58:LYS:NZ	2.11	0.64
8:A:181:ASN:HD22	8:A:213:ALA:HB2	1.62	0.64
8:A:244:ARG:O	8:A:248:ILE:CG1	2.46	0.64
9:B:16:GLY:HA2	10:C:24:TYR:HB3	1.79	0.64
10:C:147:GLN:HB3	10:C:149:TYR:HE1	1.63	0.64
13:F:147:PHE:HD1	13:F:153:VAL:HG22	1.63	0.64
13:F:188:GLU:OE2	13:F:191:LYS:HD2	1.98	0.64
16:I:149:LEU:HD22	16:I:154:MET:O	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:136:VAL:HG21	16:I:159:VAL:H	1.62	0.64
17:J:190:PRO:CB	17:J:319:PRO:CD	2.67	0.64
20:M:22:ILE:O	20:M:26:SER:N	2.26	0.64
21:N:312:GLY:O	21:N:316:LYS:N	2.20	0.64
21:N:518:ALA:HB1	21:N:550:GLY:HA3	1.80	0.64
22:O:177:GLN:HA	22:O:180:LYS:HB3	1.80	0.64
22:O:387:ARG:HD2	27:T:266:TYR:CE2	2.32	0.64
23:P:404:LYS:HE3	23:P:406:LYS:CB	2.26	0.64
26:S:232:MET:N	26:S:259:TYR:OH	2.31	0.64
25:R:382:ASP:CA	26:S:399:TYR:HB2	2.23	0.64
26:S:478:SER:HA	26:S:481:TYR:CE2	2.32	0.64
27:T:136:LEU:HD12	27:T:142:LEU:HB3	1.79	0.64
28:U:230:GLN:HA	28:U:233:PHE:CE2	2.32	0.64
28:U:57:GLU:N	28:U:67:PHE:O	2.24	0.64
28:U:69:ASP:OD2	28:U:71:ASN:HB2	1.98	0.64
30:W:78:ASP:O	30:W:79:THR:OG1	2.12	0.64
33:Z:919:GLU:HG3	33:Z:921:GLU:HG2	1.79	0.64
5:5:112:ILE:HG12	5:5:119:PRO:HA	1.80	0.64
1:8:48:ASN:OD1	1:8:55:ASN:ND2	2.31	0.64
11:D:66:LYS:HA	11:D:72:VAL:HG12	1.80	0.64
12:E:42:THR:OG1	12:E:45:GLY:N	2.30	0.64
15:H:274:VAL:N	15:H:307:PHE:O	2.31	0.64
17:J:391:ASN:O	17:J:395:GLU:N	2.30	0.64
21:N:781:ALA:H	21:N:878:GLN:NE2	1.95	0.64
22:O:2:PHE:HA	22:O:5:HIS:CD2	2.32	0.64
23:P:104:LEU:HD13	23:P:115:ARG:HA	1.80	0.64
23:P:287:ASP:C	23:P:289:ASN:H	2.00	0.64
25:R:273:SER:O	25:R:277:LEU:N	2.24	0.64
26:S:182:LYS:HG2	26:S:186:TYR:HB2	1.80	0.64
26:S:425:ARG:CZ	27:T:154:GLU:HB2	2.27	0.64
30:W:44:ASN:N	30:W:47:ASN:OD1	2.29	0.64
32:Y:85:LYS:O	32:Y:89:GLN:N	2.27	0.64
2:2:40:THR:OG1	2:2:62:SER:O	2.14	0.64
4:4:235:PRO:O	4:4:238:THR:OG1	2.11	0.64
4:4:68:PRO:O	4:4:71:TRP:NE1	2.26	0.64
8:A:105:ARG:NH1	8:A:109:GLY:HA2	2.12	0.64
9:B:6:SER:HG	11:D:4:TYR:HD1	1.46	0.64
11:D:187:THR:HB	11:D:190:GLU:HG2	1.79	0.64
12:E:17:PRO:HA	13:F:24:TYR:CE1	2.31	0.64
13:F:43:HIS:HE1	13:F:184:GLY:HA2	1.62	0.64
2:9:109:TYR:OH	14:G:71:ASP:N	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:96:PRO:HD2	16:I:119:ILE:HG21	1.80	0.64
19:L:296:SER:OG	19:L:298:ASP:OD1	2.16	0.64
21:N:239:LEU:HD23	21:N:242:PHE:HD2	1.63	0.64
21:N:466:LEU:HA	21:N:469:VAL:HB	1.80	0.64
22:O:213:LEU:O	22:O:217:LEU:N	2.22	0.64
22:O:308:LEU:HA	22:O:313:ILE:HG21	1.80	0.64
22:O:332:ILE:C	22:O:335:GLY:H	2.00	0.64
23:P:116:ILE:HA	23:P:119:ILE:HG12	1.80	0.64
23:P:147:LYS:HA	23:P:150:GLU:HB2	1.80	0.64
24:Q:355:GLU:CB	24:Q:399:VAL:HA	2.27	0.64
24:Q:80:HIS:HB3	24:Q:84:TYR:CE2	2.32	0.64
27:T:120:THR:O	27:T:124:SER:N	2.15	0.64
27:T:253:GLU:N	27:T:255:GLN:OE1	2.30	0.64
28:U:111:LYS:HG2	28:U:118:PRO:HD2	1.79	0.64
28:U:127:GLN:OE1	29:V:211:LYS:HE2	1.97	0.64
21:N:327:LEU:HD21	29:V:164:LEU:HD11	1.78	0.64
29:V:237:ASN:HB2	29:V:238:LEU:CB	2.25	0.64
30:W:113:PHE:HE1	30:W:181:LEU:HD21	1.61	0.64
3:3:56:VAL:HG11	3:3:101:PHE:HZ	1.63	0.64
4:4:128:ILE:HG13	4:4:156:LEU:HD12	1.80	0.64
1:8:89:ASN:ND2	13:F:93:ASN:HD21	1.96	0.64
2:9:221:ASP:HB3	2:9:224:SER:HB3	1.80	0.64
2:9:253:ASP:C	2:9:256:LYS:HZ2	2.00	0.64
2:9:49:TYR:HE1	2:9:51:ASN:HB2	1.63	0.64
9:B:95:THR:OG1	9:B:96:SER:N	2.31	0.64
12:E:202:LYS:O	12:E:206:GLN:N	2.26	0.64
8:A:88:PRO:HB3	14:G:155:GLY:CA	2.27	0.64
15:H:318:ARG:NH1	15:H:333:MET:SD	2.56	0.64
17:J:43:ARG:HH12	26:S:477:VAL:HA	1.61	0.64
18:K:137:VAL:HB	18:K:146:LEU:HD13	1.80	0.64
19:L:195:GLU:HG3	19:L:199:LEU:HD12	1.79	0.64
21:N:103:SER:HA	21:N:106:ILE:HD12	1.77	0.64
21:N:109:TYR:HB2	21:N:133:LEU:HD11	1.79	0.64
21:N:111:GLN:CD	21:N:111:GLN:H	2.01	0.64
21:N:421:ASP:HA	21:N:424:LYS:HB3	1.79	0.64
21:N:718:GLU:HA	21:N:725:LEU:HA	1.79	0.64
22:O:199:LEU:HG	22:O:203:THR:HB	1.79	0.64
22:O:247:ASN:O	22:O:251:LEU:N	2.21	0.64
23:P:435:LYS:NZ	28:U:156:HIS:HB3	2.12	0.64
24:Q:179:LEU:HD13	24:Q:218:LEU:HD23	1.80	0.64
24:Q:8:LEU:HB2	24:Q:50:ARG:NH1	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:247:GLU:HG3	25:R:279:LEU:HD21	1.80	0.64
30:W:46:GLU:O	30:W:106:GLN:NE2	2.31	0.64
30:W:12:ASN:CG	30:W:81:ILE:HA	2.18	0.64
30:W:96:LEU:HA	30:W:99:LYS:HD2	1.80	0.64
31:X:75:TRP:HH2	31:X:87:PHE:HA	1.63	0.64
33:Z:348:LEU:HD23	33:Z:354:PRO:HD3	1.80	0.64
33:Z:453:LEU:HB2	33:Z:488:ALA:HB1	1.78	0.64
1:1:26:ASP:OD1	1:1:27:ASN:N	2.29	0.64
2:2:86:ILE:HG12	2:2:147:ILE:HG12	1.80	0.64
3:3:24:ALA:O	3:3:144:ALA:N	2.24	0.64
6:6:141:PHE:O	6:6:145:ASP:N	2.21	0.64
1:8:221:LEU:O	1:8:236:TYR:N	2.23	0.64
8:A:22:GLU:HA	9:B:26:THR:HG21	1.80	0.64
10:C:175:LEU:HD12	10:C:200:THR:HG23	1.80	0.64
15:H:385:ARG:HB3	15:H:389:PHE:CZ	2.33	0.64
15:H:418:GLU:O	15:H:421:SER:OG	2.12	0.64
15:H:404:TRP:HH2	15:H:443:PHE:CD1	2.16	0.64
17:J:86:VAL:O	17:J:94:TYR:N	2.22	0.64
18:K:239:GLY:HA3	18:K:276:SER:HB2	1.80	0.64
18:K:389:GLU:HG2	18:K:393:ARG:HE	1.63	0.64
18:K:141:ARG:HD3	19:L:153:LEU:HD11	1.79	0.64
20:M:312:LEU:HB3	20:M:342:ARG:HA	1.79	0.64
21:N:537:THR:O	21:N:541:ALA:N	2.25	0.64
21:N:707:ASN:HA	21:N:711:ARG:HB3	1.80	0.64
27:T:255:GLN:O	27:T:259:ILE:N	2.22	0.64
1:1:105:ILE:HG13	1:1:142:TYR:CE2	2.33	0.64
4:4:129:VAL:N	4:4:140:PHE:O	2.24	0.64
6:6:52:ASP:OD2	6:6:98:TYR:HA	1.97	0.64
7:7:148:ARG:NH2	7:7:179:TYR:O	2.31	0.64
1:8:42:LEU:HD22	1:8:62:VAL:HG13	1.80	0.64
1:8:95:HIS:O	1:8:100:ASP:N	2.23	0.64
8:A:239:GLU:O	8:A:243:GLU:N	2.28	0.64
1:1:114:HIS:CE1	12:E:102:TYR:HA	78.72	0.64
15:H:399:GLU:HA	15:H:437:VAL:HB	1.80	0.64
18:K:298:GLU:O	18:K:302:GLN:N	2.31	0.64
18:K:51:LEU:HD22	18:K:55:GLU:OE1	1.98	0.64
19:L:263:ILE:HD11	19:L:304:THR:HG23	1.78	0.64
20:M:37:LEU:HD22	20:M:134:LEU:HD21	1.80	0.64
22:O:107:GLN:O	22:O:112:LYS:N	2.31	0.64
22:O:314:SER:HB3	22:O:328:VAL:HG21	1.78	0.64
23:P:80:THR:O	23:P:83:SER:OG	2.16	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:178:HIS:O	24:Q:182:SER:N	2.26	0.64
26:S:291:GLU:HA	26:S:294:ILE:HB	1.80	0.64
28:U:141:GLU:CG	28:U:151:GLU:O	2.29	0.64
28:U:76:MET:HB2	29:V:94:MET:HE1	1.80	0.64
29:V:95:LEU:HB3	29:V:100:ARG:HB3	1.79	0.64
30:W:68:GLU:CD	30:W:69:PHE:N	2.51	0.64
31:X:113:GLU:HG3	31:X:122:TYR:HB2	1.80	0.64
31:X:85:ARG:HD3	31:X:117:LYS:O	1.98	0.64
1:1:62:VAL:HA	1:1:72:SER:HB2	1.79	0.63
4:4:68:PRO:HA	9:B:224:TYR:HD2	1.62	0.63
1:8:105:ILE:HG13	1:8:142:TYR:CE2	2.33	0.63
10:C:196:THR:HA	10:C:199:LYS:HD3	1.80	0.63
13:F:68:GLU:O	13:F:222:PHE:N	2.19	0.63
14:G:123:HIS:NE2	14:G:132:PHE:CZ	2.66	0.63
14:G:26:TYR:HA	14:G:29:LYS:HG2	1.80	0.63
15:H:145:TYR:O	15:H:168:ILE:HG22	1.98	0.63
15:H:336:LEU:O	15:H:340:LEU:N	2.22	0.63
17:J:116:ARG:CB	17:J:119:SER:HB2	2.28	0.63
18:K:128:ARG:CZ	18:K:129:GLU:OE2	2.46	0.63
18:K:257:VAL:O	18:K:261:ALA:N	2.27	0.63
19:L:241:ALA:HB3	19:L:277:ILE:HG12	1.80	0.63
19:L:95:ILE:HG23	20:M:36:LEU:HD12	1.79	0.63
21:N:227:LYS:HA	21:N:230:VAL:HB	1.80	0.63
21:N:632:LYS:O	21:N:667:GLN:NE2	2.27	0.63
21:N:69:TYR:O	21:N:74:GLU:N	2.31	0.63
22:O:100:ASP:HA	22:O:103:LYS:HE2	1.78	0.63
22:O:200:GLU:HB3	22:O:201:PRO:HD3	1.78	0.63
23:P:205:LYS:O	23:P:209:LYS:N	2.26	0.63
23:P:238:ALA:HA	23:P:241:LEU:HB2	1.79	0.63
24:Q:202:ARG:NH2	24:Q:222:SER:HG	1.96	0.63
24:Q:330:LEU:O	24:Q:334:HIS:N	2.28	0.63
25:R:58:GLU:O	25:R:144:ILE:HA	1.97	0.63
25:R:200:LYS:C	25:R:207:ARG:NH2	2.47	0.63
26:S:357:LEU:CD1	26:S:384:ARG:HH11	2.10	0.63
27:T:20:TYR:HB3	27:T:68:ALA:HB1	1.78	0.63
27:T:86:LYS:HA	27:T:89:TYR:HB3	1.81	0.63
33:Z:419:VAL:HA	33:Z:422:ILE:HD12	1.79	0.63
33:Z:352:LYS:HE3	33:Z:462:VAL:HG21	1.79	0.63
33:Z:610:GLY:HA2	33:Z:749:GLY:HA3	1.80	0.63
2:2:204:GLN:HA	2:2:207:GLU:HB3	1.80	0.63
4:4:138:HIS:HB3	4:4:140:PHE:CE2	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:155:SER:OG	7:7:196:ARG:NH2	2.29	0.63
7:7:94:ARG:HH11	7:7:245:TYR:C	2.01	0.63
8:A:147:ASP:OD2	8:A:149:GLU:HB2	1.98	0.63
8:A:65:ASP:H	14:G:159:GLY:C	2.01	0.63
13:F:40:SER:N	13:F:43:HIS:O	2.30	0.63
13:F:36:VAL:N	13:F:47:VAL:O	2.23	0.63
14:G:77:VAL:O	14:G:137:ILE:N	2.31	0.63
13:F:157:TYR:OH	14:G:61:PRO:HD2	1.98	0.63
15:H:238:LEU:HD23	20:M:408:SER:HA	1.80	0.63
16:I:109:LEU:N	16:I:145:CYS:O	2.28	0.63
16:I:243:THR:O	16:I:278:ILE:N	2.30	0.63
18:K:158:ILE:HG23	18:K:242:PHE:HE1	1.64	0.63
21:N:293:LEU:HD12	21:N:296:CYS:HB2	1.80	0.63
21:N:344:THR:HG23	21:N:375:HIS:ND1	2.12	0.63
21:N:874:ILE:HG22	21:N:875:LEU:H	1.62	0.63
23:P:299:LEU:HD12	23:P:302:LEU:HB2	1.81	0.63
25:R:164:THR:O	25:R:168:ILE:N	2.29	0.63
25:R:229:LYS:NZ	25:R:230:LEU:HD12	2.13	0.63
26:S:438:HIS:NE2	27:T:197:TYR:OH	2.31	0.63
28:U:299:LYS:O	28:U:303:GLU:N	2.31	0.63
33:Z:593:HIS:N	33:Z:596:THR:OG1	2.32	0.63
33:Z:766:HIS:O	33:Z:773:ARG:NH2	2.31	0.63
2:2:260:GLY:N	3:3:51:ASP:OD2	2.27	0.63
12:E:176:SER:O	12:E:180:GLN:N	2.31	0.63
13:F:135:ILE:HD12	13:F:216:VAL:H	1.63	0.63
14:G:18:ASP:OD2	14:G:20:ARG:HD3	1.98	0.63
15:H:242:PRO:HG3	15:H:350:LYS:HZ1	1.63	0.63
16:I:243:THR:HB	16:I:277:SER:HA	1.80	0.63
18:K:394:ALA:HB2	18:K:406:ASP:OD2	1.98	0.63
21:N:78:ALA:O	21:N:82:ALA:N	2.26	0.63
22:O:10:ILE:O	22:O:14:LEU:N	2.31	0.63
24:Q:143:THR:HA	24:Q:146:TYR:HB3	1.80	0.63
24:Q:388:GLY:CA	24:Q:400:TYR:HB3	2.28	0.63
25:R:113:LEU:O	25:R:117:ILE:N	2.27	0.63
25:R:152:LYS:CB	25:R:156:LYS:HZ1	2.07	0.63
26:S:259:TYR:HB3	26:S:264:VAL:HG21	1.81	0.63
26:S:285:ASP:OD2	26:S:288:THR:OG1	2.11	0.63
26:S:321:GLN:O	26:S:325:GLY:N	2.30	0.63
26:S:399:TYR:HB3	26:S:402:ILE:HD13	1.81	0.63
29:V:48:GLU:HG2	29:V:111:HIS:CE1	2.33	0.63
30:W:167:GLU:N	30:W:197:SER:HB2	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:312:TYR:CE1	33:Z:349:THR:HA	2.33	0.63
1:1:42:LEU:HD22	1:1:62:VAL:HG13	1.80	0.63
1:1:214:HIS:CE1	4:4:53:PRO:HB2	2.33	0.63
2:9:113:LEU:HB3	2:9:116:ALA:HB3	1.79	0.63
8:A:135:ARG:HH11	14:G:15:PHE:HZ	2.04	0.63
11:D:163:THR:HG21	11:D:171:VAL:HG13	1.81	0.63
14:G:47:VAL:HA	14:G:218:TRP:HA	1.81	0.63
14:G:22:PHE:O	14:G:26:TYR:N	2.24	0.63
14:G:84:ASP:OD2	14:G:133:GLY:N	2.27	0.63
15:H:249:TYR:CZ	15:H:376:GLU:HB2	2.33	0.63
18:K:138:ALA:O	18:K:147:VAL:N	2.23	0.63
17:J:26:LYS:HZ3	21:N:107:GLU:H	1.45	0.63
21:N:311:ILE:HA	21:N:314:LEU:HB3	1.79	0.63
21:N:614:ASN:ND2	21:N:616:HIS:HB2	2.11	0.63
21:N:638:ILE:HG23	21:N:660:LEU:HD22	1.80	0.63
23:P:378:THR:O	23:P:382:ASP:N	2.24	0.63
24:Q:30:LEU:HD22	24:Q:50:ARG:NH2	2.13	0.63
24:Q:55:GLU:O	24:Q:59:LEU:N	2.24	0.63
26:S:156:VAL:HG22	26:S:188:TYR:CE1	2.34	0.63
26:S:24:LYS:O	26:S:25:TYR:C	2.37	0.63
26:S:332:PHE:O	26:S:335:GLN:N	2.20	0.63
29:V:107:TRP:HB2	29:V:138:ALA:HA	1.81	0.63
31:X:85:ARG:NH2	31:X:101:LEU:HA	2.13	0.63
33:Z:524:ALA:O	33:Z:527:SER:OG	2.13	0.63
4:4:188:ILE:O	4:4:192:ILE:N	2.22	0.63
6:6:65:GLN:HB2	11:D:94:GLN:NE2	2.13	0.63
1:8:179:TYR:CG	1:8:185:GLY:HA2	2.33	0.63
8:A:46:ARG:HA	8:A:51:THR:HA	1.81	0.63
8:A:165:GLY:HA3	9:B:60:THR:HG21	1.81	0.63
12:E:240:ILE:HA	12:E:243:LEU:CG	2.29	0.63
13:F:168:ALA:O	13:F:172:LEU:N	2.25	0.63
14:G:123:HIS:CG	14:G:132:PHE:CE1	2.87	0.63
13:F:110:HIS:ND1	14:G:86:ARG:NH1	2.46	0.63
16:I:220:ILE:HB	16:I:347:LYS:HA	1.79	0.63
17:J:368:TYR:O	17:J:372:GLU:N	2.32	0.63
21:N:194:ILE:O	21:N:203:ARG:NH1	2.32	0.63
21:N:299:TYR:O	21:N:303:LEU:N	2.21	0.63
22:O:11:LEU:CG	22:O:14:LEU:HD12	2.20	0.63
22:O:185:PHE:CD2	22:O:223:LEU:HB3	2.33	0.63
22:O:207:LEU:HA	22:O:210:ARG:HB3	1.80	0.63
22:O:210:ARG:HH21	22:O:237:PRO:C	2.02	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:292:LYS:CG	23:P:295:SER:H	2.11	0.63
24:Q:192:ALA:O	24:Q:196:ALA:N	2.23	0.63
25:R:325:HIS:HB2	25:R:328:PHE:CD2	2.34	0.63
26:S:3:SER:O	26:S:7:MET:N	2.24	0.63
28:U:20:ASP:OD2	29:V:100:ARG:CZ	2.46	0.63
29:V:110:SER:HB2	29:V:143:PRO:HG3	1.80	0.63
30:W:32:SER:HA	30:W:182:TYR:HB3	1.80	0.63
33:Z:497:PHE:HB2	33:Z:533:VAL:HG22	1.79	0.63
1:1:48:ASN:OD1	1:1:55:ASN:ND2	2.31	0.63
1:8:106:ASN:OD1	1:8:107:SER:N	2.30	0.63
2:9:49:TYR:N	2:9:52:GLY:O	2.30	0.63
8:A:85:GLY:HA3	8:A:139:VAL:HG12	1.79	0.63
13:F:50:LYS:HZ1	13:F:226:ASP:HB3	1.64	0.63
2:9:127:GLU:HG3	13:F:98:VAL:O	1.98	0.63
14:G:36:THR:HA	14:G:166:GLY:HA3	1.81	0.63
14:G:90:ASN:O	14:G:94:GLU:HG3	1.98	0.63
15:H:200:VAL:HG22	15:H:272:ILE:HG23	1.81	0.63
15:H:173:ARG:HH21	16:I:127:ASP:H	1.46	0.63
17:J:197:LEU:O	17:J:201:ALA:N	2.28	0.63
17:J:70:SER:HB2	18:K:119:VAL:HB	1.79	0.63
18:K:67:TYR:CZ	18:K:71:GLU:HB2	2.33	0.63
20:M:149:ASN:N	20:M:154:LEU:O	2.32	0.63
21:N:157:ALA:O	21:N:161:TYR:N	2.31	0.63
21:N:287:LEU:HA	21:N:290:LEU:HD12	1.80	0.63
21:N:308:ASN:HD22	21:N:712:ASN:ND2	1.92	0.63
23:P:128:ASN:HA	23:P:136:ARG:NH1	2.14	0.63
23:P:133:GLU:CA	23:P:136:ARG:HE	2.10	0.63
23:P:361:THR:HA	23:P:399:ILE:HA	1.81	0.63
23:P:55:SER:O	23:P:88:GLN:NE2	2.30	0.63
24:Q:185:TYR:HB3	24:Q:190:ASN:O	1.98	0.63
26:S:160:ARG:HH22	26:S:206:GLN:CB	2.12	0.63
26:S:182:LYS:O	26:S:185:PHE:N	2.32	0.63
26:S:227:ASN:ND2	26:S:260:PRO:O	2.23	0.63
22:O:304:ASN:HB2	28:U:261:LEU:HD23	1.78	0.63
28:U:28:LYS:NZ	28:U:31:LYS:HZ1	1.97	0.63
22:O:15:ARG:NH1	30:W:145:GLY:O	2.32	0.63
30:W:19:GLY:HA2	30:W:25:ARG:N	2.07	0.63
33:Z:381:LEU:HD11	33:Z:414:GLY:HA3	1.79	0.63
33:Z:504:GLU:O	33:Z:508:LEU:N	2.29	0.63
33:Z:804:ASP:HB3	33:Z:807:VAL:HG23	1.80	0.63
1:1:221:LEU:O	1:1:236:TYR:N	2.22	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:11:ILE:HG21	5:5:142:ALA:H	1.63	0.63
8:A:125:SER:HA	8:A:128:TYR:CD2	2.34	0.63
14:G:123:HIS:O	14:G:129:VAL:O	4.54	0.63
14:G:224:THR:HB	14:G:227:LEU:HB2	1.81	0.63
16:I:335:ASP:HB2	16:I:338:LEU:HB2	1.80	0.63
16:I:359:LYS:HA	16:I:362:LEU:HB2	1.80	0.63
16:I:362:LEU:HD21	16:I:384:LYS:HZ2	1.63	0.63
16:I:365:HIS:CG	16:I:393:GLN:HG2	2.33	0.63
16:I:403:ALA:HB3	16:I:411:VAL:HG22	1.80	0.63
17:J:342:ASN:HB3	17:J:345:LYS:HD3	1.81	0.63
19:L:379:ALA:O	19:L:419:VAL:HG11	1.99	0.63
21:N:110:VAL:O	21:N:114:SER:N	2.23	0.63
21:N:300:ASN:O	21:N:304:LEU:N	2.31	0.63
21:N:361:ASN:HA	21:N:364:LYS:HD2	1.81	0.63
21:N:95:SER:OG	21:N:98:VAL:N	2.19	0.63
22:O:152:ASP:HA	22:O:155:LYS:HB3	1.79	0.63
22:O:28:GLN:O	22:O:32:PHE:N	2.20	0.63
23:P:422:LEU:CB	23:P:426:ILE:CD1	2.69	0.63
25:R:379:CYS:SG	25:R:381:ILE:HB	2.37	0.63
25:R:33:LEU:HD11	25:R:89:ASN:CG	2.19	0.63
26:S:225:HIS:NE2	26:S:228:GLU:OE2	2.31	0.63
27:T:108:LEU:O	27:T:112:ASN:N	2.30	0.63
28:U:225:ILE:O	28:U:229:LEU:HG	1.99	0.63
30:W:20:ASP:OD1	30:W:21:PHE:N	2.31	0.63
33:Z:103:TYR:OH	33:Z:136:ARG:O	2.15	0.63
33:Z:454:GLY:HA2	33:Z:457:ILE:HD12	1.81	0.63
33:Z:575:MET:HB3	33:Z:875:LYS:NZ	2.13	0.63
33:Z:880:SER:OG	33:Z:903:MET:O	2.16	0.63
1:1:34:ILE:HB	1:1:41:VAL:HG23	1.80	0.63
3:3:176:HIS:CD2	3:3:215:LEU:HB3	2.33	0.63
5:5:111:GLY:O	5:5:120:PHE:N	2.25	0.63
2:9:132:VAL:HA	2:9:135:GLN:OE1	1.99	0.63
13:F:110:HIS:HB3	14:G:86:ARG:HH22	1.62	0.63
14:G:217:SER:HA	14:G:231:VAL:H	1.63	0.63
16:I:279:VAL:O	16:I:325:ILE:N	2.32	0.63
18:K:207:ARG:HH12	18:K:306:PHE:H	1.46	0.63
20:M:226:THR:HG22	20:M:352:PRO:HD3	1.80	0.63
21:N:299:TYR:HD1	21:N:755:PRO:HB3	1.64	0.63
21:N:569:LYS:HA	21:N:572:LEU:HD12	1.81	0.63
21:N:607:GLN:O	21:N:610:SER:OG	2.16	0.63
21:N:69:TYR:HE2	21:N:81:TYR:CD2	2.16	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:325:ASP:OD1	23:P:327:LEU:N	2.32	0.63
23:P:393:VAL:HB	24:Q:354:PHE:N	2.13	0.63
24:Q:138:SER:HB2	24:Q:161:LEU:HD21	1.80	0.63
24:Q:135:HIS:CG	24:Q:164:GLU:HG2	2.34	0.63
25:R:266:LEU:O	25:R:271:ILE:N	2.29	0.63
25:R:340:GLN:OE1	25:R:340:GLN:N	2.21	0.63
26:S:247:VAL:O	26:S:250:ALA:N	2.16	0.63
26:S:280:ASN:ND2	26:S:288:THR:HB	2.13	0.63
25:R:372:ILE:CB	26:S:395:ILE:H	2.12	0.63
26:S:475:TYR:CE1	26:S:476:LEU:HB2	2.34	0.63
28:U:138:VAL:O	28:U:139:ALA:O	2.16	0.63
28:U:6:GLU:HA	28:U:44:SER:HA	1.81	0.63
29:V:26:THR:N	29:V:61:TYR:O	2.28	0.63
29:V:289:GLU:O	29:V:291:ASN:N	2.32	0.63
30:W:110:ILE:HB	30:W:139:VAL:HG22	1.80	0.63
30:W:68:GLU:OE2	30:W:69:PHE:N	2.32	0.63
33:Z:369:PHE:O	33:Z:370:SER:OG	2.14	0.63
33:Z:372:ALA:HB3	33:Z:849:ARG:NH1	2.13	0.63
33:Z:926:ASN:HB3	33:Z:956:LEU:HB3	1.78	0.63
3:3:26:THR:HA	3:3:31:VAL:HA	1.81	0.63
6:6:77:PRO:HA	6:6:80:VAL:HB	1.81	0.63
7:7:178:GLY:O	7:7:186:THR:N	2.27	0.63
1:8:205:ASP:O	1:8:208:THR:OG1	2.16	0.63
1:8:34:ILE:HB	1:8:41:VAL:HG23	1.80	0.63
8:A:209:HIS:HA	8:A:212:ASP:HB2	1.81	0.63
9:B:192:ALA:O	9:B:196:LEU:N	2.21	0.63
4:4:212:ASP:HB3	9:B:224:TYR:HA	1.80	0.63
9:B:123:GLN:HB2	10:C:129:ARG:NH2	2.13	0.63
10:C:9:ARG:O	10:C:12:ILE:HG12	1.99	0.63
12:E:36:THR:HG1	12:E:175:GLY:H	1.44	0.63
13:F:157:TYR:CE2	14:G:60:VAL:HA	2.34	0.63
13:F:217:GLY:N	13:F:220:THR:O	2.24	0.63
14:G:218:TRP:HZ3	14:G:220:SER:HB3	1.64	0.63
15:H:390:ARG:HA	15:H:404:TRP:CD1	2.33	0.63
15:H:393:SER:HB2	15:H:398:VAL:HG21	1.79	0.63
16:I:299:GLU:HG2	16:I:302:ILE:H	1.64	0.63
16:I:365:HIS:CD2	16:I:393:GLN:HG2	2.34	0.63
17:J:257:ARG:NH1	17:J:296:ARG:HH12	1.95	0.63
17:J:342:ASN:H	17:J:379:GLN:CD	2.01	0.63
17:J:61:GLU:HG2	17:J:65:LEU:HG	1.80	0.63
17:J:71:TYR:HA	18:K:118:TYR:HD1	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:349:ARG:HH22	18:K:378:LEU:HB2	1.64	0.63
20:M:336:ALA:HB2	20:M:342:ARG:NH1	2.14	0.63
21:N:675:VAL:HA	21:N:678:ILE:HD12	1.80	0.63
22:O:185:PHE:O	22:O:189:TYR:HB3	1.99	0.63
22:O:331:ALA:O	22:O:337:LEU:N	2.32	0.63
23:P:123:ARG:HB2	23:P:129:LYS:HG2	1.80	0.63
23:P:228:SER:HA	23:P:231:LYS:HB3	1.80	0.63
25:R:131:ALA:HA	25:R:134:TRP:CD1	2.34	0.63
25:R:265:ASP:O	25:R:269:LYS:N	2.31	0.63
25:R:362:ALA:O	25:R:366:ASN:N	2.30	0.63
25:R:72:VAL:HA	25:R:76:GLN:HE21	1.62	0.63
26:S:239:ARG:HH12	26:S:243:ASN:HD21	1.45	0.63
27:T:140:SER:HA	27:T:143:SER:HB2	1.80	0.63
23:P:429:ILE:HG23	28:U:229:LEU:HB3	1.80	0.63
30:W:2:VAL:HG22	30:W:196:SER:HB3	1.79	0.63
2:2:132:VAL:HA	2:2:135:GLN:OE1	1.99	0.62
2:2:121:GLU:OE2	2:2:154:SER:N	2.32	0.62
2:2:226:ARG:NH2	2:2:248:GLU:OE1	2.30	0.62
5:5:189:ILE:HG13	5:5:198:ARG:NH1	2.14	0.62
1:8:240:ARG:NH2	2:9:193:ASP:O	2.32	0.62
9:B:38:LYS:HA	9:B:43:VAL:HG22	1.81	0.62
11:D:202:VAL:O	11:D:204:GLN:HG2	1.99	0.62
12:E:240:ILE:HA	12:E:243:LEU:CD2	2.28	0.62
15:H:248:LEU:HA	15:H:375:VAL:O	1.98	0.62
15:H:292:ARG:HG2	15:H:339:GLN:HE22	1.63	0.62
15:H:52:THR:HG23	15:H:55:ASP:OD2	1.99	0.62
18:K:188:VAL:HA	18:K:313:LYS:HZ2	1.64	0.62
18:K:267:SER:H	18:K:312:VAL:HG22	1.64	0.62
19:L:72:ASP:N	19:L:75:LYS:HZ3	1.97	0.62
21:N:717:LEU:HD12	21:N:726:ASP:H	1.64	0.62
22:O:367:LYS:HZ1	28:U:201:GLN:CD	2.02	0.62
23:P:168:TYR:HB2	23:P:176:LYS:HD2	1.79	0.62
23:P:19:LYS:O	23:P:23:LEU:N	2.21	0.62
23:P:253:ASP:OD2	23:P:255:ALA:HB3	1.99	0.62
23:P:287:ASP:OD1	23:P:294:GLU:HA	1.99	0.62
23:P:336:HIS:HA	23:P:340:ASP:OD2	1.98	0.62
23:P:411:LEU:HA	23:P:415:TRP:H	1.63	0.62
25:R:296:LEU:HB2	25:R:304:TYR:CG	2.34	0.62
26:S:181:ALA:O	26:S:184:TRP:HB2	1.99	0.62
26:S:185:PHE:O	26:S:189:LEU:N	2.25	0.62
26:S:46:LEU:O	26:S:50:PRO:CB	2.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:Y:64:TRP:N	32:Y:65:ASP:HA	2.13	0.62
5:5:10:GLY:HA2	5:5:26:ASP:OD2	1.99	0.62
5:5:142:ALA:HB2	5:5:178:ASP:HB2	1.82	0.62
7:7:279:GLU:CD	7:7:281:SER:HB3	2.19	0.62
8:A:65:ASP:HA	14:G:161:LYS:HE3	1.81	0.62
9:B:97:TYR:CE1	9:B:103:GLU:HG3	2.34	0.62
9:B:67:LEU:N	9:B:71:ILE:O	2.29	0.62
10:C:80:LEU:N	10:C:133:VAL:HG22	2.14	0.62
10:C:70:ASN:N	10:C:73:ILE:O	2.24	0.62
12:E:201:LEU:HG	12:E:243:LEU:CD1	2.28	0.62
15:H:388:ILE:HG22	15:H:392:HIS:CE1	2.34	0.62
15:H:390:ARG:O	15:H:394:LYS:HG3	1.98	0.62
17:J:171:PRO:HB3	17:J:287:ASN:HD21	1.64	0.62
19:L:115:GLU:HA	19:L:131:VAL:HG13	1.79	0.62
19:L:338:LEU:HA	19:L:343:LEU:HD12	1.79	0.62
22:O:358:ILE:HG12	22:O:359:SER:H	1.64	0.62
22:O:64:ASN:O	22:O:66:VAL:N	2.31	0.62
23:P:430:GLY:HA2	23:P:433:ILE:HD12	1.80	0.62
24:Q:117:VAL:HA	24:Q:120:LYS:HD2	1.80	0.62
24:Q:145:HIS:O	24:Q:149:LYS:N	2.32	0.62
24:Q:301:ALA:O	24:Q:305:ALA:N	2.24	0.62
26:S:144:LEU:HD13	26:S:155:LEU:HB3	1.80	0.62
28:U:172:GLU:OE2	28:U:176:ARG:NH2	2.32	0.62
29:V:111:HIS:CG	29:V:118:LEU:HD22	2.34	0.62
33:Z:363:ASP:O	33:Z:366:LYS:CG	2.39	0.62
1:1:179:TYR:CG	1:1:185:GLY:HA2	2.33	0.62
4:4:35:VAL:HA	4:4:153:TYR:HA	1.79	0.62
7:7:119:THR:OG1	7:7:175:MET:N	2.25	0.62
9:B:66:LEU:HD12	9:B:235:PHE:CD2	2.34	0.62
10:C:124:GLN:HG3	11:D:127:ARG:HG3	1.80	0.62
13:F:18:ARG:HB3	13:F:23:GLU:OE2	1.99	0.62
14:G:75:GLY:HA3	14:G:228:HIS:CD2	2.35	0.62
15:H:100:ALA:HA	15:H:173:ARG:HB3	1.81	0.62
17:J:156:GLN:O	17:J:160:ILE:N	2.28	0.62
17:J:327:ILE:HA	17:J:330:ILE:HD12	1.79	0.62
18:K:238:ASN:HB2	18:K:241:GLU:HG2	1.80	0.62
18:K:211:LEU:HD23	18:K:338:ILE:HB	1.82	0.62
19:L:256:ILE:HD12	19:L:303:ARG:NH1	2.14	0.62
20:M:175:LYS:HG2	20:M:241:ALA:C	2.19	0.62
20:M:72:ASN:CB	20:M:73:ARG:HG3	2.29	0.62
22:O:283:HIS:O	22:O:287:LEU:N	2.25	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:310:PHE:O	22:O:314:SER:N	2.32	0.62
22:O:11:LEU:HD21	22:O:45:LEU:HD12	1.81	0.62
23:P:133:GLU:HG2	23:P:167:THR:HB	1.81	0.62
23:P:258:LYS:HZ2	23:P:291:LYS:HG2	1.64	0.62
24:Q:392:GLN:HG2	25:R:349:SER:H	1.65	0.62
26:S:221:ALA:CB	26:S:230:LYS:NZ	2.62	0.62
26:S:322:LEU:O	26:S:325:GLY:N	2.30	0.62
27:T:55:LEU:HA	27:T:58:THR:HB	1.80	0.62
22:O:15:ARG:CZ	30:W:144:PHE:CD2	2.82	0.62
33:Z:147:GLU:O	33:Z:213:LYS:NZ	2.32	0.62
33:Z:758:LEU:HD13	33:Z:787:ASP:OD1	1.98	0.62
33:Z:925:VAL:HG22	33:Z:983:LEU:HD12	1.82	0.62
1:1:106:ASN:OD1	1:1:107:SER:N	2.30	0.62
7:7:96:THR:HG22	7:7:101:VAL:HG22	1.81	0.62
7:7:179:TYR:HB3	7:7:256:THR:O	1.99	0.62
1:8:26:ASP:OD1	1:8:27:ASN:N	2.32	0.62
2:9:226:ARG:HG3	2:9:247:VAL:HB	1.81	0.62
10:C:191:GLU:O	10:C:195:LYS:N	2.22	0.62
9:B:119:GLN:HE22	10:C:83:ASP:HA	1.62	0.62
11:D:44:LEU:O	11:D:213:THR:N	2.32	0.62
12:E:15:PHE:CZ	13:F:126:ARG:HD2	2.76	0.62
12:E:69:GLU:OE2	12:E:72:ARG:N	2.32	0.62
15:H:195:VAL:HG23	15:H:196:THR:H	1.63	0.62
16:I:358:LYS:NZ	16:I:386:ASP:HA	2.13	0.62
18:K:100:LEU:H	18:K:110:VAL:HA	1.65	0.62
18:K:281:ARG:HG2	18:K:285:GLN:HB2	1.81	0.62
18:K:113:THR:HB	19:L:125:PRO:HB2	1.79	0.62
19:L:104:LEU:HD23	20:M:127:VAL:HG12	1.81	0.62
20:M:73:ARG:NH1	20:M:157:ASP:OD2	2.33	0.62
21:N:260:ASP:O	21:N:263:SER:OG	2.12	0.62
21:N:375:HIS:HB2	21:N:411:ILE:HD11	1.80	0.62
22:O:149:LEU:HD23	22:O:152:ASP:OD2	2.00	0.62
22:O:172:TYR:O	22:O:176:SER:N	2.19	0.62
24:Q:340:ASP:HB3	24:Q:376:LYS:HZ2	1.64	0.62
25:R:372:ILE:N	26:S:395:ILE:HG22	2.14	0.62
25:R:75:GLY:CA	25:R:92:ILE:HD13	2.30	0.62
26:S:241:PHE:CE2	26:S:253:PHE:HE2	2.16	0.62
27:T:157:TYR:CD2	27:T:185:ILE:HG23	2.35	0.62
27:T:260:ILE:O	27:T:264:MET:N	2.20	0.62
21:N:740:TRP:HB2	29:V:24:LYS:HZ1	1.63	0.62
33:Z:321:PHE:CE1	33:Z:331:GLY:HA2	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:736:LEU:N	33:Z:771:HIS:HE2	1.97	0.62
1:1:213:ARG:NE	5:5:151:GLU:OE1	2.32	0.62
7:7:151:VAL:HG13	7:7:176:ILE:HG22	1.80	0.62
1:8:210:ALA:HB1	1:8:217:VAL:HG21	1.81	0.62
2:9:103:LEU:O	2:9:107:ASN:N	2.20	0.62
11:D:32:CYS:HA	11:D:165:GLY:HA3	1.81	0.62
13:F:11:VAL:HG23	14:G:130:ARG:CB	2.30	0.62
14:G:99:PHE:HE1	14:G:105:THR:HG23	1.64	0.62
15:H:385:ARG:NH2	15:H:411:CYS:O	2.33	0.62
18:K:213:GLY:HA3	18:K:340:PHE:HB3	1.81	0.62
19:L:105:ILE:HD12	19:L:159:LEU:HD11	1.80	0.62
19:L:251:ILE:HB	19:L:286:ILE:HD13	1.80	0.62
21:N:572:LEU:O	21:N:576:VAL:N	2.24	0.62
22:O:315:LYS:HD3	22:O:321:LYS:HB2	1.80	0.62
23:P:192:ASP:OD2	23:P:194:SER:HB3	1.99	0.62
23:P:204:LEU:HD13	23:P:220:TYR:CD2	2.34	0.62
23:P:415:TRP:HA	23:P:418:ASN:HB2	1.80	0.62
26:S:342:LEU:HA	26:S:345:TYR:HD2	1.64	0.62
29:V:85:ASP:O	29:V:88:GLN:HG2	2.00	0.62
2:2:104:VAL:O	2:2:108:ALA:N	2.29	0.62
2:2:49:TYR:HE1	2:2:51:ASN:HB2	1.63	0.62
2:2:92:ASP:OD2	2:2:144:TRP:N	2.21	0.62
4:4:236:ARG:HA	5:5:165:GLU:HG3	1.81	0.62
7:7:254:HIS:HB3	7:7:261:ILE:HD12	1.81	0.62
1:8:28:GLY:HA3	1:8:49:ILE:HD11	1.81	0.62
1:8:76:PHE:HE1	2:9:166:LEU:HD13	1.64	0.62
8:A:133:TYR:HD2	14:G:126:TYR:CE1	2.18	0.62
8:A:158:ASP:OD1	8:A:162:TYR:N	2.33	0.62
10:C:16:GLU:O	11:D:29:ARG:NH2	2.54	0.62
15:H:144:LYS:HE2	15:H:146:VAL:HG11	1.81	0.62
15:H:235:PHE:HD2	15:H:242:PRO:HD3	1.64	0.62
15:H:392:HIS:HE1	15:H:419:LEU:HB2	1.64	0.62
15:H:72:SER:HB3	15:H:172:MET:HG2	1.82	0.62
16:I:248:VAL:HG12	16:I:250:SER:H	1.63	0.62
16:I:391:ASP:HA	16:I:394:ALA:HB3	1.82	0.62
17:J:97:ASP:HB3	17:J:121:MET:SD	2.39	0.62
18:K:347:ARG:HH22	24:Q:202:ARG:NH1	1.98	0.62
19:L:407:ARG:NE	19:L:411:ASN:HD22	1.97	0.62
20:M:190:ILE:HA	20:M:193:LEU:HD12	1.81	0.62
21:N:136:ILE:HA	21:N:139:ARG:HB2	1.79	0.62
21:N:222:TYR:O	21:N:226:ASN:N	2.26	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:168:TYR:HB3	23:P:170:SER:H	1.63	0.62
23:P:346:ILE:O	23:P:350:LEU:HG	1.99	0.62
23:P:379:TYR:HA	23:P:382:ASP:OD2	1.99	0.62
24:Q:284:ALA:O	24:Q:287:THR:OG1	2.16	0.62
24:Q:298:ALA:HB2	24:Q:321:TYR:HB3	1.81	0.62
24:Q:31:LEU:HD11	24:Q:58:ILE:HD11	1.82	0.62
25:R:336:LYS:NZ	25:R:340:GLN:NE2	2.48	0.62
26:S:401:LYS:HA	26:S:445:THR:H	1.63	0.62
28:U:174:LEU:HD22	29:V:213:LEU:HD23	1.80	0.62
33:Z:487:SER:HA	33:Z:522:THR:HG21	1.80	0.62
1:8:114:HIS:CE1	12:E:102:TYR:HA	2.34	0.62
2:9:151:GLY:O	2:9:159:PHE:N	2.32	0.62
9:B:64:VAL:HG22	9:B:74:VAL:HB	1.81	0.62
10:C:141:ASP:OD2	10:C:143:ARG:HB3	1.99	0.62
12:E:40:ILE:HG12	12:E:169:ALA:HB1	1.81	0.62
13:F:95:SER:O	13:F:99:PHE:N	2.29	0.62
14:G:110:PRO:HD3	14:G:142:ASP:OD2	2.00	0.62
15:H:215:LYS:HA	15:H:218:ILE:HB	1.82	0.62
15:H:219:GLU:OE2	15:H:222:ARG:NH2	2.29	0.62
16:I:142:GLU:HB2	16:I:145:CYS:SG	2.40	0.62
17:J:153:LEU:O	17:J:316:PHE:CE1	2.52	0.62
18:K:158:ILE:HD12	18:K:249:GLU:HG3	1.81	0.62
18:K:275:ASP:HA	18:K:278:ALA:HB3	1.80	0.62
19:L:147:THR:N	19:L:157:ARG:O	2.33	0.62
19:L:180:PHE:HA	19:L:234:ALA:HB1	1.82	0.62
20:M:245:LYS:HZ1	20:M:281:ASP:CB	2.12	0.62
21:N:364:LYS:HB3	21:N:400:ILE:HG13	1.81	0.62
21:N:578:ASP:O	21:N:584:ARG:NE	2.32	0.62
21:N:306:ASN:ND2	21:N:871:MET:SD	2.70	0.62
22:O:280:LEU:HA	22:O:283:HIS:CB	2.28	0.62
23:P:334:ASN:O	23:P:337:HIS:N	2.31	0.62
24:Q:201:ALA:O	24:Q:205:ALA:N	2.33	0.62
24:Q:261:VAL:O	24:Q:265:MET:N	2.21	0.62
23:P:393:VAL:N	24:Q:354:PHE:HB2	2.11	0.62
25:R:110:ILE:HG22	25:R:114:ASN:ND2	2.14	0.62
25:R:141:TYR:HA	25:R:144:ILE:HB	1.80	0.62
26:S:394:ILE:HG22	26:S:395:ILE:HG23	1.81	0.62
33:Z:916:LEU:HD12	33:Z:982:ILE:HG12	1.81	0.62
3:3:12:LYS:NZ	4:4:120:GLN:OE1	2.29	0.62
4:4:236:ARG:NH2	5:5:162:ASP:H	1.96	0.62
7:7:254:HIS:O	7:7:261:ILE:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:121:GLU:OE2	2:9:154:SER:N	2.32	0.62
8:A:205:PHE:O	8:A:208:THR:HB	2.00	0.62
15:H:344:ASP:HB3	15:H:346:ARG:HH11	1.64	0.62
18:K:260:LEU:O	18:K:264:ASN:ND2	2.32	0.62
19:L:375:ASP:H	19:L:415:LEU:HD23	1.65	0.62
20:M:278:ILE:HB	20:M:323:VAL:HA	1.82	0.62
21:N:623:PHE:O	21:N:627:ILE:N	2.28	0.62
22:O:215:TYR:HE1	22:O:247:ASN:HB2	1.65	0.62
24:Q:155:LEU:O	24:Q:159:ASN:N	2.23	0.62
24:Q:391:ASP:HB2	24:Q:396:TRP:N	2.08	0.62
26:S:241:PHE:HE2	26:S:253:PHE:HE2	1.48	0.62
26:S:420:GLU:HG2	26:S:438:HIS:NE2	2.15	0.62
26:S:455:GLU:O	26:S:459:GLN:N	2.26	0.62
29:V:118:LEU:HD21	29:V:140:VAL:HG22	1.81	0.62
29:V:29:ILE:HG12	29:V:202:ASP:O	1.99	0.62
22:O:45:LEU:HD11	30:W:17:ARG:NH1	2.14	0.62
30:W:95:GLN:HE22	30:W:131:THR:HB	1.65	0.62
33:Z:188:ALA:HB1	33:Z:201:LEU:HD22	1.80	0.62
33:Z:492:GLY:O	33:Z:496:ALA:N	2.21	0.62
3:3:28:LYS:HA	3:3:164:ASN:HD22	1.64	0.62
4:4:206:VAL:HB	4:4:214:GLU:HG2	1.82	0.62
6:6:7:ILE:HD12	6:6:129:PRO:O	1.99	0.62
11:D:33:ALA:O	11:D:164:ILE:N	2.28	0.62
12:E:13:SER:HB2	13:F:126:ARG:HD3	1.82	0.62
12:E:236:THR:HG22	12:E:240:ILE:HD11	1.82	0.62
12:E:42:THR:N	12:E:45:GLY:O	2.33	0.62
14:G:135:SER:OG	14:G:152:GLU:OE1	2.18	0.62
14:G:141:VAL:N	14:G:219:CYS:SG	2.62	0.62
16:I:119:ILE:HA	16:I:128:TYR:O	1.99	0.62
17:J:157:ILE:O	17:J:161:LYS:N	2.27	0.62
17:J:318:PRO:HB2	17:J:319:PRO:CA	2.30	0.62
19:L:113:SER:H	19:L:116:LYS:HB2	1.65	0.62
19:L:111:GLU:HG3	19:L:117:TYR:HE1	1.65	0.62
20:M:267:PHE:HZ	20:M:315:PHE:HE2	1.46	0.62
21:N:704:GLY:HA2	21:N:707:ASN:HB2	1.82	0.62
22:O:307:MET:O	22:O:309:SER:OG	2.17	0.62
22:O:40:GLN:HG3	22:O:58:ARG:CG	2.30	0.62
23:P:276:LEU:O	23:P:280:LEU:HG	1.99	0.62
23:P:319:GLU:HB2	23:P:324:GLU:HB2	1.81	0.62
23:P:392:LYS:HA	24:Q:354:PHE:HD2	1.63	0.62
25:R:101:GLU:HG2	25:R:105:LYS:HE3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:345:TYR:HA	26:S:348:LEU:HD12	1.82	0.62
26:S:428:ARG:NH1	27:T:157:TYR:HH	1.71	0.62
27:T:205:ILE:O	27:T:209:LEU:N	2.32	0.62
28:U:93:TYR:HA	28:U:121:LEU:HB3	1.82	0.62
29:V:186:GLN:HB3	29:V:190:HIS:CD2	2.35	0.62
29:V:255:ILE:O	29:V:258:GLU:CG	2.48	0.62
30:W:2:VAL:CG1	30:W:4:GLU:HG2	2.30	0.62
33:Z:400:ILE:HG22	33:Z:435:GLN:HG3	1.81	0.62
33:Z:460:SER:OG	33:Z:905:ASN:O	2.18	0.62
33:Z:348:LEU:HD22	33:Z:922:PRO:HG2	1.82	0.62
2:2:221:ASP:HB3	2:2:224:SER:HB3	1.80	0.62
4:4:97:LEU:HB3	9:B:90:ARG:HH11	1.65	0.62
6:6:8:ARG:HB3	6:6:13:VAL:HG22	1.81	0.62
9:B:212:ALA:HA	9:B:237:LYS:HA	1.82	0.62
12:E:47:VAL:HG23	12:E:193:LEU:HD12	1.82	0.62
17:J:342:ASN:HB3	17:J:379:GLN:HE22	1.64	0.62
17:J:78:ILE:HG22	17:J:84:VAL:HG23	1.82	0.62
19:L:218:VAL:HG12	19:L:345:ARG:HB3	1.82	0.62
19:L:218:VAL:HA	19:L:345:ARG:HB3	1.82	0.62
20:M:274:ALA:O	20:M:320:ARG:NH2	2.29	0.62
21:N:284:PRO:O	21:N:288:ASN:N	2.31	0.62
21:N:921:ARG:NH1	21:N:922:GLN:NE2	2.48	0.62
22:O:322:ASP:O	22:O:325:GLU:HB2	1.98	0.62
23:P:168:TYR:HB3	23:P:170:SER:N	2.15	0.62
24:Q:125:ALA:HA	24:Q:130:ARG:HB3	1.81	0.62
25:R:279:LEU:HD12	25:R:282:THR:HB	1.82	0.62
25:R:259:PHE:CZ	25:R:332:GLU:HB2	2.35	0.62
25:R:65:TYR:CD1	25:R:68:GLU:HB2	2.34	0.62
26:S:13:SER:O	26:S:17:ASP:N	2.28	0.62
26:S:406:ASP:O	26:S:409:LEU:HB3	2.00	0.62
27:T:206:LYS:NZ	27:T:212:ASN:O	2.19	0.62
28:U:140:ILE:C	28:U:153:THR:HB	2.21	0.62
28:U:202:SER:O	28:U:206:ASP:N	2.30	0.62
29:V:127:LYS:O	29:V:131:GLN:HG2	1.99	0.62
22:O:15:ARG:CD	30:W:144:PHE:CE2	2.83	0.62
33:Z:354:PRO:HA	33:Z:357:ILE:HD12	1.82	0.62
3:3:172:ASP:C	3:3:176:HIS:HD1	2.04	0.61
3:3:72:GLN:HB3	4:4:113:LYS:NZ	2.15	0.61
7:7:127:CYS:O	7:7:131:GLU:N	2.32	0.61
7:7:154:ALA:HA	7:7:157:ILE:HD12	1.79	0.61
7:7:203:CYS:HB2	7:7:212:TYR:CZ	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:145:ASP:N	1:8:149:SER:O	2.31	0.61
9:B:180:ASN:OD1	9:B:183:LEU:N	2.34	0.61
9:B:2:THR:HG22	9:B:3:ASP:H	1.66	0.61
11:D:178:ASN:HB3	11:D:194:LEU:HD11	1.81	0.61
12:E:22:PHE:HB3	12:E:26:TYR:CZ	2.35	0.61
13:F:14:SER:N	13:F:18:ARG:O	2.33	0.61
13:F:2:PHE:CD2	13:F:3:ARG:HG3	2.35	0.61
15:H:75:GLY:O	15:H:103:THR:OG1	2.12	0.61
16:I:172:LYS:NZ	16:I:234:LYS:NZ	2.47	0.61
16:I:334:LEU:HB3	16:I:338:LEU:HD23	1.82	0.61
17:J:218:LEU:HB2	17:J:268:VAL:HG13	1.82	0.61
17:J:52:ASN:O	17:J:56:ARG:HG2	2.00	0.61
18:K:162:GLY:N	18:K:236:ARG:O	2.26	0.61
18:K:269:ILE:HB	18:K:314:VAL:HA	1.82	0.61
18:K:210:LEU:HB3	18:K:337:LYS:HA	1.82	0.61
17:J:27:ILE:HD12	18:K:48:TYR:HA	1.81	0.61
18:K:50:LYS:O	18:K:54:LEU:N	2.22	0.61
19:L:244:ILE:O	19:L:279:PHE:N	2.28	0.61
19:L:276:CYS:H	19:L:321:THR:HA	1.64	0.61
20:M:416:VAL:HA	20:M:419:ILE:HD12	1.80	0.61
22:O:11:LEU:HD11	22:O:45:LEU:HB2	1.81	0.61
22:O:17:GLU:N	22:O:19:ASP:OD1	2.33	0.61
23:P:135:GLU:O	23:P:138:ARG:N	2.32	0.61
23:P:377:GLU:OE2	23:P:395:ARG:NE	2.33	0.61
23:P:411:LEU:HA	23:P:414:GLU:HB2	1.81	0.61
24:Q:409:TYR:HA	24:Q:412:ALA:HB3	1.80	0.61
24:Q:426:LEU:HD11	29:V:268:THR:HG21	1.82	0.61
25:R:331:ARG:HH12	25:R:370:LYS:HD2	1.65	0.61
25:R:373:PRO:HA	25:R:375:LYS:HZ1	1.64	0.61
25:R:47:ALA:HA	25:R:50:VAL:HB	1.81	0.61
26:S:135:ASN:O	26:S:138:MET:HB2	1.99	0.61
29:V:106:GLY:HA2	29:V:136:ALA:HB1	1.82	0.61
29:V:26:THR:HG1	29:V:62:THR:HA	1.65	0.61
30:W:109:ARG:HA	30:W:138:ALA:HB3	1.81	0.61
31:X:34:GLU:N	31:X:49:GLU:O	2.33	0.61
33:Z:453:LEU:HD13	33:Z:491:LEU:HB3	1.82	0.61
3:3:38:ARG:CZ	3:3:189:GLY:HA3	2.29	0.61
7:7:188:TYR:CE1	7:7:198:LYS:HB2	2.34	0.61
7:7:210:PHE:HB2	7:7:239:ALA:HB2	1.82	0.61
2:9:86:ILE:HG12	2:9:147:ILE:HG12	1.80	0.61
9:B:229:THR:O	9:B:231:LYS:NZ	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C:158:THR:OG1	10:C:160:TRP:NE1	2.23	0.61
12:E:167:TYR:HA	13:F:56:LEU:O	2.00	0.61
12:E:198:LEU:HA	12:E:201:LEU:HB3	1.82	0.61
13:F:37:GLY:N	13:F:159:THR:O	2.21	0.61
14:G:32:GLU:HG2	14:G:169:ARG:HH12	1.65	0.61
15:H:272:ILE:O	15:H:307:PHE:N	2.31	0.61
17:J:252:SER:HB2	17:J:295:ASN:N	2.14	0.61
18:K:341:PRO:O	18:K:342:SER:HB2	2.00	0.61
19:L:92:GLU:HA	19:L:95:ILE:HB	1.80	0.61
20:M:357:ARG:O	20:M:361:LEU:N	2.21	0.61
21:N:425:ASN:O	21:N:429:GLU:N	2.18	0.61
21:N:575:ALA:O	21:N:584:ARG:HG2	2.00	0.61
21:N:618:ARG:O	21:N:621:THR:OG1	2.18	0.61
21:N:920:VAL:O	21:N:924:LYS:HG2	2.00	0.61
22:O:383:LYS:H	27:T:262:LYS:HZ1	1.48	0.61
24:Q:125:ALA:HB2	24:Q:130:ARG:CZ	2.30	0.61
24:Q:379:GLN:O	24:Q:383:ASP:N	2.34	0.61
25:R:102:LEU:O	25:R:106:ASN:N	2.25	0.61
26:S:359:LYS:O	26:S:362:SER:OG	2.15	0.61
26:S:419:VAL:O	26:S:423:VAL:HG12	2.01	0.61
27:T:214:GLU:O	27:T:218:GLU:N	2.28	0.61
30:W:125:LEU:HD21	30:W:157:PHE:HB2	1.81	0.61
31:X:54:GLU:OE1	31:X:102:GLN:NE2	2.33	0.61
31:X:26:PRO:O	31:X:100:TRP:NE1	2.32	0.61
33:Z:570:LEU:HB3	33:Z:584:VAL:HG22	1.81	0.61
5:5:66:MET:O	5:5:69:TYR:HB3	2.00	0.61
6:6:9:VAL:N	6:6:12:SER:O	2.28	0.61
2:9:44:VAL:HG11	2:9:85:GLY:HA3	1.82	0.61
8:A:240:ASN:O	8:A:244:ARG:HG2	2.10	0.61
8:A:61:ASP:OD2	8:A:63:LEU:HB2	2.00	0.61
8:A:19:PHE:N	9:B:20:GLN:OE1	2.34	0.61
10:C:111:LEU:O	10:C:114:ARG:HB3	2.00	0.61
11:D:227:GLU:O	11:D:231:GLN:N	2.29	0.61
12:E:122:ARG:HA	12:E:132:ARG:HD2	1.82	0.61
15:H:274:VAL:HB	15:H:308:PHE:CD1	2.36	0.61
15:H:75:GLY:HA3	15:H:105:ILE:HD11	1.81	0.61
17:J:49:ASN:HA	21:N:611:LYS:NZ	2.10	0.61
18:K:343:LEU:O	18:K:344:ARG:CB	2.48	0.61
19:L:92:GLU:C	19:L:96:LYS:HZ3	2.03	0.61
21:N:174:LEU:HD11	21:N:213:PHE:CD1	2.33	0.61
21:N:420:THR:O	21:N:424:LYS:N	2.25	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:561:GLY:N	21:N:593:PHE:O	2.32	0.61
22:O:11:LEU:HD23	22:O:14:LEU:HB3	1.75	0.61
23:P:313:ILE:O	23:P:317:THR:N	2.25	0.61
24:Q:409:TYR:CZ	25:R:403:LEU:HA	2.34	0.61
27:T:98:GLU:HA	27:T:102:LYS:NZ	2.15	0.61
27:T:182:LYS:O	27:T:185:ILE:HB	2.01	0.61
28:U:84:ASN:HB3	28:U:87:GLU:OE2	2.00	0.61
33:Z:165:TYR:HA	33:Z:200:THR:HB	1.82	0.61
1:1:180:GLU:OE2	1:1:190:PRO:HD2	2.00	0.61
2:2:226:ARG:HG3	2:2:247:VAL:HB	1.81	0.61
2:2:254:PHE:HD2	4:4:173:GLN:HE21	1.48	0.61
5:5:72:ASN:HB2	10:C:96:GLN:NE2	2.15	0.61
1:8:180:GLU:OE2	1:8:190:PRO:HD2	2.00	0.61
10:C:16:GLU:HB3	11:D:29:ARG:NH2	2.26	0.61
11:D:24:LEU:HB3	11:D:28:LYS:NZ	2.16	0.61
13:F:215:ILE:HG22	13:F:225:TYR:HE2	1.65	0.61
12:E:14:THR:HG23	13:F:21:GLN:NE2	2.15	0.61
15:H:382:LEU:HD23	15:H:385:ARG:NH2	2.16	0.61
16:I:253:ILE:HG23	16:I:253:ILE:O	2.00	0.61
17:J:213:VAL:O	17:J:248:ASP:N	2.33	0.61
17:J:327:ILE:HG21	17:J:355:GLY:HA2	1.81	0.61
18:K:139:LEU:HD23	18:K:146:LEU:HA	1.82	0.61
18:K:214:PRO:HB2	18:K:217:THR:HG21	1.82	0.61
18:K:255:ARG:CA	18:K:302:GLN:HE22	2.13	0.61
18:K:188:VAL:HG13	18:K:313:LYS:HG3	1.82	0.61
19:L:278:ILE:HB	19:L:323:ILE:HG12	1.82	0.61
20:M:310:ASN:HA	20:M:313:ASP:HB3	1.82	0.61
21:N:601:THR:HG22	21:N:605:ILE:HG13	1.83	0.61
21:N:913:PRO:O	21:N:914:VAL:HG12	2.00	0.61
22:O:225:ASP:CA	22:O:226:LYS:HB2	2.30	0.61
22:O:56:PRO:O	22:O:59:LEU:HB2	1.99	0.61
23:P:283:LYS:HB2	23:P:286:ASN:HB2	1.82	0.61
25:R:380:VAL:N	25:R:389:GLU:O	2.30	0.61
25:R:44:LYS:HG3	25:R:91:TRP:CH2	2.35	0.61
25:R:78:ASP:OD1	25:R:79:LEU:N	2.34	0.61
26:S:246:GLU:HG3	27:T:124:SER:HB3	1.83	0.61
26:S:257:LEU:HD13	26:S:260:PRO:HD2	1.82	0.61
26:S:276:LEU:HG	26:S:292:TYR:CE2	2.36	0.61
25:R:372:ILE:CB	26:S:395:ILE:N	2.62	0.61
27:T:262:LYS:HG2	27:T:266:TYR:CE2	2.35	0.61
29:V:107:TRP:NE1	29:V:129:PHE:HD2	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:562:TRP:CE2	33:Z:566:LEU:HD11	2.35	0.61
2:2:49:TYR:N	2:2:52:GLY:O	2.30	0.61
3:3:185:ASP:OD1	3:3:187:SER:N	2.34	0.61
3:3:27:PHE:CE1	3:3:32:ILE:HG13	2.36	0.61
2:2:220:ARG:HB3	3:3:44:TYR:CE1	2.36	0.61
5:5:49:VAL:HG21	5:5:82:ILE:HG23	1.83	0.61
7:7:265:ASN:OD1	7:7:266:HIS:N	2.33	0.61
1:8:34:ILE:HG12	1:8:155:CYS:HB2	1.83	0.61
8:A:243:GLU:CG	8:A:244:ARG:HH12	2.13	0.61
10:C:181:LYS:CG	10:C:184:MET:HG3	2.31	0.61
12:E:214:GLU:HB2	12:E:233:ASN:HA	1.83	0.61
13:F:144:LEU:HD21	13:F:159:THR:HG22	1.82	0.61
14:G:54:ILE:H	14:G:212:PHE:HA	1.66	0.61
15:H:322:GLY:HA3	20:M:253:GLN:HA	1.83	0.61
16:I:137:ASP:H	16:I:140:LEU:HD12	1.66	0.61
17:J:115:LEU:HD21	17:J:120:TYR:HA	1.81	0.61
17:J:81:ASP:OD2	17:J:83:LYS:HB2	2.00	0.61
18:K:281:ARG:NH1	18:K:290:ARG:HG2	2.15	0.61
22:O:187:SER:O	22:O:191:THR:N	2.24	0.61
23:P:204:LEU:HG	23:P:217:LYS:NZ	2.15	0.61
23:P:206:LYS:O	23:P:210:ASN:N	2.33	0.61
24:Q:271:MET:O	24:Q:273:ASN:ND2	2.34	0.61
25:R:213:TYR:HH	25:R:238:PHE:HE2	1.48	0.61
26:S:360:PHE:CZ	26:S:380:CYS:HB3	2.35	0.61
28:U:172:GLU:O	28:U:176:ARG:NH2	2.23	0.61
28:U:94:HIS:CE1	28:U:122:ILE:HG12	2.36	0.61
29:V:261:LEU:HD22	29:V:280:LEU:HA	1.81	0.61
33:Z:208:VAL:HG13	33:Z:232:LYS:HA	1.82	0.61
33:Z:323:TYR:CD1	33:Z:501:LYS:HE2	2.36	0.61
33:Z:542:ILE:HA	33:Z:545:SER:HB2	1.81	0.61
33:Z:743:ILE:HA	33:Z:746:ILE:HG12	1.83	0.61
1:1:210:ALA:HB1	1:1:217:VAL:HG21	1.81	0.61
2:2:251:LYS:HE2	4:4:172:LYS:HA	1.83	0.61
4:4:142:ILE:HG12	4:4:148:THR:HG22	1.82	0.61
4:4:163:ALA:HB1	4:4:187:ALA:HB1	1.81	0.61
5:5:57:ALA:O	5:5:61:THR:N	2.24	0.61
7:7:179:TYR:HB3	7:7:256:THR:C	2.20	0.61
7:7:87:ILE:O	7:7:255:VAL:N	2.32	0.61
1:8:29:GLY:O	1:8:61:LYS:NZ	2.33	0.61
11:D:53:LYS:HG2	11:D:54:LEU:H	1.65	0.61
14:G:218:TRP:CZ3	14:G:223:GLU:HB2	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:384:LYS:NZ	16:I:392:ILE:HA	2.15	0.61
17:J:144:ASP:HA	17:J:204:HIS:ND1	2.16	0.61
17:J:164:ILE:HG22	17:J:206:THR:HG21	1.83	0.61
17:J:250:ILE:HA	17:J:260:GLY:HA2	1.83	0.61
18:K:72:GLN:O	18:K:76:LYS:N	2.25	0.61
19:L:365:THR:HB	19:L:370:LYS:HZ2	1.66	0.61
20:M:345:ARG:HB3	20:M:347:ILE:HD11	1.81	0.61
21:N:124:TYR:HD2	21:N:162:ARG:CZ	2.13	0.61
21:N:771:PHE:HD2	21:N:773:MET:SD	2.23	0.61
22:O:289:GLN:NE2	22:O:327:LEU:O	2.31	0.61
23:P:248:ASP:HB2	23:P:257:TRP:CD1	2.35	0.61
24:Q:78:ILE:HA	24:Q:81:SER:OG	1.99	0.61
25:R:37:LYS:HG3	25:R:38:VAL:HG23	1.83	0.61
26:S:280:ASN:O	26:S:284:LEU:N	2.34	0.61
26:S:386:ASN:O	26:S:390:THR:N	2.31	0.61
28:U:5:HIS:HB3	28:U:157:LEU:HD21	1.81	0.61
29:V:232:GLU:O	29:V:236:SER:N	2.34	0.61
30:W:70:GLY:HA2	30:W:73:LEU:HB3	1.83	0.61
31:X:33:ILE:HG21	31:X:99:PHE:HB3	1.81	0.61
31:X:48:PHE:CD2	31:X:66:LEU:HB3	2.35	0.61
33:Z:452:LEU:HA	33:Z:474:LEU:HD11	1.82	0.61
33:Z:834:LEU:HD23	33:Z:837:TYR:HD2	1.66	0.61
1:1:223:ILE:O	1:1:234:GLU:N	2.31	0.61
7:7:82:ARG:N	7:7:200:ASP:O	2.31	0.61
2:9:204:GLN:HA	2:9:207:GLU:HB3	1.81	0.61
8:A:208:THR:HG22	8:A:212:ASP:OD2	2.00	0.61
9:B:184:GLU:OE1	9:B:187:ASP:N	2.23	0.61
9:B:217:GLU:OE1	9:B:231:LYS:HB2	2.01	0.61
11:D:158:SER:OG	12:E:60:GLU:HB2	2.00	0.61
13:F:67:ASP:OD2	13:F:69:HIS:CD2	2.54	0.61
13:F:11:VAL:CA	14:G:130:ARG:HD3	2.30	0.61
15:H:168:ILE:HD11	15:H:185:LEU:HB3	1.83	0.61
18:K:183:GLU:HG3	18:K:338:ILE:HG12	1.83	0.61
20:M:70:LYS:HA	29:V:76:THR:HG23	1.82	0.61
21:N:163:LEU:HA	21:N:166:ILE:HB	1.82	0.61
21:N:214:LEU:HD12	21:N:225:LEU:HD21	1.83	0.61
23:P:226:LYS:HA	23:P:229:LEU:HD12	1.83	0.61
24:Q:3:LEU:HB2	24:Q:6:SER:HB2	1.83	0.61
29:V:211:LYS:O	29:V:215:ASN:N	2.30	0.61
29:V:92:MET:HA	29:V:95:LEU:HB2	1.81	0.61
31:X:33:ILE:HD13	31:X:99:PHE:CG	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:886:VAL:HG12	33:Z:896:LYS:NZ	2.16	0.61
1:1:204:ARG:NH1	4:4:229:GLN:OE1	2.33	0.61
1:1:34:ILE:HG12	1:1:155:CYS:HB2	1.83	0.61
6:6:166:GLN:O	6:6:170:LYS:N	2.31	0.61
6:6:51:GLY:CA	7:7:166:LYS:HZ2	2.13	0.61
9:B:148:TYR:HD1	9:B:158:PRO:HA	1.66	0.61
10:C:93:ILE:HG22	10:C:97:ASN:HD21	1.66	0.61
11:D:88:LYS:HB3	11:D:112:TYR:OH	2.00	0.61
11:D:169:LYS:HZ2	11:D:172:ARG:HD2	1.65	0.61
6:6:62:ALA:O	11:D:94:GLN:NE2	2.34	0.61
12:E:144:ILE:HD11	12:E:158:ALA:HB2	1.83	0.61
14:G:50:VAL:HG13	14:G:215:GLU:HB3	1.83	0.61
15:H:337:ILE:HA	15:H:370:ARG:CZ	2.30	0.61
16:I:247:ILE:HD13	16:I:267:ILE:HD13	1.83	0.61
16:I:384:LYS:HZ1	16:I:392:ILE:HA	1.66	0.61
18:K:140:HIS:O	18:K:144:ASN:HA	2.00	0.61
18:K:161:MET:HB2	18:K:235:ILE:HG23	1.83	0.61
18:K:247:LEU:HA	18:K:294:ARG:NH1	2.15	0.61
19:L:86:LYS:C	19:L:90:LYS:HZ3	2.04	0.61
20:M:242:THR:N	20:M:276:THR:HA	2.14	0.61
21:N:321:LEU:HB3	21:N:328:PHE:CE2	2.35	0.61
21:N:419:THR:O	21:N:423:LEU:HG	2.00	0.61
21:N:43:LEU:HD13	21:N:69:TYR:HE1	1.66	0.61
22:O:15:ARG:NE	30:W:144:PHE:CD2	2.68	0.61
22:O:191:THR:O	22:O:194:LEU:HB2	2.01	0.61
23:P:126:THR:O	23:P:140:THR:OG1	2.14	0.61
25:R:414:LEU:HA	25:R:417:TYR:HB2	1.82	0.61
26:S:152:LEU:HD23	26:S:155:LEU:HD12	1.81	0.61
26:S:215:MET:HA	26:S:218:LEU:HG	1.83	0.61
25:R:373:PRO:CD	26:S:395:ILE:HG21	2.18	0.61
26:S:404:LEU:HA	26:S:443:ILE:HG13	1.83	0.61
27:T:132:HIS:O	27:T:136:LEU:N	2.17	0.61
27:T:81:TYR:O	27:T:85:LEU:N	2.30	0.61
28:U:10:ILE:HB	28:U:161:ILE:HD13	1.80	0.61
28:U:56:PHE:CE2	28:U:58:GLU:HB2	2.34	0.61
29:V:48:GLU:HA	29:V:110:SER:H	1.66	0.61
29:V:55:GLY:HA3	29:V:64:ASN:O	2.00	0.61
31:X:85:ARG:HB2	31:X:117:LYS:H	1.64	0.61
33:Z:369:PHE:CB	33:Z:390:LEU:CD2	2.45	0.61
33:Z:475:GLN:O	33:Z:478:VAL:HG12	2.00	0.61
33:Z:815:MET:HA	33:Z:830:LEU:HD21	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:44:VAL:HG11	2:2:85:GLY:HA3	1.82	0.61
6:6:108:ASP:HB2	6:6:115:GLU:OE2	2.01	0.61
7:7:82:ARG:HD3	7:7:200:ASP:OD1	2.01	0.61
11:D:24:LEU:HB3	11:D:28:LYS:HZ2	1.66	0.61
10:C:120:GLN:HE22	11:D:81:ASP:HA	1.66	0.61
13:F:193:GLY:HA2	13:F:196:ALA:HB3	1.83	0.61
16:I:383:THR:C	16:I:420:LYS:HZ2	2.04	0.61
21:N:521:LEU:O	21:N:525:ASN:N	2.33	0.61
21:N:539:MET:HE3	21:N:551:GLY:HA2	1.82	0.61
21:N:584:ARG:O	21:N:588:VAL:N	2.21	0.61
21:N:875:LEU:HD12	21:N:876:PRO:HD2	1.83	0.61
21:N:891:VAL:HB	21:N:908:ARG:HG3	1.82	0.61
22:O:83:LEU:HD13	22:O:128:LEU:HD13	1.83	0.61
23:P:12:ILE:O	23:P:16:GLU:N	2.31	0.61
23:P:38:GLN:HE22	23:P:61:LYS:HE2	1.66	0.61
24:Q:10:GLU:O	24:Q:14:LEU:N	2.26	0.61
24:Q:219:ASP:HB3	24:Q:238:TYR:O	2.01	0.61
24:Q:422:VAL:O	24:Q:425:GLN:HB3	2.00	0.61
24:Q:35:SER:HB2	24:Q:47:ASP:HA	1.81	0.61
26:S:212:SER:HA	26:S:215:MET:HB3	1.82	0.61
26:S:310:LEU:HD12	26:S:313:SER:HB2	1.81	0.61
26:S:433:GLU:HG2	26:S:446:THR:HG21	1.82	0.61
30:W:12:ASN:ND2	30:W:79:THR:HB	2.10	0.61
31:X:17:TYR:HA	31:X:98:PHE:H	1.66	0.61
33:Z:247:GLN:NE2	33:Z:975:SER:OG	2.33	0.61
4:4:189:GLN:O	4:4:193:TRP:N	2.22	0.61
6:6:141:PHE:HD1	6:6:144:LEU:HD12	1.66	0.61
6:6:55:GLN:HG3	7:7:163:TYR:CD1	2.36	0.61
7:7:276:LYS:HG3	7:7:281:SER:O	2.00	0.61
8:A:42:SER:N	8:A:171:THR:O	2.34	0.61
8:A:80:GLY:HA3	8:A:233:PHE:CD2	2.36	0.61
8:A:48:LYS:HB2	8:A:195:ASN:HA	1.83	0.61
8:A:61:ASP:OD1	8:A:62:LYS:N	2.34	0.61
11:D:135:ILE:HB	11:D:148:TYR:HB2	1.83	0.61
15:H:68:GLY:HA2	15:H:71:GLU:HB2	1.83	0.61
18:K:153:ASP:HA	19:L:110:LYS:NZ	2.16	0.61
19:L:306:MET:HA	19:L:309:LEU:HB3	1.83	0.61
21:N:480:ALA:HA	21:N:483:LEU:HD12	1.83	0.61
21:N:772:GLN:CB	21:N:869:ASP:H	2.14	0.61
22:O:172:TYR:HB3	22:O:195:TYR:HB2	1.83	0.61
22:O:215:TYR:O	22:O:219:ILE:N	2.24	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:108:LYS:N	23:P:111:ASP:HB2	2.16	0.61
23:P:254:GLU:HG3	23:P:288:ASN:ND2	2.16	0.61
23:P:234:TYR:HB2	23:P:271:SER:HB3	1.82	0.61
23:P:422:LEU:CB	23:P:426:ILE:HD11	2.31	0.61
25:R:117:ILE:HA	25:R:120:LEU:HD12	1.83	0.61
25:R:211:LYS:HA	25:R:214:TYR:HB3	1.83	0.61
24:Q:420:ASN:ND2	25:R:413:LYS:NZ	2.49	0.61
25:R:418:GLY:O	25:R:421:VAL:HG23	2.01	0.61
28:U:174:LEU:HD23	28:U:175:LEU:H	1.65	0.61
28:U:36:VAL:O	28:U:51:SER:HB2	2.01	0.61
29:V:108:TYR:OH	29:V:141:VAL:HG21	1.99	0.61
23:P:431:HIS:HA	29:V:230:TYR:CE2	2.35	0.61
30:W:9:VAL:HB	30:W:112:ALA:HA	1.83	0.61
30:W:27:GLU:HA	30:W:30:ILE:HD12	1.82	0.61
30:W:51:LEU:O	30:W:62:LEU:N	2.32	0.61
33:Z:106:TRP:HB2	33:Z:112:LYS:NZ	2.15	0.61
33:Z:113:SER:HB2	33:Z:143:VAL:HB	1.81	0.61
33:Z:495:ILE:HD11	33:Z:903:MET:HA	1.82	0.61
33:Z:531:ALA:HB1	33:Z:572:ILE:HD12	1.83	0.61
33:Z:604:GLY:O	33:Z:608:TYR:N	2.19	0.61
3:3:23:MET:HB2	3:3:145:ILE:HG22	1.82	0.60
5:5:44:PHE:O	5:5:51:LEU:N	2.30	0.60
9:B:217:GLU:OE1	9:B:231:LYS:HE2	2.01	0.60
11:D:17:ILE:HG22	11:D:20:VAL:H	1.66	0.60
13:F:11:VAL:CG2	14:G:130:ARG:CB	2.78	0.60
15:H:171:GLY:C	15:H:173:ARG:H	2.02	0.60
15:H:282:LYS:HZ1	16:I:304:ARG:HG2	1.65	0.60
15:H:97:LEU:CD1	15:H:189:PRO:HB2	2.31	0.60
16:I:280:PHE:CE2	16:I:282:ASP:HB2	2.36	0.60
21:N:519:VAL:O	21:N:523:LEU:N	2.27	0.60
21:N:899:ASN:HB2	21:N:902:VAL:HG22	1.82	0.60
22:O:334:LEU:HD12	22:O:337:LEU:HG	1.83	0.60
22:O:338:LYS:NZ	22:O:352:TRP:C	2.55	0.60
23:P:111:ASP:HA	23:P:114:THR:HB	1.81	0.60
23:P:221:TYR:HE1	23:P:240:TYR:O	1.84	0.60
23:P:362:LEU:HD11	23:P:373:GLU:HA	1.83	0.60
23:P:91:LEU:HA	23:P:130:ILE:HD11	1.83	0.60
25:R:288:SER:HA	25:R:292:LEU:CG	2.31	0.60
25:R:259:PHE:CZ	25:R:329:PHE:HA	2.35	0.60
25:R:396:LYS:HA	26:S:452:TYR:CD2	2.36	0.60
25:R:60:ALA:HB1	25:R:99:TYR:CZ	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:205:ASN:ND2	27:T:44:LEU:O	2.34	0.60
26:S:425:ARG:HD2	27:T:156:SER:CB	2.31	0.60
29:V:278:LYS:HG2	29:V:279:HIS:N	2.16	0.60
30:W:162:ASN:HA	30:W:168:THR:OG1	2.01	0.60
33:Z:357:ILE:HD13	33:Z:959:HIS:ND1	2.16	0.60
33:Z:361:HIS:HA	33:Z:364:ASN:HB2	1.82	0.60
33:Z:416:THR:OG1	33:Z:446:GLU:O	2.18	0.60
4:4:34:GLY:HA2	4:4:43:ILE:HA	1.83	0.60
4:4:48:ARG:NH1	4:4:198:SER:O	2.33	0.60
7:7:94:ARG:HD2	7:7:245:TYR:O	2.00	0.60
1:8:128:THR:HG22	1:8:144:PHE:HB2	1.83	0.60
8:A:72:ILE:HD12	8:A:224:GLU:HG2	1.83	0.60
10:C:97:ASN:O	10:C:101:THR:N	2.22	0.60
12:E:72:ARG:NH2	12:E:226:ASP:HA	2.16	0.60
15:H:51:GLN:O	16:I:92:GLU:HA	2.01	0.60
17:J:114:CYS:HB3	17:J:123:HIS:HB3	1.83	0.60
18:K:404:GLN:HG3	18:K:408:GLU:HG2	1.83	0.60
20:M:368:MET:HE2	20:M:410:VAL:HG21	1.82	0.60
21:N:318:LYS:HZ2	21:N:348:PHE:CB	2.14	0.60
21:N:484:GLY:HA2	21:N:487:LEU:HD12	1.83	0.60
21:N:762:ARG:NE	21:N:764:SER:OG	2.34	0.60
22:O:309:SER:HB3	22:O:347:LEU:CA	2.30	0.60
22:O:62:TYR:CE2	22:O:82:LEU:HD22	2.36	0.60
23:P:117:SER:O	23:P:121:THR:HG23	2.01	0.60
23:P:341:LEU:HA	23:P:344:ARG:CB	2.31	0.60
23:P:422:LEU:CD1	23:P:426:ILE:HD11	2.29	0.60
24:Q:51:ARG:HG3	24:Q:85:MET:HE1	1.83	0.60
24:Q:8:LEU:HD22	24:Q:53:GLU:HB3	1.84	0.60
28:U:57:GLU:OE2	30:W:96:LEU:HD22	2.01	0.60
31:X:104:LYS:HG3	31:X:116:ALA:HB1	1.83	0.60
33:Z:449:ALA:HA	33:Z:452:LEU:HB2	1.82	0.60
33:Z:839:SER:HB3	33:Z:845:LEU:HD13	1.81	0.60
2:2:234:ASP:OD2	2:2:236:ASN:HB2	2.01	0.60
3:3:44:TYR:CE2	3:3:46:ALA:HA	2.36	0.60
4:4:65:ARG:NH1	9:B:224:TYR:CZ	2.69	0.60
7:7:156:LYS:HA	7:7:196:ARG:HD2	1.82	0.60
1:8:142:TYR:HE1	1:8:152:ARG:HB2	1.66	0.60
8:A:48:LYS:HD2	8:A:195:ASN:OD1	2.01	0.60
8:A:197:GLU:OE1	8:A:197:GLU:N	2.35	0.60
10:C:135:PHE:HB2	10:C:137:TYR:CZ	2.36	0.60
12:E:165:TYR:HB3	13:F:58:SER:H	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:15:PHE:HZ	13:F:126:ARG:NH1	2.51	0.60
17:J:71:TYR:HD2	17:J:115:LEU:HD23	1.65	0.60
17:J:251:ASP:CG	17:J:293:ALA:H	2.05	0.60
18:K:150:LEU:HD11	19:L:128:ILE:HD11	1.83	0.60
18:K:341:PRO:O	18:K:344:ARG:NH1	2.28	0.60
18:K:363:ALA:HB3	18:K:403:LEU:HA	1.83	0.60
18:K:240:SER:HB3	19:L:303:ARG:HA	1.83	0.60
21:N:256:GLN:HA	21:N:259:PHE:HB2	1.83	0.60
21:N:273:LEU:O	21:N:277:LEU:N	2.28	0.60
21:N:69:TYR:HA	21:N:72:LEU:HB2	1.82	0.60
21:N:742:TRP:HD1	21:N:745:LEU:HG	1.65	0.60
21:N:900:ASN:OD1	21:N:901:GLY:N	2.34	0.60
22:O:98:TYR:HA	22:O:101:ASP:H	1.66	0.60
22:O:169:ASN:ND2	22:O:203:THR:OG1	2.34	0.60
23:P:300:VAL:HA	23:P:303:PHE:CE2	2.37	0.60
24:Q:356:CYS:HA	24:Q:398:TYR:HA	1.83	0.60
24:Q:42:ALA:HA	24:Q:51:ARG:HD3	1.81	0.60
24:Q:79:PRO:O	24:Q:127:ARG:NH2	2.32	0.60
26:S:144:LEU:HB3	26:S:152:LEU:HD22	1.82	0.60
28:U:195:LYS:HE3	29:V:230:TYR:N	2.17	0.60
29:V:54:LEU:HB3	29:V:102:GLN:HB2	1.82	0.60
29:V:126:GLN:O	29:V:129:PHE:N	2.30	0.60
29:V:37:MET:CE	29:V:68:VAL:HG22	2.31	0.60
30:W:110:ILE:N	30:W:138:ALA:O	2.34	0.60
30:W:140:ASP:HA	30:W:170:HIS:O	2.01	0.60
33:Z:464:ASP:HB2	33:Z:469:PRO:HG3	1.82	0.60
33:Z:497:PHE:CE2	33:Z:502:ASN:HB3	2.35	0.60
33:Z:985:LYS:HG3	33:Z:990:ARG:HA	1.82	0.60
1:1:30:THR:OG1	1:1:161:ALA:N	2.32	0.60
7:7:229:LEU:HD21	7:7:263:HIS:CD2	2.36	0.60
11:D:83:ARG:HA	11:D:86:ILE:HD12	1.84	0.60
16:I:194:ILE:HG13	16:I:236:VAL:HB	1.82	0.60
18:K:148:ASP:OD1	18:K:149:ILE:N	2.34	0.60
18:K:300:LEU:HD21	18:K:328:LEU:HG	1.84	0.60
19:L:379:ALA:HB1	19:L:419:VAL:HG21	1.82	0.60
19:L:88:TYR:HA	20:M:33:ARG:HH21	1.63	0.60
21:N:875:LEU:HB3	21:N:878:GLN:H	1.64	0.60
21:N:889:ARG:HB3	21:N:909:GLU:HB2	1.82	0.60
22:O:126:ILE:O	22:O:130:ASP:N	2.28	0.60
22:O:40:GLN:HG3	22:O:58:ARG:HG3	1.82	0.60
23:P:130:ILE:HG12	23:P:132:VAL:HG23	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:222:ASN:C	23:P:226:LYS:NZ	2.54	0.60
24:Q:183:LYS:O	24:Q:187:LYS:N	2.24	0.60
24:Q:427:PHE:CE1	25:R:420:ALA:HB2	2.36	0.60
25:R:34:THR:HA	25:R:70:TYR:CG	2.35	0.60
27:T:89:TYR:CE1	27:T:102:LYS:HB3	2.35	0.60
27:T:27:LEU:HB2	27:T:28:PRO:HD3	1.84	0.60
26:S:204:ASP:CB	27:T:92:ASN:HD21	2.15	0.60
28:U:75:ASN:HA	28:U:78:GLU:OE1	2.01	0.60
29:V:238:LEU:H	29:V:241:THR:HG1	1.46	0.60
29:V:277:LYS:O	29:V:277:LYS:HG3	2.00	0.60
30:W:12:ASN:HA	30:W:16:SER:HB2	1.83	0.60
33:Z:435:GLN:HE22	33:Z:438:LYS:NZ	1.99	0.60
33:Z:512:ILE:HG22	33:Z:523:ALA:HB2	1.83	0.60
2:2:151:GLY:O	2:2:159:PHE:N	2.32	0.60
3:3:167:LYS:HE2	3:3:196:VAL:HG11	1.83	0.60
7:7:179:TYR:CE1	7:7:257:GLU:HB2	2.37	0.60
7:7:94:ARG:HB2	7:7:247:GLY:C	2.21	0.60
2:9:49:TYR:CE1	2:9:203:VAL:HG22	2.36	0.60
3:3:138:VAL:O	2:9:94:GLN:NE2	2.33	0.60
8:A:30:TYR:HA	8:A:33:LYS:HG2	1.83	0.60
9:B:77:GLY:HA3	9:B:132:VAL:HG12	1.84	0.60
11:D:234:THR:HA	11:D:237:GLU:OE1	2.01	0.60
12:E:45:GLY:HA2	12:E:153:TYR:CZ	2.36	0.60
12:E:240:ILE:CA	12:E:243:LEU:CD2	2.79	0.60
3:3:89:TYR:HE2	14:G:115:ARG:NH2	2.00	0.60
16:I:244:PHE:HA	16:I:278:ILE:HB	1.84	0.60
17:J:187:LEU:HB2	17:J:293:ALA:HB1	1.83	0.60
19:L:255:TYR:HD2	19:L:258:GLU:HG2	1.65	0.60
20:M:276:THR:O	20:M:322:LYS:N	2.34	0.60
20:M:35:LYS:O	20:M:70:LYS:N	2.34	0.60
21:N:492:THR:HG22	21:N:528:ARG:HG2	1.84	0.60
22:O:267:ASP:HA	22:O:270:ILE:HG23	1.84	0.60
23:P:425:HIS:O	23:P:429:ILE:N	2.30	0.60
24:Q:282:LEU:HD22	24:Q:296:ILE:HG23	1.83	0.60
25:R:168:ILE:HG23	25:R:209:ARG:NH1	2.15	0.60
25:R:37:LYS:HG2	25:R:42:GLN:HE22	1.66	0.60
26:S:403:SER:OG	26:S:404:LEU:N	2.35	0.60
26:S:442:PHE:O	26:S:444:GLU:HG3	2.00	0.60
27:T:164:LEU:O	27:T:170:ASN:ND2	2.32	0.60
27:T:264:MET:O	27:T:268:ILE:N	2.33	0.60
30:W:143:ASN:HD21	30:W:149:GLN:N	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:224:LEU:HD21	33:Z:233:LEU:HB2	1.82	0.60
1:1:40:ALA:O	1:1:226:VAL:N	2.35	0.60
4:4:31:THR:HA	4:4:157:GLY:HA3	1.83	0.60
7:7:195:THR:HG22	7:7:197:LEU:HD21	1.84	0.60
3:3:137:SER:N	2:9:91:SER:HB3	2.17	0.60
9:B:190:HIS:HA	9:B:193:LEU:HD12	1.83	0.60
10:C:173:GLN:NE2	10:C:177:GLN:OE1	2.34	0.60
1:1:101:LYS:HD2	12:E:108:ASN:HD21	109.60	0.60
13:F:171:TYR:HA	13:F:174:ARG:HB3	1.83	0.60
13:F:88:LEU:O	13:F:91:GLN:N	2.34	0.60
14:G:178:LYS:O	14:G:182:HIS:N	2.28	0.60
14:G:68:GLN:NE2	14:G:86:ARG:NH1	2.49	0.60
14:G:91:ARG:HG2	14:G:119:TYR:CE2	2.37	0.60
15:H:326:ASP:OD1	16:I:295:ASN:ND2	2.34	0.60
16:I:228:GLY:HA3	16:I:350:PHE:CG	2.36	0.60
18:K:213:GLY:N	18:K:318:THR:O	2.27	0.60
19:L:402:ALA:O	19:L:407:ARG:N	2.28	0.60
21:N:426:ILE:O	21:N:429:GLU:HB3	2.00	0.60
21:N:496:GLU:HA	21:N:499:HIS:HD1	1.66	0.60
22:O:236:HIS:O	22:O:238:ILE:N	2.29	0.60
23:P:124:VAL:O	23:P:136:ARG:HB3	2.01	0.60
25:R:312:TYR:O	25:R:316:LEU:N	2.33	0.60
25:R:380:VAL:HA	26:S:398:THR:HG22	1.83	0.60
25:R:382:ASP:OD1	25:R:384:VAL:N	2.34	0.60
27:T:126:LEU:O	27:T:129:LEU:HB3	2.01	0.60
25:R:407:GLY:HA3	28:U:281:LEU:HD13	1.82	0.60
33:Z:551:LEU:HD11	33:Z:586:GLU:OE2	2.01	0.60
33:Z:793:PHE:CG	33:Z:830:LEU:HB2	2.37	0.60
1:1:170:ASP:O	1:1:175:PHE:N	2.34	0.60
4:4:195:ASP:OD2	4:4:198:SER:OG	2.19	0.60
1:8:40:ALA:O	1:8:226:VAL:N	2.35	0.60
8:A:71:TYR:N	8:A:224:GLU:OE2	2.35	0.60
12:E:166:ARG:HB3	13:F:58:SER:HB3	1.83	0.60
13:F:121:GLN:NE2	14:G:130:ARG:O	3.22	0.60
14:G:158:TRP:HB2	14:G:160:TYR:CE1	2.37	0.60
15:H:387:ASN:HA	15:H:390:ARG:NH1	2.16	0.60
18:K:255:ARG:HA	18:K:302:GLN:NE2	2.17	0.60
20:M:411:LYS:HG3	20:M:414:ASP:H	1.66	0.60
21:N:376:LYS:NZ	21:N:750:SER:O	2.35	0.60
21:N:624:ALA:HA	21:N:627:ILE:HD12	1.83	0.60
22:O:79:VAL:HA	22:O:83:LEU:HB2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:147:LYS:HG2	23:P:152:LYS:HD2	1.83	0.60
23:P:247:THR:O	23:P:250:ILE:HB	2.01	0.60
23:P:91:LEU:HB3	23:P:95:TYR:CE2	2.37	0.60
25:R:80:GLU:HB3	25:R:94:PHE:CD2	2.35	0.60
26:S:258:GLU:N	26:S:258:GLU:OE1	2.32	0.60
28:U:225:ILE:O	28:U:228:LYS:HB3	2.00	0.60
23:P:419:VAL:HG21	29:V:241:THR:HB	1.83	0.60
29:V:89:ALA:HA	29:V:92:MET:HB2	1.84	0.60
30:W:6:THR:N	30:W:48:THR:O	2.35	0.60
33:Z:135:LEU:HD12	33:Z:138:ARG:HB3	1.83	0.60
33:Z:369:PHE:CD2	33:Z:859:LYS:CE	2.75	0.60
1:1:128:THR:HG22	1:1:144:PHE:HB2	1.83	0.60
5:5:88:THR:HG23	5:5:124:PHE:HZ	1.65	0.60
2:9:234:ASP:OD2	2:9:236:ASN:HB2	2.01	0.60
8:A:147:ASP:N	8:A:151:GLY:O	2.26	0.60
9:B:31:GLY:O	9:B:166:LYS:N	2.33	0.60
13:F:137:TYR:CE1	13:F:218:LYS:HA	2.37	0.60
13:F:77:LEU:HD12	13:F:129:GLY:HA3	1.83	0.60
14:G:9:ASP:HB3	14:G:22:PHE:HD2	1.66	0.60
15:H:340:LEU:O	15:H:346:ARG:NH1	2.35	0.60
16:I:123:PRO:HG3	17:J:92:GLY:HA3	1.83	0.60
16:I:198:VAL:HA	16:I:323:LYS:HG3	1.83	0.60
19:L:421:LYS:HE3	20:M:345:ARG:NH1	2.16	0.60
21:N:242:PHE:HA	21:N:245:LEU:HB3	1.82	0.60
21:N:398:ARG:O	21:N:402:GLY:N	2.34	0.60
23:P:110:LEU:HA	23:P:113:ASN:HB2	1.84	0.60
24:Q:159:ASN:HA	24:Q:162:LEU:HD12	1.84	0.60
24:Q:275:ILE:C	24:Q:279:LYS:HZ3	2.04	0.60
25:R:107:GLU:O	25:R:111:LYS:N	2.24	0.60
25:R:176:ARG:HG2	25:R:243:LEU:HD21	1.82	0.60
26:S:140:LEU:HD23	26:S:162:VAL:HG21	1.83	0.60
26:S:269:GLU:O	26:S:272:TYR:HB3	2.00	0.60
26:S:330:LEU:HA	26:S:333:PHE:HD1	1.67	0.60
26:S:399:TYR:CE2	26:S:401:LYS:HB2	2.37	0.60
27:T:146:ILE:HG23	27:T:147:LYS:H	1.66	0.60
27:T:152:LEU:HA	27:T:157:TYR:CE1	2.36	0.60
22:O:385:GLU:HB3	28:U:190:LEU:HD23	1.81	0.60
26:S:472:HIS:CE1	28:U:283:ARG:NH1	2.70	0.60
28:U:52:PHE:HE2	28:U:80:CYS:SG	2.25	0.60
24:Q:422:VAL:HB	29:V:265:GLU:OE2	2.02	0.60
31:X:25:THR:HB	31:X:26:PRO:HD2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:388:GLY:HA3	33:Z:421:SER:HB2	1.82	0.60
33:Z:391:ASN:CG	33:Z:396:ASN:HB2	2.21	0.60
1:1:145:ASP:N	1:1:149:SER:O	2.31	0.60
1:1:27:ASN:ND2	2:2:168:VAL:HG11	2.16	0.60
2:2:49:TYR:CE1	2:2:203:VAL:HG22	2.36	0.60
2:2:44:VAL:O	2:2:177:THR:N	2.35	0.60
5:5:20:CYS:HA	5:5:112:ILE:HD11	1.82	0.60
6:6:52:ASP:N	7:7:166:LYS:NZ	2.50	0.60
7:7:76:THR:HA	7:7:92:ASP:OD2	2.01	0.60
1:8:200:ILE:O	1:8:204:ARG:HG3	2.02	0.60
9:B:1:MET:HG3	14:G:129:VAL:HG12	1.83	0.60
12:E:123:PHE:HB3	12:E:134:MET:HE2	1.83	0.60
11:D:122:GLN:HB2	12:E:134:MET:HG3	1.83	0.60
14:G:198:LYS:HZ1	14:G:199:ILE:CG1	2.34	0.60
14:G:91:ARG:HA	14:G:94:GLU:CD	2.22	0.60
15:H:385:ARG:O	15:H:389:PHE:N	2.19	0.60
15:H:389:PHE:CD1	15:H:419:LEU:HB3	2.37	0.60
15:H:69:VAL:HG13	16:I:153:THR:HB	1.83	0.60
16:I:197:SER:HB3	16:I:346:ARG:HG3	1.83	0.60
17:J:116:ARG:HB3	17:J:119:SER:HB2	1.84	0.60
18:K:280:LYS:HD3	18:K:296:LEU:HD23	1.83	0.60
21:N:180:SER:HB3	21:N:184:LYS:HE3	1.84	0.60
22:O:254:LEU:O	22:O:258:LEU:HG	2.01	0.60
22:O:341:ILE:HB	23:P:357:TYR:CD1	2.37	0.60
23:P:383:LEU:O	23:P:387:GLY:N	2.35	0.60
23:P:397:ALA:HB1	23:P:399:ILE:HB	1.84	0.60
24:Q:76:GLU:HA	24:Q:120:LYS:NZ	2.17	0.60
24:Q:134:LYS:HA	24:Q:137:LEU:HD12	1.83	0.60
24:Q:304:GLU:O	24:Q:308:ASN:N	2.26	0.60
25:R:31:PHE:CE1	25:R:320:LYS:HA	2.36	0.60
26:S:13:SER:HA	26:S:16:ASN:HB2	1.84	0.60
21:N:70:TYR:CE2	26:S:219:LYS:HA	2.37	0.60
26:S:217:PHE:CE2	26:S:221:ALA:HB2	2.37	0.60
28:U:205:LYS:HG2	28:U:209:GLU:HG3	1.83	0.60
28:U:84:ASN:O	28:U:87:GLU:HG2	2.01	0.60
28:U:126:LYS:C	29:V:208:LYS:NZ	2.53	0.60
30:W:52:ILE:HA	30:W:61:VAL:HA	1.84	0.60
33:Z:474:LEU:HD21	33:Z:492:GLY:HA3	1.84	0.60
1:1:119:LYS:HD3	1:1:124:TYR:CD2	2.37	0.60
1:1:200:ILE:O	1:1:204:ARG:HG3	2.02	0.60
2:2:204:GLN:H	2:2:204:GLN:CD	2.04	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:89:TYR:HE2	14:G:115:ARG:HH21	1.50	0.60
4:4:93:GLU:OE1	9:B:104:TYR:OH	2.19	0.60
5:5:118:LYS:NZ	5:5:119:PRO:O	2.35	0.60
7:7:201:ILE:HD11	7:7:219:TYR:CD2	2.37	0.60
1:8:225:ILE:O	1:8:232:ARG:N	2.21	0.60
2:9:204:GLN:CD	2:9:204:GLN:H	2.04	0.60
9:B:243:ILE:O	9:B:247:LEU:N	2.32	0.60
11:D:169:LYS:O	11:D:173:GLU:HG2	2.02	0.60
12:E:69:GLU:HB2	12:E:228:PHE:CD2	2.37	0.60
12:E:241:LYS:NZ	12:E:245:GLU:OE2	2.33	0.60
13:F:12:THR:HA	14:G:23:GLN:NE2	2.17	0.60
13:F:72:LEU:HD13	13:F:132:LEU:HD22	1.84	0.60
15:H:271:PHE:CE2	15:H:273:ARG:HB2	2.37	0.60
17:J:198:LEU:HD11	17:J:316:PHE:CE2	2.36	0.60
18:K:172:ALA:HA	18:K:181:LYS:HZ3	1.66	0.60
18:K:51:LEU:HA	18:K:54:LEU:HB2	1.83	0.60
19:L:306:MET:O	19:L:310:THR:N	2.25	0.60
19:L:364:HIS:HB3	19:L:392:ARG:HG2	1.84	0.60
20:M:277:ILE:HA	20:M:322:LYS:HB2	1.84	0.60
20:M:377:GLN:CB	20:M:381:ARG:HH12	2.02	0.60
15:H:155:PHE:CD1	20:M:76:PRO:HG2	2.37	0.60
21:N:325:PHE:CD2	29:V:184:ASN:HB2	2.36	0.60
21:N:337:GLY:O	21:N:341:ALA:N	2.35	0.60
21:N:512:ASN:HA	21:N:515:ARG:NH1	2.16	0.60
23:P:308:LEU:HD22	23:P:346:ILE:HA	1.82	0.60
23:P:395:ARG:NH2	24:Q:365:ILE:HD11	2.17	0.60
23:P:395:ARG:O	23:P:398:LYS:N	2.34	0.60
26:S:177:ASN:HD22	26:S:228:GLU:HG2	1.67	0.60
26:S:383:LEU:HD23	26:S:386:ASN:ND2	2.11	0.60
26:S:436:ILE:HG12	26:S:443:ILE:HG23	1.84	0.60
27:T:91:SER:OG	27:T:92:ASN:N	2.34	0.60
29:V:241:THR:HG21	29:V:297:THR:HG21	1.73	0.60
29:V:53:MET:O	29:V:105:VAL:HG22	2.01	0.60
33:Z:801:HIS:HD2	33:Z:808:SER:HB2	1.66	0.60
1:1:95:HIS:O	1:1:100:ASP:N	2.23	0.59
4:4:68:PRO:HA	9:B:224:TYR:CD2	2.36	0.59
1:8:170:ASP:O	1:8:175:PHE:N	2.34	0.59
8:A:54:ILE:HG23	8:A:225:VAL:HG22	1.83	0.59
10:C:16:GLU:HB3	11:D:29:ARG:HH22	1.67	0.59
10:C:160:TRP:HA	11:D:55:GLN:HA	1.83	0.59
13:F:39:ARG:N	13:F:157:TYR:O	2.29	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:15:PHE:N	13:F:21:GLN:OE1	2.29	0.59
15:H:102:CYS:HB3	15:H:170:GLU:HB2	1.83	0.59
15:H:144:LYS:H	20:M:75:LEU:H	1.50	0.59
18:K:357:ALA:HB3	18:K:368:LEU:HD11	1.84	0.59
19:L:189:GLN:NE2	19:L:348:GLU:HG3	2.17	0.59
20:M:121:THR:OG1	20:M:125:GLN:N	2.35	0.59
21:N:763:GLY:H	21:N:907:ASP:N	2.00	0.59
22:O:185:PHE:HD1	22:O:188:PHE:CD2	2.20	0.59
22:O:190:TYR:O	22:O:194:LEU:N	2.19	0.59
23:P:59:LEU:HA	23:P:62:ILE:HD12	1.84	0.59
24:Q:179:LEU:HD22	24:Q:214:THR:HG23	1.83	0.59
26:S:465:ILE:HG21	27:T:260:ILE:HG23	1.83	0.59
31:X:11:ARG:HB3	31:X:103:GLU:HB2	1.84	0.59
33:Z:353:VAL:HA	33:Z:356:ASP:HB2	1.83	0.59
33:Z:970:TYR:HE1	33:Z:985:LYS:HZ3	1.50	0.59
1:1:21:PHE:CD1	2:2:142:PRO:HG3	2.37	0.59
3:3:172:ASP:HA	3:3:175:LYS:HB3	1.85	0.59
10:C:175:LEU:HB3	10:C:199:LYS:HZ1	1.76	0.59
12:E:180:GLN:NE2	13:F:56:LEU:HD22	2.40	0.59
14:G:52:LYS:N	14:G:213:GLU:O	2.25	0.59
16:I:384:LYS:HE2	16:I:387:LEU:HD12	1.83	0.59
18:K:139:LEU:HA	18:K:145:ALA:O	2.02	0.59
18:K:371:LEU:HA	18:K:374:ARG:HB2	1.83	0.59
19:L:418:ALA:O	19:L:422:VAL:N	2.34	0.59
20:M:127:VAL:HG11	20:M:153:TYR:CG	2.37	0.59
20:M:375:ASN:HD21	20:M:377:GLN:HE21	1.48	0.59
20:M:392:LYS:O	20:M:396:VAL:N	2.24	0.59
20:M:410:VAL:HG12	20:M:415:PHE:CE2	2.37	0.59
21:N:212:ASP:HA	21:N:215:MET:HB3	1.84	0.59
22:O:289:GLN:OE1	22:O:327:LEU:HB3	2.02	0.59
23:P:284:ILE:HG23	23:P:285:GLN:H	1.67	0.59
23:P:363:LEU:O	23:P:367:GLU:N	2.23	0.59
24:Q:162:LEU:O	24:Q:166:LYS:N	2.35	0.59
24:Q:379:GLN:NE2	24:Q:383:ASP:OD1	2.35	0.59
25:R:168:ILE:CG2	25:R:206:ARG:HE	2.15	0.59
25:R:34:THR:HA	25:R:70:TYR:CD1	2.37	0.59
25:R:61:PRO:O	25:R:64:LYS:HB3	2.01	0.59
26:S:155:LEU:HA	26:S:158:PHE:HB2	1.83	0.59
26:S:368:LYS:HA	26:S:371:LEU:HD12	1.84	0.59
27:T:78:PHE:HE2	27:T:109:TYR:HB2	1.66	0.59
28:U:11:ALA:O	28:U:14:VAL:HB	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:263:LYS:HD2	28:U:264:ALA:H	1.66	0.59
31:X:13:GLY:HA3	31:X:29:VAL:O	2.01	0.59
33:Z:382:ALA:HA	33:Z:385:PHE:CD2	2.37	0.59
33:Z:418:ALA:O	33:Z:421:SER:OG	2.17	0.59
33:Z:790:MET:HG2	33:Z:826:ARG:O	2.02	0.59
7:7:275:VAL:O	7:7:279:GLU:N	2.34	0.59
9:B:12:PHE:H	10:C:21:GLN:NE2	2.00	0.59
9:B:13:SER:N	9:B:17:LYS:O	2.28	0.59
11:D:104:VAL:HG21	11:D:109:LEU:HB2	1.84	0.59
11:D:31:THR:HA	11:D:166:ARG:HG2	1.83	0.59
11:D:15:GLY:HA2	12:E:26:TYR:HB3	1.84	0.59
13:F:215:ILE:HG22	13:F:225:TYR:CE2	2.37	0.59
15:H:389:PHE:HB3	15:H:404:TRP:CE3	2.37	0.59
15:H:406:LEU:CA	15:H:409:ARG:HH11	2.15	0.59
16:I:184:ILE:CG2	16:I:231:LEU:HB3	2.32	0.59
17:J:31:GLU:HG3	18:K:55:GLU:CD	2.23	0.59
17:J:346:VAL:HG11	17:J:382:PHE:HB3	1.83	0.59
20:M:358:ALA:HA	20:M:361:LEU:HB3	1.83	0.59
21:N:614:ASN:ND2	21:N:617:VAL:HG23	2.17	0.59
22:O:68:LYS:HB3	22:O:72:LYS:HB2	1.84	0.59
22:O:44:SER:OG	22:O:73:ILE:HG12	2.02	0.59
23:P:180:ILE:HA	23:P:183:GLN:OE1	2.02	0.59
23:P:263:HIS:HA	23:P:266:TYR:HB3	1.83	0.59
24:Q:348:CYS:HA	24:Q:351:ILE:HG12	1.84	0.59
24:Q:70:ALA:HB1	24:Q:73:LYS:HD2	1.85	0.59
26:S:408:CYS:SG	26:S:419:VAL:HG11	2.42	0.59
26:S:482:PRO:CG	28:U:295:LYS:HB3	2.32	0.59
32:Y:65:ASP:N	32:Y:67:VAL:H	1.98	0.59
33:Z:451:ALA:HB1	33:Z:455:ILE:HG13	1.83	0.59
1:1:142:TYR:HE1	1:1:152:ARG:HB2	1.66	0.59
4:4:88:ILE:HG13	4:4:112:LEU:HD23	1.84	0.59
2:9:104:VAL:O	2:9:108:ALA:N	2.29	0.59
9:B:49:LYS:N	9:B:208:THR:O	2.31	0.59
9:B:14:PRO:HA	10:C:24:TYR:CZ	2.37	0.59
11:D:162:GLN:HE22	11:D:172:ARG:NE	2.01	0.59
15:H:306:ILE:N	15:H:350:LYS:O	2.35	0.59
16:I:359:LYS:O	16:I:363:GLY:N	2.26	0.59
17:J:252:SER:HB3	17:J:257:ARG:NH1	2.17	0.59
19:L:386:PHE:HE2	19:L:419:VAL:HG13	1.66	0.59
20:M:145:LEU:CB	20:M:159:LEU:HB2	2.32	0.59
20:M:182:ASP:HB3	20:M:230:LEU:HD13	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:228:LYS:HG2	20:M:349:PHE:CG	2.37	0.59
21:N:43:LEU:O	21:N:47:GLU:N	2.32	0.59
21:N:773:MET:N	21:N:869:ASP:OD2	2.35	0.59
22:O:255:LEU:HA	22:O:258:LEU:HD12	1.83	0.59
22:O:310:PHE:HE2	22:O:343:GLN:HA	1.67	0.59
23:P:233:GLU:O	23:P:237:VAL:HG23	2.02	0.59
24:Q:11:ALA:HA	24:Q:23:ALA:HB1	1.83	0.59
24:Q:246:TYR:CE2	24:Q:261:VAL:HG21	2.38	0.59
24:Q:415:LEU:HB3	24:Q:419:LEU:HD11	1.83	0.59
27:T:86:LYS:O	27:T:90:PHE:N	2.29	0.59
28:U:165:GLU:H	29:V:42:ARG:HH22	1.51	0.59
22:O:15:ARG:CD	30:W:144:PHE:HE2	2.15	0.59
30:W:38:GLN:O	30:W:42:ASN:N	2.34	0.59
33:Z:218:GLU:OE2	33:Z:248:TYR:HD2	1.85	0.59
33:Z:621:LEU:O	33:Z:625:THR:N	2.34	0.59
1:1:41:VAL:HG21	1:1:199:VAL:HG11	1.85	0.59
2:2:151:GLY:N	2:2:159:PHE:O	2.35	0.59
2:2:219:TYR:CD2	4:4:168:GLU:HB3	2.38	0.59
4:4:243:LYS:HB3	5:5:199:TYR:CD2	2.36	0.59
1:8:41:VAL:HG21	1:8:199:VAL:HG11	1.85	0.59
8:A:135:ARG:NH1	14:G:15:PHE:HZ	2.65	0.59
8:A:243:GLU:CD	8:A:244:ARG:NH1	2.73	0.59
11:D:71:VAL:HG11	11:D:109:LEU:HD13	1.85	0.59
1:1:98:HIS:HA	12:E:111:SER:OG	107.96	0.59
15:H:167:ASP:CB	15:H:174:VAL:HG11	2.31	0.59
15:H:273:ARG:HG3	15:H:307:PHE:HD2	1.67	0.59
15:H:402:ILE:HB	15:H:440:GLU:OE1	2.02	0.59
16:I:137:ASP:OD2	16:I:139:GLU:HB2	2.01	0.59
16:I:423:VAL:HA	17:J:306:ARG:HH11	1.66	0.59
18:K:155:ASP:HB3	19:L:142:LYS:NZ	2.17	0.59
19:L:222:GLY:O	19:L:228:LYS:NZ	2.35	0.59
19:L:67:HIS:HE1	20:M:4:LEU:HB2	1.67	0.59
21:N:314:LEU:HD22	21:N:339:MET:SD	2.43	0.59
21:N:520:GLY:HA2	21:N:523:LEU:HD12	1.84	0.59
22:O:87:LYS:HZ1	22:O:138:LEU:HD13	1.66	0.59
25:R:176:ARG:HG3	25:R:243:LEU:HD11	1.83	0.59
25:R:336:LYS:NZ	25:R:340:GLN:HE22	2.00	0.59
26:S:320:ILE:O	26:S:323:LEU:N	2.35	0.59
26:S:355:GLY:HA3	26:S:387:VAL:HB	1.85	0.59
27:T:104:LYS:NZ	27:T:169:GLN:CD	2.55	0.59
27:T:221:ALA:O	27:T:226:TRP:N	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:66:ALA:HB2	27:T:81:TYR:HB2	1.84	0.59
27:T:69:SER:HB2	27:T:74:ASN:HB3	1.84	0.59
28:U:132:LEU:N	29:V:215:ASN:HD21	2.01	0.59
33:Z:419:VAL:O	33:Z:422:ILE:HB	2.02	0.59
33:Z:486:SER:O	33:Z:490:ILE:N	2.21	0.59
33:Z:516:THR:HG23	33:Z:562:TRP:CD2	2.37	0.59
5:5:50:PHE:CZ	5:5:195:VAL:HG21	2.37	0.59
2:9:58:ASP:HB2	2:9:225:SER:HB3	1.84	0.59
11:D:123:SER:C	12:E:135:SER:HB3	2.22	0.59
11:D:12:SER:O	11:D:15:GLY:N	2.34	0.59
12:E:71:ASP:OD2	12:E:73:HIS:ND1	2.36	0.59
14:G:109:ILE:HG12	14:G:142:ASP:HB3	1.85	0.59
2:9:251:LYS:HE2	16:I:172:LYS:HA	129.22	0.59
18:K:132:LYS:HD2	18:K:149:ILE:HD13	1.85	0.59
18:K:158:ILE:HG23	18:K:242:PHE:CE1	2.37	0.59
19:L:374:PHE:CE2	19:L:415:LEU:HD13	2.37	0.59
20:M:148:VAL:HG22	20:M:155:ILE:HA	1.83	0.59
21:N:352:ASN:HB3	21:N:355:TRP:HB2	1.83	0.59
21:N:459:ASN:N	21:N:488:CYS:SG	2.75	0.59
23:P:221:TYR:HA	23:P:224:LEU:HB3	1.83	0.59
23:P:416:SER:O	23:P:419:VAL:HB	2.03	0.59
25:R:421:VAL:HG12	25:R:422:ARG:H	1.67	0.59
27:T:85:LEU:HD21	27:T:102:LYS:HG2	1.84	0.59
29:V:257:GLU:HG2	29:V:283:THR:HG22	1.85	0.59
31:X:120:GLU:O	31:X:124:LYS:HG2	2.02	0.59
31:X:87:PHE:O	31:X:98:PHE:HA	2.03	0.59
31:X:87:PHE:HD2	31:X:99:PHE:HD2	1.51	0.59
33:Z:318:LYS:O	33:Z:322:GLU:N	2.35	0.59
33:Z:509:LEU:HB2	33:Z:530:LEU:HD11	1.85	0.59
2:2:58:ASP:HB2	2:2:225:SER:HB3	1.84	0.59
4:4:127:LEU:O	4:4:142:ILE:N	2.36	0.59
1:8:119:LYS:HD3	1:8:124:TYR:CD2	2.37	0.59
13:F:123:TYR:CD2	14:G:128:SER:HB2	2.37	0.59
14:G:152:GLU:N	14:G:156:SER:O	2.31	0.59
14:G:71:ASP:OD2	14:G:73:HIS:ND1	2.36	0.59
16:I:242:ALA:HB3	16:I:278:ILE:HG12	1.83	0.59
18:K:207:ARG:NH2	18:K:306:PHE:HB2	2.17	0.59
19:L:149:ASP:OD2	19:L:151:THR:N	2.33	0.59
20:M:132:VAL:HG21	20:M:155:ILE:HB	1.84	0.59
20:M:417:GLU:HA	20:M:420:SER:HB2	1.85	0.59
20:M:386:PHE:HZ	20:M:423:GLN:HB2	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:309:ILE:O	21:N:711:ARG:NH2	2.35	0.59
21:N:626:GLY:HA2	21:N:663:ILE:HD11	1.84	0.59
21:N:880:ARG:NH2	21:N:899:ASN:OD1	2.36	0.59
23:P:134:VAL:O	23:P:138:ARG:NE	2.34	0.59
23:P:63:VAL:O	23:P:67:ALA:N	2.22	0.59
24:Q:99:THR:O	24:Q:103:LYS:HG2	2.03	0.59
24:Q:388:GLY:N	24:Q:400:TYR:HB3	2.18	0.59
26:S:12:SER:O	26:S:16:ASN:N	2.26	0.59
26:S:238:LEU:HA	26:S:241:PHE:HD2	1.67	0.59
26:S:397:LEU:HB3	26:S:445:THR:HB	1.84	0.59
26:S:399:TYR:HB3	26:S:401:LYS:O	2.02	0.59
26:S:417:GLN:H	26:S:419:VAL:HG23	1.67	0.59
26:S:400:LYS:O	26:S:445:THR:N	2.35	0.59
27:T:224:ARG:HB3	27:T:226:TRP:NE1	2.17	0.59
27:T:82:PHE:HA	27:T:85:LEU:HB3	1.85	0.59
28:U:32:ARG:HA	28:U:95:SER:HB2	1.84	0.59
29:V:108:TYR:CB	29:V:139:VAL:HB	2.32	0.59
30:W:107:HIS:NE2	30:W:136:ASN:O	2.35	0.59
30:W:179:ARG:HB3	30:W:184:ASN:HD21	1.68	0.59
31:X:14:VAL:HG23	31:X:50:TRP:CD1	2.38	0.59
33:Z:792:VAL:HA	33:Z:795:THR:HB	1.83	0.59
2:2:127:GLU:HG2	13:F:100:ASN:N	84.31	0.59
5:5:161:GLU:N	5:5:161:GLU:OE1	2.34	0.59
9:B:175:LEU:O	9:B:179:TRP:N	2.32	0.59
10:C:186:VAL:O	10:C:190:ILE:N	2.27	0.59
10:C:124:GLN:HA	11:D:127:ARG:NE	2.17	0.59
15:H:247:LEU:HD21	15:H:358:PRO:HA	1.84	0.59
15:H:257:THR:HG21	15:H:273:ARG:HH11	1.68	0.59
15:H:280:VAL:HG23	15:H:314:VAL:HG12	1.85	0.59
15:H:406:LEU:HA	15:H:409:ARG:HD2	1.85	0.59
16:I:107:GLY:HA3	16:I:149:LEU:HD12	1.82	0.59
16:I:252:LEU:HD12	16:I:253:ILE:H	1.68	0.59
16:I:299:GLU:OE2	16:I:301:GLU:HB3	2.02	0.59
18:K:281:ARG:HD3	18:K:293:GLN:NE2	2.18	0.59
18:K:281:ARG:HD3	18:K:293:GLN:CD	2.23	0.59
18:K:326:PRO:O	18:K:330:ARG:N	2.35	0.59
19:L:93:ASN:O	19:L:97:ALA:N	2.27	0.59
21:N:743:PHE:O	21:N:745:LEU:N	2.35	0.59
21:N:761:ILE:O	21:N:769:PRO:HD2	2.02	0.59
22:O:126:ILE:HA	22:O:129:ILE:HB	1.85	0.59
23:P:104:LEU:O	23:P:107:SER:CB	2.49	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:395:ARG:HB2	24:Q:361:HIS:CE1	2.38	0.59
24:Q:19:GLN:HE21	24:Q:22:GLU:H	1.49	0.59
28:U:163:ALA:HA	28:U:164:GLU:HB2	1.84	0.59
33:Z:99:LEU:HD23	33:Z:119:LEU:HD21	1.83	0.59
33:Z:198:GLU:HA	33:Z:201:LEU:HD12	1.85	0.59
5:5:161:GLU:O	5:5:165:GLU:N	2.27	0.59
5:5:65:GLU:HB3	10:C:100:LYS:HG3	1.82	0.59
6:6:117:TYR:CD2	6:6:127:GLU:HB2	2.38	0.59
6:6:165:VAL:HA	6:6:168:LEU:HD12	1.85	0.59
7:7:94:ARG:HA	7:7:104:GLN:HA	1.84	0.59
2:9:246:GLN:HG2	2:9:248:GLU:OE2	2.03	0.59
2:9:77:PRO:HA	2:9:83:VAL:HA	1.85	0.59
10:C:36:ILE:HA	10:C:164:SER:HA	1.85	0.59
11:D:24:LEU:CB	11:D:28:LYS:NZ	2.66	0.59
13:F:137:TYR:HA	13:F:142:ALA:HA	1.85	0.59
16:I:161:GLN:HA	16:I:162:ASP:CG	2.22	0.59
21:N:205:SER:C	21:N:209:LYS:NZ	2.56	0.59
21:N:273:LEU:HA	21:N:276:GLU:HB2	1.85	0.59
22:O:250:TRP:HH2	22:O:271:LYS:HB2	1.68	0.59
22:O:342:ASP:OD2	22:O:345:ASN:HB2	2.03	0.59
23:P:291:LYS:C	23:P:293:LEU:HB3	2.22	0.59
23:P:311:TRP:O	23:P:315:GLN:HG2	2.02	0.59
24:Q:138:SER:HA	24:Q:141:LEU:HB3	1.84	0.59
24:Q:422:VAL:O	24:Q:426:LEU:HG	2.03	0.59
25:R:335:ARG:NH2	25:R:374:ASN:HB2	2.18	0.59
25:R:334:ARG:NH2	25:R:367:ASP:HB2	2.17	0.59
25:R:67:CYS:SG	25:R:92:ILE:HG13	2.43	0.59
29:V:130:GLU:OE1	29:V:157:ARG:HG3	2.02	0.59
30:W:32:SER:O	30:W:35:PHE:HB3	2.03	0.59
33:Z:201:LEU:O	33:Z:205:LEU:N	2.22	0.59
33:Z:298:PHE:CE1	33:Z:307:HIS:HE1	2.20	0.59
33:Z:793:PHE:HB3	33:Z:830:LEU:N	2.18	0.59
2:2:246:GLN:HG2	2:2:248:GLU:OE2	2.03	0.59
3:3:27:PHE:CE2	3:3:29:ASP:HB2	2.38	0.59
3:3:59:LYS:O	3:3:121:TYR:N	2.36	0.59
4:4:36:LYS:HZ1	4:4:138:HIS:HA	1.68	0.59
5:5:18:LYS:HG2	5:5:159:GLU:OE2	2.03	0.59
5:5:72:ASN:O	5:5:76:LEU:N	2.26	0.59
6:6:135:TYR:HA	6:6:138:PHE:CD2	2.38	0.59
8:A:185:HIS:O	8:A:188:LYS:HB3	2.02	0.59
8:A:208:THR:O	8:A:212:ASP:N	2.29	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:176:GLU:HG2	10:C:56:LEU:HD13	1.96	0.59
8:A:126:GLN:NE2	9:B:84:VAL:HG22	2.17	0.59
12:E:177:GLU:HG2	12:E:178:GLY:H	1.68	0.59
13:F:117:GLN:HB2	14:G:83:PRO:HB3	1.85	0.59
15:H:191:ILE:HD12	15:H:289:ARG:HG2	1.84	0.59
17:J:174:PHE:HA	17:J:177:LEU:HB3	1.83	0.59
18:K:411:TYR:O	18:K:415:VAL:N	2.36	0.59
19:L:165:PRO:HB2	19:L:168:TYR:HB2	1.85	0.59
19:L:247:PRO:HA	19:L:281:ASP:HB3	1.84	0.59
20:M:148:VAL:HA	20:M:155:ILE:HA	1.83	0.59
20:M:411:LYS:HE2	20:M:413:GLU:HB3	1.84	0.59
21:N:668:THR:HA	21:N:675:VAL:HG11	1.83	0.59
21:N:767:ALA:O	21:N:917:ILE:N	2.31	0.59
22:O:127:LEU:HD11	22:O:166:ARG:HG3	1.85	0.59
22:O:170:SER:O	22:O:173:SER:OG	2.20	0.59
22:O:382:LYS:HD3	22:O:383:LYS:NZ	2.17	0.59
24:Q:259:CYS:O	24:Q:263:LYS:N	2.28	0.59
24:Q:293:SER:OG	24:Q:296:ILE:HG12	2.03	0.59
25:R:273:SER:H	25:R:276:LEU:HB2	1.68	0.59
25:R:408:ASP:HA	25:R:411:LEU:HD12	1.84	0.59
25:R:70:TYR:CE2	25:R:74:ASN:HB2	2.37	0.59
25:R:96:GLN:O	25:R:100:ASN:ND2	2.35	0.59
26:S:319:CYS:HB3	26:S:379:LEU:HD13	1.84	0.59
26:S:339:GLN:HG2	26:S:340:LYS:H	1.67	0.59
26:S:420:GLU:HG2	26:S:438:HIS:CE1	2.37	0.59
29:V:110:SER:O	29:V:112:PRO:HD3	2.03	0.59
29:V:289:GLU:O	29:V:292:ILE:N	2.23	0.59
32:Y:73:PHE:O	32:Y:77:LEU:N	2.27	0.59
33:Z:322:GLU:C	33:Z:499:GLY:HA2	2.23	0.59
33:Z:404:ASP:HB3	33:Z:408:TYR:HE2	1.67	0.59
33:Z:926:ASN:HA	33:Z:957:LEU:O	2.03	0.59
1:1:112:ILE:HA	1:1:115:LEU:HD12	1.84	0.58
1:1:64:ASP:OD1	1:1:66:GLY:N	2.36	0.58
3:3:121:TYR:HB2	3:3:197:LEU:HB3	1.85	0.58
3:3:17:SER:HB3	3:3:40:THR:O	2.02	0.58
3:3:149:GLY:HA3	3:3:181:ALA:HB1	1.85	0.58
5:5:147:PHE:O	5:5:151:GLU:N	2.36	0.58
5:5:27:LEU:HD21	5:5:186:VAL:HG12	1.85	0.58
6:6:52:ASP:O	6:6:56:PHE:N	2.36	0.58
7:7:249:SER:HA	7:7:268:VAL:HG23	1.85	0.58
2:9:235:LYS:HG3	2:9:236:ASN:OD1	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:124:LEU:O	8:A:127:ILE:HB	2.03	0.58
8:A:32:PHE:O	8:A:35:THR:OG1	2.13	0.58
13:F:43:HIS:HA	13:F:217:GLY:HA2	1.85	0.58
14:G:12:ASN:ND2	14:G:131:PRO:HD3	3.74	0.58
14:G:48:PHE:O	14:G:217:SER:N	2.27	0.58
16:I:169:SER:CB	16:I:263:LEU:HB3	2.32	0.58
17:J:166:LEU:HD11	17:J:173:LEU:HD12	1.84	0.58
17:J:276:LEU:HB3	17:J:309:ARG:HG2	1.84	0.58
17:J:42:ARG:O	17:J:45:GLU:HB3	2.02	0.58
17:J:77:LYS:O	17:J:85:LEU:N	2.36	0.58
18:K:187:ALA:HB2	18:K:336:ARG:HE	1.68	0.58
18:K:74:HIS:O	18:K:78:GLU:HG2	2.03	0.58
20:M:167:VAL:HB	20:M:170:MET:HG3	1.85	0.58
20:M:329:ARG:HH21	20:M:346:LYS:HZ3	1.51	0.58
21:N:474:SER:HB3	21:N:477:SER:HB2	1.85	0.58
21:N:612:SER:H	21:N:618:ARG:CZ	2.16	0.58
21:N:585:ARG:NH2	21:N:619:CYS:SG	2.76	0.58
22:O:179:PHE:CB	22:O:188:PHE:HB2	2.33	0.58
22:O:206:THR:O	22:O:209:GLU:HB3	2.03	0.58
22:O:248:TYR:HA	22:O:251:LEU:HB2	1.85	0.58
22:O:301:PHE:O	22:O:303:LYS:HB2	2.03	0.58
23:P:220:TYR:O	23:P:224:LEU:N	2.23	0.58
24:Q:379:GLN:HE21	24:Q:383:ASP:CG	2.07	0.58
24:Q:389:VAL:HB	25:R:346:LYS:H	1.67	0.58
27:T:57:ILE:HA	27:T:60:ARG:HB2	1.84	0.58
28:U:114:THR:OG1	28:U:118:PRO:HB3	2.02	0.58
23:P:419:VAL:HG13	29:V:238:LEU:HA	1.84	0.58
30:W:114:VAL:N	30:W:142:ILE:O	2.35	0.58
30:W:162:ASN:ND2	30:W:165:GLN:HA	2.17	0.58
32:Y:86:ARG:HA	32:Y:89:GLN:HB2	1.83	0.58
33:Z:793:PHE:CD1	33:Z:830:LEU:HD13	2.37	0.58
7:7:110:ILE:HG21	7:7:131:GLU:HB3	1.85	0.58
1:8:64:ASP:OD1	1:8:66:GLY:N	2.36	0.58
2:9:44:VAL:O	2:9:177:THR:N	2.35	0.58
9:B:38:LYS:HB2	9:B:147:LEU:HB2	1.85	0.58
10:C:102:TYR:O	10:C:104:GLU:HG3	2.03	0.58
11:D:169:LYS:HZ2	11:D:172:ARG:HH11	1.50	0.58
13:F:106:GLU:OE2	13:F:110:HIS:CE1	2.56	0.58
15:H:226:GLU:HA	15:H:267:THR:HG21	1.85	0.58
15:H:257:THR:HG21	15:H:273:ARG:NH1	2.18	0.58
15:H:331:ARG:HA	15:H:334:LEU:HD12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:132:ILE:HG22	16:I:138:LYS:NZ	2.18	0.58
20:M:360:ILE:HG22	20:M:364:HIS:CE1	2.38	0.58
21:N:85:ALA:HB1	21:N:88:ARG:HB2	1.84	0.58
22:O:44:SER:O	22:O:47:LYS:N	2.36	0.58
23:P:170:SER:N	23:P:176:LYS:HZ3	2.00	0.58
23:P:40:LEU:C	23:P:44:LYS:NZ	2.53	0.58
23:P:67:ALA:HA	23:P:75:LEU:HD22	1.84	0.58
24:Q:285:LYS:HA	24:Q:288:LYS:HE2	1.85	0.58
25:R:28:GLU:O	25:R:32:LEU:N	2.25	0.58
26:S:277:SER:HA	26:S:292:TYR:HD2	1.68	0.58
26:S:411:LEU:HA	26:S:414:ASP:HB2	1.84	0.58
26:S:457:PRO:HG2	26:S:458:GLN:HG3	1.85	0.58
27:T:198:ASP:HA	27:T:235:PHE:HB2	1.85	0.58
28:U:28:LYS:NZ	28:U:31:LYS:NZ	2.50	0.58
28:U:69:ASP:OD1	28:U:70:HIS:N	2.36	0.58
29:V:124:ASN:HA	29:V:127:LYS:HB3	1.84	0.58
29:V:257:GLU:OE2	29:V:287:THR:HG22	2.02	0.58
33:Z:396:ASN:ND2	33:Z:399:LEU:HD12	2.15	0.58
33:Z:517:ASP:HB3	33:Z:521:GLU:H	1.67	0.58
33:Z:524:ALA:HB1	33:Z:565:PHE:CD2	2.39	0.58
5:5:50:PHE:HE2	5:5:195:VAL:HG11	1.67	0.58
9:B:13:SER:O	9:B:16:GLY:N	2.29	0.58
8:A:126:GLN:NE2	9:B:81:ASP:HA	2.19	0.58
9:B:8:SER:N	10:C:128:LEU:HD23	2.17	0.58
12:E:19:GLY:HA3	13:F:28:ALA:HB2	2.19	0.58
14:G:11:SER:CB	14:G:127:ASN:HB2	2.27	0.58
14:G:126:TYR:CB	14:G:129:VAL:HG13	2.27	0.58
15:H:105:ILE:HB	15:H:144:LYS:HA	1.86	0.58
15:H:393:SER:HB2	15:H:398:VAL:HG11	1.84	0.58
17:J:198:LEU:CD1	17:J:316:PHE:CE2	2.86	0.58
18:K:112:SER:HB3	18:K:116:MET:N	2.17	0.58
18:K:262:ARG:HH12	18:K:306:PHE:CB	2.16	0.58
19:L:137:ARG:HA	19:L:140:LEU:HD12	1.84	0.58
20:M:379:LEU:O	20:M:383:THR:N	2.33	0.58
21:N:360:GLN:CG	21:N:363:ALA:H	2.16	0.58
21:N:368:THR:HG21	21:N:400:ILE:O	2.03	0.58
22:O:310:PHE:CE1	22:O:341:ILE:HG12	2.38	0.58
23:P:429:ILE:O	23:P:433:ILE:HG13	2.03	0.58
24:Q:340:ASP:C	24:Q:376:LYS:HZ1	2.07	0.58
26:S:330:LEU:HA	26:S:333:PHE:HB2	1.85	0.58
28:U:165:GLU:HG2	28:U:169:ILE:HG13	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:12:ASN:HD21	30:W:81:ILE:HG22	1.68	0.58
33:Z:478:VAL:HB	33:Z:493:LEU:HD13	1.84	0.58
1:1:34:ILE:HG23	1:1:155:CYS:HB3	1.86	0.58
2:2:180:GLY:O	2:2:184:ALA:N	2.31	0.58
3:3:11:LEU:N	3:3:113:THR:HG1	2.01	0.58
3:3:61:TRP:CD1	3:3:197:LEU:HD21	2.39	0.58
4:4:113:LYS:HG3	4:4:114:GLN:H	1.68	0.58
4:4:120:GLN:HB2	4:4:122:HIS:CD2	2.38	0.58
4:4:244:GLU:OE2	5:5:196:VAL:HG11	2.03	0.58
7:7:133:TRP:O	7:7:136:SER:HB2	2.02	0.58
7:7:239:ALA:O	7:7:243:ASP:N	2.35	0.58
8:A:55:SER:O	8:A:224:GLU:N	2.36	0.58
8:A:36:ASN:O	8:A:39:ASN:N	2.35	0.58
9:B:150:VAL:HG22	9:B:156:TYR:CB	2.33	0.58
9:B:157:PHE:HE1	9:B:159:TRP:NE1	2.01	0.58
10:C:72:LYS:HD3	10:C:140:TYR:HD2	1.68	0.58
11:D:80:ALA:HA	11:D:83:ARG:CZ	2.33	0.58
12:E:147:HIS:CD2	12:E:224:LYS:HB2	2.38	0.58
13:F:114:ASP:HA	13:F:117:GLN:HB3	1.85	0.58
14:G:221:LEU:HA	14:G:226:GLY:N	2.18	0.58
16:I:108:THR:HB	16:I:121:THR:HB	1.84	0.58
18:K:281:ARG:HH11	18:K:290:ARG:HG2	1.68	0.58
19:L:407:ARG:HE	19:L:411:ASN:HD22	1.50	0.58
20:M:233:ARG:HA	20:M:236:ALA:HB3	1.86	0.58
21:N:501:MET:HB2	21:N:521:LEU:HD21	1.83	0.58
21:N:665:ILE:HG22	21:N:666:GLN:HG2	1.85	0.58
21:N:745:LEU:O	21:N:747:HIS:N	2.36	0.58
22:O:5:HIS:O	22:O:9:THR:N	2.36	0.58
23:P:273:TYR:HE2	23:P:275:ASN:OD1	1.86	0.58
23:P:422:LEU:CA	23:P:426:ILE:HG13	2.33	0.58
24:Q:130:ARG:NH1	24:Q:132:PHE:O	2.30	0.58
25:R:27:SER:O	25:R:30:ALA:HB3	2.04	0.58
25:R:398:ALA:HB1	25:R:402:LEU:CG	2.32	0.58
26:S:181:ALA:HA	26:S:184:TRP:CG	2.38	0.58
26:S:246:GLU:OE2	27:T:124:SER:HB2	2.02	0.58
25:R:382:ASP:HB2	26:S:399:TYR:CD1	2.38	0.58
28:U:297:GLN:O	28:U:301:ILE:CG1	2.52	0.58
30:W:143:ASN:ND2	30:W:173:THR:HG23	2.18	0.58
33:Z:481:PRO:HB3	33:Z:512:ILE:HG12	1.86	0.58
4:4:153:TYR:OH	4:4:168:GLU:OE2	2.14	0.58
4:4:42:VAL:HG23	4:4:206:VAL:HG22	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:91:ARG:HH12	14:G:157:TYR:N	1.82	0.58
9:B:205:ASN:HA	9:B:247:LEU:CD1	2.34	0.58
10:C:141:ASP:OD2	10:C:147:GLN:NE2	2.37	0.58
11:D:70:HIS:HA	11:D:219:SER:HA	1.85	0.58
11:D:64:VAL:HG11	11:D:213:THR:HG21	1.85	0.58
14:G:70:VAL:HG13	14:G:93:ARG:HA	1.85	0.58
16:I:248:VAL:HB	16:I:251:GLU:HG3	1.85	0.58
17:J:114:CYS:N	17:J:124:LYS:O	2.36	0.58
17:J:191:PRO:HA	17:J:195:LYS:HE3	1.84	0.58
16:I:422:ARG:O	17:J:306:ARG:HG2	2.02	0.58
17:J:273:LEU:HD22	17:J:309:ARG:HH11	1.68	0.58
17:J:40:ASN:O	17:J:44:LEU:HG	2.03	0.58
18:K:299:LEU:O	18:K:303:MET:N	2.22	0.58
18:K:343:LEU:HD22	18:K:344:ARG:CA	2.32	0.58
19:L:125:PRO:HG2	19:L:127:TYR:OH	2.04	0.58
19:L:370:LYS:HZ1	19:L:395:ALA:HB2	1.68	0.58
20:M:335:PRO:O	20:M:339:ARG:HB2	2.03	0.58
21:N:223:LEU:HD22	21:N:897:LYS:HE2	1.86	0.58
21:N:413:ALA:HA	21:N:453:ALA:HA	1.84	0.58
21:N:711:ARG:HD3	21:N:785:PRO:HG2	1.85	0.58
22:O:247:ASN:ND2	22:O:273:GLN:OE1	2.31	0.58
22:O:287:LEU:O	22:O:291:ILE:N	2.27	0.58
23:P:362:LEU:O	23:P:365:LEU:HB2	2.03	0.58
23:P:63:VAL:O	23:P:66:LEU:HB2	2.02	0.58
23:P:79:LEU:HD23	23:P:82:LEU:HD12	1.85	0.58
24:Q:126:LYS:HG2	24:Q:134:LYS:HZ2	1.67	0.58
25:R:225:LYS:CD	25:R:260:THR:HB	2.33	0.58
25:R:37:LYS:HG3	25:R:38:VAL:H	1.68	0.58
25:R:412:THR:O	25:R:416:LYS:N	2.25	0.58
26:S:288:THR:HG22	26:S:292:TYR:CZ	2.38	0.58
27:T:189:ILE:O	27:T:193:THR:N	2.30	0.58
28:U:37:ILE:HG13	28:U:90:ILE:HG13	1.85	0.58
29:V:108:TYR:CA	29:V:139:VAL:HB	2.34	0.58
27:T:261:GLU:HG2	29:V:292:ILE:CG2	2.34	0.58
33:Z:478:VAL:HG11	33:Z:493:LEU:HD22	1.85	0.58
1:1:132:GLY:O	1:1:140:ALA:N	2.35	0.58
2:2:77:PRO:HA	2:2:83:VAL:HA	1.85	0.58
5:5:193:ASP:OD1	5:5:194:GLU:N	2.36	0.58
7:7:276:LYS:NZ	7:7:285:VAL:C	2.57	0.58
1:8:112:ILE:HA	1:8:115:LEU:HD12	1.84	0.58
13:F:227:GLY:O	13:F:231:ALA:N	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:40:SER:HG	13:F:43:HIS:H	1.49	0.58
16:I:366:THR:HA	16:I:396:CYS:SG	2.43	0.58
16:I:402:LEU:HD22	16:I:405:ARG:HE	1.68	0.58
16:I:398:GLU:HB3	16:I:419:ALA:HB1	1.85	0.58
18:K:219:LYS:NZ	18:K:318:THR:C	2.56	0.58
20:M:415:PHE:O	20:M:419:ILE:N	2.36	0.58
22:O:25:LEU:HB3	22:O:29:PHE:CZ	2.38	0.58
23:P:261:LEU:HA	23:P:264:ILE:HB	1.85	0.58
23:P:98:GLN:OE1	23:P:135:GLU:HB3	2.03	0.58
24:Q:148:LYS:HG2	24:Q:150:GLN:HG2	1.86	0.58
24:Q:234:THR:HB	24:Q:238:TYR:CE2	2.37	0.58
25:R:207:ARG:O	25:R:211:LYS:N	2.26	0.58
25:R:333:MET:HA	25:R:336:LYS:HB3	1.86	0.58
25:R:43:ARG:NH2	25:R:70:TYR:OH	2.37	0.58
26:S:337:ASN:H	26:S:339:GLN:NE2	2.01	0.58
33:Z:815:MET:HG2	33:Z:830:LEU:CD1	2.29	0.58
1:1:110:ARG:O	1:1:114:HIS:ND1	2.37	0.58
1:1:76:PHE:HE1	2:2:166:LEU:HD13	1.68	0.58
3:3:145:ILE:HD11	3:3:154:TYR:CD1	2.39	0.58
1:1:212:GLU:HB3	4:4:58:LYS:HZ3	1.68	0.58
1:8:32:LEU:N	1:8:43:ALA:O	2.18	0.58
2:9:126:PHE:CZ	2:9:161:ARG:HG2	2.39	0.58
8:A:44:ALA:N	8:A:169:THR:O	2.19	0.58
8:A:238:ALA:O	8:A:242:GLU:N	2.33	0.58
10:C:15:PRO:HA	11:D:22:TYR:CG	2.38	0.58
11:D:119:ARG:HB2	11:D:119:ARG:CZ	2.33	0.58
11:D:238:GLN:O	11:D:242:GLU:HG3	2.04	0.58
12:E:51:GLU:HG2	12:E:53:ARG:HB2	1.86	0.58
15:H:101:ARG:HB2	15:H:173:ARG:CZ	2.33	0.58
16:I:289:THR:HA	16:I:333:THR:HB	1.86	0.58
17:J:163:VAL:HB	17:J:314:ILE:HD12	1.86	0.58
17:J:195:LYS:HG3	17:J:253:ILE:O	2.04	0.58
17:J:46:ALA:HA	17:J:49:ASN:HD22	1.68	0.58
20:M:118:VAL:HG22	20:M:128:PHE:HA	1.86	0.58
20:M:132:VAL:HG21	20:M:155:ILE:O	2.03	0.58
22:O:138:LEU:C	22:O:138:LEU:HD23	2.24	0.58
22:O:245:ASP:O	22:O:248:TYR:HB2	2.04	0.58
23:P:392:LYS:HA	24:Q:354:PHE:CD2	2.39	0.58
25:R:225:LYS:NZ	25:R:260:THR:C	2.57	0.58
26:S:179:ILE:HG13	26:S:184:TRP:CZ2	2.39	0.58
28:U:195:LYS:HZ3	29:V:233:LYS:CE	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:50:ASN:OD1	28:U:51:SER:N	2.31	0.58
29:V:255:ILE:O	29:V:258:GLU:HG3	2.04	0.58
30:W:153:LEU:O	30:W:157:PHE:N	2.28	0.58
31:X:38:ASN:N	31:X:45:PHE:O	2.37	0.58
33:Z:176:GLU:HG2	33:Z:178:SER:H	1.68	0.58
33:Z:345:GLU:O	33:Z:349:THR:N	2.36	0.58
1:1:132:GLY:HA2	1:1:226:VAL:HG21	1.86	0.58
3:3:108:ASN:O	3:3:111:ASN:N	2.34	0.58
3:3:149:GLY:HA2	3:3:152:PHE:CE2	2.39	0.58
5:5:56:LEU:O	5:5:59:ASP:HB2	2.03	0.58
5:5:69:TYR:O	10:C:96:GLN:NE2	2.35	0.58
6:6:129:PRO:HB3	6:6:148:TYR:CZ	2.39	0.58
7:7:94:ARG:CZ	7:7:247:GLY:HA3	2.34	0.58
8:A:133:TYR:CZ	8:A:134:MET:HG2	2.38	0.58
9:B:45:ILE:HD12	9:B:74:VAL:HB	1.85	0.58
11:D:11:PHE:CE2	12:E:136:ARG:HD2	2.84	0.58
11:D:137:GLY:O	11:D:146:LYS:HB2	2.04	0.58
13:F:172:LEU:HD21	13:F:196:ALA:HB2	1.86	0.58
14:G:126:TYR:H	14:G:129:VAL:HG21	1.69	0.58
8:A:91:ARG:NH1	14:G:157:TYR:CD1	2.72	0.58
14:G:78:TYR:HE2	14:G:82:ILE:HA	1.69	0.58
15:H:304:CYS:O	15:H:350:LYS:N	2.34	0.58
16:I:304:ARG:HH12	16:I:308:GLU:HB2	1.68	0.58
16:I:423:VAL:HG22	17:J:306:ARG:HB3	1.84	0.58
18:K:98:GLN:O	18:K:111:SER:N	2.37	0.58
20:M:77:TYR:HE2	20:M:156:LEU:HD12	1.68	0.58
20:M:338:LEU:HD21	20:M:346:LYS:HB2	1.84	0.58
20:M:358:ALA:HB1	20:M:376:TRP:HB3	1.84	0.58
22:O:138:LEU:HB2	22:O:177:GLN:OE1	2.03	0.58
22:O:279:ILE:O	22:O:282:GLN:HB2	2.03	0.58
22:O:373:TRP:O	22:O:377:VAL:N	2.33	0.58
23:P:374:SER:HA	23:P:377:GLU:HB2	1.85	0.58
23:P:383:LEU:HD22	23:P:388:ILE:HB	1.86	0.58
23:P:392:LYS:O	23:P:400:VAL:HA	2.04	0.58
24:Q:309:ARG:NH2	24:Q:346:ASN:OD1	2.36	0.58
25:R:274:PRO:HA	25:R:277:LEU:HB2	1.86	0.58
26:S:179:ILE:HG13	26:S:184:TRP:CE2	2.39	0.58
26:S:268:LEU:HA	26:S:271:ARG:HB2	1.86	0.58
26:S:393:ARG:HA	26:S:397:LEU:HG	1.86	0.58
28:U:140:ILE:CA	28:U:153:THR:C	2.71	0.58
28:U:15:LEU:HB3	29:V:212:MET:CE	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:117:TRP:HZ3	29:V:120:SER:H	1.52	0.58
33:Z:439:TYR:O	33:Z:447:VAL:HG12	2.04	0.58
33:Z:546:ILE:HG23	33:Z:566:LEU:HD22	1.85	0.58
33:Z:954:PRO:HD3	33:Z:962:ARG:HG2	1.84	0.58
1:1:171:ASN:O	1:1:175:PHE:HA	2.04	0.58
1:1:179:TYR:HA	1:1:188:LYS:HA	1.86	0.58
4:4:178:GLU:OE1	4:4:178:GLU:N	2.34	0.58
5:5:124:PHE:CD1	5:5:130:ILE:HA	2.38	0.58
5:5:27:LEU:HG	5:5:185:ALA:HA	1.86	0.58
9:B:92:VAL:O	9:B:96:SER:N	2.32	0.58
10:C:78:ALA:O	10:C:134:SER:N	2.27	0.58
11:D:26:ALA:HA	11:D:29:ARG:HB3	1.86	0.58
12:E:70:ILE:H	12:E:75:GLY:HA2	1.69	0.58
13:F:230:VAL:O	13:F:234:ILE:HG13	2.04	0.58
15:H:201:GLU:O	15:H:271:PHE:HB3	2.04	0.58
15:H:428:MET:HB3	15:H:432:ARG:NH1	2.18	0.58
16:I:264:CYS:HA	16:I:267:ILE:HD12	1.84	0.58
19:L:219:LEU:HB3	19:L:346:LYS:HA	1.85	0.58
19:L:420:ARG:O	19:L:424:GLU:N	2.37	0.58
20:M:391:LEU:O	20:M:395:THR:N	2.35	0.58
20:M:77:TYR:CE2	20:M:156:LEU:HD12	2.39	0.58
18:K:49:PHE:HB2	21:N:152:LEU:HA	1.86	0.58
21:N:650:ASP:HA	21:N:653:ARG:HH11	1.69	0.58
22:O:230:PHE:CE1	22:O:291:ILE:HA	2.38	0.58
22:O:380:LEU:C	22:O:382:LYS:H	2.07	0.58
23:P:290:LEU:HD12	23:P:291:LYS:HG2	1.86	0.58
23:P:360:ILE:O	23:P:400:VAL:N	2.33	0.58
25:R:120:LEU:HD13	25:R:130:GLN:HA	1.86	0.58
25:R:251:THR:O	25:R:254:SER:OG	2.15	0.58
25:R:267:LYS:CA	25:R:271:ILE:HB	2.33	0.58
26:S:143:GLN:HG3	26:S:148:ASP:CG	2.17	0.58
26:S:179:ILE:HD11	26:S:181:ALA:HB2	1.84	0.58
26:S:293:ILE:HG21	26:S:317:HIS:HB2	1.85	0.58
26:S:435:LYS:N	26:S:444:GLU:O	2.24	0.58
32:Y:83:ARG:HG3	32:Y:86:ARG:NH2	2.18	0.58
33:Z:138:ARG:HH12	33:Z:206:ASP:CG	2.06	0.58
33:Z:833:GLN:O	33:Z:837:TYR:N	2.34	0.58
2:2:235:LYS:HG3	2:2:236:ASN:OD1	2.03	0.58
2:2:77:PRO:HB3	2:2:239:LEU:HD11	1.85	0.58
3:3:129:VAL:O	3:3:140:LYS:HG3	2.04	0.58
3:3:179:SER:O	3:3:183:LYS:N	2.23	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:41:THR:HG23	3:3:46:ALA:HB2	1.86	0.58
5:5:46:TYR:N	5:5:49:VAL:O	2.25	0.58
6:6:48:GLY:HA3	6:6:100:VAL:HA	1.86	0.58
6:6:96:ARG:HH12	7:7:166:LYS:HD3	1.69	0.58
7:7:123:GLY:N	7:7:171:SER:O	2.26	0.58
1:8:132:GLY:HA2	1:8:226:VAL:HG21	1.86	0.58
2:9:77:PRO:HB3	2:9:239:LEU:HD11	1.85	0.58
8:A:214:LEU:O	8:A:216:THR:OG1	2.21	0.58
9:B:138:GLY:O	9:B:146:SER:N	2.37	0.58
15:H:210:ASP:OD2	15:H:258:LEU:HD12	2.04	0.58
15:H:246:ILE:HA	15:H:373:ARG:O	2.04	0.58
16:I:247:ILE:HD11	16:I:281:ILE:HG12	1.86	0.58
16:I:418:GLN:O	16:I:422:ARG:N	2.35	0.58
17:J:257:ARG:NH1	17:J:296:ARG:HH11	2.00	0.58
18:K:234:PHE:HB2	18:K:268:ILE:HD12	1.86	0.58
18:K:281:ARG:NH1	18:K:290:ARG:NE	2.51	0.58
19:L:221:TYR:HA	19:L:228:LYS:HZ2	1.69	0.58
21:N:109:TYR:HA	21:N:133:LEU:HD21	1.86	0.58
21:N:245:LEU:HD11	21:N:254:SER:HB3	1.85	0.58
21:N:568:VAL:O	21:N:572:LEU:HG	2.04	0.58
21:N:650:ASP:OD2	21:N:692:GLU:HG2	2.03	0.58
25:R:201:GLY:O	25:R:206:ARG:N	2.37	0.58
25:R:335:ARG:NH1	25:R:377:LEU:N	2.52	0.58
21:N:37:SER:OG	26:S:249:SER:HB2	2.04	0.58
26:S:385:SER:HB2	27:T:154:GLU:OE1	2.04	0.58
27:T:104:LYS:HZ1	27:T:169:GLN:NE2	2.02	0.58
28:U:140:ILE:CB	28:U:153:THR:CA	2.82	0.58
29:V:252:SER:HA	29:V:255:ILE:HB	1.85	0.58
29:V:277:LYS:HA	29:V:280:LEU:CD1	2.33	0.58
29:V:84:ASP:OD2	29:V:86:VAL:HB	2.04	0.58
30:W:23:ARG:HE	30:W:27:GLU:HG3	1.67	0.58
31:X:30:GLN:HG2	31:X:100:TRP:HZ3	1.67	0.58
33:Z:306:MET:HA	33:Z:973:TYR:CD2	2.39	0.58
33:Z:815:MET:HB2	33:Z:834:LEU:HD21	1.86	0.58
2:2:103:LEU:O	2:2:107:ASN:N	2.20	0.57
4:4:99:THR:HB	4:4:101:ARG:HD2	1.85	0.57
4:4:177:LYS:NZ	4:4:211:LYS:NZ	2.52	0.57
6:6:106:GLY:O	6:6:115:GLU:N	2.21	0.57
8:A:83:VAL:HG22	8:A:141:LEU:HD22	1.85	0.57
11:D:13:PRO:HA	12:E:26:TYR:CD1	2.39	0.57
13:F:67:ASP:OD2	13:F:69:HIS:CE1	2.57	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:96:PHE:HB3	13:F:89:ARG:HH12	106.86	0.57
14:G:126:TYR:H	14:G:129:VAL:CG2	2.26	0.57
14:G:123:HIS:ND1	14:G:132:PHE:HE1	2.02	0.57
14:G:170:GLN:HA	14:G:173:LYS:HD2	1.86	0.57
15:H:281:GLN:HB2	15:H:286:GLU:HG2	1.85	0.57
15:H:385:ARG:NH1	15:H:413:ASN:HA	2.20	0.57
18:K:260:LEU:O	18:K:264:ASN:N	2.36	0.57
18:K:356:ILE:HG21	18:K:388:GLN:HG3	1.86	0.57
19:L:66:GLU:HB3	19:L:70:TYR:CZ	2.39	0.57
15:H:106:ILE:HD11	20:M:150:LYS:HB2	1.85	0.57
20:M:277:ILE:HG12	20:M:322:LYS:HB2	1.86	0.57
19:L:91:THR:HG21	20:M:33:ARG:HG2	1.85	0.57
21:N:163:LEU:HD13	21:N:209:LYS:NZ	2.19	0.57
22:O:242:ILE:O	22:O:244:ASN:HB2	2.04	0.57
22:O:338:LYS:HZ2	22:O:353:VAL:HB	1.68	0.57
22:O:4:ASN:HA	22:O:42:SER:HB2	1.86	0.57
22:O:70:TYR:OH	22:O:107:GLN:HG2	2.04	0.57
23:P:259:PRO:HA	23:P:262:SER:HB2	1.87	0.57
24:Q:243:PHE:HZ	24:Q:289:GLU:HG3	1.69	0.57
24:Q:63:GLN:O	24:Q:67:THR:N	2.31	0.57
25:R:33:LEU:HB2	25:R:46:ALA:HB3	1.85	0.57
26:S:185:PHE:O	26:S:188:TYR:N	2.36	0.57
27:T:129:LEU:HD11	27:T:135:ASN:HD22	1.69	0.57
26:S:427:ILE:HG22	27:T:195:LEU:HB3	1.86	0.57
27:T:28:PRO:O	27:T:31:LYS:HB3	2.04	0.57
27:T:49:ASP:C	27:T:53:ASN:HB2	2.24	0.57
28:U:20:ASP:HA	28:U:23:GLU:OE1	2.04	0.57
29:V:163:ALA:HB3	29:V:165:ILE:H	1.68	0.57
29:V:202:ASP:OD1	29:V:203:TYR:N	2.36	0.57
29:V:260:GLU:OE1	29:V:283:THR:HG21	2.04	0.57
28:U:57:GLU:HB2	30:W:100:HIS:HE2	1.67	0.57
30:W:67:ALA:HB3	30:W:68:GLU:HA	1.86	0.57
33:Z:452:LEU:HD22	33:Z:489:ALA:HB2	1.86	0.57
33:Z:361:HIS:CD2	33:Z:961:GLU:HG2	2.39	0.57
1:1:119:LYS:HD3	1:1:124:TYR:CE2	2.39	0.57
2:2:127:GLU:HG2	13:F:100:ASN:CB	84.70	0.57
7:7:174:THR:N	7:7:190:VAL:O	2.34	0.57
7:7:191:ASP:OD2	7:7:195:THR:HB	2.04	0.57
1:8:145:ASP:HB3	1:8:149:SER:N	2.20	0.57
1:8:179:TYR:HA	1:8:188:LYS:HA	1.86	0.57
2:9:95:HIS:O	2:9:99:LEU:HG	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:178:ARG:HG2	9:B:191:ILE:HG23	1.87	0.57
9:B:189:ILE:HG21	9:B:246:ARG:HD3	1.87	0.57
10:C:134:SER:OG	10:C:153:PRO:HD3	2.04	0.57
10:C:214:ALA:HA	10:C:229:ILE:HA	1.86	0.57
12:E:144:ILE:N	12:E:156:PHE:O	2.25	0.57
13:F:3:ARG:O	13:F:6:TYR:N	2.37	0.57
18:K:66:ASP:C	18:K:69:LYS:NZ	2.54	0.57
20:M:78:LEU:HD13	20:M:123:SER:HB3	1.86	0.57
20:M:352:PRO:HG3	20:M:360:ILE:HD11	1.85	0.57
20:M:4:LEU:HA	20:M:7:LEU:HB2	1.86	0.57
21:N:492:THR:HA	21:N:528:ARG:CD	2.30	0.57
21:N:650:ASP:O	21:N:654:GLN:N	2.29	0.57
22:O:110:ASP:HB3	22:O:128:LEU:HD23	1.84	0.57
22:O:23:HIS:HB3	22:O:26:PHE:HB2	1.86	0.57
22:O:384:MET:HG3	22:O:385:GLU:H	1.69	0.57
23:P:143:LEU:HG	23:P:147:LYS:HE3	1.86	0.57
23:P:325:ASP:H	23:P:337:HIS:CE1	2.20	0.57
23:P:270:LEU:HA	23:P:341:LEU:HD21	1.85	0.57
25:R:33:LEU:HD12	25:R:43:ARG:O	2.04	0.57
26:S:393:ARG:HB2	26:S:432:ILE:HG22	1.85	0.57
28:U:104:LEU:HD13	28:U:152:LYS:HZ1	1.68	0.57
28:U:32:ARG:N	28:U:58:GLU:OE1	2.37	0.57
29:V:58:VAL:H	29:V:62:THR:HB	1.69	0.57
29:V:54:LEU:N	29:V:67:ASP:O	2.33	0.57
30:W:180:LEU:HB2	30:W:183:GLU:HB3	1.85	0.57
30:W:59:PRO:HB3	30:W:86:HIS:HB3	1.84	0.57
33:Z:308:LYS:HE3	33:Z:345:GLU:OE2	2.02	0.57
33:Z:430:LEU:HA	33:Z:466:GLU:HB2	1.86	0.57
16:I:273:GLU:HG2	33:Z:791:LYS:HD2	1.86	0.57
33:Z:882:LEU:HD12	33:Z:885:ALA:HB3	1.84	0.57
2:2:109:TYR:OH	14:G:71:ASP:N	89.74	0.57
3:3:122:ASP:OD2	3:3:124:LYS:HB3	2.04	0.57
6:6:13:VAL:O	6:6:184:VAL:N	2.32	0.57
1:8:119:LYS:HD3	1:8:124:TYR:CE2	2.39	0.57
1:8:46:THR:HG21	1:8:58:TYR:CD1	2.40	0.57
10:C:135:PHE:HB2	10:C:137:TYR:CE1	2.39	0.57
11:D:32:CYS:HB2	11:D:166:ARG:O	2.04	0.57
13:F:7:ASP:HA	13:F:20:PHE:CD1	2.39	0.57
15:H:208:TYR:CD1	15:H:211:VAL:HB	2.40	0.57
16:I:148:LEU:O	16:I:157:VAL:N	2.25	0.57
16:I:222:TYR:HD2	16:I:349:LEU:HB2	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:94:LYS:O	16:I:98:GLU:HG3	2.04	0.57
18:K:167:PRO:HB2	18:K:228:ASN:HB2	1.86	0.57
19:L:108:VAL:HB	19:L:141:LYS:O	2.05	0.57
19:L:310:THR:O	19:L:314:GLY:HA3	2.04	0.57
21:N:256:GLN:O	21:N:260:ASP:N	2.22	0.57
21:N:302:PHE:HA	21:N:306:ASN:HD22	1.69	0.57
21:N:316:LYS:O	21:N:320:SER:OG	2.12	0.57
22:O:51:ASP:O	22:O:85:SER:OG	2.20	0.57
23:P:200:SER:O	23:P:203:ILE:HG22	2.04	0.57
23:P:359:ARG:HG2	23:P:401:ASN:HA	1.86	0.57
24:Q:343:LEU:O	24:Q:347:LEU:HG	2.04	0.57
25:R:138:GLY:HA2	25:R:150:ALA:HA	1.87	0.57
25:R:179:PHE:HA	25:R:182:ASN:HA	1.86	0.57
25:R:29:LYS:O	25:R:46:ALA:HB1	2.05	0.57
25:R:53:LYS:HA	25:R:56:GLU:HB3	1.87	0.57
28:U:27:THR:HG23	28:U:31:LYS:HB2	1.86	0.57
29:V:80:VAL:HG23	29:V:129:PHE:CZ	2.39	0.57
29:V:288:LEU:O	29:V:292:ILE:HG13	2.04	0.57
29:V:95:LEU:O	29:V:99:GLY:N	2.37	0.57
30:W:112:ALA:O	30:W:142:ILE:N	2.27	0.57
33:Z:736:LEU:HD12	33:Z:739:ALA:HB3	1.86	0.57
6:6:52:ASP:H	7:7:166:LYS:HZ3	1.52	0.57
3:3:137:SER:HA	2:9:94:GLN:OE1	2.04	0.57
14:G:38:ILE:HD11	14:G:196:ALA:HB1	1.86	0.57
14:G:211:ASP:OD1	14:G:212:PHE:N	2.37	0.57
16:I:201:PRO:HB2	16:I:320:GLY:CA	2.34	0.57
17:J:320:SER:O	17:J:321:VAL:C	2.42	0.57
19:L:193:LEU:HA	19:L:196:VAL:HG12	1.86	0.57
20:M:221:TYR:N	20:M:347:ILE:O	2.38	0.57
21:N:207:LEU:HB3	21:N:228:VAL:HG13	1.85	0.57
21:N:565:ASN:O	21:N:569:LYS:N	2.18	0.57
21:N:670:LYS:HA	21:N:673:PRO:HG3	1.85	0.57
21:N:763:GLY:HA3	21:N:906:ARG:HG3	1.87	0.57
24:Q:158:ILE:HA	24:Q:161:LEU:HD12	1.85	0.57
24:Q:294:ARG:HB3	24:Q:321:TYR:HD1	1.69	0.57
25:R:40:ILE:O	25:R:43:ARG:HB3	2.05	0.57
26:S:425:ARG:HG3	27:T:154:GLU:C	2.25	0.57
27:T:106:ILE:HD12	27:T:109:TYR:HD2	1.69	0.57
27:T:119:THR:O	27:T:122:PHE:HB3	2.05	0.57
27:T:177:PHE:HA	27:T:180:ILE:HD12	1.86	0.57
33:Z:408:TYR:CE1	33:Z:442:VAL:HG21	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:449:ALA:HB1	33:Z:488:ALA:HB3	1.87	0.57
1:1:73:ALA:HA	1:1:128:THR:HA	1.87	0.57
2:2:58:ASP:HA	2:2:228:PHE:CB	2.35	0.57
3:3:38:ARG:N	3:3:52:LYS:NZ	2.42	0.57
5:5:161:GLU:HA	5:5:164:PHE:CB	2.29	0.57
5:5:189:ILE:HG13	5:5:198:ARG:HH12	1.70	0.57
7:7:204:VAL:HA	7:7:208:GLN:OE1	2.05	0.57
1:8:34:ILE:HG23	1:8:155:CYS:HB3	1.86	0.57
2:9:151:GLY:N	2:9:159:PHE:O	2.35	0.57
9:B:13:SER:OG	9:B:17:LYS:N	2.37	0.57
11:D:134:LEU:HD23	11:D:149:GLN:HA	1.87	0.57
11:D:179:TYR:CE1	11:D:184:PRO:HA	2.40	0.57
6:6:69:ILE:HD13	11:D:68:ASP:HA	1.87	0.57
13:F:73:SER:OG	13:F:133:LEU:HB2	2.04	0.57
14:G:119:TYR:O	14:G:123:HIS:ND1	2.37	0.57
17:J:153:LEU:O	17:J:316:PHE:HE1	1.87	0.57
18:K:349:ARG:HH22	18:K:378:LEU:CB	2.17	0.57
19:L:182:GLY:HA2	19:L:363:ILE:HG21	1.87	0.57
19:L:225:GLY:H	19:L:229:THR:H	1.52	0.57
19:L:276:CYS:O	19:L:322:LYS:N	2.37	0.57
21:N:19:SER:O	21:N:22:THR:HB	2.05	0.57
21:N:529:GLN:CA	21:N:558:ALA:HB1	2.34	0.57
21:N:526:TYR:HD1	21:N:557:LEU:HB3	1.69	0.57
21:N:636:SER:O	21:N:640:VAL:HG23	2.03	0.57
21:N:761:ILE:HG21	21:N:904:VAL:HG22	1.86	0.57
22:O:2:PHE:O	22:O:5:HIS:N	2.37	0.57
23:P:144:VAL:HA	23:P:147:LYS:HD2	1.86	0.57
24:Q:165:PHE:HB3	24:Q:174:LEU:HB2	1.85	0.57
24:Q:302:VAL:O	24:Q:306:TYR:N	2.30	0.57
24:Q:413:LEU:HD11	25:R:406:GLN:OE1	2.04	0.57
26:S:222:SER:H	26:S:226:ASP:HB2	1.70	0.57
26:S:235:ASN:HB3	26:S:275:TYR:HE2	1.69	0.57
26:S:484:ASP:O	26:S:487:THR:OG1	2.16	0.57
27:T:215:LYS:C	27:T:219:LYS:NZ	2.58	0.57
30:W:38:GLN:HG3	30:W:42:ASN:ND2	2.20	0.57
33:Z:145:ASP:OD2	33:Z:150:GLY:HA2	2.04	0.57
1:1:119:LYS:HB3	1:1:123:PRO:HA	1.86	0.57
3:3:175:LYS:HD3	3:3:211:GLU:OE2	2.03	0.57
3:3:22:ILE:HB	3:3:63:CYS:HB3	1.85	0.57
3:3:37:SER:C	3:3:52:LYS:HZ1	2.07	0.57
5:5:14:ALA:O	5:5:137:ILE:N	2.31	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:164:PHE:HB2	5:5:189:ILE:HD11	1.85	0.57
1:8:171:ASN:O	1:8:175:PHE:HA	2.04	0.57
8:A:154:ILE:CD1	8:A:168:ALA:HA	2.34	0.57
9:B:158:PRO:HG3	10:C:61:THR:HB	1.86	0.57
10:C:13:PHE:CZ	11:D:127:ARG:HD2	2.58	0.57
13:F:50:LYS:HE3	13:F:209:ASP:O	2.05	0.57
14:G:179:LEU:HD11	14:G:195:GLN:HE21	1.70	0.57
15:H:340:LEU:HB3	15:H:370:ARG:HH12	1.69	0.57
16:I:191:ILE:O	16:I:195:LYS:N	2.31	0.57
16:I:270:VAL:HG13	16:I:274:ASN:ND2	2.18	0.57
16:I:361:ILE:HG22	16:I:392:ILE:HG21	1.86	0.57
21:N:226:ASN:ND2	21:N:264:SER:OG	2.38	0.57
21:N:399:PHE:CE1	21:N:438:ASP:HA	2.35	0.57
21:N:463:TYR:CD1	21:N:485:MET:HB3	2.39	0.57
21:N:612:SER:H	21:N:618:ARG:HE	1.52	0.57
21:N:66:SER:HA	21:N:78:ALA:HA	1.86	0.57
22:O:279:ILE:HA	22:O:282:GLN:OE1	2.05	0.57
22:O:383:LYS:HB3	22:O:387:ARG:CB	2.34	0.57
24:Q:115:ILE:HG23	24:Q:141:LEU:HD11	1.87	0.57
24:Q:31:LEU:HA	24:Q:42:ALA:HB1	1.86	0.57
24:Q:65:TYR:HA	24:Q:70:ALA:HB3	1.87	0.57
25:R:128:LEU:HD21	25:R:161:ALA:HA	1.86	0.57
25:R:188:LYS:HB2	25:R:217:HIS:CG	2.39	0.57
25:R:370:LYS:C	25:R:373:PRO:HD2	2.24	0.57
25:R:393:PRO:HB2	25:R:397:ASN:OD1	2.04	0.57
26:S:15:VAL:HA	26:S:18:LEU:HG	1.87	0.57
26:S:401:LYS:HE2	26:S:444:GLU:HG2	1.86	0.57
22:O:380:LEU:HD11	27:T:255:GLN:HA	1.86	0.57
29:V:28:TYR:O	29:V:65:VAL:N	2.38	0.57
30:W:53:SER:OG	30:W:60:ARG:N	2.37	0.57
31:X:48:PHE:CD2	31:X:99:PHE:CZ	2.92	0.57
33:Z:161:ILE:O	33:Z:165:TYR:N	2.32	0.57
1:1:145:ASP:HB3	1:1:149:SER:N	2.20	0.57
1:1:29:GLY:O	1:1:74:ASN:ND2	2.29	0.57
1:1:46:THR:HG21	1:1:58:TYR:CD1	2.40	0.57
2:2:113:LEU:HB2	2:2:118:GLU:HG2	1.87	0.57
3:3:69:ALA:HB1	4:4:145:HIS:O	2.05	0.57
4:4:49:SER:O	4:4:56:ALA:N	2.36	0.57
1:8:110:ARG:O	1:8:114:HIS:ND1	2.37	0.57
2:9:58:ASP:HA	2:9:228:PHE:CB	2.35	0.57
10:C:195:LYS:HZ2	10:C:244:ILE:HG13	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C:18:ARG:NH2	11:D:29:ARG:HE	2.02	0.57
12:E:128:SER:CB	13:F:119:ASN:HA	2.35	0.57
13:F:116:ALA:HA	13:F:119:ASN:HD22	1.70	0.57
13:F:83:VAL:O	13:F:87:TYR:N	2.24	0.57
13:F:13:PHE:H	14:G:23:GLN:NE2	2.02	0.57
15:H:57:LYS:NZ	16:I:135:PHE:HD1	2.02	0.57
17:J:349:LYS:HB3	17:J:386:VAL:HG11	1.87	0.57
17:J:44:LEU:HA	17:J:47:GLN:HB2	1.86	0.57
18:K:169:VAL:O	18:K:225:ALA:HA	2.05	0.57
18:K:262:ARG:NH1	18:K:306:PHE:HB3	2.17	0.57
19:L:302:GLN:O	19:L:306:MET:N	2.35	0.57
19:L:311:GLN:O	19:L:316:ASP:HB2	2.05	0.57
19:L:221:TYR:CD1	19:L:330:PRO:HD3	2.40	0.57
20:M:245:LYS:HZ1	20:M:281:ASP:CG	2.07	0.57
21:N:124:TYR:HE2	21:N:164:ASP:OD2	1.86	0.57
21:N:578:ASP:OD1	21:N:579:SER:N	2.37	0.57
23:P:179:PHE:O	23:P:183:GLN:N	2.23	0.57
23:P:360:ILE:HD11	23:P:364:ARG:HG3	1.85	0.57
23:P:374:SER:O	23:P:378:THR:N	2.23	0.57
25:R:186:TYR:CE2	25:R:187:VAL:HG23	2.39	0.57
25:R:225:LYS:HZ2	25:R:261:LEU:HD23	1.69	0.57
25:R:80:GLU:HB3	25:R:94:PHE:HD2	1.70	0.57
26:S:343:LEU:HA	26:S:346:TYR:HB3	1.86	0.57
28:U:173:HIS:C	28:U:176:ARG:NH1	2.58	0.57
30:W:186:ALA:O	30:W:192:LEU:HD12	2.04	0.57
33:Z:309:GLN:HB2	33:Z:982:ILE:HD12	1.86	0.57
1:1:214:HIS:HE1	4:4:53:PRO:HB2	1.68	0.57
1:1:35:ALA:HB1	1:1:139:GLY:O	2.05	0.57
1:1:21:PHE:CG	2:2:142:PRO:HG3	2.40	0.57
2:2:126:PHE:CZ	2:2:161:ARG:HG2	2.39	0.57
7:7:210:PHE:CE1	7:7:242:ARG:HG2	2.40	0.57
1:8:28:GLY:HA3	1:8:49:ILE:HG13	1.86	0.57
9:B:32:VAL:HG11	9:B:63:LYS:HZ2	2.69	0.57
10:C:172:ALA:HB2	10:C:200:THR:HG21	1.86	0.57
11:D:12:SER:O	12:E:26:TYR:HB3	2.05	0.57
11:D:193:LYS:HZ1	11:D:235:GLN:CG	2.10	0.57
13:F:232:LYS:HE2	13:F:233:TYR:CE2	2.40	0.57
14:G:123:HIS:O	14:G:131:PRO:HG3	4.43	0.57
14:G:91:ARG:HD2	14:G:94:GLU:OE1	2.04	0.57
15:H:294:LEU:O	15:H:298:ALA:N	2.32	0.57
15:H:97:LEU:HD11	15:H:100:ALA:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:401:LEU:O	16:I:405:ARG:N	2.37	0.57
19:L:164:ASP:OD2	19:L:262:ILE:HA	2.05	0.57
19:L:265:GLU:OE2	19:L:269:TYR:HB2	2.05	0.57
19:L:89:ASP:O	19:L:93:ASN:N	2.32	0.57
21:N:250:ASP:OD2	21:N:906:ARG:NH2	2.35	0.57
21:N:612:SER:H	21:N:618:ARG:NH2	2.03	0.57
21:N:666:GLN:HE22	21:N:712:ASN:HA	1.69	0.57
23:P:168:TYR:CD1	23:P:171:MET:HB3	2.37	0.57
23:P:282:HIS:CD2	23:P:284:ILE:HA	2.40	0.57
23:P:369:LEU:HD23	23:P:371:LEU:HD12	1.86	0.57
23:P:5:ALA:HA	23:P:52:LEU:HB3	1.87	0.57
24:Q:145:HIS:HA	24:Q:148:LYS:HB3	1.87	0.57
25:R:292:LEU:HA	25:R:295:SER:HB3	1.87	0.57
25:R:372:ILE:HB	26:S:395:ILE:N	2.19	0.57
26:S:415:SER:OG	26:S:418:THR:OG1	2.22	0.57
27:T:109:TYR:O	27:T:112:ASN:HB3	2.05	0.57
29:V:111:HIS:HB3	29:V:114:PHE:CD2	2.40	0.57
31:X:38:ASN:HA	31:X:47:ASP:H	1.69	0.57
31:X:22:ARG:NH1	31:X:98:PHE:CE2	2.73	0.57
33:Z:217:GLU:HG2	33:Z:218:GLU:N	2.20	0.57
33:Z:970:TYR:HE2	33:Z:993:GLU:HG2	1.70	0.57
3:3:59:LYS:HB3	3:3:121:TYR:O	2.04	0.57
4:4:140:PHE:CE1	4:4:150:VAL:HB	2.40	0.57
4:4:66:ILE:HD11	4:4:72:CYS:HB2	1.86	0.57
7:7:207:GLY:HA3	7:7:239:ALA:HB1	1.85	0.57
2:9:180:GLY:O	2:9:184:ALA:N	2.31	0.57
10:C:107:PRO:HD2	10:C:110:ILE:HD12	1.87	0.57
9:B:12:PHE:N	10:C:21:GLN:HE22	2.01	0.57
10:C:69:LEU:HD22	10:C:91:ALA:HB3	1.86	0.57
11:D:16:HIS:CE1	12:E:33:LEU:HD11	2.39	0.57
13:F:36:VAL:HB	13:F:47:VAL:HB	1.87	0.57
12:E:169:ALA:HB3	13:F:56:LEU:HD23	1.86	0.57
14:G:54:ILE:HD11	14:G:213:GLU:HB2	1.86	0.57
14:G:95:GLU:O	14:G:99:PHE:N	2.31	0.57
16:I:88:LYS:O	16:I:92:GLU:HG3	2.05	0.57
17:J:209:LYS:HB2	17:J:243:SER:HB2	1.87	0.57
18:K:365:GLU:OE1	18:K:403:LEU:HB3	2.04	0.57
19:L:371:THR:OG1	19:L:374:PHE:N	2.34	0.57
19:L:76:GLN:HB3	19:L:80:ASN:HD21	1.69	0.57
21:N:285:ALA:O	21:N:289:ILE:N	2.34	0.57
21:N:495:PRO:HA	21:N:498:ILE:HB	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:776:TYR:HE1	21:N:779:GLU:OE2	1.87	0.57
22:O:127:LEU:O	22:O:130:ASP:HB2	2.05	0.57
22:O:309:SER:CB	22:O:348:VAL:H	2.18	0.57
23:P:297:GLU:O	23:P:301:LYS:N	2.31	0.57
24:Q:141:LEU:HA	24:Q:144:LEU:HD12	1.87	0.57
25:R:186:TYR:O	25:R:190:LYS:N	2.18	0.57
26:S:482:PRO:HG3	28:U:295:LYS:HB3	1.87	0.57
28:U:141:GLU:HA	28:U:153:THR:H	1.66	0.57
28:U:207:VAL:O	28:U:211:LEU:N	2.24	0.57
28:U:80:CYS:O	28:U:84:ASN:N	2.22	0.57
29:V:94:MET:O	29:V:98:THR:N	2.29	0.57
33:Z:914:LEU:HB3	33:Z:980:VAL:HG13	1.87	0.57
1:1:215:ILE:HD12	4:4:196:LEU:HB3	1.87	0.57
7:7:225:VAL:O	7:7:229:LEU:N	2.25	0.57
7:7:226:GLU:HA	7:7:229:LEU:HB2	1.87	0.57
7:7:83:PHE:CZ	7:7:225:VAL:HG22	2.39	0.57
8:A:133:TYR:CD2	14:G:126:TYR:CE1	2.92	0.57
9:B:190:HIS:CE1	9:B:194:LEU:HD21	2.40	0.57
10:C:226:TYR:CE2	10:C:228:LYS:HB2	2.40	0.57
9:B:160:LYS:N	10:C:56:LEU:O	2.22	0.57
11:D:109:LEU:O	11:D:112:TYR:HB3	2.04	0.57
13:F:51:ARG:O	13:F:60:GLN:N	2.37	0.57
15:H:225:VAL:HA	15:H:350:LYS:HE3	1.86	0.57
16:I:308:GLU:HA	16:I:311:ASN:HB2	1.86	0.57
17:J:329:ARG:HA	17:J:343:LEU:HD13	1.85	0.57
17:J:369:ALA:HA	17:J:372:GLU:HB2	1.86	0.57
18:K:97:GLY:HA3	18:K:111:SER:O	2.05	0.57
19:L:242:ASN:H	19:L:276:CYS:HA	1.70	0.57
20:M:137:PRO:HA	20:M:140:LEU:HB2	1.86	0.57
21:N:318:LYS:HG2	21:N:332:VAL:HB	1.85	0.57
21:N:444:HIS:HA	21:N:447:SER:HB2	1.86	0.57
21:N:46:ILE:HA	21:N:49:LEU:HD12	1.85	0.57
21:N:669:GLU:O	21:N:783:SER:OG	2.14	0.57
21:N:784:TYR:HD2	21:N:873:ARG:HH21	1.53	0.57
21:N:884:PHE:HE2	21:N:896:PHE:HA	1.70	0.57
21:N:95:SER:H	21:N:98:VAL:HB	1.70	0.57
22:O:130:ASP:OD2	22:O:167:ILE:HG13	2.05	0.57
22:O:310:PHE:CD2	22:O:311:GLU:OE2	2.58	0.57
24:Q:9:GLU:O	24:Q:13:ARG:HG3	2.05	0.57
24:Q:269:LYS:HA	24:Q:272:LEU:HB3	1.87	0.57
24:Q:55:GLU:HA	24:Q:58:ILE:HB	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:133:ALA:HA	25:R:136:ASN:ND2	2.20	0.57
27:T:122:PHE:HZ	27:T:145:PRO:HB2	1.69	0.57
28:U:192:ASN:HA	29:V:232:GLU:OE2	2.04	0.57
5:5:13:VAL:HG23	5:5:138:VAL:HG12	1.86	0.56
6:6:139:TYR:CD2	6:6:168:LEU:HD23	2.37	0.56
1:8:223:ILE:O	1:8:234:GLU:N	2.31	0.56
2:9:218:TYR:CZ	2:9:226:ARG:HB2	2.40	0.56
10:C:208:TYR:CG	10:C:236:LYS:HB2	2.40	0.56
12:E:167:TYR:HB3	12:E:169:ALA:O	2.05	0.56
13:F:94:TYR:O	13:F:98:VAL:N	2.26	0.56
15:H:255:GLY:O	15:H:259:CYS:N	2.29	0.56
15:H:380:PRO:HG2	15:H:416:GLY:N	2.19	0.56
16:I:362:LEU:HD21	16:I:384:LYS:HZ1	1.68	0.56
16:I:398:GLU:OE2	16:I:422:ARG:HD2	2.05	0.56
17:J:72:VAL:HG23	17:J:126:LEU:HD12	1.86	0.56
17:J:154:THR:HG22	17:J:158:LYS:HG3	1.87	0.56
17:J:373:ARG:HH22	24:Q:193:LYS:HG2	1.69	0.56
19:L:224:PRO:HA	19:L:228:LYS:HB3	1.88	0.56
20:M:12:LEU:HA	20:M:15:ASP:HB2	1.87	0.56
20:M:6:GLU:O	20:M:10:GLN:N	2.36	0.56
21:N:283:ASP:HB2	21:N:286:LEU:HG	1.86	0.56
21:N:340:HIS:ND1	21:N:345:ASP:HB3	2.20	0.56
21:N:581:ASP:HB3	21:N:616:HIS:CB	2.35	0.56
21:N:308:ASN:ND2	21:N:712:ASN:HD21	1.96	0.56
21:N:780:ASP:HA	21:N:783:SER:HB3	1.88	0.56
22:O:166:ARG:O	22:O:166:ARG:NH1	2.36	0.56
23:P:348:HIS:ND1	23:P:351:ARG:HD2	2.19	0.56
23:P:373:GLU:O	23:P:377:GLU:N	2.22	0.56
24:Q:72:ASP:HA	24:Q:75:ARG:NE	2.19	0.56
27:T:23:CYS:HA	27:T:26:LEU:HD12	1.87	0.56
29:V:202:ASP:CG	29:V:203:TYR:H	2.07	0.56
29:V:206:THR:HG21	29:V:208:LYS:HB3	1.87	0.56
3:3:20:THR:HA	3:3:188:SER:CB	2.34	0.56
3:3:36:ASP:HB2	3:3:189:GLY:O	2.04	0.56
2:2:220:ARG:NH2	4:4:168:GLU:OE2	2.38	0.56
4:4:63:LEU:HG	4:4:73:ALA:HB2	1.87	0.56
1:1:171:ASN:ND2	5:5:169:GLN:HB3	2.20	0.56
6:6:47:ALA:N	6:6:101:ASN:O	2.39	0.56
6:6:38:LEU:HD11	6:6:44:MET:HB2	1.86	0.56
5:5:62:THR:CA	6:6:85:ARG:HH22	2.18	0.56
1:8:95:HIS:CE1	1:8:102:LYS:HA	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:197:GLU:HA	1:8:200:ILE:HD12	1.87	0.56
2:9:161:ARG:NH1	2:9:171:SER:N	2.53	0.56
9:B:108:LYS:HG3	9:B:109:LEU:N	2.20	0.56
9:B:220:ASP:OD1	9:B:221:LEU:N	2.37	0.56
10:C:238:ILE:HG13	10:C:242:THR:HG23	1.87	0.56
10:C:59:GLN:CD	10:C:209:ASP:HA	2.26	0.56
12:E:41:ALA:HB2	12:E:155:LEU:HB2	1.87	0.56
15:H:426:ALA:O	15:H:430:ALA:N	2.23	0.56
16:I:117:HIS:HA	16:I:131:SER:HA	1.85	0.56
17:J:198:LEU:HD13	17:J:316:PHE:CD2	2.39	0.56
21:N:142:GLU:O	21:N:146:LYS:N	2.27	0.56
21:N:322:ASP:O	21:N:329:HIS:HB2	2.05	0.56
21:N:381:GLU:CD	21:N:381:GLU:H	2.08	0.56
23:P:260:VAL:O	23:P:264:ILE:HG13	2.05	0.56
23:P:12:ILE:C	23:P:61:LYS:HZ3	2.07	0.56
24:Q:302:VAL:HG13	24:Q:335:PHE:CZ	2.40	0.56
24:Q:424:ASP:HA	24:Q:427:PHE:HB3	1.87	0.56
25:R:147:LYS:HE3	25:R:177:LEU:O	2.05	0.56
25:R:33:LEU:HD13	25:R:47:ALA:HB2	1.87	0.56
26:S:338:MET:HG3	26:S:343:LEU:N	2.20	0.56
26:S:393:ARG:NH2	26:S:394:ILE:HD11	2.20	0.56
28:U:141:GLU:C	28:U:152:LYS:C	2.63	0.56
23:P:435:LYS:NZ	28:U:156:HIS:H	1.95	0.56
22:O:16:MET:N	30:W:18:ASN:OD1	2.38	0.56
31:X:15:CYS:H	31:X:99:PHE:HA	1.69	0.56
26:S:353:LYS:NZ	32:Y:67:VAL:HA	2.20	0.56
1:1:218:GLY:HA2	1:1:238:LEU:HB3	1.87	0.56
1:1:28:GLY:HA3	1:1:49:ILE:CG1	2.35	0.56
6:6:96:ARG:NH1	7:7:166:LYS:HD3	2.20	0.56
7:7:276:LYS:HZ2	7:7:285:VAL:HG12	1.70	0.56
1:8:218:GLY:HA2	1:8:238:LEU:HB3	1.87	0.56
1:8:35:ALA:HB1	1:8:139:GLY:O	2.05	0.56
1:8:73:ALA:HA	1:8:128:THR:HA	1.87	0.56
8:A:42:SER:O	8:A:171:THR:N	2.32	0.56
10:C:206:LEU:HD23	10:C:244:ILE:HD13	1.88	0.56
11:D:43:VAL:HG22	11:D:214:VAL:HG22	1.87	0.56
11:D:32:CYS:O	11:D:47:GLU:HG2	2.05	0.56
11:D:53:LYS:O	11:D:54:LEU:HB3	2.05	0.56
13:F:176:LEU:CD2	14:G:57:LYS:HE3	2.35	0.56
15:H:171:GLY:C	15:H:173:ARG:N	2.58	0.56
17:J:354:SER:O	17:J:358:VAL:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:407:LEU:O	18:K:411:TYR:N	2.21	0.56
18:K:96:ILE:CG1	19:L:128:ILE:HG13	2.35	0.56
19:L:357:ARG:NH1	19:L:385:GLY:H	2.03	0.56
19:L:77:ARG:HD2	20:M:15:ASP:HB3	1.88	0.56
19:L:92:GLU:HG2	19:L:96:LYS:NZ	2.20	0.56
20:M:241:ALA:HB3	20:M:277:ILE:HG13	1.87	0.56
21:N:98:VAL:HA	21:N:101:ILE:HG12	1.86	0.56
21:N:345:ASP:CG	21:N:347:SER:HG	2.09	0.56
22:O:180:LYS:HB2	22:O:188:PHE:CE1	2.40	0.56
22:O:172:TYR:HD2	22:O:198:THR:HG1	1.51	0.56
22:O:214:ALA:HA	22:O:217:LEU:HB3	1.85	0.56
23:P:36:LEU:HA	23:P:39:LEU:HB3	1.87	0.56
24:Q:164:GLU:HG3	24:Q:169:ASP:CB	2.35	0.56
24:Q:264:TYR:CD1	24:Q:330:LEU:HD13	2.41	0.56
24:Q:34:ASP:OD2	24:Q:50:ARG:NE	2.39	0.56
25:R:354:ALA:HB3	25:R:361:VAL:HG13	1.88	0.56
25:R:60:ALA:HB3	25:R:102:LEU:HD13	1.87	0.56
25:R:62:TYR:HE1	25:R:65:TYR:HD2	1.53	0.56
17:J:47:GLN:HE22	26:S:479:MET:CE	2.17	0.56
26:S:425:ARG:NE	27:T:154:GLU:HB2	2.20	0.56
21:N:327:LEU:HD11	29:V:164:LEU:HD21	1.87	0.56
29:V:162:GLY:N	29:V:165:ILE:HD12	2.19	0.56
27:T:261:GLU:HG2	29:V:292:ILE:HG23	1.87	0.56
29:V:40:HIS:NE2	29:V:49:VAL:HB	2.21	0.56
32:Y:83:ARG:HA	32:Y:86:ARG:HB3	1.87	0.56
33:Z:304:PRO:CA	33:Z:340:LEU:HD13	2.35	0.56
33:Z:564:ARG:HH21	33:Z:593:HIS:CG	2.22	0.56
1:1:31:ILE:O	1:1:158:GLY:N	2.27	0.56
2:2:161:ARG:NH1	2:2:171:SER:N	2.53	0.56
5:5:126:LEU:HD12	5:5:127:ILE:HG23	1.86	0.56
7:7:127:CYS:C	7:7:131:GLU:HB2	2.24	0.56
2:9:186:PRO:O	2:9:190:LYS:N	2.29	0.56
2:9:65:SER:HA	2:9:223:ARG:NH2	2.20	0.56
8:A:145:SER:HA	8:A:228:ALA:HB1	1.87	0.56
9:B:36:GLY:HA2	9:B:45:ILE:HA	1.87	0.56
12:E:15:PHE:HZ	13:F:126:ARG:HH11	2.00	0.56
12:E:196:ALA:HA	12:E:199:LEU:HB2	1.87	0.56
13:F:187:ASP:HB3	13:F:191:LYS:HZ3	1.70	0.56
13:F:43:HIS:CD2	13:F:217:GLY:HA3	2.41	0.56
15:H:169:GLU:HG2	15:H:170:GLU:CG	2.35	0.56
15:H:244:LYS:O	15:H:346:ARG:HD2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:109:LEU:O	16:I:144:GLY:HA2	2.06	0.56
17:J:318:PRO:CB	17:J:319:PRO:HA	2.31	0.56
18:K:176:GLY:HA3	18:K:348:GLU:HA	1.87	0.56
18:K:177:LEU:HD13	18:K:222:LEU:HD21	1.85	0.56
18:K:205:PRO:HG2	18:K:308:GLN:HB3	1.86	0.56
19:L:221:TYR:N	19:L:347:VAL:O	2.32	0.56
19:L:383:SER:HA	19:L:386:PHE:CE2	2.40	0.56
19:L:77:ARG:HD3	20:M:15:ASP:C	2.25	0.56
20:M:221:TYR:CD1	20:M:346:LYS:HG2	2.41	0.56
15:H:223:GLU:HB2	20:M:404:ARG:HE	1.70	0.56
21:N:184:LYS:O	21:N:188:TYR:N	2.28	0.56
21:N:449:GLY:O	21:N:452:LEU:HB3	2.05	0.56
21:N:880:ARG:HA	21:N:896:PHE:CE2	2.40	0.56
21:N:89:PHE:HE1	21:N:98:VAL:HG13	1.69	0.56
22:O:273:GLN:O	22:O:276:LYS:HB3	2.06	0.56
22:O:342:ASP:HA	23:P:359:ARG:HB2	1.86	0.56
22:O:45:LEU:HD23	22:O:48:PHE:CD2	2.40	0.56
23:P:415:TRP:O	23:P:419:VAL:N	2.29	0.56
24:Q:71:LYS:HG3	24:Q:104:PHE:CE2	2.39	0.56
24:Q:216:ALA:HB1	24:Q:246:TYR:CE2	2.40	0.56
24:Q:361:HIS:O	24:Q:365:ILE:N	2.27	0.56
24:Q:370:THR:O	24:Q:374:GLU:HG3	2.04	0.56
25:R:131:ALA:O	25:R:134:TRP:HB2	2.05	0.56
25:R:168:ILE:HG23	25:R:206:ARG:HE	1.69	0.56
26:S:312:GLN:HA	26:S:315:LYS:HD2	1.86	0.56
26:S:472:HIS:O	26:S:475:TYR:HD1	1.71	0.56
25:R:305:PHE:CE2	32:Y:79:ALA:HA	2.39	0.56
33:Z:404:ASP:HB3	33:Z:408:TYR:CE2	2.41	0.56
33:Z:772:ILE:HA	33:Z:775:MET:HB3	1.87	0.56
33:Z:968:ASP:OD1	33:Z:976:HIS:NE2	2.25	0.56
3:3:121:TYR:CE1	3:3:126:LYS:HA	2.40	0.56
7:7:162:VAL:O	7:7:166:LYS:N	2.37	0.56
2:9:50:ASP:O	2:9:158:GLN:NE2	2.38	0.56
4:4:86:GLN:HE21	9:B:99:ARG:HA	1.70	0.56
12:E:76:CYS:HB2	12:E:143:LEU:O	2.06	0.56
13:F:14:SER:OG	13:F:18:ARG:N	2.39	0.56
13:F:193:GLY:O	13:F:197:ILE:N	2.28	0.56
14:G:87:HIS:CD2	14:G:132:PHE:CE2	2.80	0.56
15:H:202:GLU:HA	15:H:270:THR:HA	1.87	0.56
15:H:58:ASP:HB3	16:I:133:LEU:HB3	1.88	0.56
15:H:58:ASP:OD1	16:I:134:SER:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:181:TYR:HB2	16:I:191:ILE:HD13	1.87	0.56
18:K:247:LEU:HA	18:K:294:ARG:HH12	1.70	0.56
20:M:316:SER:HA	20:M:341:GLY:HA2	1.87	0.56
21:N:461:GLU:HA	21:N:464:GLU:HB3	1.86	0.56
21:N:515:ARG:HD3	21:N:738:GLN:OE1	2.05	0.56
22:O:150:LEU:O	22:O:154:GLU:N	2.25	0.56
22:O:41:LEU:H	22:O:52:ALA:HB3	1.69	0.56
22:O:96:LEU:HD12	22:O:99:LEU:HD23	1.88	0.56
23:P:306:ASN:HD21	23:P:345:VAL:HG13	1.70	0.56
23:P:81:LEU:HD23	23:P:84:LYS:HD2	1.86	0.56
25:R:342:LEU:HD21	25:R:390:THR:HA	1.86	0.56
25:R:353:MET:HA	25:R:357:PHE:CE2	2.40	0.56
26:S:150:LYS:HG3	26:S:151:GLU:N	2.20	0.56
26:S:28:GLU:O	26:S:32:GLN:N	2.24	0.56
26:S:480:ARG:O	26:S:484:ASP:N	2.29	0.56
27:T:13:ILE:HG22	27:T:17:ASN:HD21	1.70	0.56
28:U:168:GLU:HA	28:U:171:VAL:HB	1.88	0.56
28:U:276:ILE:CA	29:V:291:ASN:ND2	2.68	0.56
20:M:17:GLU:HG2	30:W:72:ILE:HG22	1.88	0.56
33:Z:887:GLY:O	33:Z:889:VAL:HG13	2.06	0.56
1:1:132:GLY:HA2	1:1:226:VAL:HG11	1.86	0.56
2:2:137:ARG:O	2:2:140:MET:N	2.33	0.56
2:2:50:ASP:O	2:2:158:GLN:NE2	2.38	0.56
4:4:133:ASP:OD1	4:4:135:THR:OG1	2.23	0.56
4:4:44:ALA:HB2	4:4:204:VAL:HG22	1.88	0.56
5:5:17:GLY:N	5:5:20:CYS:O	2.38	0.56
6:6:36:ARG:HG2	6:6:46:PHE:HE2	1.71	0.56
7:7:172:MET:N	7:7:192:SER:HB3	2.20	0.56
1:8:168:PHE:CZ	1:8:172:GLN:HG3	2.41	0.56
9:B:119:GLN:NE2	10:C:86:ILE:HG13	2.20	0.56
9:B:147:LEU:HG	9:B:159:TRP:HB2	1.88	0.56
10:C:175:LEU:HB3	10:C:199:LYS:HZ3	1.70	0.56
10:C:214:ALA:HB2	10:C:229:ILE:HG12	1.88	0.56
11:D:159:TRP:HE3	12:E:58:LEU:HB2	1.70	0.56
11:D:226:SER:HA	11:D:229:ILE:HD12	1.87	0.56
13:F:204:GLU:OE2	13:F:210:ASN:ND2	2.39	0.56
13:F:206:LEU:HD13	13:F:211:LEU:HD22	1.88	0.56
15:H:425:GLU:HB2	16:I:345:ASP:OD2	2.06	0.56
16:I:354:ASP:N	16:I:357:THR:OG1	2.38	0.56
16:I:96:LEU:HD12	16:I:99:ILE:HD12	1.87	0.56
17:J:134:VAL:HA	17:J:138:MET:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:341:PRO:HB2	18:K:343:LEU:HD13	1.87	0.56
19:L:228:LYS:HG3	19:L:349:ILE:HD13	1.87	0.56
19:L:368:VAL:O	19:L:370:LYS:HG3	2.06	0.56
19:L:82:ARG:CB	19:L:86:LYS:HZ1	2.18	0.56
20:M:228:LYS:HZ1	20:M:327:THR:N	2.03	0.56
20:M:271:LYS:HA	20:M:274:ALA:HB2	1.88	0.56
20:M:405:ASN:HB3	20:M:411:LYS:HZ1	1.71	0.56
21:N:139:ARG:O	21:N:142:GLU:HB2	2.05	0.56
21:N:193:ALA:HA	21:N:196:THR:OG1	2.05	0.56
21:N:463:TYR:CE2	21:N:467:LYS:HD2	2.40	0.56
21:N:909:GLU:HB3	21:N:912:GLU:OE1	2.05	0.56
22:O:14:LEU:O	30:W:18:ASN:ND2	2.38	0.56
22:O:195:TYR:O	22:O:199:LEU:N	2.29	0.56
23:P:145:GLU:O	23:P:148:LYS:HB3	2.05	0.56
24:Q:355:GLU:HB2	24:Q:399:VAL:HA	1.86	0.56
25:R:168:ILE:HG23	25:R:209:ARG:HH12	1.70	0.56
25:R:301:TYR:OH	25:R:359:VAL:HG21	2.06	0.56
25:R:345:TYR:HB2	25:R:348:LEU:HB2	1.88	0.56
25:R:66:LEU:HA	25:R:69:GLU:HB2	1.88	0.56
26:S:152:LEU:CB	26:S:187:ILE:HG23	2.36	0.56
27:T:203:SER:HA	27:T:214:GLU:OE2	2.05	0.56
28:U:169:ILE:O	28:U:173:HIS:ND1	2.37	0.56
22:O:374:ASN:HD21	28:U:197:LEU:HB2	1.71	0.56
29:V:106:GLY:HA3	29:V:137:VAL:H	1.71	0.56
29:V:276:PRO:O	29:V:280:LEU:HD11	2.06	0.56
29:V:87:PHE:HA	29:V:90:LYS:HD2	1.86	0.56
30:W:11:ASP:HB2	30:W:115:CYS:H	1.70	0.56
30:W:25:ARG:O	30:W:29:GLN:HG3	2.05	0.56
33:Z:793:PHE:CE2	33:Z:827:LEU:HA	2.41	0.56
33:Z:887:GLY:HA2	33:Z:900:LEU:HD13	1.87	0.56
1:1:168:PHE:CZ	1:1:172:GLN:HG3	2.41	0.56
1:1:214:HIS:NE2	1:1:216:GLN:HB2	2.20	0.56
2:2:95:HIS:O	2:2:99:LEU:HG	2.04	0.56
3:3:26:THR:HG22	3:3:31:VAL:HB	1.86	0.56
3:3:36:ASP:OD2	3:3:38:ARG:HB3	2.06	0.56
5:5:182:GLY:HA2	5:5:202:MET:HE1	1.87	0.56
6:6:21:VAL:HG12	6:6:28:LEU:HB2	1.86	0.56
8:A:118:ALA:O	8:A:122:ALA:N	2.25	0.56
9:B:32:VAL:HG11	9:B:63:LYS:HZ1	1.70	0.56
10:C:45:VAL:HG21	10:C:189:ALA:HB3	1.88	0.56
9:B:119:GLN:HE22	10:C:86:ILE:HG13	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:66:LEU:HB2	11:D:94:GLN:HG3	1.88	0.56
12:E:144:ILE:O	12:E:156:PHE:N	2.39	0.56
13:F:179:PHE:O	13:F:182:ILE:N	2.38	0.56
14:G:169:ARG:O	14:G:173:LYS:HG3	2.06	0.56
14:G:194:LYS:HB3	14:G:242:PHE:CD1	2.40	0.56
15:H:156:VAL:H	20:M:76:PRO:HG3	1.71	0.56
15:H:228:PRO:HB2	15:H:350:LYS:HZ1	1.70	0.56
15:H:256:LYS:NZ	15:H:355:THR:O	2.39	0.56
15:H:97:LEU:CG	15:H:189:PRO:HB2	2.35	0.56
17:J:304:LEU:O	17:J:309:ARG:HB2	2.05	0.56
19:L:221:TYR:HA	19:L:228:LYS:NZ	2.21	0.56
19:L:330:PRO:HB2	19:L:346:LYS:HE3	1.88	0.56
21:N:668:THR:O	21:N:783:SER:OG	2.24	0.56
21:N:75:TYR:CB	21:N:104:LYS:HE2	2.36	0.56
21:N:893:VAL:HG13	21:N:906:ARG:HD3	1.86	0.56
22:O:169:ASN:HA	22:O:195:TYR:CE1	2.39	0.56
22:O:4:ASN:HB2	22:O:30:GLU:OE1	2.06	0.56
23:P:119:ILE:HD12	23:P:126:THR:HG23	1.87	0.56
23:P:124:VAL:HG12	23:P:130:ILE:H	1.71	0.56
23:P:253:ASP:OD1	23:P:256:LYS:N	2.39	0.56
23:P:249:ALA:HB2	23:P:257:TRP:CZ2	2.40	0.56
23:P:40:LEU:HB3	23:P:44:LYS:NZ	2.20	0.56
24:Q:125:ALA:CA	24:Q:130:ARG:HB3	2.36	0.56
24:Q:243:PHE:O	24:Q:247:HIS:N	2.23	0.56
25:R:338:TYR:CD1	25:R:341:LEU:HD12	2.39	0.56
27:T:169:GLN:NE2	27:T:173:GLU:H	2.03	0.56
27:T:194:GLU:HG3	27:T:235:PHE:CD2	2.40	0.56
29:V:108:TYR:HE1	29:V:141:VAL:HG21	1.61	0.56
24:Q:415:LEU:HD11	29:V:258:GLU:HA	1.86	0.56
30:W:164:PRO:HD2	30:W:168:THR:HG23	1.87	0.56
33:Z:823:ASN:ND2	33:Z:860:GLY:O	2.37	0.56
1:1:197:GLU:HA	1:1:200:ILE:HD12	1.88	0.56
2:2:65:SER:HA	2:2:223:ARG:NH2	2.20	0.56
3:3:195:VAL:HA	3:3:203:GLU:O	2.06	0.56
5:5:23:ILE:HG22	5:5:190:ILE:HD11	1.88	0.56
6:6:195:PHE:HA	6:6:198:GLN:HB2	1.88	0.56
6:6:49:GLU:O	6:6:53:THR:N	2.24	0.56
7:7:234:ARG:HH21	7:7:281:SER:HB2	1.71	0.56
8:A:135:ARG:NH1	14:G:15:PHE:CZ	3.30	0.56
9:B:179:TRP:HB3	10:C:56:LEU:HD11	1.87	0.56
9:B:190:HIS:O	9:B:194:LEU:HG	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:85:ALA:O	12:E:89:ILE:HG12	2.06	0.56
14:G:39:GLY:N	14:G:163:ALA:O	2.32	0.56
14:G:174:ALA:O	14:G:178:LYS:N	2.28	0.56
15:H:147:ILE:HG22	15:H:177:ASP:OD2	2.05	0.56
15:H:380:PRO:HB3	15:H:388:ILE:HD12	1.88	0.56
16:I:320:GLY:HA2	16:I:323:LYS:HE2	1.87	0.56
18:K:332:GLY:N	18:K:335:ASP:OD1	2.38	0.56
19:L:187:THR:HA	19:L:190:ILE:HD12	1.87	0.56
19:L:318:LEU:HB3	19:L:321:THR:O	2.06	0.56
19:L:397:GLU:HB2	19:L:418:ALA:HB1	1.87	0.56
19:L:66:GLU:HG2	19:L:69:ARG:HH21	1.69	0.56
15:H:238:LEU:HD22	20:M:402:ALA:HB3	1.88	0.56
21:N:114:SER:O	21:N:118:THR:N	2.34	0.56
21:N:545:SER:O	21:N:549:TYR:N	2.20	0.56
21:N:761:ILE:HG23	21:N:766:GLN:HG2	1.88	0.56
21:N:90:ASP:OD1	21:N:91:ILE:N	2.39	0.56
22:O:212:GLN:NE2	22:O:216:ASP:OD1	2.38	0.56
22:O:330:ARG:HB2	22:O:333:SER:C	2.25	0.56
23:P:147:LYS:NZ	23:P:155:GLU:OE2	2.36	0.56
23:P:353:ILE:HG23	23:P:357:TYR:CE2	2.41	0.56
24:Q:85:MET:O	24:Q:89:ALA:N	2.38	0.56
25:R:379:CYS:SG	25:R:388:VAL:HG13	2.46	0.56
26:S:156:VAL:HA	26:S:188:TYR:HE1	1.71	0.56
26:S:218:LEU:HA	26:S:230:LYS:HZ1	1.71	0.56
27:T:47:GLN:HB2	27:T:50:ILE:HG12	1.87	0.56
28:U:60:GLU:HG3	28:U:100:ARG:HD3	1.86	0.56
29:V:206:THR:O	29:V:210:THR:OG1	2.17	0.56
23:P:431:HIS:HA	29:V:230:TYR:CD2	2.40	0.56
32:Y:84:TYR:HA	32:Y:87:GLU:OE1	2.04	0.56
33:Z:156:HIS:O	33:Z:160:GLU:HG2	2.05	0.56
33:Z:225:LEU:HD21	33:Z:253:VAL:HG13	1.86	0.56
33:Z:762:GLY:HA3	33:Z:789:GLN:HG2	1.88	0.56
33:Z:804:ASP:OD2	33:Z:806:GLU:HB2	2.05	0.56
1:1:144:PHE:CD1	1:1:150:TYR:HB3	2.41	0.56
1:1:32:LEU:N	1:1:43:ALA:O	2.18	0.56
1:8:119:LYS:HB3	1:8:123:PRO:HA	1.86	0.56
9:B:111:VAL:HG21	9:B:148:TYR:CD2	2.41	0.56
12:E:205:LYS:NZ	12:E:211:LYS:HG3	2.21	0.56
13:F:64:ILE:HD12	13:F:72:LEU:HD11	1.88	0.56
14:G:37:SER:O	14:G:165:THR:N	2.35	0.56
16:I:118:ALA:N	16:I:130:VAL:O	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:310:LEU:CD1	16:I:338:LEU:HA	2.33	0.56
17:J:147:TYR:HA	17:J:197:LEU:HD21	1.88	0.56
17:J:257:ARG:HH12	17:J:296:ARG:NH1	2.02	0.56
17:J:375:ILE:HG13	25:R:204:TRP:CZ3	2.41	0.56
19:L:197:ILE:HG12	19:L:218:VAL:HG11	1.88	0.56
20:M:147:GLY:N	20:M:159:LEU:HG	2.20	0.56
21:N:421:ASP:O	21:N:425:ASN:N	2.34	0.56
21:N:43:LEU:O	21:N:47:GLU:HG2	2.06	0.56
21:N:875:LEU:HD23	21:N:877:GLN:HB2	1.88	0.56
22:O:29:PHE:O	22:O:33:TYR:N	2.38	0.56
22:O:332:ILE:O	22:O:335:GLY:N	2.36	0.56
23:P:56:LYS:NZ	23:P:91:LEU:HB2	2.21	0.56
24:Q:14:LEU:HB2	24:Q:23:ALA:HB2	1.87	0.56
24:Q:358:GLU:H	24:Q:361:HIS:CE1	2.24	0.56
25:R:141:TYR:CE2	25:R:149:ASN:HB2	2.41	0.56
26:S:19:HIS:HB2	26:S:27:GLU:CB	2.35	0.56
26:S:314:ASN:HA	26:S:317:HIS:HB3	1.88	0.56
28:U:234:ASN:O	28:U:259:ASN:ND2	2.38	0.56
29:V:111:HIS:HD2	29:V:141:VAL:H	1.52	0.56
29:V:259:LYS:HG2	29:V:263:GLU:OE2	2.05	0.56
28:U:166:ALA:HB1	29:V:38:LEU:HB3	1.88	0.56
30:W:5:ALA:HB3	30:W:101:ARG:HD2	1.88	0.56
31:X:14:VAL:O	31:X:29:VAL:HG21	2.05	0.56
33:Z:233:LEU:HD13	33:Z:264:PHE:HB3	1.88	0.56
33:Z:319:THR:O	33:Z:322:GLU:HG2	2.05	0.56
33:Z:374:LEU:HD13	33:Z:379:GLN:HB3	1.88	0.56
33:Z:547:MET:HG3	33:Z:551:LEU:HD12	1.87	0.56
2:2:218:TYR:CZ	2:2:226:ARG:HB2	2.40	0.56
3:3:20:THR:O	3:3:148:SER:OG	2.23	0.56
1:1:51:ASP:O	4:4:196:LEU:HD12	2.06	0.56
1:8:127:HIS:NE2	1:8:143:SER:HB2	2.20	0.56
8:A:14:ARG:HG2	8:A:26:TYR:CD1	2.41	0.56
9:B:136:ILE:N	9:B:148:TYR:O	2.37	0.56
10:C:43:GLY:HA2	10:C:146:TYR:CE1	2.41	0.56
10:C:42:ASP:OD2	10:C:185:LYS:HG3	2.06	0.56
11:D:163:THR:HG23	11:D:168:SER:HB2	1.87	0.56
12:E:109:VAL:O	12:E:113:THR:N	2.20	0.56
13:F:50:LYS:HE2	13:F:212:SER:HB2	1.88	0.56
14:G:185:GLU:HG3	14:G:186:GLY:N	2.21	0.56
14:G:90:ASN:HA	14:G:93:ARG:HB2	1.88	0.56
14:G:95:GLU:CG	14:G:115:ARG:HH11	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:160:GLY:O	15:H:162:ARG:HG2	2.06	0.56
16:I:422:ARG:HB3	17:J:307:PRO:HD2	1.86	0.56
18:K:327:ALA:HA	18:K:330:ARG:HG3	1.88	0.56
19:L:111:GLU:HA	19:L:117:TYR:HD1	1.70	0.56
20:M:299:ARG:O	20:M:303:ARG:N	2.19	0.56
20:M:74:GLN:HG2	20:M:77:TYR:CE2	2.41	0.56
21:N:111:GLN:C	21:N:115:LYS:NZ	2.59	0.56
21:N:109:TYR:HD1	21:N:133:LEU:HG	1.70	0.56
21:N:13:LEU:HD21	21:N:45:ASP:HB2	1.87	0.56
21:N:163:LEU:O	21:N:167:GLU:N	2.37	0.56
21:N:36:TRP:CE2	21:N:71:ASN:HB3	2.41	0.56
21:N:542:SER:HB3	21:N:548:ARG:HG3	1.88	0.56
17:J:53:ASP:H	21:N:611:LYS:HZ3	1.51	0.56
21:N:762:ARG:HB3	21:N:907:ASP:HB2	1.88	0.56
22:O:15:ARG:O	22:O:17:GLU:HG3	2.01	0.56
22:O:11:LEU:O	22:O:16:MET:HE2	2.05	0.56
22:O:4:ASN:HD21	22:O:39:PHE:CB	2.19	0.56
23:P:353:ILE:HG23	23:P:357:TYR:CD2	2.41	0.56
23:P:438:ILE:O	23:P:441:GLY:N	2.39	0.56
23:P:6:ASP:O	23:P:10:SER:N	2.23	0.56
24:Q:146:TYR:HA	24:Q:151:TYR:HE1	1.71	0.56
24:Q:178:HIS:HB3	24:Q:197:SER:O	2.06	0.56
24:Q:174:LEU:HG	24:Q:178:HIS:HE1	1.70	0.56
24:Q:185:TYR:O	24:Q:189:ARG:N	2.39	0.56
25:R:60:ALA:O	25:R:63:TYR:N	2.39	0.56
26:S:206:GLN:HA	26:S:209:ILE:HD12	1.88	0.56
27:T:33:GLU:HB3	27:T:37:ASN:ND2	2.21	0.56
27:T:91:SER:OG	27:T:94:HIS:HB2	2.06	0.56
28:U:21:HIS:HB3	28:U:33:CYS:SG	2.45	0.56
30:W:162:ASN:HA	30:W:168:THR:CB	2.36	0.56
30:W:8:LEU:HD22	30:W:33:VAL:HG11	1.88	0.56
33:Z:137:TYR:O	33:Z:141:SER:N	2.39	0.56
33:Z:141:SER:O	33:Z:206:ASP:HB2	2.05	0.56
33:Z:390:LEU:O	33:Z:859:LYS:N	2.34	0.56
1:1:214:HIS:CD2	1:1:217:VAL:HG23	2.36	0.56
3:3:106:TYR:HA	3:3:109:LYS:HE3	1.88	0.56
2:2:266:ILE:OXT	3:3:204:ARG:NH2	2.39	0.56
6:6:42:THR:HA	6:6:106:GLY:HA2	1.88	0.56
7:7:272:PHE:O	7:7:276:LYS:N	2.36	0.56
1:8:214:HIS:NE2	1:8:216:GLN:HB2	2.20	0.56
1:8:82:ALA:O	1:8:85:LYS:HB3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:198:SER:OG	8:A:201:LYS:HG2	2.06	0.56
8:A:49:ASP:OD1	8:A:50:CYS:N	2.39	0.56
8:A:63:LEU:O	14:G:161:LYS:N	2.39	0.56
11:D:37:LYS:HB3	11:D:42:VAL:HG22	1.88	0.56
13:F:6:TYR:CG	13:F:15:PRO:HD3	2.41	0.56
13:F:11:VAL:HG23	14:G:130:ARG:HB3	1.88	0.56
16:I:377:LEU:O	16:I:381:VAL:N	2.29	0.56
17:J:271:THR:O	17:J:274:GLU:HB3	2.05	0.56
19:L:263:ILE:HD12	19:L:307:GLU:OE1	2.06	0.56
19:L:327:THR:HG21	19:L:330:PRO:HA	1.87	0.56
20:M:405:ASN:ND2	20:M:411:LYS:HZ3	2.03	0.56
21:N:612:SER:N	21:N:618:ARG:HE	2.04	0.56
21:N:660:LEU:O	21:N:663:ILE:N	2.36	0.56
21:N:732:GLY:N	21:N:751:LEU:HD12	2.21	0.56
21:N:784:TYR:CB	21:N:873:ARG:HE	2.18	0.56
21:N:920:VAL:HA	21:N:923:MET:SD	2.46	0.56
22:O:173:SER:O	22:O:177:GLN:HG3	2.06	0.56
22:O:267:ASP:O	22:O:270:ILE:HG12	2.05	0.56
22:O:338:LYS:HZ3	22:O:353:VAL:N	2.03	0.56
22:O:34:GLU:HG2	22:O:36:LYS:HD2	1.88	0.56
22:O:91:ASP:OD1	22:O:92:PHE:N	2.35	0.56
24:Q:219:ASP:O	24:Q:238:TYR:HB3	2.06	0.56
24:Q:227:CYS:SG	24:Q:330:LEU:HD11	2.47	0.56
24:Q:409:TYR:HE2	25:R:402:LEU:HB2	1.70	0.56
24:Q:93:THR:O	24:Q:97:LEU:N	2.27	0.56
25:R:188:LYS:HB2	25:R:217:HIS:ND1	2.21	0.56
25:R:304:TYR:HA	25:R:307:TYR:CG	2.41	0.56
26:S:156:VAL:HG22	26:S:188:TYR:CD1	2.41	0.56
26:S:293:ILE:HD13	26:S:317:HIS:HA	1.88	0.56
26:S:330:LEU:HA	26:S:333:PHE:CD1	2.41	0.56
25:R:372:ILE:H	26:S:395:ILE:HG22	1.70	0.56
27:T:152:LEU:HA	27:T:157:TYR:HE1	1.71	0.56
28:U:167:GLU:HA	29:V:35:LEU:HD22	1.87	0.56
30:W:180:LEU:O	30:W:184:ASN:N	2.31	0.56
20:M:21:GLU:HB3	30:W:73:LEU:HD13	1.88	0.56
31:X:14:VAL:HG21	31:X:62:ASP:HB2	1.88	0.56
33:Z:415:MET:CG	33:Z:447:VAL:HG22	2.36	0.56
33:Z:428:TRP:NE1	33:Z:460:SER:O	2.38	0.56
33:Z:818:CYS:HB2	33:Z:830:LEU:CD2	2.35	0.56
33:Z:852:GLN:HA	33:Z:855:LEU:HB3	1.87	0.56
1:1:127:HIS:NE2	1:1:143:SER:HB2	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:51:ASN:O	2:2:235:LYS:HG2	2.07	0.55
3:3:106:TYR:HD2	3:3:107:GLU:OE2	1.89	0.55
4:4:195:ASP:HB3	4:4:198:SER:HB2	1.88	0.55
4:4:49:SER:N	4:4:57:ASP:O	2.32	0.55
4:4:225:ARG:NH1	5:5:151:GLU:HG3	2.21	0.55
5:5:56:LEU:O	5:5:60:VAL:HG23	2.06	0.55
6:6:162:LYS:HZ2	6:6:198:GLN:H	1.53	0.55
7:7:145:GLU:OE2	11:D:111:ARG:NH2	2.38	0.55
7:7:250:VAL:HB	7:7:266:HIS:HB2	1.88	0.55
2:9:218:TYR:HA	2:9:224:SER:OG	2.06	0.55
9:B:43:VAL:O	9:B:214:ILE:N	2.36	0.55
10:C:35:ALA:HA	10:C:48:ALA:HA	1.88	0.55
12:E:165:TYR:CB	13:F:57:SER:HB2	2.35	0.55
12:E:194:LYS:HA	12:E:197:GLU:CD	2.27	0.55
14:G:198:LYS:NZ	14:G:199:ILE:HG13	2.21	0.55
16:I:130:VAL:HG23	16:I:156:ILE:HG13	1.87	0.55
16:I:186:GLY:O	16:I:357:THR:HB	2.06	0.55
16:I:423:VAL:HG13	17:J:306:ARG:HD3	1.88	0.55
18:K:98:GLN:N	18:K:111:SER:HB2	2.17	0.55
18:K:269:ILE:O	18:K:315:ILE:N	2.34	0.55
18:K:349:ARG:HH21	18:K:377:SER:N	2.04	0.55
19:L:117:TYR:HB2	19:L:129:VAL:HG23	1.88	0.55
19:L:263:ILE:HG22	19:L:311:GLN:HE22	1.71	0.55
20:M:284:ASP:OD1	20:M:331:ASP:N	2.37	0.55
20:M:392:LYS:HG2	20:M:396:VAL:HG23	1.88	0.55
21:N:406:TYR:CZ	21:N:410:LEU:HD21	2.41	0.55
21:N:591:LEU:HB3	21:N:595:LEU:HD12	1.88	0.55
21:N:712:ASN:CG	21:N:873:ARG:NH1	2.59	0.55
22:O:319:LEU:HD21	22:O:327:LEU:HD12	1.88	0.55
23:P:80:THR:HG22	23:P:84:LYS:HE3	1.87	0.55
24:Q:363:SER:HB3	24:Q:368:LEU:O	2.07	0.55
25:R:288:SER:HB2	25:R:311:THR:OG1	2.06	0.55
27:T:190:ALA:HB1	27:T:226:TRP:CH2	2.41	0.55
27:T:26:LEU:O	27:T:29:PRO:HD2	2.06	0.55
28:U:152:LYS:HG2	28:U:153:THR:N	2.21	0.55
29:V:55:GLY:H	29:V:102:GLN:HB3	1.70	0.55
29:V:36:LYS:HE2	29:V:69:PHE:HA	1.88	0.55
31:X:17:TYR:CE1	31:X:66:LEU:HD22	2.40	0.55
2:2:35:GLN:HE22	2:2:143:LEU:C	2.10	0.55
2:2:218:TYR:HA	2:2:224:SER:OG	2.05	0.55
4:4:244:GLU:HA	5:5:198:ARG:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:98:ARG:C	5:5:101:GLY:H	2.09	0.55
6:6:143:LEU:HD22	6:6:147:HIS:HE1	1.70	0.55
6:6:148:TYR:C	6:6:149:ARG:HH11	2.03	0.55
7:7:255:VAL:HA	7:7:260:TRP:HA	1.89	0.55
1:8:132:GLY:HA2	1:8:226:VAL:HG11	1.86	0.55
2:9:179:PHE:HE2	2:9:217:LEU:HA	1.71	0.55
9:B:20:GLN:O	9:B:24:ALA:N	2.39	0.55
11:D:225:SER:N	11:D:228:GLU:OE1	2.36	0.55
10:C:149:TYR:CE2	11:D:59:ILE:HB	2.45	0.55
13:F:231:ALA:HA	13:F:234:ILE:HD12	1.88	0.55
13:F:80:ASP:O	13:F:84:LEU:HG	2.06	0.55
13:F:94:TYR:CZ	13:F:98:VAL:HG21	2.41	0.55
14:G:109:ILE:O	14:G:113:ALA:N	2.39	0.55
14:G:77:VAL:HG13	14:G:137:ILE:HB	1.88	0.55
15:H:145:TYR:HB3	15:H:168:ILE:HG22	1.87	0.55
15:H:303:ALA:N	15:H:348:ASN:HB3	2.20	0.55
17:J:304:LEU:HA	17:J:309:ARG:HD2	1.87	0.55
17:J:318:PRO:HD2	17:J:319:PRO:CA	2.20	0.55
18:K:240:SER:O	19:L:256:ILE:HD11	2.06	0.55
18:K:251:PRO:HB3	18:K:298:GLU:HG2	1.89	0.55
18:K:63:LEU:O	18:K:66:ASP:N	2.40	0.55
18:K:69:LYS:HG3	18:K:70:ASP:OD1	2.06	0.55
19:L:81:ILE:HD11	20:M:18:LEU:HD13	1.88	0.55
20:M:145:LEU:HD12	20:M:160:PRO:O	2.06	0.55
20:M:357:ARG:HB3	20:M:391:LEU:HD11	1.87	0.55
21:N:225:LEU:HA	21:N:228:VAL:HB	1.89	0.55
21:N:543:ASP:OD1	21:N:544:GLU:N	2.38	0.55
22:O:167:ILE:HG23	22:O:168:THR:N	2.20	0.55
22:O:191:THR:O	22:O:195:TYR:N	2.36	0.55
22:O:382:LYS:HZ2	22:O:383:LYS:HD3	1.72	0.55
23:P:285:GLN:O	23:P:288:ASN:HA	2.06	0.55
23:P:321:VAL:HG21	23:P:327:LEU:HD23	1.88	0.55
23:P:390:TYR:HB3	23:P:403:GLU:CB	2.29	0.55
26:S:317:HIS:CE1	26:S:321:GLN:HE22	2.25	0.55
27:T:174:PHE:O	27:T:176:SER:N	2.39	0.55
25:R:422:ARG:NH1	28:U:299:LYS:HE2	2.21	0.55
29:V:33:ALA:HB2	29:V:67:ASP:HA	1.88	0.55
31:X:63:PRO:C	31:X:65:SER:H	2.07	0.55
33:Z:150:GLY:HA3	33:Z:154:ILE:HD12	1.87	0.55
33:Z:761:PHE:CE2	33:Z:783:VAL:HG11	2.41	0.55
1:1:208:THR:O	1:1:212:GLU:HG2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:231:ALA:HA	2:2:241:PHE:HA	1.88	0.55
3:3:93:SER:OG	3:3:96:THR:N	2.35	0.55
1:8:28:GLY:HA3	1:8:49:ILE:CD1	2.36	0.55
2:9:35:GLN:HE22	2:9:143:LEU:C	2.10	0.55
8:A:115:ASP:OD1	8:A:116:VAL:N	2.39	0.55
9:B:161:ALA:HB3	10:C:56:LEU:HD23	1.87	0.55
10:C:119:LYS:HZ2	10:C:152:ASN:N	2.04	0.55
10:C:191:GLU:HG3	10:C:242:THR:HB	1.89	0.55
14:G:12:ASN:ND2	14:G:129:VAL:HG23	2.21	0.55
15:H:150:LYS:O	15:H:154:LYS:HB2	2.06	0.55
15:H:404:TRP:HH2	15:H:443:PHE:CE1	2.24	0.55
15:H:97:LEU:HB3	15:H:177:ASP:HA	1.86	0.55
16:I:106:ILE:HB	17:J:93:LYS:O	2.06	0.55
16:I:248:VAL:HG22	16:I:282:ASP:OD2	2.06	0.55
16:I:369:MET:HB2	16:I:396:CYS:HB3	1.87	0.55
16:I:400:GLY:O	16:I:404:LEU:N	2.24	0.55
18:K:169:VAL:HG21	18:K:224:LYS:HE3	1.88	0.55
18:K:392:LEU:O	18:K:396:ARG:N	2.35	0.55
19:L:277:ILE:HD13	19:L:322:LYS:HB2	1.87	0.55
20:M:162:GLU:C	20:M:164:ASP:H	2.10	0.55
20:M:219:LEU:N	20:M:345:ARG:O	2.36	0.55
21:N:340:HIS:HB2	21:N:374:ILE:HG12	1.86	0.55
21:N:361:ASN:HB3	21:N:399:PHE:CE2	2.42	0.55
21:N:510:HIS:NE2	29:V:59:ASP:OD2	2.39	0.55
22:O:5:HIS:HE1	22:O:31:LYS:N	2.04	0.55
22:O:83:LEU:HD23	22:O:98:TYR:CE1	2.41	0.55
23:P:109:SER:N	23:P:112:LEU:HG	2.21	0.55
23:P:107:SER:CB	23:P:111:ASP:CG	2.64	0.55
23:P:143:LEU:O	23:P:147:LYS:N	2.24	0.55
24:Q:134:LYS:O	24:Q:138:SER:N	2.35	0.55
24:Q:230:LYS:HG3	24:Q:232:TYR:CE1	2.41	0.55
24:Q:99:THR:HG23	24:Q:103:LYS:NZ	2.20	0.55
24:Q:409:TYR:HB3	25:R:399:GLN:HG3	1.88	0.55
26:S:347:HIS:HA	26:S:350:LYS:HB3	1.89	0.55
26:S:390:THR:HG23	26:S:394:ILE:HD11	1.88	0.55
25:R:373:PRO:CD	26:S:395:ILE:HG23	2.11	0.55
26:S:485:LYS:HD2	28:U:299:LYS:HE3	1.88	0.55
27:T:105:LEU:O	27:T:109:TYR:N	2.38	0.55
28:U:141:GLU:N	28:U:153:THR:CA	2.69	0.55
29:V:254:ARG:HG3	29:V:287:THR:OG1	2.04	0.55
30:W:20:ASP:N	30:W:25:ARG:HB2	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:52:ILE:HD12	30:W:90:ALA:HB1	1.87	0.55
33:Z:117:ASP:HB2	33:Z:144:SER:HA	1.89	0.55
4:4:126:TYR:HD1	4:4:143:HIS:HD1	1.54	0.55
5:5:66:MET:HG2	5:5:70:LYS:HE3	1.87	0.55
6:6:137:GLY:HA3	6:6:141:PHE:CZ	2.41	0.55
6:6:165:VAL:HG12	6:6:169:GLU:OE2	2.06	0.55
8:A:147:ASP:O	8:A:151:GLY:N	2.31	0.55
4:4:215:TYR:O	9:B:226:GLY:HA3	2.07	0.55
10:C:181:LYS:NZ	10:C:184:MET:HG2	2.21	0.55
11:D:216:LYS:HB2	11:D:220:ASP:CG	2.26	0.55
12:E:16:SER:OG	12:E:20:ARG:N	2.39	0.55
12:E:201:LEU:HD12	12:E:212:LEU:HD11	1.89	0.55
13:F:11:VAL:HG21	14:G:128:SER:HA	1.95	0.55
17:J:171:PRO:HA	17:J:181:GLN:OE1	2.04	0.55
17:J:89:GLN:OE1	17:J:112:ARG:NH1	2.32	0.55
19:L:265:GLU:HA	19:L:268:ALA:HB3	1.87	0.55
20:M:196:ALA:HB2	20:M:345:ARG:HG3	1.89	0.55
20:M:348:GLU:HB2	20:M:350:PRO:HD3	1.87	0.55
21:N:138:GLU:HA	21:N:141:ILE:HB	1.88	0.55
18:K:56:LYS:NZ	21:N:196:THR:HG22	2.21	0.55
21:N:655:ALA:O	21:N:659:ALA:N	2.26	0.55
22:O:106:PHE:N	22:O:110:ASP:OD1	2.40	0.55
22:O:338:LYS:CB	22:O:351:SER:HB2	2.37	0.55
22:O:84:ALA:O	22:O:87:LYS:HB3	2.06	0.55
23:P:180:ILE:O	23:P:184:MET:HG3	2.06	0.55
23:P:12:ILE:C	23:P:61:LYS:NZ	2.60	0.55
23:P:94:GLN:OE1	23:P:130:ILE:HD12	2.06	0.55
24:Q:14:LEU:O	24:Q:19:GLN:N	2.38	0.55
24:Q:401:GLU:HG2	24:Q:402:THR:H	1.71	0.55
25:R:176:ARG:HA	25:R:243:LEU:CD2	2.35	0.55
25:R:229:LYS:HG2	25:R:233:ASP:OD2	2.06	0.55
25:R:307:TYR:HD1	25:R:310:GLU:OE1	1.90	0.55
25:R:334:ARG:NH2	25:R:364:LEU:O	2.36	0.55
26:S:335:GLN:C	26:S:337:ASN:HD22	2.04	0.55
26:S:337:ASN:O	26:S:339:GLN:HG2	2.06	0.55
29:V:111:HIS:NE2	29:V:118:LEU:HD13	2.21	0.55
30:W:139:VAL:HG11	30:W:157:PHE:HE2	1.71	0.55
30:W:15:TYR:O	30:W:18:ASN:N	2.34	0.55
33:Z:574:TYR:HB2	33:Z:581:VAL:HG12	1.88	0.55
33:Z:737:ALA:HB1	33:Z:775:MET:HB2	1.89	0.55
33:Z:875:LYS:HA	33:Z:878:LEU:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:206:SER:O	1:1:210:ALA:N	2.28	0.55
1:1:82:ALA:O	1:1:85:LYS:HB3	2.06	0.55
2:2:80:ASP:OD1	2:2:81:ASN:N	2.38	0.55
3:3:162:ARG:NH2	3:3:165:MET:HG2	2.20	0.55
5:5:62:THR:HA	6:6:85:ARG:NH2	2.21	0.55
6:6:162:LYS:HZ1	6:6:198:GLN:H	1.50	0.55
7:7:125:ALA:N	1:8:149:SER:HB2	2.22	0.55
1:8:215:ILE:HG13	1:8:216:GLN:N	2.22	0.55
2:9:113:LEU:HB2	2:9:118:GLU:HG2	1.87	0.55
9:B:140:ASP:N	9:B:140:ASP:OD1	2.38	0.55
14:G:43:ASN:HD21	14:G:188:SER:HA	1.72	0.55
13:F:117:GLN:HG2	14:G:87:HIS:HB2	1.87	0.55
16:I:114:ASP:C	16:I:116:ASP:H	2.09	0.55
16:I:172:LYS:HZ3	16:I:234:LYS:CE	2.18	0.55
18:K:349:ARG:HH11	18:K:375:ASN:HB3	1.71	0.55
19:L:302:GLN:HE21	19:L:306:MET:HB2	1.71	0.55
20:M:167:VAL:HG12	20:M:169:ALA:HB3	1.89	0.55
20:M:27:THR:HA	20:M:30:LEU:HD12	1.87	0.55
20:M:82:VAL:HA	20:M:119:VAL:HG12	1.89	0.55
21:N:100:THR:O	21:N:104:LYS:N	2.26	0.55
21:N:390:LEU:O	21:N:393:SER:OG	2.20	0.55
21:N:651:PHE:HB2	21:N:694:LEU:HD13	1.88	0.55
22:O:138:LEU:O	22:O:138:LEU:HD23	2.06	0.55
22:O:151:ASP:HA	22:O:154:GLU:HB3	1.88	0.55
22:O:187:SER:OG	22:O:188:PHE:N	2.39	0.55
22:O:338:LYS:HZ2	22:O:352:TRP:C	2.10	0.55
22:O:5:HIS:CA	22:O:8:ASP:HB2	2.34	0.55
23:P:415:TRP:O	23:P:419:VAL:HG23	2.07	0.55
23:P:80:THR:O	23:P:84:LYS:HG3	2.06	0.55
24:Q:65:TYR:O	24:Q:70:ALA:N	2.39	0.55
24:Q:7:LYS:O	24:Q:11:ALA:N	2.27	0.55
25:R:411:LEU:O	25:R:415:GLN:N	2.28	0.55
26:S:240:ASP:HA	26:S:243:ASN:ND2	2.20	0.55
26:S:258:GLU:HA	26:S:272:TYR:CZ	2.41	0.55
27:T:182:LYS:HA	27:T:185:ILE:HD12	1.88	0.55
29:V:52:LEU:HD13	29:V:69:PHE:CZ	2.41	0.55
30:W:131:THR:HA	30:W:134:LYS:HB2	1.89	0.55
33:Z:109:PRO:HA	33:Z:202:ARG:NH1	2.22	0.55
33:Z:445:PRO:HA	33:Z:448:LYS:HB2	1.88	0.55
33:Z:553:ARG:HA	33:Z:557:GLU:OE1	2.06	0.55
1:1:215:ILE:HG13	1:1:216:GLN:N	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:15:GLU:HB3	4:4:145:HIS:HB2	1.89	0.55
4:4:206:VAL:HB	4:4:214:GLU:CG	2.37	0.55
1:8:57:ARG:NH1	1:8:240:ARG:O	2.27	0.55
10:C:119:LYS:HD3	10:C:153:PRO:HA	1.89	0.55
10:C:181:LYS:HZ3	10:C:184:MET:HG2	1.97	0.55
12:E:203:ILE:O	12:E:206:GLN:HB3	2.07	0.55
12:E:235:LYS:HA	12:E:238:GLU:CD	2.27	0.55
13:F:187:ASP:HB3	13:F:191:LYS:HZ2	2.35	0.55
12:E:165:TYR:CE1	13:F:60:GLN:HB2	2.42	0.55
14:G:126:TYR:CA	14:G:129:VAL:HG22	2.47	0.55
14:G:45:GLY:CA	14:G:146:ALA:HB2	2.36	0.55
14:G:218:TRP:CD1	14:G:231:VAL:HG23	2.42	0.55
15:H:222:ARG:HA	15:H:226:GLU:HB3	1.89	0.55
15:H:57:LYS:HZ2	16:I:135:PHE:HD1	1.54	0.55
16:I:347:LYS:NZ	16:I:349:LEU:HB3	2.20	0.55
18:K:269:ILE:HG12	18:K:312:VAL:CG1	2.36	0.55
19:L:108:VAL:HG13	19:L:119:VAL:HG22	1.89	0.55
20:M:186:LEU:HD11	20:M:226:THR:HB	1.88	0.55
20:M:198:VAL:HA	20:M:239:THR:HG22	1.88	0.55
21:N:103:SER:O	21:N:106:ILE:N	2.40	0.55
21:N:581:ASP:O	21:N:584:ARG:N	2.38	0.55
21:N:732:GLY:H	21:N:751:LEU:HD12	1.71	0.55
21:N:768:ILE:O	21:N:917:ILE:HB	2.06	0.55
22:O:301:PHE:HB2	22:O:305:ILE:HA	1.89	0.55
25:R:173:THR:O	25:R:177:LEU:N	2.32	0.55
25:R:58:GLU:HB2	25:R:102:LEU:HD12	1.89	0.55
26:S:164:ILE:HB	26:S:165:PRO:HD3	1.88	0.55
26:S:474:GLU:HA	26:S:477:VAL:CG2	2.36	0.55
27:T:139:ASP:HB3	27:T:142:LEU:HB2	1.88	0.55
27:T:211:PHE:HB3	27:T:216:GLU:OE1	2.06	0.55
27:T:43:ASP:OD2	27:T:50:ILE:HD13	2.07	0.55
28:U:174:LEU:HD11	29:V:210:THR:HA	1.88	0.55
28:U:30:ASN:HD21	28:U:31:LYS:NZ	2.05	0.55
29:V:107:TRP:O	29:V:138:ALA:C	2.45	0.55
29:V:140:VAL:O	29:V:153:ILE:HG13	2.07	0.55
29:V:257:GLU:OE1	29:V:287:THR:HG21	2.07	0.55
30:W:46:GLU:O	30:W:48:THR:HG23	2.06	0.55
31:X:15:CYS:SG	31:X:16:GLU:N	2.79	0.55
32:Y:85:LYS:HA	32:Y:88:ASN:ND2	2.22	0.55
33:Z:374:LEU:HD11	33:Z:849:ARG:NH1	2.22	0.55
1:1:169:LEU:O	1:1:172:GLN:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:241:ASP:HA	4:4:193:TRP:HA	1.89	0.55
5:5:21:VAL:HG22	5:5:112:ILE:HG13	1.89	0.55
1:8:32:LEU:HA	1:8:157:ALA:HA	1.89	0.55
2:9:96:ILE:HA	2:9:99:LEU:HD12	1.89	0.55
8:A:121:MET:O	8:A:124:LEU:HB2	2.07	0.55
8:A:68:THR:HG21	14:G:159:GLY:CA	2.29	0.55
9:B:81:ASP:HB2	9:B:132:VAL:HG13	1.89	0.55
11:D:17:ILE:HD11	12:E:136:ARG:HD3	1.88	0.55
12:E:73:HIS:CD2	12:E:74:ILE:HG13	2.42	0.55
14:G:204:HIS:NE2	14:G:208:LYS:HA	2.22	0.55
15:H:223:GLU:HG2	20:M:400:MET:HB3	1.88	0.55
17:J:149:MET:O	17:J:153:LEU:N	7.65	0.55
17:J:56:ARG:O	17:J:60:ASP:N	2.35	0.55
18:K:51:LEU:HA	18:K:55:GLU:H	1.72	0.55
18:K:396:ARG:NH2	19:L:192:GLU:OE2	2.40	0.55
20:M:169:ALA:HB1	20:M:250:GLN:OE1	2.07	0.55
20:M:225:GLY:O	20:M:388:GLY:N	2.40	0.55
20:M:235:CYS:HA	20:M:238:GLN:HB3	1.89	0.55
22:O:106:PHE:CG	22:O:107:GLN:N	2.75	0.55
22:O:310:PHE:O	22:O:313:ILE:HB	2.07	0.55
23:P:417:HIS:HA	23:P:420:ASP:CB	2.35	0.55
23:P:55:SER:OG	23:P:58:VAL:HG23	2.06	0.55
24:Q:64:LEU:O	24:Q:68:MET:N	2.39	0.55
25:R:158:LEU:HA	25:R:161:ALA:HB2	1.87	0.55
27:T:118:ASN:HB3	27:T:121:LYS:HZ3	1.71	0.55
29:V:37:MET:SD	29:V:68:VAL:CG1	2.95	0.55
31:X:10:PHE:HE1	31:X:124:LYS:HB3	1.72	0.55
31:X:13:GLY:HA2	31:X:50:TRP:HE1	1.72	0.55
33:Z:253:VAL:HB	33:Z:254:PRO:HD3	1.89	0.55
4:4:99:THR:HB	4:4:101:ARG:HH11	1.71	0.55
1:8:144:PHE:CD1	1:8:150:TYR:HB3	2.41	0.55
1:8:214:HIS:HE2	1:8:216:GLN:HB2	1.72	0.55
2:9:231:ALA:HA	2:9:241:PHE:HA	1.88	0.55
2:9:51:ASN:O	2:9:235:LYS:HG2	2.07	0.55
8:A:75:ILE:HG21	8:A:117:LEU:HD21	1.88	0.55
9:B:13:SER:OG	9:B:15:SER:OG	2.17	0.55
10:C:19:LEU:O	10:C:23:GLU:HG2	2.06	0.55
11:D:162:GLN:NE2	11:D:163:THR:H	2.05	0.55
12:E:167:TYR:CD2	12:E:170:LYS:HD3	2.42	0.55
12:E:182:GLU:O	12:E:186:GLU:N	2.23	0.55
13:F:120:THR:OG1	13:F:121:GLN:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:119:ILE:HA	16:I:129:TYR:HA	1.86	0.55
17:J:251:ASP:HB3	17:J:293:ALA:O	2.07	0.55
18:K:136:SER:O	18:K:150:LEU:N	2.34	0.55
18:K:365:GLU:HG2	18:K:404:GLN:CB	2.35	0.55
18:K:365:GLU:O	18:K:404:GLN:HB2	2.06	0.55
19:L:318:LEU:HD13	19:L:322:LYS:HA	1.89	0.55
19:L:72:ASP:HA	19:L:75:LYS:HZ1	1.71	0.55
20:M:414:ASP:O	20:M:418:GLY:N	2.37	0.55
21:N:120:ASP:OD1	21:N:121:GLU:N	2.40	0.55
21:N:246:LYS:HZ2	21:N:280:GLN:HB3	1.72	0.55
21:N:346:ASN:HB2	21:N:350:LYS:NZ	2.20	0.55
22:O:367:LYS:NZ	28:U:201:GLN:NE2	2.55	0.55
23:P:417:HIS:HA	23:P:420:ASP:HB2	1.88	0.55
24:Q:11:ALA:O	24:Q:15:VAL:HG23	2.06	0.55
24:Q:122:ILE:O	24:Q:125:ALA:HB3	2.06	0.55
25:R:338:TYR:O	25:R:342:LEU:N	2.23	0.55
25:R:338:TYR:OH	25:R:364:LEU:HD11	2.07	0.55
26:S:246:GLU:OE2	27:T:121:LYS:HA	2.06	0.55
28:U:64:ASP:CG	28:U:105:LYS:HZ2	2.10	0.55
28:U:17:SER:HB3	29:V:32:ILE:HG21	1.88	0.55
28:U:86:LYS:HA	28:U:88:LYS:NZ	2.22	0.55
29:V:107:TRP:HE1	29:V:129:PHE:HD2	1.55	0.55
24:Q:415:LEU:HD21	29:V:261:LEU:HB2	1.89	0.55
30:W:109:ARG:NH2	30:W:196:SER:HA	2.22	0.55
31:X:12:ALA:O	31:X:33:ILE:N	2.38	0.55
33:Z:391:ASN:HA	33:Z:394:TYR:HD2	1.71	0.55
33:Z:400:ILE:HG21	33:Z:422:ILE:HG23	1.89	0.55
33:Z:919:GLU:HB3	33:Z:923:ILE:HG21	1.88	0.55
4:4:46:ASP:CG	4:4:62:LYS:NZ	2.59	0.55
5:5:113:ASN:O	5:5:117:GLY:N	2.40	0.55
6:6:108:ASP:OD1	6:6:110:LYS:N	2.39	0.55
1:8:237:GLU:CD	2:9:194:ARG:HH12	2.07	0.55
8:A:48:LYS:N	8:A:194:ILE:O	2.40	0.55
8:A:92:ASN:O	8:A:95:LEU:HB3	2.07	0.55
6:6:79:ALA:N	10:C:104:GLU:OE2	2.40	0.55
11:D:120:TYR:HD1	11:D:126:VAL:HG21	1.72	0.55
13:F:168:ALA:N	13:F:200:SER:OG	2.31	0.55
13:F:54:ASP:N	13:F:57:SER:OG	2.40	0.55
15:H:292:ARG:CG	15:H:339:GLN:HE22	2.19	0.55
17:J:342:ASN:O	17:J:379:GLN:NE2	2.40	0.55
18:K:136:SER:HB2	18:K:150:LEU:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:158:ILE:HG22	18:K:160:VAL:N	2.21	0.55
17:J:24:GLU:HB2	18:K:48:TYR:CZ	2.42	0.55
19:L:170:MET:HG2	19:L:266:MET:CG	2.34	0.55
20:M:74:GLN:NE2	20:M:150:LYS:HE3	2.21	0.55
20:M:298:ASP:HB3	20:M:301:VAL:HG22	1.89	0.55
21:N:726:ASP:CG	21:N:729:SER:H	2.01	0.55
22:O:165:LEU:O	22:O:169:ASN:N	2.22	0.55
23:P:101:MET:HG3	23:P:139:VAL:HG21	1.88	0.55
23:P:40:LEU:HA	23:P:43:GLU:HB3	1.89	0.55
23:P:47:ARG:HG3	23:P:49:ALA:N	2.03	0.55
23:P:70:ASN:ND2	23:P:78:GLN:OE1	2.40	0.55
24:Q:256:GLU:OE2	24:Q:259:CYS:HB2	2.06	0.55
24:Q:8:LEU:N	24:Q:50:ARG:HH22	2.04	0.55
24:Q:65:TYR:O	24:Q:69:GLY:N	2.40	0.55
25:R:331:ARG:O	25:R:334:ARG:HB3	2.07	0.55
25:R:353:MET:HG3	25:R:357:PHE:CE2	2.41	0.55
27:T:187:ASP:O	27:T:190:ALA:HB3	2.07	0.55
28:U:230:GLN:HA	28:U:233:PHE:CZ	2.41	0.55
28:U:89:LEU:HD11	28:U:91:GLY:O	2.07	0.55
29:V:185:ILE:HG13	29:V:186:GLN:N	2.22	0.55
29:V:241:THR:OG1	29:V:297:THR:HG21	2.06	0.55
29:V:37:MET:HE1	29:V:68:VAL:HG22	1.88	0.55
30:W:4:GLU:CD	30:W:109:ARG:HB2	2.27	0.55
31:X:121:ILE:HG22	31:X:125:MET:HG2	1.89	0.55
31:X:33:ILE:HD13	31:X:99:PHE:CD2	2.42	0.55
31:X:77:PRO:HG2	31:X:79:LYS:HB2	1.89	0.55
33:Z:106:TRP:HZ3	33:Z:198:GLU:HB2	1.70	0.55
2:2:179:PHE:HE2	2:2:217:LEU:HA	1.71	0.55
4:4:172:LYS:HE2	4:4:175:LEU:HD23	1.88	0.55
6:6:182:LYS:HA	6:6:191:GLN:HA	1.89	0.55
6:6:185:ASP:OD2	6:6:190:ARG:NH1	2.38	0.55
7:7:179:TYR:CD1	7:7:257:GLU:HB2	2.42	0.55
1:8:220:GLY:HA2	1:8:237:GLU:HA	1.89	0.55
8:A:115:ASP:O	8:A:119:LYS:N	2.37	0.55
8:A:51:THR:O	8:A:228:ALA:N	2.40	0.55
10:C:194:LEU:HA	10:C:197:LEU:HD12	1.88	0.55
10:C:207:THR:OG1	10:C:209:ASP:OD1	2.14	0.55
11:D:171:VAL:O	11:D:174:PHE:HB3	2.07	0.55
12:E:110:GLU:O	12:E:114:GLN:N	2.31	0.55
12:E:222:ILE:HG13	12:E:228:PHE:N	2.21	0.55
13:F:137:TYR:CE1	13:F:141:GLY:HA2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:88:LEU:HA	13:F:91:GLN:HG2	1.88	0.55
15:H:171:GLY:O	16:I:128:TYR:HD1	1.90	0.55
15:H:389:PHE:CE1	15:H:419:LEU:HB3	2.41	0.55
16:I:147:VAL:HA	16:I:160:LEU:HB3	1.88	0.55
16:I:150:HIS:CE1	16:I:152:LYS:HG3	2.42	0.55
17:J:210:PHE:HE1	17:J:291:ILE:HD12	1.70	0.55
18:K:237:VAL:N	18:K:270:PHE:O	2.40	0.55
19:L:260:ALA:HB1	19:L:264:ARG:NE	2.22	0.55
19:L:298:ASP:O	19:L:302:GLN:N	2.23	0.55
19:L:377:GLU:HG2	19:L:381:LYS:HG3	1.89	0.55
19:L:394:CYS:SG	19:L:419:VAL:HG22	2.46	0.55
19:L:72:ASP:HA	19:L:75:LYS:NZ	2.22	0.55
20:M:197:ILE:HG23	20:M:322:LYS:HG3	1.89	0.55
20:M:329:ARG:HH21	20:M:346:LYS:NZ	2.05	0.55
21:N:115:LYS:O	21:N:118:THR:HB	2.06	0.55
21:N:139:ARG:HA	21:N:142:GLU:CD	2.26	0.55
21:N:550:GLY:O	21:N:554:THR:N	2.27	0.55
21:N:685:VAL:HG13	21:N:691:GLN:HB3	1.87	0.55
21:N:717:LEU:HD12	21:N:718:GLU:H	1.72	0.55
21:N:758:VAL:O	21:N:871:MET:N	2.40	0.55
23:P:108:LYS:C	23:P:112:LEU:N	2.53	0.55
23:P:329:PHE:CD2	23:P:337:HIS:CD2	2.95	0.55
23:P:350:LEU:HA	23:P:353:ILE:HB	1.89	0.55
24:Q:295:GLY:O	24:Q:299:MET:HG2	2.07	0.55
26:S:183:LEU:HA	26:S:186:TYR:HB3	1.88	0.55
26:S:390:THR:C	26:S:394:ILE:CD1	2.73	0.55
27:T:186:ARG:HB3	27:T:209:LEU:HD22	1.89	0.55
22:O:383:LYS:NZ	27:T:262:LYS:HZ1	2.05	0.55
29:V:111:HIS:CE1	29:V:118:LEU:HB3	2.41	0.55
29:V:185:ILE:HG13	29:V:186:GLN:HG3	1.89	0.55
28:U:199:GLY:H	29:V:233:LYS:HZ1	1.53	0.55
29:V:55:GLY:N	29:V:102:GLN:HB3	2.21	0.55
30:W:15:TYR:HB2	30:W:115:CYS:HA	1.89	0.55
30:W:7:VAL:HG21	30:W:94:ALA:HB1	1.89	0.55
31:X:36:LYS:HG2	31:X:47:ASP:O	2.07	0.55
31:X:85:ARG:H	31:X:101:LEU:HD22	1.71	0.55
33:Z:475:GLN:HE22	33:Z:502:ASN:ND2	2.05	0.55
33:Z:776:VAL:HG12	33:Z:780:MET:HG2	1.88	0.55
3:3:17:SER:O	3:3:40:THR:N	2.36	0.54
4:4:106:VAL:O	4:4:109:LEU:HB3	2.06	0.54
5:5:54:THR:O	5:5:106:GLY:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:88:LEU:O	6:6:92:ILE:N	2.25	0.54
7:7:165:TYR:HB3	7:7:168:ALA:HB3	1.89	0.54
7:7:189:TYR:CE2	7:7:191:ASP:HB3	2.42	0.54
2:9:60:LEU:HD11	2:9:67:LEU:HB3	1.89	0.54
8:A:134:MET:SD	14:G:126:TYR:OH	2.63	0.54
8:A:20:SER:HB3	8:A:26:TYR:CE1	2.43	0.54
10:C:69:LEU:HB2	10:C:73:ILE:HG22	1.89	0.54
12:E:36:THR:HG1	12:E:174:SER:HG	1.55	0.54
12:E:88:MET:O	12:E:92:ALA:N	2.27	0.54
14:G:103:TYR:C	14:G:105:THR:H	2.11	0.54
14:G:198:LYS:NZ	14:G:199:ILE:CG1	2.71	0.54
14:G:214:LEU:HD21	14:G:216:ILE:HD11	1.89	0.54
14:G:51:GLU:HG3	14:G:212:PHE:CD2	2.42	0.54
15:H:264:ALA:O	15:H:269:ALA:N	2.40	0.54
15:H:77:ALA:HB2	15:H:102:CYS:HA	1.89	0.54
16:I:246:ARG:HA	16:I:280:PHE:HD2	1.72	0.54
17:J:307:PRO:HB3	17:J:311:ASP:HA	1.88	0.54
17:J:76:ILE:HG12	17:J:87:LYS:N	2.22	0.54
18:K:135:MET:HE2	18:K:149:ILE:HB	1.89	0.54
18:K:99:PHE:HB2	18:K:137:VAL:HG11	1.87	0.54
18:K:224:LYS:HA	18:K:227:ALA:HB3	1.89	0.54
19:L:178:ILE:O	19:L:234:ALA:HA	2.07	0.54
20:M:180:TYR:OH	20:M:235:CYS:SG	2.55	0.54
15:H:240:ILE:HG23	20:M:368:MET:SD	2.47	0.54
21:N:145:LEU:HA	21:N:150:LEU:HD21	1.88	0.54
21:N:68:VAL:O	21:N:72:LEU:HG	2.07	0.54
22:O:302:VAL:HG13	22:O:303:LYS:H	1.71	0.54
23:P:417:HIS:ND1	23:P:420:ASP:HB2	2.22	0.54
24:Q:138:SER:HB3	24:Q:157:LEU:HD11	1.89	0.54
24:Q:178:HIS:HD2	24:Q:197:SER:HA	1.72	0.54
24:Q:415:LEU:HA	24:Q:418:GLN:HB2	1.88	0.54
25:R:139:GLU:OE1	25:R:176:ARG:NE	2.40	0.54
25:R:147:LYS:HE3	25:R:177:LEU:C	2.28	0.54
25:R:252:TYR:OH	25:R:319:CYS:HB3	2.07	0.54
25:R:350:LEU:H	25:R:387:ILE:CA	2.19	0.54
25:R:350:LEU:N	25:R:387:ILE:HA	2.22	0.54
26:S:344:PRO:O	26:S:348:LEU:N	2.24	0.54
26:S:411:LEU:HD12	26:S:419:VAL:HG13	1.89	0.54
26:S:486:LYS:HZ2	28:U:298:ASN:HB2	1.70	0.54
27:T:109:TYR:HD1	27:T:112:ASN:HD22	1.55	0.54
28:U:77:ASN:HA	28:U:80:CYS:HB2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:108:TYR:CE1	29:V:141:VAL:HG23	2.40	0.54
29:V:108:TYR:HE1	29:V:141:VAL:CG2	2.14	0.54
29:V:254:ARG:HG2	29:V:287:THR:CG2	2.36	0.54
28:U:166:ALA:N	29:V:42:ARG:NH1	2.51	0.54
33:Z:854:LEU:HA	33:Z:857:LEU:HB2	1.89	0.54
1:1:32:LEU:HA	1:1:157:ALA:HA	1.89	0.54
2:2:164:ASN:OD1	2:2:168:VAL:N	2.40	0.54
2:2:36:GLN:NE2	2:2:38:ILE:HD11	2.22	0.54
3:3:12:LYS:O	3:3:15:GLU:HG2	2.08	0.54
4:4:76:GLY:HA3	4:4:124:GLY:O	2.07	0.54
6:6:7:ILE:HG23	6:6:14:ILE:HB	1.89	0.54
7:7:151:VAL:HG21	7:7:178:GLY:HA3	1.89	0.54
1:8:169:LEU:O	1:8:172:GLN:N	2.40	0.54
1:8:208:THR:O	1:8:212:GLU:HG2	2.07	0.54
2:9:164:ASN:OD1	2:9:168:VAL:N	2.40	0.54
8:A:112:MET:HE1	8:A:117:LEU:HD13	1.89	0.54
8:A:124:LEU:HA	8:A:127:ILE:HD12	1.89	0.54
11:D:46:CYS:HB2	11:D:211:GLU:HG3	1.89	0.54
12:E:165:TYR:OH	13:F:60:GLN:HB2	2.22	0.54
12:E:184:LEU:HA	13:F:56:LEU:HD11	2.16	0.54
15:H:243:PRO:HB3	15:H:373:ARG:H	1.72	0.54
17:J:187:LEU:HD22	17:J:316:PHE:HB2	1.90	0.54
17:J:198:LEU:HD11	17:J:316:PHE:HE2	1.72	0.54
18:K:371:LEU:HD21	18:K:404:GLN:HE22	1.73	0.54
19:L:337:LEU:HA	19:L:342:ARG:HD3	1.90	0.54
19:L:374:PHE:CZ	19:L:415:LEU:HD13	2.42	0.54
20:M:369:THR:OG1	20:M:408:SER:O	2.25	0.54
21:N:142:GLU:C	21:N:146:LYS:HZ3	2.10	0.54
21:N:185:ILE:HA	21:N:188:TYR:HD2	1.70	0.54
21:N:310:ASP:HB2	21:N:787:MET:CG	2.36	0.54
18:K:63:LEU:HD22	21:N:565:ASN:CG	2.28	0.54
22:O:125:GLY:O	22:O:129:ILE:HG12	2.07	0.54
22:O:225:ASP:HA	22:O:226:LYS:CB	2.36	0.54
23:P:221:TYR:O	23:P:225:VAL:HG23	2.07	0.54
23:P:308:LEU:HB3	23:P:349:ASN:ND2	2.21	0.54
23:P:318:TYR:HB3	23:P:322:LEU:CB	2.37	0.54
24:Q:141:LEU:HG	24:Q:145:HIS:CE1	2.42	0.54
24:Q:240:PHE:O	24:Q:244:GLU:HG2	2.07	0.54
24:Q:11:ALA:HB1	24:Q:27:TYR:CG	2.43	0.54
25:R:338:TYR:HA	25:R:341:LEU:HB2	1.90	0.54
26:S:188:TYR:O	26:S:192:GLU:HG3	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:314:ASN:O	26:S:318:CYS:N	2.28	0.54
27:T:102:LYS:HA	27:T:105:LEU:HD12	1.89	0.54
27:T:15:PHE:CG	27:T:64:VAL:HG13	2.42	0.54
27:T:9:LYS:O	27:T:13:ILE:N	2.27	0.54
28:U:173:HIS:O	28:U:176:ARG:NH1	2.39	0.54
28:U:38:LEU:O	28:U:49:THR:N	2.40	0.54
29:V:143:PRO:O	29:V:147:VAL:HG13	2.08	0.54
29:V:278:LYS:NZ	29:V:279:HIS:CE1	2.75	0.54
2:2:136:ARG:HH12	2:2:143:LEU:HD21	1.73	0.54
5:5:12:VAL:HG22	5:5:25:CYS:CB	2.37	0.54
5:5:29:LEU:HB2	5:5:40:PHE:HB3	1.89	0.54
7:7:262:TYR:OH	7:7:265:ASN:N	2.41	0.54
9:B:148:TYR:HE1	9:B:158:PRO:HB3	1.72	0.54
14:G:100:LYS:HA	14:G:105:THR:O	2.07	0.54
15:H:402:ILE:HG21	15:H:440:GLU:N	2.22	0.54
17:J:276:LEU:HD23	17:J:279:LEU:HD12	1.88	0.54
17:J:318:PRO:CB	17:J:319:PRO:CA	2.85	0.54
18:K:96:ILE:HD11	19:L:118:ILE:HG12	1.89	0.54
19:L:362:LYS:HE2	19:L:376:PHE:HB3	1.89	0.54
20:M:373:ASP:O	20:M:412:HIS:HB2	2.06	0.54
21:N:181:GLU:O	21:N:184:LYS:N	2.40	0.54
21:N:308:ASN:ND2	21:N:873:ARG:NH1	2.54	0.54
21:N:69:TYR:O	21:N:73:GLY:N	2.40	0.54
22:O:298:GLU:HB2	22:O:356:ARG:CZ	2.38	0.54
22:O:321:LYS:O	22:O:324:VAL:HB	2.07	0.54
22:O:20:PRO:HD2	22:O:72:LYS:HZ2	1.73	0.54
23:P:300:VAL:HA	23:P:303:PHE:CD2	2.41	0.54
23:P:323:ASN:OD1	23:P:334:ASN:HB3	2.07	0.54
23:P:369:LEU:O	23:P:371:LEU:HG	2.08	0.54
24:Q:413:LEU:HD12	24:Q:416:VAL:HB	1.89	0.54
24:Q:54:GLN:O	24:Q:57:SER:OG	2.14	0.54
24:Q:62:GLY:HA2	24:Q:65:TYR:HB2	1.88	0.54
26:S:342:LEU:HD12	26:S:345:TYR:HB2	1.89	0.54
27:T:245:TYR:CG	27:T:246:GLU:N	2.75	0.54
23:P:409:SER:HA	28:U:268:LYS:HZ1	1.73	0.54
29:V:114:PHE:HB3	29:V:116:CYS:SG	2.47	0.54
29:V:94:MET:HA	29:V:97:GLN:HB2	1.89	0.54
30:W:109:ARG:HH21	30:W:196:SER:HA	1.72	0.54
30:W:37:PHE:CZ	30:W:41:ARG:HD3	2.42	0.54
30:W:67:ALA:CB	30:W:68:GLU:CA	2.85	0.54
1:1:205:ASP:O	1:1:208:THR:OG1	2.16	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:206:ALA:O	2:2:210:ILE:HG12	2.08	0.54
2:2:57:ALA:HB1	2:2:74:ARG:CZ	2.37	0.54
3:3:120:GLY:O	3:3:128:GLU:N	2.37	0.54
3:3:142:PRO:HB2	3:3:143:TYR:HD1	1.72	0.54
3:3:151:THR:OG1	3:3:152:PHE:N	2.40	0.54
3:3:89:TYR:OH	14:G:115:ARG:NE	2.40	0.54
6:6:82:SER:N	6:6:125:LYS:HZ3	2.05	0.54
6:6:33:ASP:OD1	6:6:35:THR:HG22	2.07	0.54
6:6:66:LEU:HG	6:6:70:ARG:NH1	2.22	0.54
6:6:41:HIS:N	6:6:74:GLU:OE2	2.38	0.54
7:7:176:ILE:O	7:7:188:TYR:N	2.37	0.54
7:7:189:TYR:CD2	7:7:197:LEU:HD12	2.42	0.54
7:7:252:LEU:CB	7:7:263:HIS:HB2	2.37	0.54
2:9:137:ARG:O	2:9:140:MET:N	2.33	0.54
2:9:145:ASN:H	2:9:165:LEU:HD23	1.73	0.54
8:A:100:GLU:O	8:A:104:PHE:N	2.23	0.54
9:B:57:MET:O	9:B:60:THR:OG1	2.14	0.54
8:A:163:TYR:CE1	9:B:83:ARG:HD3	2.41	0.54
11:D:14:ASP:CG	11:D:16:HIS:HD2	2.11	0.54
12:E:177:GLU:HG2	12:E:178:GLY:N	2.23	0.54
12:E:183:LEU:O	12:E:187:TRP:N	2.29	0.54
12:E:234:GLU:O	12:E:238:GLU:HG3	2.08	0.54
12:E:42:THR:HG21	12:E:193:LEU:HA	1.89	0.54
13:F:121:GLN:HA	14:G:130:ARG:NE	2.13	0.54
13:F:121:GLN:HG3	14:G:130:ARG:O	3.46	0.54
13:F:38:LEU:HD21	13:F:189:LEU:O	2.07	0.54
14:G:224:THR:OG1	14:G:227:LEU:O	2.23	0.54
15:H:366:LEU:HA	15:H:371:ILE:HB	1.89	0.54
15:H:426:ALA:HA	15:H:429:PHE:HD2	1.72	0.54
21:N:399:PHE:N	21:N:399:PHE:CD1	2.74	0.54
21:N:603:PRO:HG3	21:N:625:LEU:HD11	1.88	0.54
21:N:671:LEU:HD13	21:N:780:ASP:OD2	2.07	0.54
21:N:774:ASN:O	21:N:865:PRO:HA	2.07	0.54
21:N:884:PHE:CE2	21:N:892:PRO:HG3	2.42	0.54
23:P:107:SER:OG	23:P:111:ASP:OD2	2.25	0.54
23:P:288:ASN:HB3	23:P:293:LEU:HD21	1.89	0.54
24:Q:231:ASP:O	24:Q:234:THR:OG1	2.20	0.54
24:Q:29:SER:O	24:Q:33:LYS:N	2.39	0.54
25:R:331:ARG:HA	25:R:334:ARG:HB3	1.88	0.54
26:S:222:SER:OG	26:S:224:LYS:HG2	2.07	0.54
28:U:104:LEU:HB2	28:U:152:LYS:HZ2	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:22:TYR:CD1	28:U:27:THR:HB	2.42	0.54
28:U:84:ASN:OD1	28:U:85:ALA:N	2.41	0.54
33:Z:221:VAL:O	33:Z:225:LEU:N	2.40	0.54
33:Z:810:ASN:O	33:Z:814:ALA:N	2.32	0.54
1:1:32:LEU:HD12	1:1:156:ARG:O	2.07	0.54
2:2:58:ASP:H	2:2:74:ARG:NH2	2.00	0.54
3:3:86:THR:HA	3:3:90:GLY:O	2.08	0.54
3:3:72:GLN:CB	4:4:113:LYS:HZ1	2.20	0.54
5:5:145:GLN:O	5:5:149:MET:HG2	2.07	0.54
6:6:19:LYS:HA	6:6:32:ASP:O	2.07	0.54
7:7:176:ILE:HB	7:7:188:TYR:HB2	1.89	0.54
7:7:181:ARG:HB2	7:7:257:GLU:OE2	2.08	0.54
8:A:156:LYS:NZ	8:A:175:GLN:NE2	2.52	0.54
9:B:44:VAL:HA	9:B:213:ILE:HA	1.90	0.54
11:D:57:THR:HA	11:D:60:THR:HB	1.89	0.54
15:H:288:ALA:O	15:H:292:ARG:HG3	2.07	0.54
16:I:301:GLU:HA	16:I:304:ARG:HB3	1.90	0.54
17:J:337:LEU:O	17:J:376:HIS:ND1	2.41	0.54
19:L:195:GLU:O	19:L:200:PRO:HD3	2.08	0.54
19:L:402:ALA:CA	19:L:407:ARG:HB2	2.38	0.54
19:L:70:TYR:CD2	20:M:8:ASP:HB2	2.43	0.54
20:M:115:LYS:O	20:M:131:MET:HG3	2.06	0.54
19:L:70:TYR:HE2	20:M:5:GLU:HA	1.71	0.54
20:M:79:VAL:HB	20:M:145:LEU:HA	1.89	0.54
21:N:185:ILE:HD13	21:N:188:TYR:CD2	2.43	0.54
21:N:553:PHE:CZ	21:N:586:ALA:HB1	2.43	0.54
21:N:87:ASP:CG	21:N:88:ARG:H	2.09	0.54
21:N:896:PHE:CE2	21:N:898:GLY:HA2	2.42	0.54
22:O:30:GLU:O	22:O:33:TYR:N	2.41	0.54
23:P:104:LEU:HA	23:P:107:SER:HB2	1.88	0.54
23:P:287:ASP:C	23:P:289:ASN:N	2.61	0.54
23:P:397:ALA:CB	23:P:399:ILE:HB	2.37	0.54
23:P:43:GLU:HA	23:P:85:LYS:HZ1	1.73	0.54
24:Q:250:THR:HG23	24:Q:251:THR:H	1.72	0.54
24:Q:430:ALA:O	28:U:300:LYS:NZ	2.38	0.54
24:Q:66:VAL:HG22	24:Q:71:LYS:HB2	1.89	0.54
25:R:307:TYR:HA	25:R:310:GLU:HB3	1.90	0.54
26:S:338:MET:H	26:S:342:LEU:N	2.03	0.54
28:U:33:CYS:N	28:U:95:SER:OG	2.41	0.54
28:U:21:HIS:CD2	29:V:100:ARG:HH21	2.25	0.54
29:V:31:SER:O	29:V:35:LEU:HG	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:524:ALA:HA	33:Z:562:TRP:CZ3	2.43	0.54
33:Z:542:ILE:HG21	33:Z:573:LEU:HD13	1.89	0.54
33:Z:394:TYR:HE2	33:Z:858:GLY:C	2.09	0.54
1:1:95:HIS:CE1	1:1:102:LYS:HA	2.37	0.54
4:4:113:LYS:HG3	4:4:114:GLN:N	2.22	0.54
4:4:202:VAL:HB	4:4:220:LEU:HB2	1.90	0.54
2:9:57:ALA:HB1	2:9:74:ARG:CZ	2.37	0.54
2:9:56:ALA:HA	2:9:75:LEU:HD11	1.90	0.54
8:A:181:ASN:HD21	8:A:212:ASP:HB2	1.73	0.54
9:B:159:TRP:CD2	9:B:162:THR:HB	2.42	0.54
13:F:119:ASN:HB3	13:F:127:PRO:HA	1.90	0.54
13:F:154:THR:HG23	14:G:64:ASN:ND2	2.23	0.54
13:F:187:ASP:CG	13:F:233:TYR:HH	2.18	0.54
12:E:19:GLY:O	13:F:28:ALA:HB2	2.07	0.54
13:F:64:ILE:HG21	13:F:85:SER:HB2	1.90	0.54
14:G:52:LYS:HD2	14:G:215:GLU:HB2	1.89	0.54
16:I:201:PRO:HB2	16:I:320:GLY:HA3	1.89	0.54
16:I:91:GLU:OE2	16:I:95:GLN:HG3	2.07	0.54
19:L:402:ALA:HB2	19:L:410:ILE:HD13	1.89	0.54
20:M:174:GLU:OE2	20:M:242:THR:OG1	2.26	0.54
21:N:494:LYS:HG3	21:N:497:ALA:H	1.73	0.54
21:N:587:ALA:O	21:N:591:LEU:HG	2.06	0.54
22:O:367:LYS:HE3	28:U:201:GLN:HA	1.90	0.54
24:Q:232:TYR:CZ	24:Q:271:MET:HB3	2.43	0.54
26:S:279:ILE:HG22	26:S:283:GLN:HG3	1.90	0.54
25:R:401:HIS:ND1	26:S:452:TYR:OH	2.36	0.54
27:T:191:LYS:O	27:T:194:GLU:HB3	2.08	0.54
27:T:257:THR:O	27:T:261:GLU:HG3	2.08	0.54
28:U:121:LEU:HD11	28:U:134:THR:HG23	1.88	0.54
28:U:141:GLU:CA	28:U:153:THR:H	2.08	0.54
28:U:208:VAL:HA	28:U:211:LEU:HB3	1.90	0.54
28:U:268:LYS:O	28:U:272:GLU:N	2.28	0.54
28:U:131:GLY:HA2	29:V:215:ASN:OD1	2.08	0.54
29:V:261:LEU:HD22	29:V:280:LEU:HD23	1.88	0.54
33:Z:113:SER:HB2	33:Z:143:VAL:O	2.08	0.54
33:Z:354:PRO:HB3	33:Z:914:LEU:HD13	1.90	0.54
33:Z:783:VAL:HA	33:Z:786:SER:OG	2.07	0.54
33:Z:842:GLN:O	33:Z:846:PHE:N	2.40	0.54
1:1:213:ARG:O	4:4:55:VAL:N	2.22	0.54
4:4:108:ALA:O	4:4:112:LEU:N	2.25	0.54
1:8:32:LEU:HD12	1:8:156:ARG:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:203:VAL:HG11	8:A:244:ARG:HG3	1.89	0.54
8:A:63:LEU:CD2	14:G:176:LEU:HB3	2.38	0.54
13:F:187:ASP:HB3	13:F:191:LYS:NZ	2.23	0.54
15:H:341:ASP:O	15:H:346:ARG:NH2	2.35	0.54
15:H:96:PRO:HG3	16:I:111:GLU:CB	2.38	0.54
16:I:401:LEU:HA	16:I:404:LEU:HB2	1.89	0.54
17:J:193:THR:H	17:J:195:LYS:HE2	1.73	0.54
17:J:392:LYS:HA	17:J:395:GLU:HB3	1.89	0.54
18:K:245:LYS:HZ2	19:L:254:LYS:HB3	1.73	0.54
20:M:253:GLN:HG3	20:M:259:GLY:N	2.22	0.54
20:M:339:ARG:N	20:M:343:LEU:O	2.39	0.54
21:N:174:LEU:HD23	21:N:182:ASN:HB3	1.89	0.54
21:N:333:SER:HB2	21:N:355:TRP:HZ2	1.72	0.54
21:N:412:TYR:O	21:N:415:PHE:N	2.37	0.54
21:N:419:THR:HA	21:N:422:TYR:HB3	1.89	0.54
22:O:215:TYR:CE1	22:O:247:ASN:HB2	2.43	0.54
22:O:330:ARG:O	22:O:334:LEU:HG	2.07	0.54
22:O:338:LYS:HZ2	22:O:353:VAL:N	2.05	0.54
22:O:383:LYS:HZ1	27:T:262:LYS:NZ	2.05	0.54
23:P:137:ALA:O	23:P:140:THR:HB	2.08	0.54
23:P:163:LEU:CD2	23:P:179:PHE:HB2	2.38	0.54
23:P:64:ASP:HA	23:P:67:ALA:HB3	1.90	0.54
24:Q:116:PHE:O	24:Q:120:LYS:HG3	2.07	0.54
24:Q:235:ALA:O	24:Q:239:PHE:N	2.25	0.54
25:R:64:LYS:HA	25:R:94:PHE:HZ	1.73	0.54
26:S:207:ASN:HA	26:S:210:LEU:HB3	1.89	0.54
26:S:316:LEU:HD12	26:S:319:CYS:HB2	1.90	0.54
27:T:124:SER:O	27:T:128:TYR:N	2.30	0.54
27:T:141:LEU:HA	27:T:144:TYR:CD2	2.43	0.54
28:U:275:VAL:O	28:U:278:ILE:N	2.40	0.54
28:U:199:GLY:H	29:V:233:LYS:NZ	2.06	0.54
30:W:20:ASP:OD1	30:W:25:ARG:HA	2.08	0.54
31:X:125:MET:HA	31:X:128:VAL:HG12	1.89	0.54
33:Z:440:LEU:HD21	33:Z:477:TYR:CG	2.42	0.54
33:Z:440:LEU:HB2	33:Z:451:ALA:HB3	1.88	0.54
33:Z:544:THR:O	33:Z:548:ASP:N	2.41	0.54
33:Z:178:SER:HA	33:Z:579:GLU:OE2	2.08	0.54
33:Z:822:THR:HG21	33:Z:826:ARG:HE	1.72	0.54
33:Z:878:LEU:HA	33:Z:881:ILE:HD12	1.89	0.54
2:2:60:LEU:HD11	2:2:67:LEU:HB3	1.89	0.54
4:4:41:VAL:HG13	4:4:207:MET:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:243:ASP:HB3	7:7:246:SER:HB2	1.89	0.54
7:7:253:TYR:CZ	7:7:262:TYR:CD1	2.96	0.54
10:C:90:THR:O	10:C:93:ILE:HB	2.07	0.54
11:D:151:GLU:HG2	11:D:155:ILE:O	2.08	0.54
12:E:153:TYR:OH	12:E:224:LYS:N	2.31	0.54
12:E:35:SER:HG	12:E:66:LYS:HZ3	1.67	0.54
13:F:150:SER:O	14:G:83:PRO:HG2	2.08	0.54
13:F:191:LYS:HA	13:F:194:VAL:HB	1.90	0.54
14:G:78:TYR:CE2	14:G:82:ILE:HA	2.43	0.54
15:H:157:VAL:HG13	20:M:75:LEU:HD13	1.90	0.54
15:H:172:MET:HB3	16:I:129:TYR:O	2.08	0.54
16:I:290:LYS:HB2	16:I:303:GLN:HE21	1.72	0.54
17:J:165:GLU:CG	17:J:202:VAL:HG13	2.35	0.54
18:K:236:ARG:HG3	18:K:270:PHE:CD2	2.43	0.54
18:K:408:GLU:HA	18:K:411:TYR:HB3	1.90	0.54
19:L:278:ILE:HB	19:L:323:ILE:HA	1.89	0.54
19:L:286:ILE:HB	19:L:304:THR:HG21	1.90	0.54
19:L:306:MET:HG3	19:L:309:LEU:HD23	1.89	0.54
20:M:116:ALA:HB1	20:M:128:PHE:HE1	1.73	0.54
21:N:310:ASP:HB2	21:N:787:MET:HG2	1.88	0.54
21:N:748:PHE:O	21:N:751:LEU:HG	2.07	0.54
22:O:1:MET:H3	22:O:39:PHE:HZ	1.53	0.54
22:O:234:LEU:HD13	22:O:255:LEU:HD22	1.90	0.54
22:O:99:LEU:HA	22:O:132:GLU:OE1	2.07	0.54
23:P:177:ILE:HA	23:P:180:ILE:HB	1.90	0.54
23:P:379:TYR:HD1	23:P:382:ASP:OD2	1.90	0.54
23:P:397:ALA:HB1	23:P:399:ILE:HD12	1.90	0.54
23:P:423:LEU:HD21	29:V:239:ALA:N	2.22	0.54
24:Q:217:GLU:O	24:Q:221:MET:N	2.26	0.54
24:Q:242:SER:O	24:Q:245:SER:HB2	2.08	0.54
25:R:286:LEU:C	25:R:288:SER:H	2.10	0.54
25:R:45:GLU:HA	25:R:48:GLU:OE1	2.08	0.54
26:S:338:MET:HA	26:S:341:SER:H	1.73	0.54
27:T:139:ASP:O	27:T:143:SER:N	2.41	0.54
27:T:255:GLN:H	27:T:255:GLN:CD	2.11	0.54
26:S:205:ASN:OD1	27:T:44:LEU:HD22	2.07	0.54
28:U:206:ASP:HA	28:U:209:GLU:CD	2.28	0.54
28:U:283:ARG:HG3	29:V:288:LEU:HG	1.90	0.54
29:V:237:ASN:CB	29:V:238:LEU:HB3	2.29	0.54
29:V:26:THR:OG1	29:V:62:THR:HA	2.07	0.54
30:W:122:ARG:HG2	30:W:153:LEU:CD2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:157:PHE:O	30:W:161:VAL:HG23	2.07	0.54
30:W:158:ILE:O	30:W:162:ASN:HB2	2.08	0.54
33:Z:411:LYS:HA	33:Z:415:MET:HB2	1.89	0.54
33:Z:616:LEU:HD13	33:Z:746:ILE:HD12	1.90	0.54
5:5:84:PRO:HA	5:5:87:PHE:HB3	1.90	0.54
6:6:8:ARG:HD3	6:6:116:LEU:H	1.71	0.54
7:7:267:ASP:OD2	7:7:270:GLU:HG3	2.08	0.54
2:9:80:ASP:OD1	2:9:81:ASN:N	2.38	0.54
2:9:93:MET:HA	2:9:96:ILE:HD12	1.89	0.54
9:B:146:SER:HB2	9:B:148:TYR:CZ	2.43	0.54
11:D:47:GLU:CD	11:D:166:ARG:HE	2.09	0.54
12:E:48:LEU:HD11	12:E:145:ALA:HB2	1.90	0.54
13:F:228:GLU:OE1	13:F:228:GLU:N	2.29	0.54
14:G:218:TRP:HD1	14:G:231:VAL:HG23	1.73	0.54
15:H:62:ARG:O	15:H:66:LYS:N	2.41	0.54
18:K:238:ASN:H	18:K:241:GLU:HG2	1.72	0.54
18:K:261:ALA:O	18:K:265:ALA:N	2.41	0.54
17:J:48:ARG:HG3	18:K:75:LEU:HD13	1.90	0.54
19:L:165:PRO:CB	19:L:168:TYR:HB2	2.38	0.54
19:L:274:GLU:HB3	19:L:321:THR:OG1	2.07	0.54
19:L:82:ARG:CB	19:L:86:LYS:NZ	2.69	0.54
19:L:92:GLU:O	19:L:96:LYS:N	2.37	0.54
20:M:377:GLN:HA	20:M:380:ALA:HB3	1.89	0.54
21:N:230:VAL:O	21:N:233:ASN:ND2	2.40	0.54
21:N:332:VAL:HG23	21:N:355:TRP:CH2	2.36	0.54
21:N:437:GLU:HA	21:N:440:ASP:HB2	1.90	0.54
22:O:173:SER:C	22:O:176:SER:HG	2.11	0.54
22:O:327:LEU:HD23	22:O:330:ARG:HD2	1.90	0.54
22:O:342:ASP:OD2	22:O:345:ASN:ND2	2.40	0.54
23:P:266:TYR:O	23:P:270:LEU:N	2.33	0.54
23:P:433:ILE:O	23:P:436:GLU:HB2	2.08	0.54
24:Q:356:CYS:N	24:Q:397:LEU:O	2.40	0.54
27:T:220:PHE:HA	27:T:223:GLU:OE1	2.07	0.54
27:T:250:MET:N	27:T:256:LYS:HD2	2.22	0.54
28:U:70:HIS:O	28:U:73:ILE:N	2.41	0.54
28:U:8:VAL:HG12	28:U:9:THR:O	2.08	0.54
29:V:80:VAL:HA	29:V:125:THR:HG23	1.89	0.54
29:V:142:ASP:O	29:V:146:SER:N	2.41	0.54
29:V:37:MET:SD	29:V:68:VAL:HG11	2.48	0.54
30:W:108:GLN:HB2	30:W:137:VAL:HA	1.90	0.54
33:Z:327:GLN:HA	33:Z:331:GLY:HA3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:181:PRO:HB3	4:4:236:ARG:O	2.08	0.54
4:4:65:ARG:HB2	4:4:71:TRP:CH2	2.43	0.54
5:5:178:ASP:HB3	5:5:181:SER:HB2	1.90	0.54
2:9:89:ASP:CG	2:9:92:ASP:H	2.12	0.54
8:A:144:VAL:HG12	8:A:154:ILE:HA	1.90	0.54
10:C:115:LEU:HD23	10:C:118:ILE:HD12	1.90	0.54
10:C:181:LYS:HZ1	10:C:184:MET:HG2	1.73	0.54
10:C:69:LEU:HA	10:C:92:ARG:HG2	1.91	0.54
15:H:216:ASP:C	15:H:220:LYS:NZ	2.61	0.54
15:H:249:TYR:CD1	15:H:358:PRO:HB3	2.43	0.54
15:H:254:THR:HB	15:H:417:ALA:H	1.73	0.54
16:I:140:LEU:HD12	16:I:159:VAL:HG11	1.90	0.54
18:K:120:VAL:C	18:K:121:ARG:HH11	2.09	0.54
19:L:256:ILE:CD1	19:L:303:ARG:HD3	2.38	0.54
20:M:17:GLU:O	20:M:21:GLU:N	2.28	0.54
21:N:198:THR:OG1	21:N:199:ASN:N	2.41	0.54
21:N:36:TRP:CZ2	21:N:71:ASN:HB3	2.43	0.54
22:O:306:ARG:HD2	22:O:350:ILE:C	2.28	0.54
22:O:41:LEU:HD22	22:O:82:LEU:HD21	1.89	0.54
23:P:228:SER:O	23:P:232:ARG:N	2.37	0.54
24:Q:186:HIS:CE1	24:Q:228:GLU:OE2	2.61	0.54
24:Q:62:GLY:O	24:Q:65:TYR:HB2	2.08	0.54
24:Q:65:TYR:HB3	24:Q:71:LYS:N	2.24	0.54
25:R:280:ILE:C	25:R:282:THR:H	2.12	0.54
25:R:35:GLN:O	25:R:42:GLN:NE2	2.40	0.54
25:R:334:ARG:CZ	25:R:367:ASP:HB2	2.38	0.54
26:S:285:ASP:OD1	26:S:286:TYR:N	2.41	0.54
24:Q:430:ALA:HB1	28:U:296:ILE:HG21	1.89	0.54
33:Z:204:CYS:O	33:Z:207:ILE:N	2.41	0.54
33:Z:369:PHE:N	33:Z:369:PHE:CD1	2.75	0.54
33:Z:505:VAL:HG13	33:Z:530:LEU:HD21	1.90	0.54
33:Z:765:MET:O	33:Z:773:ARG:HG2	2.08	0.54
33:Z:881:ILE:O	33:Z:884:THR:OG1	2.18	0.54
33:Z:920:GLY:HA2	33:Z:982:ILE:HD13	1.89	0.54
33:Z:927:VAL:HG23	33:Z:928:ARG:O	2.07	0.54
1:1:220:GLY:HA2	1:1:237:GLU:HA	1.89	0.53
3:3:33:LEU:HB3	3:3:53:LEU:HD22	1.89	0.53
4:4:41:VAL:O	4:4:207:MET:N	2.39	0.53
4:4:50:THR:HG22	4:4:55:VAL:HA	1.90	0.53
5:5:51:LEU:HD21	5:5:53:ILE:HD11	1.89	0.53
6:6:143:LEU:O	6:6:147:HIS:N	2.32	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:228:ALA:HA	8:A:233:PHE:HA	1.90	0.53
9:B:149:GLN:O	9:B:156:TYR:HA	2.09	0.53
9:B:189:ILE:O	9:B:193:LEU:HG	2.07	0.53
11:D:48:ARG:HB2	11:D:209:ASN:HA	1.89	0.53
11:D:68:ASP:OD2	11:D:70:HIS:CE1	2.62	0.53
12:E:223:THR:OG1	12:E:226:ASP:HB2	2.08	0.53
12:E:219:LEU:HB2	12:E:231:TYR:HB2	1.90	0.53
12:E:168:ASN:OD1	13:F:56:LEU:HA	2.08	0.53
16:I:103:PRO:O	16:I:151:HIS:NE2	2.41	0.53
18:K:190:LEU:O	18:K:194:GLN:N	2.38	0.53
18:K:217:THR:HA	18:K:381:ALA:HB2	1.88	0.53
19:L:337:LEU:HD12	19:L:342:ARG:HB3	1.89	0.53
19:L:370:LYS:HE2	19:L:410:ILE:HG13	1.88	0.53
19:L:77:ARG:HG3	20:M:19:ASP:OD2	2.08	0.53
20:M:147:GLY:O	20:M:157:ASP:N	2.41	0.53
20:M:13:PRO:O	20:M:17:GLU:HG3	2.08	0.53
21:N:214:LEU:O	21:N:217:MET:N	2.38	0.53
21:N:419:THR:O	21:N:423:LEU:N	2.25	0.53
21:N:512:ASN:HA	21:N:515:ARG:HB3	1.90	0.53
22:O:266:PHE:CD1	22:O:269:LEU:HD12	2.39	0.53
22:O:47:LYS:HZ2	22:O:48:PHE:HE1	1.56	0.53
22:O:76:LEU:HD21	22:O:79:VAL:HG13	1.90	0.53
23:P:164:GLN:HA	23:P:176:LYS:CE	2.38	0.53
23:P:335:LYS:HA	23:P:338:TRP:HB3	1.90	0.53
23:P:373:GLU:O	23:P:376:THR:HB	2.08	0.53
23:P:39:LEU:HA	23:P:62:ILE:HD13	1.90	0.53
23:P:71:LYS:HB3	23:P:73:ASP:HB2	1.89	0.53
24:Q:181:GLU:HG2	24:Q:185:TYR:CE2	2.43	0.53
23:P:396:PRO:HG2	24:Q:356:CYS:O	2.08	0.53
24:Q:369:ASP:HB2	24:Q:372:GLN:CB	2.38	0.53
24:Q:34:ASP:O	24:Q:50:ARG:HG2	2.08	0.53
25:R:292:LEU:HB3	25:R:307:TYR:CB	2.38	0.53
25:R:31:PHE:CZ	25:R:320:LYS:HA	2.43	0.53
25:R:30:ALA:O	25:R:34:THR:HG23	2.08	0.53
26:S:383:LEU:HA	26:S:386:ASN:HD22	1.73	0.53
26:S:437:ASN:HB3	26:S:439:GLU:CG	2.36	0.53
27:T:131:LYS:HD3	27:T:134:LYS:HD3	1.90	0.53
22:O:370:LEU:CB	28:U:200:LEU:HD13	2.30	0.53
28:U:275:VAL:HA	28:U:278:ILE:HD12	1.90	0.53
28:U:127:GLN:NE2	29:V:212:MET:HB2	2.22	0.53
29:V:258:GLU:CG	29:V:259:LYS:N	2.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:254:ARG:NH1	29:V:291:ASN:CG	2.61	0.53
30:W:125:LEU:HD13	30:W:153:LEU:HB3	1.91	0.53
30:W:17:ARG:NH1	30:W:18:ASN:HB2	2.23	0.53
31:X:85:ARG:HE	31:X:117:LYS:HB3	1.72	0.53
33:Z:497:PHE:HB3	33:Z:533:VAL:HG13	1.90	0.53
33:Z:762:GLY:O	33:Z:766:HIS:N	2.41	0.53
2:2:145:ASN:H	2:2:165:LEU:HD23	1.73	0.53
2:2:219:TYR:OH	2:2:250:MET:HA	2.08	0.53
3:3:106:TYR:CD2	3:3:107:GLU:OE2	2.61	0.53
4:4:104:ARG:HD2	8:A:110:TYR:CD1	2.43	0.53
6:6:19:LYS:HG2	6:6:180:ILE:HG13	1.90	0.53
7:7:114:PRO:HA	7:7:260:TRP:NE1	2.23	0.53
7:7:191:ASP:CG	7:7:193:ASP:HB2	2.27	0.53
7:7:156:LYS:N	7:7:196:ARG:HE	2.06	0.53
1:8:57:ARG:HE	2:9:189:ARG:HD3	1.72	0.53
11:D:120:TYR:CD1	11:D:126:VAL:HG21	2.43	0.53
14:G:11:SER:HB3	14:G:127:ASN:HB3	1.89	0.53
15:H:98:GLN:HG2	15:H:283:TYR:CD1	2.44	0.53
16:I:111:GLU:HB2	16:I:119:ILE:HG22	1.90	0.53
17:J:247:MET:O	17:J:250:ILE:HG22	2.09	0.53
17:J:381:ASP:O	17:J:385:ALA:N	2.31	0.53
17:J:39:GLU:HB3	26:S:480:ARG:CZ	2.38	0.53
18:K:238:ASN:HA	18:K:272:ASP:HB2	1.90	0.53
20:M:232:ALA:O	20:M:236:ALA:N	2.37	0.53
20:M:379:LEU:HA	20:M:419:ILE:HD11	1.88	0.53
21:N:293:LEU:HD13	21:N:379:LEU:HD12	1.89	0.53
21:N:582:ASP:O	21:N:586:ALA:N	2.31	0.53
22:O:233:LEU:HD12	22:O:236:HIS:CG	2.43	0.53
22:O:284:GLU:HA	22:O:287:LEU:HB2	1.89	0.53
23:P:182:GLU:O	23:P:186:LEU:N	2.30	0.53
23:P:345:VAL:O	23:P:349:ASN:N	2.20	0.53
23:P:395:ARG:HB2	23:P:396:PRO:HD3	1.90	0.53
24:Q:1:MET:N	24:Q:10:GLU:OE2	2.36	0.53
24:Q:83:GLU:O	24:Q:87:GLN:HG2	2.08	0.53
25:R:29:LYS:HA	25:R:32:LEU:HD12	1.90	0.53
25:R:336:LYS:HZ2	25:R:340:GLN:NE2	2.06	0.53
25:R:415:GLN:O	25:R:419:ALA:N	2.41	0.53
26:S:338:MET:N	26:S:342:LEU:H	2.05	0.53
26:S:474:GLU:O	26:S:477:VAL:HB	2.07	0.53
26:S:474:GLU:O	26:S:477:VAL:N	2.41	0.53
21:N:20:VAL:HG13	27:T:35:ILE:HD11	1.88	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:76:MET:HG2	28:U:80:CYS:SG	2.47	0.53
30:W:162:ASN:ND2	30:W:169:SER:O	2.41	0.53
31:X:36:LYS:O	31:X:46:TRP:HA	2.08	0.53
31:X:39:GLU:HG2	31:X:47:ASP:OD2	2.08	0.53
33:Z:119:LEU:HA	33:Z:122:LEU:HB3	1.90	0.53
33:Z:366:LYS:HE2	33:Z:859:LYS:CD	2.38	0.53
33:Z:433:LEU:HB3	33:Z:437:ASP:OD2	2.08	0.53
33:Z:967:THR:HA	33:Z:976:HIS:HE1	1.73	0.53
1:1:32:LEU:HD21	1:1:34:ILE:HD11	1.91	0.53
3:3:102:LYS:HB2	3:3:138:VAL:HG21	1.90	0.53
3:3:185:ASP:OD1	3:3:186:GLY:N	2.41	0.53
3:3:148:SER:OG	3:3:188:SER:OG	2.26	0.53
2:2:258:ILE:HG23	4:4:150:VAL:HG13	1.90	0.53
5:5:11:ILE:CG2	5:5:142:ALA:H	2.21	0.53
5:5:114:SER:HA	5:5:192:LYS:HE2	1.90	0.53
5:5:58:THR:HB	6:6:124:THR:OG1	2.08	0.53
5:5:69:TYR:CD1	10:C:96:GLN:HB3	2.43	0.53
5:5:78:GLU:OE1	5:5:80:ARG:NH2	2.42	0.53
7:7:119:THR:HG21	7:7:175:MET:HB2	1.89	0.53
7:7:230:TYR:HA	7:7:233:LYS:HB3	1.90	0.53
7:7:256:THR:C	7:7:259:GLY:H	2.11	0.53
7:7:251:ASN:HD22	7:7:265:ASN:HA	1.73	0.53
2:9:219:TYR:OH	2:9:250:MET:HA	2.08	0.53
9:B:97:TYR:CZ	9:B:105:PRO:HA	2.44	0.53
9:B:140:ASP:OD1	9:B:143:ASN:HB2	2.08	0.53
5:5:68:ARG:HH22	10:C:100:LYS:HA	1.72	0.53
10:C:76:ALA:HB3	10:C:136:ILE:HB	1.91	0.53
11:D:24:LEU:O	11:D:28:LYS:HG3	2.08	0.53
14:G:130:ARG:HH11	14:G:130:ARG:HG2	2.47	0.53
14:G:123:HIS:NE2	14:G:132:PHE:CE1	2.76	0.53
8:A:65:ASP:HB3	14:G:159:GLY:HA3	1.89	0.53
13:F:156:LEU:CD2	14:G:59:LEU:HA	2.37	0.53
15:H:191:ILE:HA	15:H:192:ASP:CB	2.39	0.53
15:H:381:ASP:OD1	15:H:384:GLY:N	2.19	0.53
17:J:346:VAL:HA	17:J:383:GLU:HG2	1.89	0.53
18:K:141:ARG:NH1	19:L:153:LEU:HD12	2.23	0.53
19:L:365:THR:CB	19:L:370:LYS:HZ1	2.20	0.53
19:L:226:THR:HA	19:L:388:GLY:H	1.72	0.53
20:M:220:MET:HE3	20:M:232:ALA:HB2	1.90	0.53
20:M:352:PRO:HG2	20:M:357:ARG:HG2	1.90	0.53
21:N:124:TYR:CD2	21:N:162:ARG:NH1	2.76	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:880:ARG:HA	21:N:896:PHE:HE2	1.72	0.53
21:N:861:TYR:HB2	21:N:881:TYR:HD1	1.71	0.53
22:O:327:LEU:HA	22:O:330:ARG:HG2	1.89	0.53
22:O:41:LEU:HD11	22:O:81:TYR:CD1	2.43	0.53
22:O:91:ASP:CG	22:O:93:ASP:HB2	2.29	0.53
23:P:287:ASP:CB	23:P:294:GLU:HG2	2.38	0.53
23:P:320:PRO:HG2	23:P:322:LEU:HG	1.91	0.53
23:P:422:LEU:CD2	23:P:426:ILE:CG1	2.86	0.53
23:P:75:LEU:O	23:P:79:LEU:HG	2.09	0.53
24:Q:139:ILE:HD11	24:Q:165:PHE:CE2	2.42	0.53
24:Q:31:LEU:HD21	24:Q:58:ILE:HD11	1.91	0.53
24:Q:49:LYS:HA	24:Q:52:ASN:ND2	2.23	0.53
24:Q:50:ARG:O	24:Q:54:GLN:N	2.36	0.53
26:S:296:ALA:O	26:S:300:ALA:CB	2.52	0.53
26:S:369:GLN:HA	26:S:372:LEU:HB3	1.88	0.53
27:T:125:GLU:HA	27:T:128:TYR:HB3	1.89	0.53
28:U:191:THR:HG22	29:V:232:GLU:OE2	2.08	0.53
29:V:118:LEU:HD21	29:V:140:VAL:HG13	1.91	0.53
30:W:33:VAL:O	30:W:37:PHE:N	2.32	0.53
31:X:28:PRO:O	31:X:29:VAL:HG22	2.08	0.53
33:Z:326:VAL:HG13	33:Z:330:ILE:HD12	1.89	0.53
33:Z:842:GLN:HA	33:Z:845:LEU:HB3	1.89	0.53
1:1:49:ILE:HA	1:1:55:ASN:H	1.73	0.53
2:2:96:ILE:HA	2:2:99:LEU:HD12	1.89	0.53
4:4:65:ARG:HG3	4:4:67:SER:O	2.08	0.53
5:5:149:MET:O	5:5:153:LEU:N	2.27	0.53
6:6:104:ILE:N	6:6:117:TYR:O	2.26	0.53
6:6:153:THR:HG23	6:6:156:GLU:OE2	2.08	0.53
6:6:40:PRO:HG2	6:6:74:GLU:OE1	2.07	0.53
7:7:76:THR:HG23	7:7:108:LYS:NZ	2.23	0.53
2:9:136:ARG:HH12	2:9:143:LEU:HD21	1.73	0.53
2:9:58:ASP:H	2:9:74:ARG:NH2	2.00	0.53
8:A:163:TYR:HE1	9:B:83:ARG:HH11	1.55	0.53
8:A:43:LEU:HD11	8:A:54:ILE:HG12	1.91	0.53
10:C:201:THR:HG22	10:C:203:SER:H	1.73	0.53
10:C:7:ASP:OD2	11:D:6:ARG:HD3	2.08	0.53
12:E:22:PHE:HB3	12:E:26:TYR:CE2	2.44	0.53
13:F:213:ILE:O	13:F:225:TYR:N	2.18	0.53
13:F:52:ASN:HB3	13:F:59:TYR:CD2	2.43	0.53
8:A:33:LYS:HB2	14:G:19:GLY:HA3	1.90	0.53
15:H:201:GLU:OE2	15:H:204:PRO:HA	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:77:ALA:HB3	15:H:170:GLU:HB3	1.88	0.53
17:J:277:ASN:ND2	17:J:309:ARG:HH21	2.05	0.53
18:K:344:ARG:NH2	18:K:380:GLY:H	2.06	0.53
18:K:99:PHE:HB3	18:K:135:MET:N	2.22	0.53
19:L:70:TYR:CE2	20:M:5:GLU:HA	2.43	0.53
21:N:515:ARG:HB2	21:N:515:ARG:CZ	2.38	0.53
21:N:55:PHE:CE2	21:N:57:ASP:HB2	2.43	0.53
21:N:603:PRO:O	21:N:607:GLN:N	2.37	0.53
21:N:916:LEU:HG	21:N:918:GLU:OE2	2.08	0.53
23:P:196:ALA:O	23:P:199:LEU:HB2	2.09	0.53
24:Q:275:ILE:HG22	24:Q:279:LYS:NZ	2.23	0.53
24:Q:288:LYS:HE3	24:Q:290:THR:HA	1.89	0.53
24:Q:65:TYR:CD2	24:Q:74:LEU:HB2	2.44	0.53
26:S:237:ILE:HA	26:S:240:ASP:HB2	1.91	0.53
28:U:30:ASN:CG	28:U:31:LYS:HZ3	2.12	0.53
29:V:258:GLU:CG	29:V:259:LYS:H	2.21	0.53
30:W:122:ARG:HG2	30:W:153:LEU:HD21	1.91	0.53
30:W:181:LEU:O	30:W:185:ILE:HG12	2.08	0.53
30:W:53:SER:OG	30:W:60:ARG:HG2	2.09	0.53
33:Z:366:LYS:NZ	33:Z:369:PHE:CZ	2.77	0.53
33:Z:381:LEU:HD12	33:Z:410:THR:HB	1.91	0.53
33:Z:444:GLU:HG2	33:Z:446:GLU:H	1.74	0.53
33:Z:305:VAL:HG22	33:Z:919:GLU:O	2.09	0.53
1:1:47:ARG:HG3	1:1:219:ASP:OD2	2.09	0.53
4:4:206:VAL:N	4:4:214:GLU:O	2.41	0.53
5:5:186:VAL:HG21	5:5:197:LYS:HE3	1.90	0.53
6:6:29:LYS:HD3	6:6:32:ASP:HB2	1.91	0.53
2:9:109:TYR:HB3	14:G:93:ARG:NH1	2.24	0.53
2:9:37:PRO:HD3	2:9:144:TRP:CE2	2.44	0.53
12:E:201:LEU:CD2	12:E:243:LEU:HD21	2.36	0.53
12:E:72:ARG:O	12:E:228:PHE:N	2.37	0.53
2:2:120:LEU:HD23	13:F:101:ARG:NH1	90.28	0.53
14:G:78:TYR:HB3	14:G:136:THR:HG23	1.90	0.53
14:G:170:GLN:NE2	14:G:173:LYS:NZ	2.57	0.53
14:G:59:LEU:O	14:G:61:PRO:HD3	2.09	0.53
15:H:60:GLU:HB3	15:H:64:LYS:CE	2.38	0.53
16:I:148:LEU:CB	16:I:157:VAL:HB	2.27	0.53
16:I:248:VAL:O	16:I:252:LEU:CD1	2.56	0.53
17:J:153:LEU:CB	17:J:316:PHE:CZ	2.62	0.53
18:K:353:PHE:HB3	18:K:368:LEU:HD13	1.89	0.53
19:L:221:TYR:CA	19:L:228:LYS:HZ2	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:418:ALA:O	19:L:422:VAL:HG23	2.09	0.53
20:M:245:LYS:HZ2	20:M:279:PHE:HE2	1.57	0.53
20:M:354:GLU:HA	20:M:357:ARG:NH2	2.24	0.53
21:N:204:SER:CB	21:N:208:ARG:HH12	2.15	0.53
21:N:221:ASP:OD2	21:N:224:THR:OG1	2.22	0.53
21:N:345:ASP:OD1	21:N:346:ASN:N	2.41	0.53
21:N:743:PHE:HB2	21:N:744:PRO:HD3	1.90	0.53
22:O:374:ASN:O	22:O:377:VAL:HB	2.09	0.53
23:P:173:MET:O	23:P:177:ILE:HG12	2.09	0.53
23:P:19:LYS:HA	23:P:34:SER:CB	2.36	0.53
23:P:362:LEU:N	23:P:398:LYS:O	2.42	0.53
27:T:178:THR:O	27:T:182:LYS:HG3	2.08	0.53
27:T:249:MET:HG2	27:T:250:MET:HG3	1.91	0.53
27:T:33:GLU:HB3	27:T:37:ASN:HD21	1.73	0.53
28:U:140:ILE:CA	28:U:153:THR:HB	2.34	0.53
28:U:164:GLU:O	28:U:167:GLU:HB2	2.09	0.53
15:H:107:LYS:HE2	29:V:76:THR:O	2.09	0.53
28:U:57:GLU:OE1	30:W:96:LEU:HB3	2.07	0.53
32:Y:71:ASP:OD2	32:Y:75:ASN:ND2	2.40	0.53
33:Z:344:LYS:O	33:Z:348:LEU:N	2.42	0.53
33:Z:574:TYR:CD2	33:Z:584:VAL:HG21	2.44	0.53
33:Z:915:ALA:HB2	33:Z:927:VAL:HG13	1.89	0.53
1:1:214:HIS:HE2	1:1:216:GLN:HB2	1.72	0.53
2:2:253:ASP:OD2	4:4:173:GLN:NE2	2.40	0.53
4:4:164:MET:O	4:4:168:GLU:N	2.38	0.53
4:4:245:SER:OG	5:5:197:LYS:HB3	2.08	0.53
7:7:125:ALA:HA	7:7:128:GLN:HB3	1.91	0.53
6:6:55:GLN:HG3	7:7:163:TYR:CE1	2.43	0.53
7:7:82:ARG:CG	7:7:185:PRO:HB2	2.38	0.53
7:7:88:ILE:HD11	7:7:225:VAL:HG13	1.90	0.53
1:8:30:THR:HG23	1:8:158:GLY:O	2.08	0.53
1:8:29:GLY:O	1:8:74:ASN:CG	2.45	0.53
10:C:91:ALA:HB1	10:C:111:LEU:HD11	1.90	0.53
10:C:122:TYR:CD2	10:C:130:PRO:HA	2.44	0.53
10:C:139:GLY:O	10:C:147:GLN:N	2.35	0.53
10:C:58:GLU:OE2	10:C:60:ASP:HB2	2.08	0.53
10:C:90:THR:HA	10:C:93:ILE:HD12	1.91	0.53
12:E:15:PHE:HE2	13:F:127:PRO:HD2	1.74	0.53
13:F:75:ALA:O	13:F:130:VAL:HG23	2.09	0.53
14:G:13:SER:H	14:G:127:ASN:HA	1.75	0.53
17:J:31:GLU:HG3	18:K:55:GLU:OE2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:290:ARG:O	18:K:293:GLN:HB2	2.09	0.53
18:K:67:TYR:CD1	21:N:572:LEU:HD13	2.44	0.53
19:L:115:GLU:HG3	19:L:116:LYS:HG3	1.91	0.53
19:L:147:THR:HB	19:L:157:ARG:HB3	1.90	0.53
19:L:168:TYR:N	19:L:170:MET:O	2.42	0.53
22:O:93:ASP:HB3	22:O:97:LYS:HE3	1.90	0.53
23:P:222:ASN:O	23:P:225:VAL:HB	2.09	0.53
24:Q:140:LYS:HA	24:Q:143:THR:HB	1.91	0.53
24:Q:389:VAL:HG23	24:Q:398:TYR:HB3	1.90	0.53
24:Q:415:LEU:O	24:Q:419:LEU:HG	2.08	0.53
24:Q:35:SER:HB2	24:Q:46:VAL:O	2.09	0.53
24:Q:98:LYS:NZ	24:Q:137:LEU:N	2.56	0.53
26:S:360:PHE:CD2	26:S:384:ARG:NH1	2.77	0.53
26:S:409:LEU:HD12	26:S:412:ASN:HB2	1.90	0.53
33:Z:281:ALA:O	33:Z:285:ALA:N	2.39	0.53
33:Z:538:CYS:SG	33:Z:580:GLN:HB3	2.49	0.53
33:Z:759:ARG:C	33:Z:789:GLN:HE22	2.11	0.53
33:Z:354:PRO:HG3	33:Z:922:PRO:HG3	1.89	0.53
2:2:231:ALA:HB2	2:2:241:PHE:HD1	1.73	0.53
3:3:133:PRO:HB3	2:9:68:ARG:NH1	2.24	0.53
4:4:84:VAL:HA	4:4:87:LEU:HB3	1.90	0.53
2:9:52:GLY:N	2:9:158:GLN:HE21	2.06	0.53
4:4:104:ARG:NH1	8:A:148:GLU:OE2	2.38	0.53
9:B:173:THR:HG22	9:B:177:LYS:HZ2	1.74	0.53
9:B:205:ASN:O	9:B:209:ILE:HG12	2.09	0.53
10:C:119:LYS:HD3	10:C:152:ASN:O	2.09	0.53
11:D:227:GLU:O	11:D:231:GLN:HG3	2.09	0.53
11:D:36:VAL:O	11:D:43:VAL:N	2.28	0.53
12:E:178:GLY:O	12:E:182:GLU:HG2	2.09	0.53
13:F:112:LEU:HA	13:F:115:LYS:HB3	1.90	0.53
13:F:2:PHE:O	13:F:5:ASN:HB2	2.08	0.53
14:G:141:VAL:HG21	14:G:221:LEU:N	2.24	0.53
16:I:342:GLY:N	16:I:345:ASP:OD1	2.34	0.53
17:J:160:ILE:O	17:J:164:ILE:N	2.41	0.53
17:J:186:ILE:HB	17:J:310:ILE:HD13	1.91	0.53
17:J:250:ILE:HD12	17:J:260:GLY:HA2	1.90	0.53
17:J:305:LEU:HD13	17:J:313:LYS:NZ	2.23	0.53
18:K:190:LEU:HB3	18:K:191:PRO:HD3	1.91	0.53
19:L:365:THR:HA	19:L:395:ALA:HB2	1.89	0.53
20:M:283:LEU:O	20:M:287:GLY:N	2.41	0.53
21:N:124:TYR:CD2	21:N:162:ARG:HG2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:647:ASP:OD2	21:N:652:VAL:HG21	2.09	0.53
21:N:738:GLN:HG2	21:N:741:TYR:CE1	2.44	0.53
22:O:338:LYS:HB2	22:O:351:SER:HB2	1.90	0.53
22:O:371:VAL:O	22:O:374:ASN:HB3	2.07	0.53
22:O:95:SER:HB3	22:O:135:ARG:HH11	1.74	0.53
23:P:147:LYS:HA	23:P:150:GLU:OE1	2.09	0.53
23:P:157:ALA:HB2	23:P:186:LEU:HB3	1.89	0.53
23:P:277:GLN:O	23:P:281:ILE:N	2.42	0.53
23:P:415:TRP:HA	23:P:418:ASN:ND2	2.24	0.53
24:Q:213:GLN:O	24:Q:217:GLU:N	2.26	0.53
25:R:170:VAL:O	25:R:174:ILE:HG12	2.08	0.53
25:R:383:ARG:HB2	26:S:402:ILE:HG21	1.91	0.53
25:R:77:SER:HB3	25:R:89:ASN:O	2.09	0.53
26:S:22:GLU:OE1	26:S:22:GLU:N	2.40	0.53
26:S:234:ILE:HG22	26:S:238:LEU:HG	1.91	0.53
29:V:237:ASN:N	29:V:238:LEU:O	2.42	0.53
29:V:261:LEU:HD22	29:V:280:LEU:CD2	2.39	0.53
31:X:29:VAL:O	31:X:29:VAL:HG23	2.09	0.53
31:X:37:PRO:HG2	31:X:41:GLU:HA	1.89	0.53
33:Z:279:THR:HG23	33:Z:974:THR:HG23	1.90	0.53
33:Z:505:VAL:HA	33:Z:508:LEU:HD12	1.88	0.53
1:1:116:LEU:HD12	1:1:148:GLY:HA2	1.91	0.53
2:2:113:LEU:HB2	2:2:118:GLU:CG	2.39	0.53
3:3:103:GLU:O	3:3:107:GLU:N	2.41	0.53
3:3:171:VAL:HG13	3:3:194:MET:SD	2.49	0.53
4:4:46:ASP:OD2	4:4:198:SER:HA	2.08	0.53
4:4:87:LEU:O	4:4:90:SER:HB3	2.09	0.53
1:8:206:SER:O	1:8:210:ALA:N	2.28	0.53
8:A:100:GLU:HG3	8:A:120:ARG:HG2	1.90	0.53
8:A:46:ARG:NH2	9:B:57:MET:SD	2.82	0.53
8:A:42:SER:HA	8:A:55:SER:HA	1.91	0.53
8:A:84:ASN:HB2	8:A:140:ILE:HB	1.91	0.53
9:B:184:GLU:O	9:B:187:ASP:HB2	2.09	0.53
10:C:15:PRO:HA	11:D:22:TYR:CZ	2.43	0.53
11:D:203:VAL:HG21	11:D:210:ILE:HG12	1.91	0.53
13:F:85:SER:O	13:F:89:ARG:N	2.27	0.53
8:A:30:TYR:CG	14:G:17:PRO:HA	2.43	0.53
15:H:208:TYR:OH	15:H:387:ASN:ND2	2.34	0.53
15:H:318:ARG:HE	15:H:326:ASP:CG	2.12	0.53
15:H:456:LYS:HZ2	16:I:331:ILE:HD12	1.73	0.53
15:H:56:LEU:HD22	15:H:60:GLU:HG3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:222:TYR:CE1	16:I:329:ASN:HA	2.44	0.53
16:I:354:ASP:O	16:I:358:LYS:N	2.29	0.53
16:I:372:SER:O	16:I:375:VAL:N	2.36	0.53
17:J:209:LYS:O	17:J:244:ILE:N	2.42	0.53
17:J:39:GLU:O	17:J:42:ARG:N	2.42	0.53
17:J:64:LEU:HD21	18:K:121:ARG:NE	2.19	0.53
18:K:184:ILE:O	18:K:188:VAL:N	2.41	0.53
18:K:213:GLY:O	18:K:219:LYS:NZ	2.36	0.53
18:K:283:ASP:HB3	18:K:285:GLN:NE2	2.24	0.53
18:K:205:PRO:O	18:K:308:GLN:NE2	2.42	0.53
18:K:412:ALA:O	18:K:415:VAL:HG22	2.09	0.53
19:L:145:ARG:O	19:L:159:LEU:N	2.32	0.53
19:L:354:GLU:OE2	19:L:380:VAL:HG12	2.09	0.53
19:L:390:ASP:HA	19:L:393:ASN:ND2	2.24	0.53
19:L:88:TYR:CA	20:M:33:ARG:HH21	2.22	0.53
19:L:92:GLU:HB2	20:M:29:GLU:OE1	2.09	0.53
20:M:334:ASP:O	20:M:337:LEU:N	2.41	0.53
20:M:370:THR:HA	20:M:410:VAL:N	2.22	0.53
22:O:166:ARG:HH12	22:O:170:SER:CA	2.22	0.53
23:P:108:LYS:O	23:P:111:ASP:C	2.46	0.53
23:P:248:ASP:HA	23:P:251:LYS:H	1.74	0.53
24:Q:124:PHE:CD1	24:Q:127:ARG:HD3	2.44	0.53
24:Q:275:ILE:C	24:Q:279:LYS:NZ	2.62	0.53
25:R:263:ARG:O	25:R:267:LYS:HG2	2.08	0.53
26:S:231:ALA:HA	26:S:234:ILE:HG12	1.90	0.53
26:S:15:VAL:HG12	26:S:27:GLU:HA	1.91	0.53
26:S:306:SER:O	26:S:310:LEU:HB3	2.08	0.53
26:S:362:SER:O	26:S:366:LYS:N	2.33	0.53
27:T:145:PRO:O	27:T:149:ASP:N	2.28	0.53
27:T:213:ASN:OD1	27:T:215:LYS:N	2.35	0.53
28:U:24:ARG:HE	29:V:100:ARG:CZ	2.21	0.53
22:O:15:ARG:HD2	30:W:144:PHE:CE2	2.44	0.53
30:W:7:VAL:HB	30:W:110:ILE:HG12	1.91	0.53
33:Z:106:TRP:CB	33:Z:112:LYS:HZ2	2.19	0.53
33:Z:138:ARG:HH21	33:Z:158:ALA:HB2	1.74	0.53
33:Z:336:SER:O	33:Z:340:LEU:N	2.41	0.53
33:Z:418:ALA:O	33:Z:422:ILE:HG13	2.08	0.53
1:1:96:PHE:CD2	13:F:89:ARG:HD3	104.49	0.53
2:2:252:TRP:CZ3	3:3:48:ARG:NH1	2.77	0.53
2:2:81:ASN:O	2:2:151:GLY:HA2	2.09	0.53
3:3:36:ASP:OD2	3:3:188:SER:HA	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:161:LEU:O	6:6:165:VAL:HG23	2.09	0.53
6:6:162:LYS:HZ1	6:6:197:ALA:HA	1.73	0.53
7:7:158:LEU:HD12	7:7:161:LEU:HD23	1.91	0.53
8:A:230:LYS:HE2	8:A:231:ASP:OD1	2.08	0.53
9:B:118:MET:O	9:B:122:THR:N	2.36	0.53
9:B:26:THR:O	9:B:30:GLN:HG2	2.09	0.53
9:B:4:ARG:HH12	12:E:126:GLY:HA3	1.74	0.53
10:C:185:LYS:HG2	10:C:187:ASP:H	1.73	0.53
10:C:226:TYR:HE2	10:C:228:LYS:HB2	1.74	0.53
13:F:94:TYR:HA	13:F:97:LEU:HD12	1.91	0.53
13:F:17:GLY:HA3	14:G:26:TYR:O	2.09	0.53
14:G:35:THR:HG21	14:G:66:LYS:NZ	2.24	0.53
13:F:157:TYR:CZ	14:G:60:VAL:HG13	2.50	0.53
16:I:170:VAL:HB	16:I:251:GLU:HB3	1.91	0.53
17:J:100:LYS:HZ3	21:N:690:HIS:CE1	2.27	0.53
17:J:163:VAL:HA	17:J:182:PRO:HG2	1.91	0.53
17:J:43:ARG:NH1	26:S:477:VAL:HA	2.22	0.53
18:K:120:VAL:HB	18:K:145:ALA:HA	1.91	0.53
18:K:207:ARG:HB2	18:K:333:ARG:HA	1.90	0.53
18:K:219:LYS:O	18:K:222:LEU:HB2	2.09	0.53
20:M:173:ASP:O	20:M:243:PHE:HB3	2.09	0.53
15:H:145:TYR:H	20:M:75:LEU:HB2	1.73	0.53
21:N:286:LEU:O	21:N:290:LEU:HG	2.09	0.53
21:N:498:ILE:HD11	21:N:528:ARG:HH12	1.73	0.53
21:N:515:ARG:HD3	21:N:738:GLN:NE2	2.24	0.53
21:N:660:LEU:O	21:N:664:LEU:HG	2.09	0.53
21:N:694:LEU:O	21:N:697:PHE:HB3	2.07	0.53
21:N:758:VAL:HA	21:N:903:VAL:HG12	1.90	0.53
22:O:12:SER:HB3	22:O:21:SER:C	2.29	0.53
22:O:95:SER:CB	22:O:135:ARG:HD2	2.31	0.53
22:O:301:PHE:CE2	22:O:308:LEU:HG	2.44	0.53
23:P:351:ARG:O	23:P:354:SER:HB2	2.09	0.53
24:Q:165:PHE:HD1	24:Q:169:ASP:HB3	1.73	0.53
24:Q:347:LEU:O	24:Q:351:ILE:HG23	2.09	0.53
24:Q:418:GLN:C	24:Q:421:LYS:HZ3	2.12	0.53
25:R:108:SER:O	25:R:112:GLU:HG3	2.09	0.53
25:R:190:LYS:HA	25:R:193:ALA:HB3	1.89	0.53
25:R:218:CYS:HB2	25:R:223:ASN:OD1	2.09	0.53
26:S:185:PHE:HE1	26:S:192:GLU:OE2	1.92	0.53
26:S:202:ASN:O	27:T:93:ASN:ND2	2.41	0.53
26:S:237:ILE:HG22	26:S:241:PHE:CE2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:409:LEU:HA	26:S:412:ASN:CB	2.38	0.53
27:T:27:LEU:HD13	27:T:81:TYR:OH	2.09	0.53
28:U:176:ARG:HB2	28:U:176:ARG:NH1	2.24	0.53
29:V:31:SER:HB2	29:V:205:LYS:CE	2.39	0.53
22:O:45:LEU:HD21	30:W:17:ARG:CZ	2.39	0.53
31:X:30:GLN:H	31:X:56:PRO:HA	1.72	0.53
33:Z:443:ASP:OD1	33:Z:447:VAL:HG21	2.09	0.53
33:Z:847:ILE:HG12	33:Z:850:LEU:HD12	1.91	0.53
2:2:37:PRO:HD3	2:2:144:TRP:CE2	2.44	0.53
2:2:93:MET:HA	2:2:96:ILE:HD12	1.89	0.53
4:4:235:PRO:HG2	4:4:238:THR:OG1	2.09	0.53
5:5:189:ILE:N	5:5:196:VAL:O	2.29	0.53
6:6:137:GLY:HA2	6:6:140:THR:OG1	2.08	0.53
7:7:96:THR:HG22	7:7:101:VAL:HA	1.90	0.53
7:7:92:ASP:OD2	7:7:246:SER:HA	2.08	0.53
1:8:119:LYS:HE3	1:8:124:TYR:N	2.24	0.53
2:9:113:LEU:HB2	2:9:118:GLU:CG	2.39	0.53
2:9:40:THR:OG1	2:9:62:SER:O	2.14	0.53
8:A:185:HIS:O	8:A:189:SER:N	2.29	0.53
8:A:77:ARG:HG3	8:A:231:ASP:O	2.08	0.53
10:C:213:PHE:HB3	10:C:235:ILE:HG12	1.91	0.53
10:C:39:MET:HB2	10:C:148:LEU:HB2	1.91	0.53
13:F:105:VAL:HG12	13:F:145:LEU:HD13	1.91	0.53
14:G:149:TYR:CD1	14:G:159:GLY:HA2	2.44	0.53
14:G:150:MET:H	14:G:160:TYR:HE2	1.56	0.53
14:G:183:HIS:HB3	14:G:186:GLY:O	2.09	0.53
14:G:218:TRP:CZ3	14:G:220:SER:HB3	2.43	0.53
14:G:99:PHE:CE1	14:G:105:THR:HG23	2.43	0.53
15:H:106:ILE:HD13	20:M:150:LYS:H	1.73	0.53
16:I:146:SER:HB3	16:I:162:ASP:HB3	1.90	0.53
17:J:191:PRO:HB3	17:J:257:ARG:HH21	1.74	0.53
17:J:165:GLU:OE2	17:J:202:VAL:HG22	2.09	0.53
18:K:112:SER:HB3	18:K:116:MET:H	1.73	0.53
19:L:201:LEU:HD21	19:L:322:LYS:HE2	1.91	0.53
19:L:371:THR:O	19:L:374:PHE:HB3	2.09	0.53
20:M:193:LEU:HB3	20:M:235:CYS:SG	2.49	0.53
20:M:36:LEU:HA	20:M:70:LYS:HD2	1.91	0.53
21:N:203:ARG:O	21:N:206:ILE:HB	2.09	0.53
21:N:226:ASN:O	21:N:230:VAL:N	2.26	0.53
21:N:314:LEU:HD23	21:N:318:LYS:HZ3	1.73	0.53
22:O:132:GLU:HA	22:O:135:ARG:HH21	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:238:ILE:O	22:O:241:THR:HB	2.09	0.53
23:P:204:LEU:HD11	23:P:217:LYS:CD	2.39	0.53
24:Q:281:ILE:HG23	24:Q:287:THR:HB	1.91	0.53
25:R:99:TYR:HA	25:R:102:LEU:HB3	1.90	0.53
25:R:286:LEU:O	25:R:288:SER:N	2.41	0.53
25:R:335:ARG:HH22	25:R:374:ASN:HB2	1.74	0.53
25:R:78:ASP:OD1	25:R:94:PHE:N	2.42	0.53
27:T:109:TYR:HA	27:T:112:ASN:HB3	1.91	0.53
27:T:226:TRP:CE2	27:T:235:PHE:CE2	2.97	0.53
28:U:7:LYS:HB3	28:U:157:LEU:HB3	1.91	0.53
29:V:88:GLN:HG3	29:V:89:ALA:N	2.24	0.53
30:W:113:PHE:CE1	30:W:181:LEU:HD21	2.43	0.53
30:W:15:TYR:C	30:W:25:ARG:HD3	2.29	0.53
31:X:30:GLN:HB3	31:X:102:GLN:NE2	2.24	0.53
33:Z:230:ILE:HG13	33:Z:267:THR:HG21	1.91	0.53
33:Z:360:SER:O	33:Z:364:ASN:N	2.41	0.53
1:1:119:LYS:HE3	1:1:124:TYR:N	2.24	0.52
3:3:38:ARG:HB2	3:3:189:GLY:C	2.28	0.52
4:4:68:PRO:C	4:4:71:TRP:HE1	2.12	0.52
5:5:98:ARG:HD2	5:5:101:GLY:O	2.09	0.52
5:5:40:PHE:HE2	5:5:42:LYS:HG2	1.74	0.52
6:6:70:ARG:HG2	6:6:71:GLU:OE2	2.07	0.52
1:8:107:SER:OG	12:E:103:TYR:O	2.26	0.52
1:8:47:ARG:HG3	1:8:219:ASP:OD2	2.09	0.52
9:B:106:PRO:HB2	9:B:108:LYS:HG2	1.91	0.52
10:C:119:LYS:NZ	10:C:151:SER:OG	2.36	0.52
9:B:14:PRO:HA	10:C:24:TYR:CD1	2.43	0.52
7:7:182:LYS:HD2	11:D:141:ARG:NE	2.21	0.52
11:D:189:GLU:HG3	11:D:232:TYR:CE1	2.44	0.52
2:2:110:ASP:HB3	13:F:110:HIS:NE2	107.52	0.52
13:F:50:LYS:HG3	13:F:212:SER:HB2	1.91	0.52
13:F:40:SER:HB3	13:F:189:LEU:HD21	1.92	0.52
13:F:90:GLN:HB2	13:F:91:GLN:NE2	2.24	0.52
13:F:12:THR:HA	14:G:23:GLN:HE22	1.78	0.52
14:G:91:ARG:NH1	14:G:94:GLU:OE1	2.42	0.52
15:H:233:GLU:O	15:H:237:THR:N	2.37	0.52
15:H:388:ILE:HG21	15:H:419:LEU:HD12	1.91	0.52
15:H:389:PHE:CZ	15:H:422:VAL:HG21	2.44	0.52
15:H:57:LYS:NZ	16:I:135:PHE:CD1	2.76	0.52
17:J:96:VAL:HB	17:J:120:TYR:O	2.09	0.52
17:J:188:TYR:O	17:J:316:PHE:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:236:ARG:HG3	18:K:270:PHE:HD2	1.74	0.52
18:K:357:ALA:HA	18:K:360:MET:HB3	1.91	0.52
19:L:105:ILE:O	19:L:122:SER:OG	2.21	0.52
19:L:109:MET:HB2	19:L:120:LYS:H	1.73	0.52
19:L:172:SER:HA	19:L:244:ILE:HA	1.91	0.52
20:M:174:GLU:OE2	20:M:175:LYS:HG3	2.09	0.52
20:M:170:MET:HA	20:M:246:LEU:HD13	1.90	0.52
21:N:244:LYS:HA	21:N:247:GLU:OE1	2.09	0.52
21:N:33:ASP:O	21:N:36:TRP:HD1	1.92	0.52
21:N:404:SER:O	21:N:408:LEU:N	2.39	0.52
21:N:746:ALA:HB1	21:N:749:LEU:HD12	1.90	0.52
21:N:768:ILE:HB	21:N:917:ILE:HB	1.89	0.52
22:O:190:TYR:HA	22:O:193:LEU:HD23	1.91	0.52
22:O:49:PHE:HD2	22:O:50:ASP:OD1	1.92	0.52
22:O:86:LEU:O	22:O:89:SER:OG	2.26	0.52
23:P:103:TYR:HD1	23:P:106:SER:OG	1.92	0.52
23:P:123:ARG:HB3	23:P:127:GLU:C	2.29	0.52
23:P:71:LYS:HB2	23:P:74:ASP:H	1.74	0.52
24:Q:117:VAL:O	24:Q:120:LYS:HB2	2.08	0.52
24:Q:79:PRO:HG3	24:Q:120:LYS:HD3	1.91	0.52
25:R:213:TYR:O	25:R:217:HIS:N	2.33	0.52
25:R:314:ASN:C	25:R:318:PRO:HG2	2.29	0.52
25:R:367:ASP:HA	25:R:370:LYS:HD2	1.91	0.52
26:S:248:ASP:OD1	26:S:283:GLN:NE2	2.42	0.52
26:S:385:SER:HA	26:S:388:ILE:HB	1.90	0.52
27:T:101:LYS:O	27:T:105:LEU:HG	2.09	0.52
27:T:106:ILE:HG13	27:T:110:LEU:HG	1.91	0.52
28:U:168:GLU:C	28:U:171:VAL:HB	2.29	0.52
29:V:162:GLY:H	29:V:165:ILE:HD12	1.74	0.52
29:V:243:SER:C	29:V:250:GLN:HE22	2.12	0.52
30:W:33:VAL:HA	30:W:36:ILE:HD12	1.90	0.52
30:W:91:LEU:HD23	30:W:128:LEU:HD13	1.91	0.52
33:Z:112:LYS:HD2	33:Z:140:LEU:HB3	1.90	0.52
33:Z:138:ARG:NH1	33:Z:144:SER:CB	2.72	0.52
33:Z:303:ASP:OD2	33:Z:305:VAL:HB	2.09	0.52
2:2:89:ASP:CG	2:2:92:ASP:H	2.12	0.52
3:3:185:ASP:OD2	3:3:188:SER:N	2.43	0.52
5:5:28:ARG:NH2	5:5:30:GLY:HA3	2.24	0.52
8:A:220:LYS:HD3	8:A:242:GLU:HB2	2.07	0.52
9:B:186:GLU:OE1	9:B:246:ARG:NE	2.35	0.52
12:E:33:LEU:O	12:E:53:ARG:NH1	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:195:GLU:O	13:F:199:GLN:HG2	2.09	0.52
14:G:21:ASN:O	14:G:25:GLU:HG3	2.09	0.52
15:H:201:GLU:N	15:H:271:PHE:O	2.38	0.52
16:I:254:GLN:HG2	16:I:259:ASP:HB2	1.91	0.52
17:J:208:CYS:SG	17:J:242:PRO:HB2	2.50	0.52
18:K:167:PRO:HD2	18:K:228:ASN:HA	1.89	0.52
19:L:111:GLU:HG3	19:L:117:TYR:CE1	2.45	0.52
19:L:72:ASP:N	19:L:75:LYS:NZ	2.56	0.52
20:M:117:ALA:HB2	20:M:131:MET:HG2	1.91	0.52
20:M:234:ALA:O	20:M:238:GLN:N	2.32	0.52
20:M:379:LEU:HG	20:M:412:HIS:CE1	2.45	0.52
20:M:70:LYS:HD3	29:V:73:GLN:O	2.09	0.52
21:N:150:LEU:HD13	21:N:169:ALA:HB1	1.91	0.52
21:N:25:LEU:HB3	21:N:60:MET:CG	2.28	0.52
21:N:242:PHE:HE2	21:N:273:LEU:HD22	1.72	0.52
21:N:444:HIS:CE1	21:N:480:ALA:HB2	2.44	0.52
21:N:443:LEU:HD21	21:N:469:VAL:HG13	1.90	0.52
21:N:528:ARG:HB3	21:N:531:LEU:HD12	1.92	0.52
21:N:733:LEU:O	21:N:737:SER:N	2.42	0.52
22:O:175:ASN:O	22:O:178:TYR:HB3	2.08	0.52
22:O:215:TYR:O	22:O:219:ILE:HG12	2.09	0.52
22:O:242:ILE:HG13	22:O:243:VAL:N	2.24	0.52
22:O:330:ARG:HG3	22:O:334:LEU:CG	2.39	0.52
22:O:56:PRO:HB2	22:O:86:LEU:HD11	1.90	0.52
24:Q:288:LYS:O	24:Q:291:TYR:N	2.32	0.52
24:Q:346:ASN:O	24:Q:350:ILE:N	2.37	0.52
24:Q:350:ILE:HG21	24:Q:362:ILE:HG23	1.90	0.52
25:R:127:GLU:OE1	25:R:162:ILE:HD13	2.10	0.52
25:R:304:TYR:CD1	25:R:307:TYR:HB2	2.44	0.52
25:R:32:LEU:HB2	25:R:46:ALA:HB2	1.91	0.52
26:S:215:MET:O	26:S:218:LEU:N	2.41	0.52
26:S:264:VAL:HB	26:S:269:GLU:OE2	2.09	0.52
26:S:343:LEU:HD12	26:S:346:TYR:HB3	1.90	0.52
26:S:401:LYS:NZ	26:S:442:PHE:CD2	2.72	0.52
28:U:164:GLU:CA	29:V:42:ARG:HH12	2.22	0.52
22:O:363:ILE:O	28:U:204:LEU:HD13	2.08	0.52
29:V:254:ARG:HG2	29:V:287:THR:CB	2.39	0.52
30:W:12:ASN:ND2	30:W:81:ILE:HA	2.23	0.52
33:Z:145:ASP:H	33:Z:154:ILE:HD11	1.73	0.52
33:Z:207:ILE:HA	33:Z:210:TYR:HB3	1.91	0.52
33:Z:212:LEU:HD22	33:Z:235:GLN:HE21	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:387:ASN:O	33:Z:391:ASN:HB2	2.09	0.52
33:Z:518:LEU:O	33:Z:522:THR:HA	2.10	0.52
2:2:56:ALA:HA	2:2:75:LEU:HD11	1.90	0.52
4:4:132:VAL:HA	4:4:137:SER:HA	1.92	0.52
4:4:32:ILE:HG13	4:4:128:ILE:HD12	1.92	0.52
6:6:21:VAL:HB	6:6:29:LYS:HB3	1.91	0.52
6:6:5:LEU:O	6:6:16:ALA:N	2.38	0.52
1:8:132:GLY:O	1:8:140:ALA:N	2.35	0.52
8:A:107:LYS:HE2	8:A:108:TYR:CZ	2.45	0.52
8:A:14:ARG:HA	8:A:26:TYR:HB2	1.90	0.52
8:A:181:ASN:CB	8:A:213:ALA:HB2	2.40	0.52
9:B:200:VAL:HG21	9:B:204:PHE:HD1	1.75	0.52
10:C:14:SER:HB2	10:C:16:GLU:OE1	2.09	0.52
11:D:184:PRO:O	11:D:186:ALA:N	2.43	0.52
11:D:192:VAL:O	11:D:195:THR:HB	2.10	0.52
13:F:65:LYS:NZ	13:F:68:GLU:OE2	2.43	0.52
13:F:117:GLN:HE22	14:G:130:ARG:HH21	2.10	0.52
14:G:48:PHE:N	14:G:217:SER:O	2.35	0.52
15:H:274:VAL:O	15:H:309:ASP:N	2.41	0.52
15:H:288:ALA:O	15:H:292:ARG:N	2.34	0.52
17:J:193:THR:HA	17:J:355:GLY:H	1.74	0.52
17:J:354:SER:H	17:J:357:ASP:HB2	1.75	0.52
17:J:54:LYS:HB3	17:J:58:ILE:CD1	2.39	0.52
18:K:318:THR:HG21	18:K:321:ALA:HB2	1.91	0.52
19:L:252:VAL:HG21	19:L:301:ILE:HD13	1.91	0.52
19:L:364:HIS:HB3	19:L:392:ARG:HG3	1.92	0.52
19:L:77:ARG:HD3	20:M:15:ASP:O	2.09	0.52
21:N:141:ILE:O	21:N:145:LEU:HG	2.09	0.52
21:N:360:GLN:O	21:N:363:ALA:N	2.41	0.52
21:N:444:HIS:ND1	21:N:476:THR:O	2.42	0.52
21:N:679:ASN:O	21:N:682:PHE:HB2	2.08	0.52
22:O:44:SER:HA	22:O:48:PHE:CZ	2.44	0.52
23:P:108:LYS:O	23:P:109:SER:C	2.47	0.52
23:P:344:ARG:O	23:P:347:GLU:HB3	2.09	0.52
23:P:43:GLU:HA	23:P:85:LYS:NZ	2.24	0.52
24:Q:306:TYR:HA	24:Q:314:PHE:CZ	2.44	0.52
24:Q:314:PHE:CD1	24:Q:335:PHE:HZ	2.27	0.52
24:Q:65:TYR:CE2	24:Q:74:LEU:HD13	2.44	0.52
25:R:266:LEU:HB3	25:R:270:VAL:HG22	1.91	0.52
26:S:160:ARG:O	26:S:164:ILE:N	2.31	0.52
26:S:385:SER:C	26:S:389:LYS:NZ	2.63	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:42:ARG:NH2	26:S:487:THR:OG1	2.43	0.52
27:T:125:GLU:O	27:T:129:LEU:N	2.39	0.52
26:S:465:ILE:HD13	27:T:260:ILE:HG21	1.91	0.52
27:T:52:LEU:HA	27:T:56:MET:CG	2.39	0.52
28:U:164:GLU:C	29:V:42:ARG:HH12	2.11	0.52
29:V:186:GLN:HB3	29:V:190:HIS:HD2	1.73	0.52
28:U:199:GLY:N	29:V:233:LYS:HZ1	2.08	0.52
31:X:40:GLU:HB2	31:X:42:GLU:HG2	1.91	0.52
25:R:222:ARG:CZ	32:Y:61:GLU:HA	2.39	0.52
33:Z:478:VAL:HG23	33:Z:489:ALA:HB1	1.91	0.52
33:Z:491:LEU:HD11	33:Z:899:GLN:HG3	1.90	0.52
33:Z:510:LEU:HD13	33:Z:545:SER:HB3	1.91	0.52
33:Z:957:LEU:HD11	33:Z:963:ALA:HB3	1.91	0.52
2:2:52:GLY:N	2:2:158:GLN:HE21	2.06	0.52
2:2:183:MET:HG2	4:4:161:LEU:HB3	1.91	0.52
5:5:161:GLU:CA	5:5:164:PHE:HB3	2.32	0.52
6:6:67:TYR:O	6:6:70:ARG:HB3	2.10	0.52
1:8:130:ILE:CG1	1:8:142:TYR:HB2	2.39	0.52
1:8:240:ARG:HD2	2:9:194:ARG:NH2	2.24	0.52
2:9:81:ASN:O	2:9:151:GLY:HA2	2.09	0.52
8:A:200:GLU:H	8:A:200:GLU:CD	2.11	0.52
10:C:156:ASN:OD1	10:C:157:TYR:N	2.43	0.52
10:C:32:ALA:HB3	10:C:166:GLY:HA2	1.91	0.52
12:E:202:LYS:HB2	12:E:243:LEU:HD22	5.14	0.52
14:G:198:LYS:HZ1	14:G:199:ILE:HG12	1.86	0.52
15:H:204:PRO:HD2	15:H:265:ASN:HB2	1.90	0.52
17:J:238:ARG:CZ	17:J:283:GLU:HG3	2.40	0.52
17:J:234:PHE:CZ	17:J:283:GLU:OE2	2.63	0.52
17:J:319:PRO:HB2	17:J:323:ALA:HB3	1.90	0.52
18:K:239:GLY:O	18:K:277:ILE:HG23	2.10	0.52
19:L:193:LEU:HB3	19:L:197:ILE:HD12	1.91	0.52
19:L:99:GLN:HA	29:V:73:GLN:NE2	2.25	0.52
20:M:308:LEU:HD21	20:M:323:VAL:HG11	1.91	0.52
17:J:26:LYS:HE3	21:N:103:SER:HB3	1.91	0.52
21:N:117:TYR:OH	21:N:199:ASN:ND2	2.42	0.52
21:N:495:PRO:C	21:N:499:HIS:HD1	2.11	0.52
22:O:331:ALA:HA	22:O:337:LEU:HB2	1.92	0.52
22:O:94:GLU:HG3	22:O:95:SER:N	2.25	0.52
24:Q:120:LYS:O	24:Q:124:PHE:N	2.31	0.52
24:Q:126:LYS:CE	24:Q:134:LYS:HZ2	2.19	0.52
24:Q:11:ALA:HB1	24:Q:27:TYR:CD2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:368:LEU:HD21	24:Q:372:GLN:HG3	1.91	0.52
24:Q:369:ASP:O	24:Q:373:VAL:N	2.28	0.52
24:Q:391:ASP:OD1	24:Q:398:TYR:HB2	2.09	0.52
25:R:225:LYS:HZ3	25:R:260:THR:C	2.13	0.52
27:T:89:TYR:CD1	27:T:102:LYS:HB3	2.43	0.52
33:Z:442:VAL:HB	33:Z:447:VAL:HG11	1.92	0.52
33:Z:863:THR:N	33:Z:909:ARG:O	2.33	0.52
1:1:130:ILE:CG1	1:1:142:TYR:HB2	2.39	0.52
3:3:36:ASP:OD2	3:3:189:GLY:N	2.36	0.52
5:5:197:LYS:HE2	5:5:199:TYR:CE1	2.44	0.52
6:6:38:LEU:N	6:6:42:THR:O	2.43	0.52
6:6:94:SER:OG	6:6:95:ARG:N	2.42	0.52
1:8:27:ASN:OD1	1:8:77:ALA:HB2	2.09	0.52
2:9:206:ALA:O	2:9:210:ILE:HG12	2.08	0.52
2:9:231:ALA:HB2	2:9:241:PHE:HD1	1.73	0.52
8:A:223:LEU:HB3	8:A:225:VAL:HG23	1.91	0.52
8:A:41:ASN:N	8:A:56:GLN:OE1	2.29	0.52
11:D:159:TRP:CE3	12:E:58:LEU:HB2	2.43	0.52
11:D:88:LYS:O	11:D:92:GLU:N	2.31	0.52
13:F:211:LEU:HD21	13:F:213:ILE:HD11	1.92	0.52
13:F:26:LEU:HA	13:F:29:ILE:HD12	1.91	0.52
13:F:90:GLN:O	13:F:93:ASN:HB3	2.09	0.52
14:G:237:GLN:HA	14:G:240:ILE:HD12	1.92	0.52
15:H:301:LYS:O	15:H:304:CYS:HB3	2.09	0.52
17:J:304:LEU:HD12	17:J:309:ARG:HB3	1.91	0.52
17:J:33:LYS:O	17:J:37:LYS:HG3	2.08	0.52
18:K:266:PRO:CA	18:K:311:ASN:HB3	2.36	0.52
19:L:193:LEU:O	19:L:197:ILE:N	2.43	0.52
19:L:407:ARG:HB3	19:L:409:HIS:O	2.10	0.52
19:L:416:MET:HB3	19:L:420:ARG:NH1	2.24	0.52
21:N:525:ASN:HA	21:N:528:ARG:CD	2.35	0.52
21:N:750:SER:HA	21:N:753:PHE:CE2	2.45	0.52
23:P:164:GLN:OE1	23:P:202:LYS:NZ	2.36	0.52
23:P:255:ALA:O	23:P:258:LYS:HE2	2.10	0.52
23:P:408:SER:H	23:P:410:GLN:HE22	1.58	0.52
23:P:427:GLU:OE1	29:V:234:GLU:CD	2.47	0.52
24:Q:117:VAL:HG13	24:Q:120:LYS:HD2	1.90	0.52
24:Q:57:SER:C	24:Q:61:LEU:HB3	2.29	0.52
25:R:209:ARG:HG2	25:R:238:PHE:CD2	2.44	0.52
25:R:29:LYS:HD3	25:R:49:PHE:HB2	1.91	0.52
26:S:20:HIS:HE1	26:S:131:THR:HB	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:280:ASN:HB3	26:S:285:ASP:O	2.09	0.52
26:S:413:LEU:HG	26:S:414:ASP:OD1	2.09	0.52
27:T:30:ILE:O	27:T:33:GLU:HB2	2.10	0.52
22:O:75:GLN:HB2	30:W:82:GLU:OE2	2.09	0.52
32:Y:82:ASP:O	32:Y:86:ARG:N	2.36	0.52
33:Z:109:PRO:C	33:Z:142:ASP:OD2	2.47	0.52
33:Z:347:ASN:HA	33:Z:352:LYS:HB2	1.90	0.52
33:Z:927:VAL:HG22	33:Z:957:LEU:HB2	1.90	0.52
1:1:237:GLU:CD	2:2:194:ARG:HH12	2.01	0.52
5:5:51:LEU:HD12	5:5:108:VAL:O	2.10	0.52
6:6:79:ALA:HB2	10:C:104:GLU:OE1	2.09	0.52
7:7:94:ARG:NH2	7:7:247:GLY:HA3	2.25	0.52
1:8:116:LEU:HD12	1:8:148:GLY:HA2	1.91	0.52
1:8:30:THR:HG22	1:8:31:ILE:N	2.24	0.52
1:8:78:ALA:HB2	2:9:168:VAL:HA	1.90	0.52
8:A:20:SER:O	8:A:23:GLY:N	2.32	0.52
9:B:108:LYS:HG3	9:B:109:LEU:H	1.75	0.52
9:B:111:VAL:HG21	9:B:148:TYR:HD2	1.75	0.52
10:C:116:SER:HB3	10:C:155:GLY:O	2.10	0.52
11:D:74:SER:O	11:D:134:LEU:N	2.30	0.52
13:F:112:LEU:O	13:F:116:ALA:N	2.23	0.52
13:F:14:SER:N	13:F:18:ARG:H	2.07	0.52
14:G:221:LEU:O	14:G:225:ASN:HA	2.10	0.52
16:I:185:GLY:HA3	16:I:361:ILE:CG1	2.40	0.52
16:I:395:MET:HB2	16:I:420:LYS:HB2	1.92	0.52
17:J:273:LEU:HD22	17:J:309:ARG:NH1	2.25	0.52
17:J:182:PRO:HB2	17:J:289:LYS:NZ	2.24	0.52
17:J:337:LEU:HA	17:J:377:VAL:N	2.23	0.52
17:J:76:ILE:HB	17:J:85:LEU:HD23	1.92	0.52
18:K:151:PRO:HG2	19:L:112:LEU:HD11	1.90	0.52
18:K:213:GLY:N	18:K:219:LYS:HZ2	2.08	0.52
19:L:167:VAL:HA	19:L:171:THR:HA	1.91	0.52
15:H:318:ARG:O	20:M:249:PRO:HB3	2.09	0.52
21:N:124:TYR:O	21:N:162:ARG:NH1	2.41	0.52
21:N:300:ASN:ND2	21:N:378:ASN:OD1	2.42	0.52
21:N:444:HIS:HB2	21:N:476:THR:HG22	1.92	0.52
21:N:698:GLY:O	21:N:702:ALA:N	2.22	0.52
21:N:50:TYR:CE1	21:N:84:ALA:HB1	2.44	0.52
22:O:289:GLN:HE22	22:O:334:LEU:HD11	1.74	0.52
22:O:352:TRP:CD2	22:O:353:VAL:N	2.69	0.52
22:O:39:PHE:HB3	22:O:40:GLN:OE1	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:223:LEU:HA	23:P:226:LYS:HE2	1.91	0.52
23:P:263:HIS:ND1	23:P:328:ALA:HB3	2.24	0.52
23:P:422:LEU:CB	23:P:426:ILE:CG1	2.83	0.52
24:Q:223:GLY:HA3	24:Q:239:PHE:CE1	2.45	0.52
25:R:232:VAL:CA	25:R:253:ALA:HB1	2.39	0.52
25:R:71:LEU:HD12	25:R:76:GLN:HA	1.92	0.52
26:S:159:ASN:HD21	26:S:187:ILE:HG21	1.75	0.52
28:U:122:ILE:HB	28:U:135:ASP:HB2	1.91	0.52
29:V:49:VAL:O	29:V:109:HIS:HA	2.09	0.52
30:W:143:ASN:HD21	30:W:149:GLN:H	1.56	0.52
31:X:14:VAL:HB	31:X:60:GLU:O	2.10	0.52
33:Z:406:TRP:O	33:Z:410:THR:HG23	2.09	0.52
1:1:165:ILE:HG12	1:1:206:SER:HB3	1.92	0.52
3:3:25:VAL:HG13	3:3:143:TYR:HB3	1.91	0.52
3:3:192:ILE:HB	3:3:207:PHE:HB2	1.92	0.52
4:4:132:VAL:HB	4:4:209:ILE:HA	1.92	0.52
7:7:119:THR:HG1	7:7:175:MET:H	1.55	0.52
7:7:162:VAL:HG11	7:7:192:SER:HA	1.91	0.52
7:7:268:VAL:O	7:7:272:PHE:N	2.26	0.52
9:B:224:TYR:CE1	9:B:227:ILE:HD12	2.45	0.52
11:D:117:GLN:NE2	11:D:131:VAL:O	2.42	0.52
11:D:143:ASP:HA	11:D:217:PRO:HB3	1.91	0.52
11:D:30:GLY:O	11:D:166:ARG:N	2.40	0.52
11:D:7:ALA:HA	11:D:124:GLY:HA2	1.91	0.52
11:D:81:ASP:OD2	11:D:130:GLY:N	2.26	0.52
12:E:47:VAL:C	12:E:48:LEU:HD12	2.30	0.52
12:E:35:SER:HA	12:E:53:ARG:NH2	2.25	0.52
13:F:206:LEU:HB2	13:F:211:LEU:HB2	1.92	0.52
13:F:64:ILE:HB	13:F:72:LEU:HG	1.92	0.52
14:G:33:ASN:HA	14:G:167:LYS:HZ1	1.69	0.52
15:H:221:LEU:O	15:H:225:VAL:N	2.41	0.52
15:H:54:ASN:HB3	16:I:96:LEU:HD13	1.92	0.52
16:I:196:GLU:O	16:I:201:PRO:HD3	2.10	0.52
16:I:401:LEU:HD23	16:I:404:LEU:HD12	1.91	0.52
17:J:361:VAL:HG13	17:J:385:ALA:HB3	1.91	0.52
17:J:43:ARG:O	17:J:47:GLN:N	2.39	0.52
18:K:233:ALA:O	18:K:267:SER:OG	2.23	0.52
18:K:302:GLN:O	18:K:306:PHE:HD2	1.92	0.52
19:L:221:TYR:C	19:L:228:LYS:HZ2	2.12	0.52
18:K:243:VAL:HG11	19:L:300:GLU:N	2.25	0.52
20:M:26:SER:O	20:M:30:LEU:HG	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:401:ILE:HG22	20:M:414:ASP:HA	1.92	0.52
21:N:154:LEU:HB3	21:N:189:LEU:HD22	1.92	0.52
21:N:239:LEU:HD11	21:N:276:GLU:HG3	1.91	0.52
21:N:334:VAL:HG12	21:N:338:PHE:CE1	2.43	0.52
21:N:466:LEU:HB3	21:N:481:ALA:HB1	1.92	0.52
21:N:701:VAL:O	21:N:705:ILE:N	2.31	0.52
22:O:311:GLU:C	22:O:315:LYS:HZ3	2.13	0.52
23:P:284:ILE:HG23	23:P:285:GLN:OE1	2.10	0.52
23:P:43:GLU:O	23:P:85:LYS:NZ	2.42	0.52
23:P:59:LEU:O	23:P:63:VAL:HG23	2.10	0.52
24:Q:314:PHE:HD1	24:Q:335:PHE:HZ	1.58	0.52
24:Q:65:TYR:HD2	24:Q:74:LEU:HD22	1.73	0.52
25:R:24:TYR:CD1	25:R:244:THR:HA	2.45	0.52
25:R:41:GLU:O	25:R:45:GLU:N	2.43	0.52
25:R:67:CYS:HA	25:R:92:ILE:HG13	1.91	0.52
26:S:258:GLU:OE2	26:S:260:PRO:HB3	2.08	0.52
26:S:288:THR:HA	26:S:291:GLU:HB2	1.90	0.52
26:S:460:VAL:O	26:S:463:GLU:HB3	2.10	0.52
27:T:80:ASN:HA	27:T:83:ASN:HD22	1.75	0.52
30:W:49:VAL:HG12	30:W:50:GLY:O	2.09	0.52
30:W:51:LEU:HB3	30:W:63:SER:CB	2.34	0.52
33:Z:183:LYS:HZ3	33:Z:292:ASP:CB	2.23	0.52
33:Z:322:GLU:HG3	33:Z:323:TYR:N	2.25	0.52
2:2:132:VAL:O	2:2:135:GLN:HB2	2.10	0.52
4:4:202:VAL:HB	4:4:220:LEU:H	1.75	0.52
5:5:85:GLU:CD	5:5:85:GLU:H	2.13	0.52
6:6:184:VAL:HA	6:6:188:GLY:O	2.09	0.52
7:7:83:PHE:CE1	7:7:88:ILE:HG12	2.45	0.52
1:8:32:LEU:HD21	1:8:34:ILE:HD11	1.91	0.52
1:8:49:ILE:HA	1:8:55:ASN:H	1.73	0.52
1:8:76:PHE:CE2	1:8:78:ALA:HB3	2.44	0.52
8:A:13:ASP:OD1	8:A:14:ARG:N	2.43	0.52
9:B:197:LYS:NZ	9:B:204:PHE:CD2	2.75	0.52
10:C:122:TYR:HE2	10:C:131:PHE:CZ	2.27	0.52
10:C:215:THR:N	10:C:228:LYS:O	2.31	0.52
12:E:155:LEU:O	12:E:166:ARG:HA	2.09	0.52
12:E:52:LYS:HG3	12:E:215:ASN:O	2.10	0.52
13:F:168:ALA:HA	13:F:199:GLN:HB2	1.92	0.52
14:G:114:ASP:O	14:G:118:GLN:HG2	2.10	0.52
14:G:12:ASN:HB3	14:G:126:TYR:O	2.09	0.52
15:H:276:GLY:HA3	15:H:310:GLU:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:331:ARG:HH12	15:H:335:GLU:HB2	1.74	0.52
15:H:373:ARG:HG3	15:H:375:VAL:HG23	1.91	0.52
17:J:262:GLY:O	17:J:266:SER:HB3	2.09	0.52
17:J:303:ALA:O	17:J:309:ARG:HD2	2.10	0.52
17:J:188:TYR:HB3	17:J:315:GLU:HG2	1.91	0.52
17:J:188:TYR:H	17:J:316:PHE:H	1.58	0.52
17:J:99:ALA:HB3	17:J:102:ILE:HG12	1.91	0.52
18:K:341:PRO:O	18:K:342:SER:CB	2.56	0.52
18:K:411:TYR:O	18:K:415:VAL:HG13	2.09	0.52
17:J:31:GLU:N	18:K:55:GLU:OE2	2.42	0.52
21:N:377:GLY:N	21:N:411:ILE:HG23	2.25	0.52
21:N:473:ASP:HB3	21:N:510:HIS:HE1	1.75	0.52
21:N:718:GLU:OE1	21:N:725:LEU:N	2.42	0.52
21:N:762:ARG:CD	21:N:767:ALA:H	2.22	0.52
22:O:164:PRO:HB3	22:O:166:ARG:HB3	1.91	0.52
22:O:212:GLN:O	22:O:215:TYR:HB3	2.09	0.52
23:P:101:MET:CE	23:P:115:ARG:HG3	2.39	0.52
23:P:105:LYS:C	23:P:107:SER:H	2.11	0.52
24:Q:155:LEU:HD11	24:Q:188:LEU:HD11	1.90	0.52
24:Q:14:LEU:HA	24:Q:17:GLU:HB2	1.91	0.52
24:Q:311:LEU:HD12	24:Q:339:TYR:OH	2.10	0.52
24:Q:381:ILE:O	24:Q:384:LYS:HD2	2.10	0.52
25:R:184:GLN:HB3	25:R:185:LEU:HG	1.91	0.52
25:R:31:PHE:HA	25:R:34:THR:OG1	2.10	0.52
25:R:62:TYR:O	25:R:65:TYR:N	2.42	0.52
26:S:361:THR:O	26:S:365:THR:N	2.22	0.52
26:S:453:ASP:OD1	26:S:454:SER:N	2.43	0.52
26:S:479:MET:SD	28:U:291:LEU:HD11	2.38	0.52
26:S:72:GLU:O	26:S:74:LEU:N	2.43	0.52
28:U:11:ALA:HB2	28:U:48:VAL:O	2.10	0.52
33:Z:258:PRO:HB2	33:Z:259:PRO:HD3	1.91	0.52
33:Z:436:LEU:O	33:Z:440:LEU:N	2.39	0.52
33:Z:740:VAL:HG13	33:Z:764:LEU:HD13	1.91	0.52
33:Z:971:ILE:HG22	33:Z:972:SER:O	2.10	0.52
3:3:108:ASN:O	3:3:112:LEU:HG	2.10	0.52
3:3:60:ILE:HG12	3:3:94:THR:OG1	2.10	0.52
4:4:243:LYS:H	5:5:199:TYR:HB2	1.74	0.52
4:4:233:LYS:HB2	5:5:155:GLU:OE2	2.09	0.52
5:5:21:VAL:O	5:5:190:ILE:HB	2.09	0.52
6:6:41:HIS:CG	6:6:109:LYS:HD3	2.44	0.52
7:7:209:THR:O	7:7:212:TYR:HB2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:156:LYS:HZ2	8:A:175:GLN:HE22	1.61	0.52
8:A:238:ALA:HA	8:A:241:ILE:HD12	1.92	0.52
8:A:163:TYR:HE1	9:B:83:ARG:HD3	1.75	0.52
12:E:153:TYR:CE1	12:E:223:THR:HA	2.45	0.52
13:F:117:GLN:OE1	14:G:83:PRO:HB2	2.19	0.52
15:H:156:VAL:HG11	20:M:163:PHE:CD1	2.44	0.52
15:H:96:PRO:HG3	16:I:111:GLU:HG3	1.92	0.52
16:I:270:VAL:HA	16:I:274:ASN:HD22	1.75	0.52
17:J:144:ASP:HA	17:J:204:HIS:CG	2.45	0.52
17:J:338:THR:N	17:J:377:VAL:O	2.42	0.52
10:C:113:ARG:NH1	18:K:71:GLU:OE2	219.69	0.52
18:K:74:HIS:CE1	18:K:78:GLU:OE2	2.63	0.52
19:L:107:GLU:HG2	19:L:145:ARG:CA	2.37	0.52
19:L:305:LEU:HD11	19:L:334:ASP:HB2	1.92	0.52
19:L:370:LYS:HG2	19:L:410:ILE:CB	2.37	0.52
20:M:17:GLU:HB3	20:M:21:GLU:CD	2.30	0.52
20:M:357:ARG:CZ	20:M:385:GLU:H	2.22	0.52
21:N:409:GLY:O	21:N:413:ALA:N	2.43	0.52
23:P:54:SER:HB2	23:P:88:GLN:NE2	2.25	0.52
23:P:93:ILE:HG22	23:P:97:ILE:HG13	1.92	0.52
25:R:31:PHE:CZ	25:R:35:GLN:HG3	2.45	0.52
25:R:65:TYR:HD1	25:R:68:GLU:OE1	1.93	0.52
26:S:167:LEU:HA	26:S:171:TYR:CZ	2.45	0.52
26:S:307:LEU:O	26:S:311:GLN:HG2	2.09	0.52
26:S:401:LYS:HD3	26:S:442:PHE:HB3	1.92	0.52
27:T:157:TYR:HD2	27:T:189:ILE:HD11	1.74	0.52
28:U:169:ILE:O	28:U:172:GLU:HB3	2.09	0.52
28:U:263:LYS:HG3	28:U:265:LEU:HG	1.91	0.52
31:X:90:VAL:HA	31:X:96:ARG:HG2	1.92	0.52
33:Z:624:LEU:HA	33:Z:736:LEU:HD11	1.92	0.52
4:4:207:MET:HG2	4:4:213:ALA:HB2	1.91	0.52
5:5:107:PRO:HG2	5:5:124:PHE:HB2	1.92	0.52
5:5:94:SER:O	5:5:97:GLU:HB3	2.10	0.52
6:6:162:LYS:NZ	6:6:198:GLN:N	2.54	0.52
2:9:160:LEU:O	2:9:171:SER:OG	2.20	0.52
8:A:148:GLU:HA	8:A:230:LYS:HE3	1.92	0.52
9:B:186:GLU:HA	9:B:189:ILE:HB	1.93	0.52
10:C:231:LYS:H	10:C:234:GLU:HB2	1.75	0.52
10:C:35:ALA:O	10:C:165:VAL:N	2.33	0.52
11:D:198:SER:HA	11:D:201:GLU:HG2	1.92	0.52
13:F:137:TYR:CE2	13:F:218:LYS:HA	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:33:SER:HA	13:F:51:ARG:NH2	2.25	0.52
14:G:130:ARG:HG2	14:G:130:ARG:NH1	2.80	0.52
14:G:41:LYS:HB3	14:G:161:LYS:HA	1.92	0.52
13:F:156:LEU:HD23	14:G:59:LEU:HA	1.92	0.52
15:H:291:VAL:HG11	15:H:336:LEU:HA	1.92	0.52
16:I:132:ILE:HA	16:I:156:ILE:HB	1.92	0.52
16:I:184:ILE:HG22	16:I:231:LEU:HB3	1.91	0.52
16:I:252:LEU:CD1	16:I:253:ILE:N	2.73	0.52
17:J:354:SER:O	17:J:358:VAL:N	2.41	0.52
18:K:177:LEU:O	18:K:181:LYS:N	2.25	0.52
19:L:102:GLY:O	19:L:103:GLN:NE2	2.42	0.52
19:L:334:ASP:OD2	19:L:336:ALA:HB3	2.10	0.52
19:L:103:GLN:HB2	20:M:128:PHE:HB3	1.91	0.52
20:M:220:MET:SD	20:M:228:LYS:HB3	2.50	0.52
20:M:278:ILE:HD12	20:M:323:VAL:HG22	1.91	0.52
20:M:417:GLU:HA	20:M:420:SER:CB	2.39	0.52
21:N:184:LYS:HB3	21:N:188:TYR:CZ	2.45	0.52
21:N:381:GLU:HA	21:N:384:LYS:HE2	1.92	0.52
21:N:495:PRO:O	21:N:498:ILE:HB	2.10	0.52
21:N:510:HIS:CG	21:N:513:ILE:HD12	2.45	0.52
21:N:536:ILE:HD13	21:N:555:ILE:HG12	1.90	0.52
21:N:611:LYS:HA	21:N:618:ARG:HH21	1.74	0.52
21:N:899:ASN:HB2	21:N:902:VAL:CG2	2.40	0.52
22:O:5:HIS:HE1	22:O:31:LYS:H	1.58	0.52
22:O:97:LYS:O	22:O:100:ASP:HB2	2.10	0.52
23:P:132:VAL:O	23:P:132:VAL:HG12	2.10	0.52
23:P:262:SER:O	23:P:266:TYR:HB2	2.09	0.52
23:P:81:LEU:HA	23:P:84:LYS:HD2	1.92	0.52
24:Q:25:GLN:O	24:Q:29:SER:OG	2.12	0.52
24:Q:379:GLN:CA	24:Q:382:LEU:HB3	2.39	0.52
24:Q:98:LYS:NZ	24:Q:140:LYS:NZ	2.58	0.52
25:R:207:ARG:HB3	25:R:211:LYS:HZ2	1.75	0.52
25:R:225:LYS:HZ1	25:R:261:LEU:HA	1.75	0.52
25:R:336:LYS:HZ2	25:R:340:GLN:HE22	1.56	0.52
25:R:360:SER:H	32:Y:82:ASP:CG	2.13	0.52
25:R:76:GLN:O	25:R:84:LYS:N	2.42	0.52
26:S:200:GLU:H	26:S:201:ILE:C	2.13	0.52
26:S:244:ASN:OD1	26:S:245:GLY:N	2.41	0.52
25:R:383:ARG:HB2	26:S:402:ILE:CG2	2.39	0.52
21:N:20:VAL:HG22	27:T:35:ILE:HD12	1.92	0.52
27:T:51:TYR:CE2	27:T:52:LEU:HG	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:102:SER:CB	28:U:105:LYS:HZ1	2.23	0.52
18:K:128:ARG:HH21	29:V:272:GLY:H	1.56	0.52
29:V:53:MET:O	29:V:105:VAL:N	2.31	0.52
31:X:87:PHE:HB2	31:X:99:PHE:CB	2.36	0.52
33:Z:897:HIS:CD2	33:Z:899:GLN:HG2	2.36	0.52
2:2:178:GLY:O	2:2:182:HIS:ND1	2.40	0.51
7:7:270:GLU:O	7:7:274:LYS:N	2.28	0.51
1:8:31:ILE:O	1:8:158:GLY:N	2.27	0.51
8:A:130:GLN:HA	9:B:128:ARG:NE	2.26	0.51
8:A:203:VAL:CG1	8:A:244:ARG:HD2	2.40	0.51
8:A:210:MET:HG2	8:A:218:PHE:CE2	2.46	0.51
8:A:40:ILE:HG23	8:A:56:GLN:HB2	1.92	0.51
8:A:49:ASP:O	8:A:152:PRO:HG3	2.11	0.51
9:B:12:PHE:HD2	10:C:21:GLN:NE2	2.25	0.51
10:C:26:LEU:HD23	10:C:29:ILE:HD12	1.92	0.51
13:F:87:TYR:HA	13:F:90:GLN:OE1	2.10	0.51
14:G:50:VAL:O	14:G:214:LEU:HD12	2.10	0.51
14:G:80:GLY:HA3	14:G:134:VAL:HG12	1.92	0.51
15:H:176:VAL:HG22	15:H:180:LYS:HA	1.91	0.51
15:H:246:ILE:HG23	15:H:352:MET:HG3	1.92	0.51
15:H:252:PRO:HA	15:H:256:LYS:HD2	1.91	0.51
15:H:362:ASP:HB3	15:H:365:LEU:HG	1.92	0.51
16:I:132:ILE:HG22	16:I:138:LYS:HZ2	1.75	0.51
17:J:160:ILE:HG12	17:J:187:LEU:HD21	1.91	0.51
17:J:326:GLU:OE2	17:J:329:ARG:NH2	2.43	0.51
17:J:47:GLN:O	17:J:51:LEU:N	2.32	0.51
18:K:158:ILE:HD11	18:K:253:MET:H	1.75	0.51
19:L:374:PHE:CD2	19:L:415:LEU:HB2	2.44	0.51
20:M:382:SER:O	20:M:423:GLN:NE2	2.41	0.51
21:N:154:LEU:O	21:N:158:LEU:N	2.19	0.51
21:N:578:ASP:O	21:N:584:ARG:NH2	2.43	0.51
21:N:94:LYS:HE3	21:N:99:GLU:OE1	2.10	0.51
22:O:133:ILE:HG22	22:O:137:TYR:CE2	2.45	0.51
22:O:229:ASN:N	22:O:230:PHE:HB2	2.25	0.51
22:O:228:TYR:CD2	22:O:287:LEU:HD23	2.44	0.51
22:O:93:ASP:O	22:O:96:LEU:HB3	2.09	0.51
23:P:204:LEU:HD22	23:P:220:TYR:CE2	2.46	0.51
23:P:270:LEU:HD22	23:P:337:HIS:HA	1.92	0.51
23:P:410:GLN:HB3	23:P:414:GLU:CD	2.31	0.51
24:Q:295:GLY:N	24:Q:324:GLU:OE1	2.33	0.51
24:Q:267:LEU:HD23	24:Q:330:LEU:HD23	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:75:ARG:HH11	24:Q:75:ARG:HB3	1.75	0.51
25:R:225:LYS:NZ	25:R:261:LEU:HA	2.25	0.51
26:S:258:GLU:HA	26:S:272:TYR:OH	2.11	0.51
26:S:352:VAL:O	26:S:387:VAL:HG11	2.11	0.51
26:S:465:ILE:HG21	27:T:260:ILE:CG2	2.40	0.51
27:T:108:LEU:HD21	27:T:169:GLN:NE2	2.25	0.51
27:T:59:LYS:NZ	27:T:102:LYS:HD2	2.24	0.51
28:U:103:ASP:O	28:U:107:ASN:N	2.31	0.51
28:U:21:HIS:CG	28:U:53:ALA:HB2	2.45	0.51
21:N:362:TRP:HD1	29:V:165:ILE:C	2.12	0.51
30:W:132:LEU:HD13	30:W:139:VAL:HG21	1.92	0.51
30:W:148:GLU:OE1	30:W:173:THR:HG22	2.10	0.51
33:Z:188:ALA:HB3	33:Z:190:THR:HG22	1.91	0.51
33:Z:785:VAL:CG2	33:Z:864:MET:HB3	2.39	0.51
33:Z:417:SER:OG	33:Z:899:GLN:HA	2.09	0.51
2:2:59:ASN:ND2	2:2:244:ASN:HA	2.25	0.51
3:3:121:TYR:HA	3:3:127:GLY:HA2	1.91	0.51
3:3:129:VAL:HB	3:3:141:LEU:O	2.10	0.51
3:3:66:GLY:CA	3:3:113:THR:HG22	2.40	0.51
3:3:85:TYR:CE1	3:3:89:TYR:HB2	2.44	0.51
4:4:59:ASN:HD21	4:4:218:ASN:HD21	1.59	0.51
5:5:18:LYS:HB2	5:5:157:ASN:O	2.10	0.51
5:5:164:PHE:CE1	5:5:198:ARG:HD2	2.44	0.51
6:6:160:LEU:HD12	6:6:163:LEU:HD23	1.91	0.51
7:7:124:ALA:O	7:7:128:GLN:N	2.38	0.51
7:7:142:GLU:HG2	7:7:147:GLU:O	2.10	0.51
7:7:176:ILE:N	7:7:188:TYR:O	2.28	0.51
1:8:165:ILE:HG12	1:8:206:SER:HB3	1.92	0.51
10:C:186:VAL:HB	10:C:217:ARG:NH2	2.15	0.51
12:E:243:LEU:HB3	12:E:247:GLU:CD	3.25	0.51
14:G:9:ASP:OD1	14:G:10:LEU:N	2.43	0.51
14:G:151:LEU:HD13	14:G:157:TYR:CD1	2.44	0.51
14:G:204:HIS:CE1	14:G:208:LYS:HA	2.45	0.51
15:H:299:ARG:HA	15:H:302:LYS:HB3	1.91	0.51
15:H:310:GLU:HB3	15:H:313:ALA:HB2	1.92	0.51
17:J:147:TYR:CG	17:J:157:ILE:HG21	2.45	0.51
17:J:329:ARG:O	17:J:333:ARG:HB2	2.10	0.51
18:K:237:VAL:HB	18:K:271:ILE:HG12	1.91	0.51
18:K:236:ARG:HD3	18:K:272:ASP:OD2	2.09	0.51
17:J:51:LEU:HD11	18:K:72:GLN:HG3	1.93	0.51
19:L:136:ASP:H	19:L:158:ILE:HD11	1.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:286:ILE:HA	19:L:301:ILE:HD12	1.92	0.51
19:L:94:ASP:O	19:L:98:LEU:HG	2.10	0.51
21:N:276:GLU:O	21:N:280:GLN:N	2.35	0.51
21:N:614:ASN:ND2	21:N:617:VAL:H	2.09	0.51
21:N:649:VAL:HB	21:N:652:VAL:CG2	2.38	0.51
21:N:762:ARG:HE	21:N:764:SER:HG	1.58	0.51
22:O:167:ILE:O	22:O:171:PHE:N	2.34	0.51
22:O:261:GLY:O	22:O:288:ARG:NH2	2.43	0.51
23:P:245:TYR:CE1	23:P:261:LEU:HB2	2.46	0.51
23:P:274:GLY:N	23:P:277:GLN:OE1	2.43	0.51
23:P:310:ARG:O	23:P:313:ILE:HB	2.10	0.51
23:P:342:GLN:O	23:P:346:ILE:HG13	2.10	0.51
23:P:386:GLN:HB3	23:P:388:ILE:HG13	1.93	0.51
23:P:418:ASN:O	23:P:421:GLU:HB2	2.10	0.51
23:P:432:LEU:O	23:P:436:GLU:HG3	2.11	0.51
23:P:440:HIS:CD2	23:P:442:LEU:HB2	2.45	0.51
24:Q:213:GLN:HG2	24:Q:217:GLU:OE2	2.11	0.51
25:R:410:LEU:O	25:R:414:LEU:HG	2.10	0.51
26:S:436:ILE:HA	26:S:442:PHE:O	2.09	0.51
27:T:112:ASN:O	27:T:116:GLN:N	2.32	0.51
27:T:86:LYS:HB3	27:T:87:PRO:HD3	1.91	0.51
28:U:139:ALA:C	28:U:153:THR:O	2.46	0.51
28:U:276:ILE:HG23	29:V:291:ASN:HB3	1.92	0.51
29:V:36:LYS:NZ	29:V:69:PHE:HB3	2.25	0.51
30:W:17:ARG:HG3	30:W:18:ASN:HB2	1.93	0.51
30:W:56:GLY:HA2	30:W:83:GLY:HA3	1.92	0.51
31:X:88:ALA:HA	31:X:98:PHE:CD1	2.45	0.51
33:Z:435:GLN:HE22	33:Z:438:LYS:HZ3	1.59	0.51
33:Z:463:HIS:O	33:Z:471:LEU:HD22	2.10	0.51
33:Z:482:ASP:HB2	33:Z:485:ILE:HB	1.91	0.51
33:Z:550:PHE:CD2	33:Z:587:THR:HA	2.45	0.51
33:Z:851:ALA:O	33:Z:855:LEU:N	2.23	0.51
3:3:66:GLY:HA2	3:3:113:THR:HG22	1.92	0.51
3:3:181:ALA:O	3:3:185:ASP:N	2.42	0.51
3:3:67:SER:HB3	3:3:70:ASP:CG	2.31	0.51
4:4:195:ASP:OD1	4:4:197:GLY:N	2.43	0.51
4:4:236:ARG:NE	5:5:162:ASP:OD1	2.43	0.51
5:5:190:ILE:HG23	5:5:195:VAL:HG22	1.93	0.51
6:6:49:GLU:HG3	7:7:166:LYS:NZ	2.25	0.51
6:6:66:LEU:HD21	6:6:70:ARG:HH22	1.74	0.51
6:6:91:SER:O	6:6:94:SER:N	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:151:VAL:HG12	7:7:188:TYR:CD2	2.45	0.51
2:9:59:ASN:ND2	2:9:244:ASN:HA	2.25	0.51
8:A:195:ASN:O	8:A:196:GLU:HG3	2.11	0.51
9:B:242:GLU:HA	9:B:245:ASP:OD2	2.10	0.51
10:C:138:ALA:HB1	10:C:216:ILE:HD12	1.93	0.51
10:C:152:ASN:O	10:C:155:GLY:N	2.39	0.51
12:E:147:HIS:HA	12:E:153:TYR:HA	1.92	0.51
13:F:67:ASP:N	13:F:70:MET:O	2.44	0.51
13:F:6:TYR:CZ	13:F:15:PRO:HG3	2.46	0.51
14:G:201:TYR:O	14:G:205:GLU:HG2	2.10	0.51
15:H:382:LEU:HA	15:H:385:ARG:NH2	2.25	0.51
15:H:390:ARG:HB2	15:H:390:ARG:CZ	2.41	0.51
16:I:190:GLN:HE22	16:I:349:LEU:C	2.13	0.51
15:H:428:MET:HG3	16:I:216:PRO:HD2	1.92	0.51
16:I:387:LEU:HD13	16:I:391:ASP:CB	2.40	0.51
18:K:187:ALA:CB	18:K:336:ARG:HE	2.23	0.51
18:K:269:ILE:HG12	18:K:312:VAL:HG11	1.92	0.51
18:K:275:ASP:OD2	18:K:320:ARG:HB2	2.10	0.51
18:K:219:LYS:HB2	18:K:340:PHE:CD1	2.46	0.51
18:K:393:ARG:HD3	18:K:409:GLU:HB3	1.92	0.51
19:L:148:LEU:HD23	19:L:155:ILE:HA	1.91	0.51
19:L:164:ASP:O	19:L:166:LEU:N	2.43	0.51
19:L:251:ILE:HG12	19:L:262:ILE:HG21	1.91	0.51
19:L:257:GLY:O	19:L:261:ARG:N	2.24	0.51
20:M:357:ARG:HA	20:M:360:ILE:HD12	1.92	0.51
21:N:178:SER:CB	21:N:181:GLU:HB2	2.40	0.51
21:N:387:ALA:HA	21:N:390:LEU:HD12	1.90	0.51
21:N:513:ILE:O	21:N:517:LEU:HG	2.11	0.51
21:N:53:ASP:HA	21:N:58:ARG:NH1	2.25	0.51
21:N:625:LEU:HD23	21:N:641:LEU:HD11	1.92	0.51
22:O:26:PHE:HA	22:O:61:LEU:HD13	1.91	0.51
24:Q:144:LEU:HD23	24:Q:147:GLN:OE1	2.10	0.51
25:R:120:LEU:HB3	25:R:130:GLN:HA	1.93	0.51
25:R:373:PRO:O	25:R:375:LYS:HG3	2.10	0.51
25:R:89:ASN:HD22	25:R:92:ILE:HB	1.75	0.51
26:S:230:LYS:HE2	26:S:256:LYS:HD3	1.91	0.51
26:S:437:ASN:HB2	26:S:440:ASP:HB2	1.92	0.51
27:T:204:ASN:O	27:T:208:LEU:N	2.33	0.51
28:U:139:ALA:O	28:U:140:ILE:CB	2.57	0.51
28:U:7:LYS:HE3	28:U:158:PRO:O	2.10	0.51
29:V:135:ARG:HB2	29:V:157:ARG:NE	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:243:SER:O	29:V:250:GLN:NE2	2.43	0.51
30:W:32:SER:O	30:W:36:ILE:HG13	2.10	0.51
33:Z:269:TYR:CZ	33:Z:273:LEU:HB2	2.45	0.51
33:Z:927:VAL:HG12	33:Z:968:ASP:OD2	2.10	0.51
1:1:49:ILE:HG22	1:1:54:ILE:HA	1.92	0.51
1:1:80:GLY:HA2	1:1:83:LEU:HB3	1.93	0.51
2:2:95:HIS:CD2	2:2:99:LEU:HD11	2.46	0.51
3:3:23:MET:HE1	3:3:174:ILE:HA	1.93	0.51
3:3:37:SER:HB2	3:3:49:VAL:C	2.31	0.51
4:4:225:ARG:HH12	5:5:151:GLU:HG3	1.75	0.51
6:6:108:ASP:CG	6:6:111:LYS:H	2.14	0.51
7:7:141:HIS:HA	7:7:144:ARG:CZ	2.41	0.51
1:8:60:PRO:HG3	1:8:222:GLU:OE2	2.10	0.51
1:8:50:THR:O	1:8:53:SER:N	2.43	0.51
8:A:44:ALA:HB3	8:A:169:THR:HG22	1.92	0.51
8:A:201:LYS:HD3	8:A:204:GLU:OE1	2.11	0.51
8:A:41:ASN:HB2	8:A:56:GLN:NE2	2.26	0.51
10:C:141:ASP:CG	10:C:144:TYR:H	2.13	0.51
10:C:141:ASP:OD1	10:C:145:GLY:N	2.43	0.51
12:E:35:SER:HA	12:E:53:ARG:CZ	2.41	0.51
13:F:34:VAL:HA	13:F:161:ILE:O	2.11	0.51
15:H:144:LYS:H	20:M:74:GLN:HB2	1.76	0.51
15:H:393:SER:HB3	15:H:404:TRP:CZ2	2.45	0.51
16:I:174:ASP:OD2	16:I:177:PRO:HB3	2.09	0.51
16:I:285:ASP:HB2	16:I:330:LYS:NZ	2.25	0.51
17:J:150:VAL:HB	17:J:153:LEU:HD12	1.93	0.51
17:J:165:GLU:O	17:J:169:LYS:N	2.23	0.51
17:J:188:TYR:CD1	17:J:295:ASN:HA	2.45	0.51
18:K:184:ILE:HG12	18:K:338:ILE:HD13	1.92	0.51
18:K:270:PHE:HZ	18:K:317:ALA:HB2	1.75	0.51
18:K:371:LEU:HB3	18:K:375:ASN:ND2	2.23	0.51
19:L:105:ILE:HB	20:M:126:THR:OG1	2.10	0.51
19:L:221:TYR:HB3	19:L:327:THR:HG23	1.92	0.51
19:L:249:SER:H	20:M:303:ARG:HH21	1.58	0.51
19:L:392:ARG:O	19:L:396:THR:N	2.37	0.51
20:M:339:ARG:H	20:M:344:ASP:HA	1.74	0.51
20:M:70:LYS:HB3	29:V:75:GLY:N	2.20	0.51
21:N:124:TYR:HE2	21:N:164:ASP:CG	2.12	0.51
21:N:12:LEU:HA	21:N:15:GLU:OE1	2.11	0.51
21:N:36:TRP:CD2	21:N:37:SER:N	2.78	0.51
21:N:375:HIS:CD2	21:N:385:VAL:HG11	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:530:GLU:OE1	21:N:530:GLU:N	2.40	0.51
21:N:601:THR:O	21:N:605:ILE:N	2.29	0.51
21:N:775:CYS:O	21:N:882:ILE:HG12	2.09	0.51
21:N:781:ALA:N	21:N:878:GLN:OE1	2.43	0.51
22:O:87:LYS:HZ3	22:O:138:LEU:HD13	1.74	0.51
22:O:147:ARG:CA	22:O:150:LEU:HB3	2.39	0.51
22:O:243:VAL:HA	22:O:248:TYR:HB3	1.92	0.51
22:O:290:LYS:HA	22:O:293:LEU:HB2	1.91	0.51
23:P:122:ILE:HG22	23:P:124:VAL:HG13	1.93	0.51
23:P:123:ARG:O	23:P:125:VAL:N	2.43	0.51
23:P:292:LYS:HA	23:P:294:GLU:HG3	1.91	0.51
23:P:341:LEU:O	23:P:344:ARG:HB3	2.11	0.51
24:Q:185:TYR:HA	24:Q:188:LEU:HB2	1.92	0.51
24:Q:430:ALA:HB1	28:U:296:ILE:HG22	1.90	0.51
24:Q:37:GLN:O	24:Q:46:VAL:HG12	2.10	0.51
26:S:235:ASN:HA	26:S:238:LEU:HD12	1.90	0.51
26:S:368:LYS:HG3	26:S:377:TYR:CD1	2.45	0.51
27:T:113:LEU:HA	27:T:116:GLN:OE1	2.11	0.51
27:T:254:ASP:HB2	27:T:258:ASN:OD1	2.10	0.51
28:U:199:GLY:N	29:V:233:LYS:NZ	2.59	0.51
28:U:69:ASP:CG	28:U:71:ASN:H	2.13	0.51
29:V:111:HIS:CD2	29:V:118:LEU:HD22	2.46	0.51
29:V:160:ASP:OD2	29:V:184:ASN:OD1	2.28	0.51
28:U:195:LYS:NZ	29:V:233:LYS:HE3	2.26	0.51
28:U:57:GLU:HB2	30:W:100:HIS:NE2	2.25	0.51
30:W:162:ASN:HB2	30:W:169:SER:OG	2.09	0.51
33:Z:413:ASP:OD2	33:Z:897:HIS:HB2	2.11	0.51
1:1:223:ILE:HD12	1:1:236:TYR:CE1	2.45	0.51
2:2:226:ARG:NH1	3:3:210:ASP:OD1	2.43	0.51
4:4:243:LYS:HB3	5:5:199:TYR:HD2	1.73	0.51
8:A:204:GLU:HG3	8:A:244:ARG:HD2	2.28	0.51
9:B:157:PHE:CE1	9:B:159:TRP:NE1	2.79	0.51
10:C:12:ILE:HA	11:D:19:GLN:HE22	1.76	0.51
13:F:6:TYR:HD1	13:F:13:PHE:O	1.94	0.51
8:A:89:ASP:OD1	14:G:121:GLN:NE2	2.44	0.51
14:G:122:ALA:HA	14:G:125:LEU:HD12	1.92	0.51
14:G:42:CYS:HB2	14:G:187:LEU:O	2.11	0.51
15:H:420:ARG:O	15:H:424:THR:N	2.43	0.51
16:I:109:LEU:HD23	16:I:120:VAL:HG12	1.93	0.51
17:J:154:THR:O	17:J:158:LYS:N	2.22	0.51
17:J:52:ASN:HD21	21:N:612:SER:CA	2.21	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:138:ALA:N	18:K:148:ASP:O	2.40	0.51
18:K:156:SER:O	18:K:158:ILE:HB	2.10	0.51
20:M:222:GLY:O	20:M:228:LYS:HD2	2.11	0.51
20:M:37:LEU:HD23	20:M:71:ASN:HD22	1.75	0.51
20:M:354:GLU:OE1	20:M:381:ARG:HG2	2.11	0.51
20:M:410:VAL:HA	20:M:414:ASP:OD2	2.11	0.51
21:N:120:ASP:OD2	21:N:126:LYS:HE2	2.10	0.51
21:N:237:LEU:HD23	21:N:240:GLN:OE1	2.10	0.51
21:N:13:LEU:HD22	21:N:42:GLU:HB3	1.93	0.51
17:J:100:LYS:NZ	21:N:690:HIS:CE1	2.78	0.51
21:N:891:VAL:N	21:N:906:ARG:O	2.43	0.51
22:O:25:LEU:HB3	22:O:29:PHE:CE2	2.46	0.51
24:Q:185:TYR:HA	24:Q:188:LEU:HD12	1.93	0.51
24:Q:340:ASP:HB3	24:Q:376:LYS:NZ	2.25	0.51
25:R:178:GLY:HA3	25:R:187:VAL:HG21	1.91	0.51
25:R:24:TYR:N	25:R:242:GLU:O	2.43	0.51
25:R:345:TYR:CB	25:R:348:LEU:HB2	2.41	0.51
25:R:366:ASN:O	25:R:370:LYS:HG3	2.11	0.51
27:T:66:ALA:HB1	27:T:78:PHE:CD1	2.45	0.51
27:T:99:SER:N	27:T:102:LYS:HD3	2.25	0.51
28:U:21:HIS:HD2	29:V:100:ARG:HH21	1.58	0.51
21:N:362:TRP:N	29:V:165:ILE:O	2.22	0.51
30:W:40:LYS:HE3	30:W:191:ILE:HG22	1.92	0.51
33:Z:324:GLU:HG3	33:Z:499:GLY:O	2.11	0.51
33:Z:259:PRO:HA	33:Z:612:GLY:HA2	1.92	0.51
1:1:78:ALA:HB1	2:2:134:TYR:CD1	2.44	0.51
1:1:76:PHE:CE2	1:1:78:ALA:HB3	2.44	0.51
2:2:136:ARG:HD2	2:2:139:LYS:HD2	1.91	0.51
3:3:185:ASP:HB3	3:3:188:SER:HB2	1.92	0.51
3:3:60:ILE:HG23	3:3:94:THR:HG23	1.92	0.51
4:4:131:GLY:HA2	4:4:207:MET:SD	2.50	0.51
6:6:22:THR:OG1	6:6:27:VAL:HA	2.11	0.51
7:7:82:ARG:HE	7:7:185:PRO:C	2.10	0.51
1:8:129:ILE:HA	1:8:143:SER:HA	1.91	0.51
2:9:216:VAL:HA	2:9:219:TYR:HD2	1.75	0.51
8:A:183:GLU:HG2	9:B:54:PRO:HG2	1.92	0.51
8:A:93:ALA:O	8:A:97:ALA:N	2.29	0.51
9:B:136:ILE:HB	9:B:148:TYR:HB2	1.93	0.51
10:C:109:GLU:HA	10:C:112:VAL:HB	1.93	0.51
10:C:195:LYS:HZ2	10:C:244:ILE:CG1	2.23	0.51
10:C:38:ILE:HA	10:C:162:ALA:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D:120:TYR:HE2	11:D:129:PHE:CZ	2.29	0.51
11:D:12:SER:N	11:D:16:HIS:O	2.40	0.51
12:E:95:ALA:HA	12:E:98:THR:HB	1.93	0.51
14:G:126:TYR:HD2	14:G:129:VAL:CG1	2.22	0.51
14:G:237:GLN:HE21	14:G:241:ASP:CG	2.14	0.51
15:H:289:ARG:HA	15:H:292:ARG:HD2	1.93	0.51
16:I:177:PRO:HD2	16:I:238:ASN:N	2.25	0.51
16:I:253:ILE:CD1	16:I:255:LYS:HE2	2.38	0.51
17:J:182:PRO:HB2	17:J:289:LYS:HZ1	1.76	0.51
18:K:351:LEU:O	18:K:355:THR:OG1	2.13	0.51
19:L:175:GLN:N	19:L:241:ALA:O	2.39	0.51
21:N:99:GLU:HA	21:N:102:VAL:HB	1.92	0.51
21:N:775:CYS:O	21:N:866:TYR:HB2	2.11	0.51
21:N:889:ARG:O	21:N:908:ARG:HB2	2.10	0.51
22:O:310:PHE:CE2	22:O:343:GLN:HA	2.46	0.51
22:O:36:LYS:O	22:O:37:LEU:HB2	2.09	0.51
22:O:11:LEU:HD13	22:O:44:SER:HB2	1.92	0.51
23:P:214:GLU:HG2	23:P:251:LYS:HB2	1.93	0.51
23:P:377:GLU:O	23:P:380:ILE:HB	2.11	0.51
24:Q:182:SER:OG	24:Q:198:LEU:N	2.43	0.51
26:S:245:GLY:HA2	27:T:128:TYR:CD1	2.46	0.51
26:S:297:ILE:HG23	26:S:310:LEU:HD11	1.92	0.51
26:S:356:ASP:HB2	26:S:359:LYS:HB3	1.92	0.51
26:S:430:GLY:C	26:S:432:ILE:N	2.61	0.51
27:T:205:ILE:O	27:T:209:LEU:HG	2.11	0.51
27:T:250:MET:H	27:T:256:LYS:NZ	2.08	0.51
22:O:383:LYS:NZ	27:T:262:LYS:NZ	2.58	0.51
29:V:261:LEU:O	29:V:265:GLU:N	2.39	0.51
28:U:273:LEU:HD22	29:V:295:VAL:HG22	1.92	0.51
1:1:105:ILE:HG13	1:1:142:TYR:HE2	1.74	0.51
1:1:60:PRO:HG3	1:1:222:GLU:OE2	2.10	0.51
4:4:59:ASN:HD21	4:4:218:ASN:ND2	2.08	0.51
6:6:79:ALA:O	6:6:83:PHE:N	2.30	0.51
1:8:223:ILE:HD12	1:8:236:TYR:CE1	2.45	0.51
1:8:49:ILE:HG22	1:8:54:ILE:HA	1.92	0.51
1:8:30:THR:CA	1:8:74:ASN:ND2	2.74	0.51
2:9:253:ASP:CG	2:9:256:LYS:HZ1	2.14	0.51
2:9:52:GLY:HA3	2:9:234:ASP:HA	1.93	0.51
9:B:5:TYR:OH	14:G:127:ASN:ND2	2.43	0.51
9:B:98:LYS:NZ	9:B:104:TYR:HH	2.09	0.51
10:C:185:LYS:N	10:C:188:ASP:OD2	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:213:ASP:N	12:E:216:ASN:OD1	2.33	0.51
12:E:71:ASP:OD2	12:E:73:HIS:CE1	2.64	0.51
15:H:273:ARG:HG3	15:H:307:PHE:CD2	2.45	0.51
16:I:259:ASP:O	16:I:262:ARG:N	2.44	0.51
16:I:265:ARG:O	16:I:269:LYS:HG3	2.09	0.51
17:J:247:MET:HB3	17:J:250:ILE:HG21	1.92	0.51
17:J:317:PRO:CB	17:J:318:PRO:CA	2.86	0.51
17:J:364:GLU:HB2	17:J:385:ALA:HB1	1.92	0.51
17:J:71:TYR:O	17:J:115:LEU:N	2.26	0.51
19:L:286:ILE:O	19:L:304:THR:HB	2.10	0.51
20:M:25:LEU:HA	20:M:28:GLN:OE1	2.10	0.51
20:M:271:LYS:NZ	20:M:315:PHE:CZ	2.78	0.51
19:L:95:ILE:HG23	20:M:36:LEU:CD1	2.39	0.51
21:N:242:PHE:CE2	21:N:273:LEU:HD22	2.45	0.51
21:N:424:LYS:HA	21:N:427:ILE:HB	1.93	0.51
22:O:16:MET:HG2	22:O:72:LYS:HE2	1.91	0.51
22:O:43:GLU:CA	22:O:47:LYS:HD3	2.39	0.51
22:O:62:TYR:CE1	22:O:82:LEU:HD13	2.46	0.51
23:P:314:VAL:HA	23:P:317:THR:HB	1.92	0.51
23:P:40:LEU:HD23	23:P:43:GLU:OE1	2.10	0.51
24:Q:369:ASP:HB2	24:Q:372:GLN:HB2	1.91	0.51
25:R:107:GLU:HA	25:R:110:ILE:HB	1.91	0.51
25:R:131:ALA:HA	25:R:134:TRP:HD1	1.74	0.51
25:R:288:SER:OG	25:R:311:THR:HG23	2.10	0.51
25:R:407:GLY:O	25:R:410:LEU:HB2	2.10	0.51
26:S:218:LEU:HD22	26:S:230:LYS:NZ	2.25	0.51
26:S:251:SER:O	26:S:254:ILE:HB	2.10	0.51
26:S:458:GLN:HA	26:S:461:PHE:HD2	1.75	0.51
26:S:462:ASP:HA	26:S:465:ILE:HD12	1.93	0.51
30:W:133:LYS:HE3	30:W:163:ASN:HB2	1.93	0.51
31:X:27:ILE:HA	31:X:59:ARG:HH12	1.74	0.51
33:Z:359:LYS:HA	33:Z:394:TYR:CD1	2.46	0.51
33:Z:608:TYR:HB3	33:Z:610:GLY:O	2.11	0.51
2:2:221:ASP:HB3	2:2:224:SER:CB	2.40	0.51
2:2:241:PHE:CE2	2:2:243:LYS:HG2	2.46	0.51
3:3:72:GLN:HB3	4:4:113:LYS:HZ1	1.74	0.51
4:4:146:GLY:O	4:4:148:THR:HG23	2.11	0.51
2:2:253:ASP:CB	4:4:173:GLN:HE22	2.24	0.51
5:5:15:MET:HA	5:5:136:PHE:HA	1.93	0.51
6:6:45:SER:OG	6:6:103:LEU:HB2	2.10	0.51
6:6:60:ILE:HA	6:6:63:ASN:OD1	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:79:LEU:HA	7:7:175:MET:HE1	1.93	0.51
1:8:220:GLY:H	1:8:238:LEU:HB2	1.76	0.51
2:9:117:GLU:CD	2:9:117:GLU:H	2.14	0.51
2:9:136:ARG:HD2	2:9:139:LYS:HD2	1.91	0.51
8:A:243:GLU:HG2	8:A:244:ARG:NH1	2.26	0.51
11:D:93:ALA:HA	11:D:104:VAL:HG13	1.92	0.51
14:G:88:LEU:O	14:G:91:ARG:HB3	2.10	0.51
2:2:109:TYR:CD2	14:G:93:ARG:HD3	93.43	0.51
15:H:340:LEU:HD21	15:H:351:VAL:HG11	1.92	0.51
15:H:435:ARG:HG3	15:H:439:THR:HG23	1.93	0.51
15:H:72:SER:CB	15:H:172:MET:HG2	2.41	0.51
17:J:114:CYS:SG	17:J:124:LYS:HE2	2.50	0.51
17:J:254:GLY:HA2	17:J:257:ARG:HB2	1.92	0.51
17:J:43:ARG:NH1	26:S:476:LEU:C	2.59	0.51
17:J:52:ASN:HA	17:J:55:VAL:HB	1.92	0.51
17:J:62:LEU:HA	17:J:65:LEU:HB2	1.93	0.51
17:J:74:GLU:HG3	17:J:110:SER:HA	1.93	0.51
18:K:217:THR:CA	18:K:381:ALA:HB2	2.41	0.51
18:K:235:ILE:HD12	18:K:261:ALA:HB2	1.91	0.51
18:K:385:ALA:HB1	19:L:340:PRO:HG2	1.93	0.51
19:L:294:GLY:O	19:L:298:ASP:HB2	2.10	0.51
20:M:377:GLN:O	20:M:381:ARG:N	2.39	0.51
20:M:368:MET:HB3	20:M:410:VAL:HG21	1.92	0.51
21:N:120:ASP:OD2	21:N:123:PHE:N	2.44	0.51
21:N:272:ILE:O	21:N:276:GLU:HG2	2.10	0.51
21:N:344:THR:N	21:N:374:ILE:O	2.37	0.51
21:N:731:VAL:HG12	21:N:735:MET:HG2	1.92	0.51
22:O:105:GLN:HG3	22:O:111:SER:HB3	1.92	0.51
22:O:302:VAL:HA	22:O:305:ILE:CG1	2.41	0.51
22:O:320:PRO:O	22:O:324:VAL:HG23	2.10	0.51
22:O:65:PHE:O	22:O:69:PHE:N	2.43	0.51
23:P:107:SER:C	23:P:108:LYS:HZ2	2.09	0.51
23:P:357:TYR:CZ	23:P:360:ILE:HD12	2.45	0.51
23:P:369:LEU:HD22	23:P:376:THR:HG23	1.93	0.51
24:Q:164:GLU:HG3	24:Q:169:ASP:HB3	1.93	0.51
24:Q:340:ASP:O	24:Q:376:LYS:NZ	2.39	0.51
25:R:117:ILE:O	25:R:121:GLU:N	2.38	0.51
25:R:276:LEU:C	25:R:280:ILE:HG23	2.32	0.51
24:Q:392:GLN:HB2	25:R:348:LEU:HA	1.92	0.51
25:R:390:THR:HG22	25:R:391:ASN:N	2.26	0.51
25:R:39:SER:OG	25:R:42:GLN:N	2.34	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:427:PHE:HB2	25:R:417:TYR:CE1	2.46	0.51
27:T:90:PHE:CE2	27:T:129:LEU:HD12	2.46	0.51
28:U:114:THR:HG21	28:U:118:PRO:HA	1.93	0.51
29:V:51:GLY:HA3	29:V:69:PHE:O	2.10	0.51
30:W:35:PHE:CG	30:W:182:TYR:HB2	2.45	0.51
31:X:14:VAL:C	31:X:29:VAL:HG21	2.31	0.51
33:Z:884:THR:HG22	33:Z:903:MET:HB2	1.92	0.51
1:1:57:ARG:NH1	1:1:240:ARG:O	2.27	0.51
2:2:117:GLU:CD	2:2:117:GLU:H	2.14	0.51
2:2:261:TYR:OH	3:3:72:GLN:O	2.28	0.51
8:A:18:ILE:HD12	9:B:20:GLN:NE2	2.25	0.51
8:A:241:ILE:O	8:A:245:LEU:N	2.38	0.51
9:B:128:ARG:HH12	9:B:130:PHE:HA	1.75	0.51
9:B:205:ASN:H	9:B:208:THR:HG1	1.58	0.51
10:C:24:TYR:O	10:C:28:SER:N	2.37	0.51
14:G:71:ASP:OD1	14:G:72:ARG:N	2.43	0.51
15:H:98:GLN:O	15:H:177:ASP:HB3	2.11	0.51
15:H:217:GLN:O	15:H:221:LEU:HG	2.11	0.51
17:J:161:LYS:HG3	17:J:165:GLU:HB2	1.92	0.51
17:J:183:LYS:O	17:J:289:LYS:HA	2.10	0.51
17:J:368:TYR:HE2	17:J:385:ALA:N	2.08	0.51
18:K:211:LEU:HB3	18:K:219:LYS:HE3	1.93	0.51
18:K:281:ARG:CZ	18:K:290:ARG:HE	2.24	0.51
19:L:357:ARG:HD2	19:L:383:SER:HB3	1.91	0.51
20:M:74:GLN:HE22	20:M:150:LYS:HE3	1.74	0.51
20:M:274:ALA:HA	20:M:275:PRO:C	2.29	0.51
21:N:258:ALA:HA	21:N:261:LEU:HB3	1.92	0.51
21:N:315:ASN:HA	21:N:318:LYS:HB2	1.93	0.51
21:N:33:ASP:O	21:N:36:TRP:CD1	2.64	0.51
22:O:311:GLU:HG3	22:O:321:LYS:HE3	1.93	0.51
22:O:19:ASP:HB3	22:O:72:LYS:HZ2	1.72	0.51
22:O:92:PHE:CE2	22:O:96:LEU:HD22	2.45	0.51
23:P:112:LEU:HD22	23:P:115:ARG:CZ	2.41	0.51
23:P:163:LEU:HA	23:P:167:THR:HG23	1.93	0.51
23:P:319:GLU:HB2	23:P:324:GLU:CB	2.39	0.51
23:P:354:SER:HA	23:P:402:PHE:CE1	2.46	0.51
24:Q:306:TYR:HA	24:Q:314:PHE:HZ	1.74	0.51
24:Q:298:ALA:HB2	24:Q:321:TYR:CB	2.41	0.51
25:R:168:ILE:O	25:R:171:MET:HB2	2.10	0.51
25:R:214:TYR:CE2	25:R:227:ALA:HB2	2.46	0.51
26:S:230:LYS:HD3	26:S:257:LEU:HD11	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:319:CYS:O	26:S:322:LEU:HB2	2.10	0.51
26:S:456:ASP:O	26:S:459:GLN:HB2	2.10	0.51
27:T:57:ILE:HG13	27:T:60:ARG:HD2	1.92	0.51
28:U:173:HIS:CE1	29:V:151:VAL:HG23	2.45	0.51
31:X:10:PHE:CE1	31:X:124:LYS:HB3	2.46	0.51
31:X:83:SER:OG	31:X:84:GLY:N	2.42	0.51
33:Z:161:ILE:HB	33:Z:203:LEU:CD1	2.40	0.51
33:Z:322:GLU:CD	33:Z:876:VAL:HG22	2.31	0.51
33:Z:489:ALA:O	33:Z:493:LEU:N	2.26	0.51
33:Z:764:LEU:HD23	33:Z:767:TYR:HE2	1.75	0.51
1:1:196:VAL:O	1:1:199:VAL:HB	2.10	0.51
2:2:216:VAL:HA	2:2:219:TYR:HD2	1.75	0.51
4:4:75:ALA:HB3	4:4:126:TYR:HB2	1.93	0.51
6:6:30:ASP:HB2	6:6:177:LYS:HB3	1.92	0.51
1:8:80:GLY:HA2	1:8:83:LEU:HB3	1.93	0.51
8:A:227:VAL:N	8:A:234:PHE:O	2.37	0.51
8:A:131:ARG:NH1	9:B:127:VAL:CG1	2.73	0.51
9:B:186:GLU:HA	9:B:189:ILE:HD12	1.92	0.51
9:B:194:LEU:O	9:B:198:GLU:HG2	2.12	0.51
9:B:243:ILE:O	9:B:247:LEU:HG	2.11	0.51
10:C:184:MET:CE	10:C:192:LEU:HD13	2.41	0.51
11:D:188:VAL:HG13	11:D:214:VAL:HG11	1.93	0.51
2:2:120:LEU:HD23	13:F:101:ARG:HH12	90.07	0.51
15:H:311:ILE:HG12	15:H:355:THR:HB	1.92	0.51
15:H:382:LEU:O	15:H:408:SER:OG	2.17	0.51
15:H:396:MET:HE2	15:H:398:VAL:HG12	1.93	0.51
15:H:68:GLY:O	15:H:72:SER:N	2.42	0.51
15:H:172:MET:HG3	16:I:130:VAL:CG1	2.40	0.51
16:I:172:LYS:NZ	16:I:234:LYS:HZ2	2.08	0.51
16:I:403:ALA:HB2	16:I:411:VAL:HG13	1.92	0.51
16:I:423:VAL:CA	17:J:306:ARG:HH11	2.24	0.51
17:J:114:CYS:SG	18:K:119:VAL:HG21	2.51	0.51
17:J:156:GLN:O	17:J:160:ILE:HG13	2.11	0.51
18:K:318:THR:HG23	18:K:320:ARG:C	2.31	0.51
19:L:374:PHE:CZ	19:L:415:LEU:HD22	2.46	0.51
20:M:21:GLU:HG2	30:W:73:LEU:CB	2.36	0.51
20:M:2:ALA:O	20:M:5:GLU:HB2	2.10	0.51
20:M:401:ILE:HD13	20:M:417:GLU:HB3	1.93	0.51
21:N:417:ARG:O	21:N:420:THR:HB	2.10	0.51
21:N:439:VAL:HA	21:N:442:LEU:HB3	1.92	0.51
21:N:614:ASN:OD1	21:N:616:HIS:N	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:676:ALA:O	21:N:680:LYS:N	2.21	0.51
21:N:777:ALA:H	21:N:866:TYR:HD1	1.59	0.51
21:N:301:THR:OG1	21:N:919:THR:OG1	2.18	0.51
21:N:920:VAL:O	21:N:923:MET:HB2	2.10	0.51
22:O:167:ILE:O	22:O:170:SER:HB3	2.10	0.51
23:P:440:HIS:CD2	28:U:213:LYS:HE2	2.46	0.51
25:R:207:ARG:C	25:R:211:LYS:NZ	2.64	0.51
25:R:292:LEU:HD11	25:R:310:GLU:OE2	2.11	0.51
25:R:84:LYS:O	25:R:87:SER:HB3	2.10	0.51
25:R:79:LEU:N	25:R:93:LYS:HG3	2.26	0.51
26:S:288:THR:HA	26:S:291:GLU:OE1	2.11	0.51
26:S:424:SER:O	26:S:428:ARG:N	2.36	0.51
18:K:76:LYS:NZ	27:T:272:ASN:HD21	2.08	0.51
27:T:52:LEU:HA	27:T:56:MET:HG3	1.93	0.51
28:U:137:TYR:HA	28:U:155:LEU:O	2.11	0.51
23:P:440:HIS:HD2	28:U:213:LYS:CE	2.24	0.51
29:V:95:LEU:HA	29:V:98:THR:HB	1.93	0.51
31:X:24:CYS:SG	31:X:86:ILE:HD11	2.51	0.51
33:Z:348:LEU:HD23	33:Z:353:VAL:HB	1.92	0.51
33:Z:800:SER:O	33:Z:808:SER:N	2.44	0.51
3:3:78:VAL:HG11	3:3:101:PHE:CE2	2.46	0.50
4:4:129:VAL:O	4:4:140:PHE:N	2.40	0.50
4:4:215:TYR:OH	4:4:217:ARG:HA	2.11	0.50
5:5:160:PRO:O	5:5:163:LEU:HB3	2.10	0.50
5:5:73:LEU:HG	10:C:96:GLN:HG3	1.92	0.50
6:6:170:LYS:HE3	6:6:171:ARG:NE	2.25	0.50
7:7:123:GLY:H	7:7:171:SER:C	2.12	0.50
2:9:132:VAL:O	2:9:135:GLN:HB2	2.10	0.50
8:A:117:LEU:O	8:A:120:ARG:HB3	2.11	0.50
9:B:180:ASN:H	9:B:183:LEU:HG	1.76	0.50
12:E:123:PHE:CE1	12:E:137:PRO:HG3	2.47	0.50
12:E:123:PHE:CA	12:E:134:MET:HB3	2.41	0.50
13:F:50:LYS:NZ	13:F:226:ASP:HB3	2.25	0.50
14:G:204:HIS:O	14:G:208:LYS:N	2.45	0.50
14:G:8:TYR:HB3	14:G:16:SER:HB3	1.93	0.50
15:H:65:GLU:O	15:H:69:VAL:N	2.30	0.50
16:I:280:PHE:HA	16:I:325:ILE:HB	1.92	0.50
17:J:159:GLU:HB3	17:J:314:ILE:HD13	1.93	0.50
17:J:193:THR:HA	17:J:355:GLY:N	2.26	0.50
17:J:320:SER:O	17:J:322:ALA:N	2.44	0.50
17:J:34:ILE:HA	17:J:37:LYS:CD	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:370:LYS:NZ	19:L:374:PHE:CZ	2.79	0.50
20:M:121:THR:HG23	20:M:125:GLN:O	2.11	0.50
20:M:193:LEU:O	20:M:197:ILE:N	2.44	0.50
20:M:220:MET:HG2	20:M:349:PHE:HE1	1.75	0.50
21:N:186:ILE:O	21:N:190:LEU:N	2.20	0.50
18:K:56:LYS:HZ3	21:N:196:THR:HG22	1.77	0.50
21:N:659:ALA:HA	21:N:662:MET:CE	2.42	0.50
21:N:366:THR:HG23	21:N:747:HIS:HE1	1.76	0.50
21:N:94:LYS:HG3	21:N:99:GLU:CD	2.31	0.50
22:O:194:LEU:O	22:O:198:THR:N	2.43	0.50
22:O:58:ARG:HA	22:O:61:LEU:H	1.76	0.50
23:P:233:GLU:O	23:P:237:VAL:N	2.33	0.50
23:P:38:GLN:NE2	23:P:61:LYS:HE2	2.26	0.50
23:P:58:VAL:O	23:P:62:ILE:HG13	2.11	0.50
24:Q:178:HIS:HB2	24:Q:201:ALA:HB2	1.92	0.50
24:Q:64:LEU:HA	24:Q:67:THR:HB	1.93	0.50
24:Q:72:ASP:HA	24:Q:75:ARG:HG3	1.94	0.50
25:R:292:LEU:HB3	25:R:307:TYR:CD2	2.46	0.50
25:R:54:ILE:HG21	25:R:63:TYR:CE2	2.46	0.50
26:S:217:PHE:HA	26:S:220:ILE:HB	1.93	0.50
26:S:283:GLN:OE1	27:T:120:THR:HG21	2.09	0.50
26:S:338:MET:CG	26:S:343:LEU:H	2.23	0.50
26:S:344:PRO:HG3	26:S:367:TYR:CD1	2.46	0.50
26:S:380:CYS:O	26:S:384:ARG:HG3	2.11	0.50
26:S:380:CYS:C	26:S:382:ARG:H	2.13	0.50
27:T:175:ASP:HA	27:T:178:THR:OG1	2.08	0.50
27:T:202:LEU:H	27:T:232:LYS:HA	1.75	0.50
27:T:222:LEU:C	27:T:225:ASN:H	2.13	0.50
27:T:260:ILE:HG22	27:T:264:MET:CE	2.39	0.50
27:T:75:PHE:O	27:T:79:GLU:N	2.23	0.50
32:Y:83:ARG:O	32:Y:87:GLU:HG3	2.10	0.50
33:Z:469:PRO:HB3	33:Z:472:LEU:HD12	1.92	0.50
33:Z:475:GLN:NE2	33:Z:504:GLU:HB2	2.25	0.50
33:Z:913:ILE:HG21	33:Z:966:GLU:OE1	2.11	0.50
1:1:195:SER:O	1:1:199:VAL:HG23	2.12	0.50
1:1:225:ILE:HG21	1:1:232:ARG:NH2	2.27	0.50
1:1:46:THR:HG22	1:1:59:GLU:H	1.77	0.50
2:2:52:GLY:HA3	2:2:234:ASP:HA	1.93	0.50
2:2:89:ASP:OD1	2:2:91:SER:N	2.44	0.50
4:4:133:ASP:OD1	4:4:136:GLY:N	2.42	0.50
4:4:77:THR:O	4:4:81:THR:HG23	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:105:VAL:O	5:5:126:LEU:HB3	2.10	0.50
7:7:183:GLU:HB3	7:7:186:THR:OG1	2.11	0.50
7:7:84:GLN:HA	7:7:221:TRP:NE1	2.26	0.50
1:8:105:ILE:HG13	1:8:142:TYR:HE2	1.74	0.50
1:8:195:SER:O	1:8:199:VAL:HG23	2.12	0.50
1:8:196:VAL:O	1:8:199:VAL:HB	2.10	0.50
2:9:134:TYR:O	2:9:137:ARG:HB3	2.11	0.50
2:9:59:ASN:HD21	2:9:244:ASN:HA	1.77	0.50
2:9:89:ASP:OD1	2:9:91:SER:N	2.44	0.50
8:A:126:GLN:OE1	9:B:83:ARG:NH2	2.70	0.50
8:A:155:TYR:CD1	8:A:165:GLY:HA2	2.47	0.50
8:A:178:ILE:HG12	8:A:213:ALA:HB3	1.93	0.50
9:B:80:PRO:O	9:B:83:ARG:N	2.44	0.50
10:C:218:LYS:CA	10:C:225:VAL:HA	2.39	0.50
11:D:37:LYS:HG2	11:D:160:SER:O	2.12	0.50
12:E:73:HIS:CD2	12:E:106:ASP:HB3	2.46	0.50
13:F:95:SER:OG	13:F:101:ARG:O	2.26	0.50
13:F:81:ALA:O	13:F:85:SER:N	2.26	0.50
15:H:104:LYS:H	15:H:144:LYS:CE	2.25	0.50
19:L:138:SER:OG	19:L:139:LYS:N	2.45	0.50
19:L:152:THR:O	19:L:154:THR:HG23	2.12	0.50
20:M:162:GLU:C	20:M:164:ASP:N	2.65	0.50
21:N:133:LEU:O	21:N:137:PHE:N	2.27	0.50
21:N:469:VAL:HA	21:N:472:ASN:ND2	2.26	0.50
21:N:599:TYR:HD1	21:N:632:LYS:NZ	2.05	0.50
22:O:15:ARG:HB3	30:W:18:ASN:O	2.12	0.50
22:O:383:LYS:HB3	22:O:387:ARG:HB2	1.92	0.50
23:P:119:ILE:HG13	23:P:143:LEU:HD22	1.94	0.50
23:P:350:LEU:HD23	23:P:353:ILE:HD12	1.93	0.50
24:Q:71:LYS:HG3	24:Q:104:PHE:CZ	2.46	0.50
24:Q:136:SER:HA	24:Q:139:ILE:HD12	1.93	0.50
24:Q:263:LYS:HA	24:Q:266:LEU:HD12	1.92	0.50
25:R:164:THR:HA	25:R:167:LYS:HB3	1.94	0.50
17:J:376:HIS:CE1	25:R:204:TRP:HB3	2.47	0.50
25:R:58:GLU:HG3	25:R:144:ILE:HG12	1.93	0.50
25:R:67:CYS:SG	25:R:94:PHE:CE1	3.05	0.50
26:S:267:SER:O	26:S:271:ARG:HG3	2.11	0.50
26:S:381:VAL:HA	26:S:384:ARG:HE	1.77	0.50
26:S:451:ILE:HG13	26:S:453:ASP:H	1.76	0.50
26:S:462:ASP:HA	26:S:465:ILE:HB	1.93	0.50
27:T:126:LEU:HD12	27:T:129:LEU:HD23	1.91	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:145:PRO:HA	27:T:148:LEU:HD12	1.92	0.50
28:U:119:LEU:HD12	28:U:137:TYR:O	2.11	0.50
28:U:93:TYR:CB	28:U:121:LEU:HB3	2.41	0.50
28:U:273:LEU:O	28:U:276:ILE:HB	2.12	0.50
29:V:60:ASP:O	29:V:62:THR:N	2.44	0.50
33:Z:435:GLN:O	33:Z:439:TYR:HD1	1.94	0.50
1:1:170:ASP:O	1:1:176:LYS:N	2.31	0.50
1:1:221:LEU:HB3	1:1:236:TYR:HB2	1.93	0.50
1:1:220:GLY:H	1:1:238:LEU:HB2	1.76	0.50
1:1:73:ALA:HB1	1:1:126:VAL:HG21	1.94	0.50
2:2:59:ASN:HD21	2:2:244:ASN:HA	1.77	0.50
3:3:20:THR:CA	3:3:188:SER:OG	2.54	0.50
4:4:123:ILE:O	4:4:144:ALA:HB1	2.11	0.50
4:4:170:HIS:HB2	4:4:183:LEU:CD1	2.40	0.50
4:4:177:LYS:NZ	4:4:211:LYS:HZ2	2.09	0.50
4:4:230:LYS:HB3	4:4:232:TYR:CZ	2.47	0.50
4:4:50:THR:HA	4:4:56:ALA:N	2.19	0.50
5:5:29:LEU:O	5:5:36:VAL:N	2.31	0.50
5:5:28:ARG:HA	5:5:38:ASN:HA	1.92	0.50
7:7:179:TYR:HD2	7:7:185:PRO:HG3	1.77	0.50
2:9:48:LYS:HB3	2:9:53:VAL:HG12	1.93	0.50
8:A:130:GLN:O	9:B:127:VAL:HA	2.10	0.50
8:A:167:LYS:N	9:B:57:MET:HG3	2.27	0.50
9:B:187:ASP:O	9:B:191:ILE:N	2.23	0.50
9:B:29:LYS:NZ	9:B:168:SER:OG	2.43	0.50
10:C:217:ARG:O	10:C:226:TYR:N	2.36	0.50
10:C:46:LEU:HB2	10:C:214:ALA:HB3	1.93	0.50
12:E:193:LEU:O	12:E:197:GLU:HG3	2.12	0.50
12:E:203:ILE:O	12:E:207:VAL:HG22	2.12	0.50
13:F:114:ASP:O	13:F:118:LYS:HG3	2.11	0.50
13:F:147:PHE:O	13:F:148:GLN:NE2	2.45	0.50
14:G:170:GLN:NE2	14:G:173:LYS:HZ1	2.09	0.50
15:H:282:LYS:HG3	16:I:257:LEU:HD13	1.92	0.50
16:I:106:ILE:HG13	17:J:95:ILE:H	1.73	0.50
16:I:293:ASP:OD1	16:I:294:SER:N	2.44	0.50
17:J:200:ARG:NH2	17:J:212:ARG:HD3	2.27	0.50
17:J:165:GLU:HA	17:J:206:THR:HG22	1.92	0.50
17:J:32:LEU:O	17:J:36:SER:N	2.38	0.50
17:J:46:ALA:O	17:J:49:ASN:HB2	2.12	0.50
18:K:270:PHE:HA	18:K:315:ILE:O	2.11	0.50
21:N:112:GLU:N	21:N:115:LYS:NZ	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:234:ASP:HB2	21:N:237:LEU:HD12	1.93	0.50
21:N:381:GLU:HA	21:N:384:LYS:NZ	2.26	0.50
21:N:69:TYR:CD1	21:N:72:LEU:HD12	2.45	0.50
21:N:921:ARG:HH11	21:N:922:GLN:NE2	2.10	0.50
22:O:176:SER:OG	22:O:177:GLN:N	2.45	0.50
22:O:369:ARG:CZ	22:O:373:TRP:HE1	2.24	0.50
23:P:107:SER:C	23:P:111:ASP:HB2	2.32	0.50
23:P:133:GLU:OE1	23:P:136:ARG:NE	2.43	0.50
24:Q:169:ASP:OD1	24:Q:170:ASP:N	2.42	0.50
24:Q:288:LYS:HG2	24:Q:291:TYR:N	2.26	0.50
24:Q:420:ASN:OD1	24:Q:421:LYS:N	2.44	0.50
25:R:211:LYS:HG2	25:R:230:LEU:HD23	1.93	0.50
25:R:371:PHE:O	25:R:375:LYS:N	2.44	0.50
25:R:369:GLY:HA2	26:S:395:ILE:HB	1.85	0.50
27:T:159:LYS:O	27:T:163:LEU:HG	2.11	0.50
28:U:67:PHE:CD1	30:W:97:THR:HA	2.47	0.50
31:X:38:ASN:HB2	31:X:45:PHE:HB2	1.92	0.50
33:Z:345:GLU:HA	33:Z:348:LEU:HB2	1.93	0.50
33:Z:445:PRO:HA	33:Z:448:LYS:HD2	1.92	0.50
33:Z:523:ALA:HA	33:Z:526:ALA:HB3	1.92	0.50
33:Z:922:PRO:HB3	33:Z:959:HIS:ND1	2.26	0.50
1:1:50:THR:O	1:1:53:SER:N	2.43	0.50
2:2:126:PHE:HZ	2:2:169:THR:HB	1.77	0.50
6:6:30:ASP:N	6:6:30:ASP:OD1	2.44	0.50
1:8:73:ALA:HB1	1:8:126:VAL:HG21	1.94	0.50
8:A:227:VAL:HG12	8:A:229:THR:HG23	1.93	0.50
10:C:16:GLU:O	11:D:29:ARG:CZ	2.85	0.50
10:C:42:ASP:CG	10:C:186:VAL:H	2.15	0.50
12:E:128:SER:H	13:F:125:GLY:CA	2.15	0.50
14:G:141:VAL:HG11	14:G:221:LEU:HD13	1.92	0.50
14:G:34:GLY:HA3	14:G:79:SER:HB3	1.93	0.50
15:H:318:ARG:HD2	15:H:320:ASP:HB2	1.91	0.50
16:I:331:ILE:HG13	16:I:332:GLU:HG3	1.92	0.50
17:J:115:LEU:HA	17:J:122:LEU:HA	1.93	0.50
18:K:100:LEU:HB2	18:K:109:ILE:HG23	1.94	0.50
19:L:365:THR:HG21	19:L:394:CYS:HB2	1.93	0.50
19:L:77:ARG:HA	20:M:19:ASP:OD2	2.12	0.50
21:N:293:LEU:HB2	21:N:379:LEU:HD12	1.93	0.50
21:N:573:HIS:CE1	21:N:577:SER:HB3	2.45	0.50
21:N:603:PRO:HA	21:N:606:VAL:HG22	1.93	0.50
21:N:704:GLY:O	21:N:708:ALA:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:324:VAL:HA	22:O:328:VAL:HB	1.93	0.50
22:O:358:ILE:HG12	22:O:359:SER:N	2.25	0.50
22:O:92:PHE:HD2	22:O:93:ASP:H	1.58	0.50
23:P:131:PHE:CE1	23:P:168:TYR:HA	2.46	0.50
23:P:163:LEU:HA	23:P:167:THR:CG2	2.41	0.50
23:P:228:SER:HA	23:P:231:LYS:HD2	1.93	0.50
24:Q:195:LYS:HA	24:Q:225:LEU:HD11	1.93	0.50
24:Q:355:GLU:OE1	24:Q:400:TYR:N	2.41	0.50
24:Q:419:LEU:HD23	29:V:265:GLU:OE1	2.11	0.50
24:Q:52:ASN:O	24:Q:55:GLU:HB3	2.12	0.50
25:R:319:CYS:CB	25:R:322:LEU:HD12	2.41	0.50
26:S:155:LEU:O	26:S:159:ASN:N	2.34	0.50
26:S:194:LEU:HA	26:S:195:ALA:HB3	1.94	0.50
26:S:214:MET:O	26:S:218:LEU:N	2.44	0.50
26:S:436:ILE:HG22	26:S:437:ASN:N	2.27	0.50
27:T:265:ASP:HA	27:T:268:ILE:HB	1.94	0.50
28:U:176:ARG:HB2	28:U:176:ARG:CZ	2.41	0.50
29:V:257:GLU:CD	29:V:287:THR:HG21	2.31	0.50
29:V:35:LEU:HD23	29:V:38:LEU:HD12	1.93	0.50
33:Z:130:GLY:HA2	33:Z:156:HIS:CD2	2.46	0.50
33:Z:153:TYR:CD1	33:Z:157:LEU:HD12	2.46	0.50
33:Z:297:VAL:HG12	33:Z:310:LEU:HD22	1.94	0.50
33:Z:316:ALA:O	33:Z:868:ASN:ND2	2.35	0.50
33:Z:510:LEU:O	33:Z:514:ALA:N	2.29	0.50
33:Z:762:GLY:HA2	33:Z:765:MET:HB3	1.93	0.50
33:Z:966:GLU:O	33:Z:978:GLU:HA	2.12	0.50
1:1:129:ILE:HA	1:1:143:SER:HA	1.91	0.50
1:1:32:LEU:O	1:1:43:ALA:N	2.38	0.50
3:3:157:CYS:O	3:3:161:PHE:N	2.40	0.50
4:4:30:THR:O	4:4:158:SER:OG	2.30	0.50
5:5:12:VAL:O	5:5:139:SER:N	2.43	0.50
5:5:133:ALA:H	5:5:137:ILE:HD11	1.77	0.50
5:5:15:MET:HG2	5:5:136:PHE:HB3	1.93	0.50
5:5:189:ILE:O	5:5:196:VAL:N	2.38	0.50
5:5:69:TYR:HE1	10:C:97:ASN:N	2.10	0.50
5:5:78:GLU:HB3	5:5:80:ARG:HG2	1.94	0.50
6:6:185:ASP:CG	6:6:190:ARG:NH1	2.58	0.50
7:7:82:ARG:HG2	7:7:221:TRP:CZ3	2.47	0.50
1:8:47:ARG:HE	1:8:219:ASP:CG	2.15	0.50
2:9:160:LEU:HD23	2:9:172:SER:O	2.12	0.50
2:9:241:PHE:CE2	2:9:243:LYS:HG2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:135:ARG:HE	14:G:125:LEU:HA	1.76	0.50
9:B:119:GLN:O	9:B:122:THR:HB	2.11	0.50
9:B:160:LYS:HB3	9:B:179:TRP:CE2	2.46	0.50
10:C:194:LEU:HB3	10:C:244:ILE:HD12	1.93	0.50
11:D:201:GLU:O	11:D:204:GLN:NE2	2.44	0.50
11:D:6:ARG:O	11:D:125:GLY:N	2.41	0.50
12:E:121:LEU:HA	12:E:123:PHE:CE1	2.47	0.50
11:D:160:SER:N	12:E:60:GLU:OE2	3.29	0.50
13:F:34:VAL:O	13:F:49:LEU:HB3	2.12	0.50
14:G:238:GLU:O	14:G:242:PHE:N	2.36	0.50
14:G:26:TYR:HA	14:G:29:LYS:CG	2.42	0.50
15:H:97:LEU:CD1	15:H:100:ALA:HB2	2.42	0.50
15:H:242:PRO:CG	15:H:350:LYS:NZ	2.75	0.50
15:H:426:ALA:HB1	15:H:429:PHE:HB2	1.93	0.50
17:J:342:ASN:HB3	17:J:379:GLN:NE2	2.27	0.50
19:L:259:SER:HB3	19:L:303:ARG:HE	1.75	0.50
19:L:92:GLU:HA	19:L:95:ILE:HD12	1.93	0.50
20:M:220:MET:HG2	20:M:349:PHE:CE1	2.47	0.50
21:N:211:PHE:HA	21:N:225:LEU:CD2	2.42	0.50
21:N:243:LYS:O	21:N:247:GLU:N	2.30	0.50
21:N:727:THR:O	21:N:731:VAL:HG23	2.11	0.50
22:O:233:LEU:O	22:O:236:HIS:N	2.45	0.50
22:O:302:VAL:HA	22:O:305:ILE:HG13	1.93	0.50
22:O:378:GLU:O	22:O:382:LYS:N	2.44	0.50
22:O:383:LYS:H	27:T:262:LYS:NZ	2.09	0.50
23:P:103:TYR:O	23:P:106:SER:CB	2.59	0.50
23:P:108:LYS:HA	23:P:112:LEU:HD23	1.92	0.50
23:P:140:THR:O	23:P:144:VAL:HG23	2.11	0.50
23:P:193:TYR:N	23:P:193:TYR:CD1	2.79	0.50
23:P:207:THR:HG21	23:P:217:LYS:N	2.26	0.50
23:P:241:LEU:CB	23:P:264:ILE:HG12	2.40	0.50
22:O:341:ILE:N	23:P:356:TYR:O	2.45	0.50
23:P:308:LEU:O	23:P:370:ASP:OD2	2.30	0.50
24:Q:130:ARG:CG	24:Q:132:PHE:H	2.24	0.50
24:Q:219:ASP:O	24:Q:222:SER:HB2	2.12	0.50
24:Q:309:ARG:NH2	24:Q:345:SER:HB2	2.26	0.50
24:Q:387:TYR:CD2	24:Q:402:THR:HA	2.47	0.50
25:R:206:ARG:HD2	25:R:209:ARG:HD2	1.93	0.50
25:R:252:TYR:CZ	25:R:319:CYS:HB3	2.47	0.50
26:S:283:GLN:CD	27:T:120:THR:HG21	2.31	0.50
17:J:47:GLN:NE2	26:S:479:MET:HG2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:51:TYR:CA	27:T:55:LEU:HB3	2.39	0.50
27:T:50:ILE:HG13	27:T:51:TYR:N	2.22	0.50
28:U:32:ARG:HH22	28:U:100:ARG:HB2	1.75	0.50
28:U:65:VAL:HG23	30:W:89:THR:HG23	1.93	0.50
22:O:15:ARG:HD2	30:W:144:PHE:HE2	1.76	0.50
30:W:161:VAL:HG12	30:W:168:THR:HB	1.93	0.50
33:Z:170:GLU:HG3	33:Z:228:GLU:HB3	1.93	0.50
33:Z:269:TYR:O	33:Z:273:LEU:N	2.42	0.50
33:Z:304:PRO:O	33:Z:308:LYS:HG3	2.11	0.50
33:Z:353:VAL:O	33:Z:357:ILE:HG13	2.12	0.50
33:Z:361:HIS:NE2	33:Z:961:GLU:HG2	2.27	0.50
33:Z:318:LYS:HB2	33:Z:874:ASN:CG	2.32	0.50
1:1:37:GLU:HB2	1:1:193:TYR:CE1	2.46	0.50
2:2:212:ASN:OD1	2:2:215:ARG:NH2	2.45	0.50
3:3:39:THR:OG1	3:3:47:ASN:O	2.26	0.50
4:4:88:ILE:HG13	4:4:112:LEU:CD2	2.41	0.50
5:5:84:PRO:HB2	5:5:120:PHE:CD2	2.46	0.50
7:7:172:MET:O	7:7:192:SER:N	2.37	0.50
7:7:212:TYR:O	7:7:216:ASP:N	2.44	0.50
1:8:46:THR:HG22	1:8:59:GLU:H	1.77	0.50
2:9:137:ARG:NH2	2:9:138:SER:OG	2.45	0.50
2:9:161:ARG:HG3	2:9:171:SER:HB2	1.94	0.50
9:B:186:GLU:CD	9:B:246:ARG:HE	2.13	0.50
15:H:316:GLY:HA3	15:H:360:THR:O	2.11	0.50
15:H:386:ALA:O	15:H:389:PHE:HB2	2.12	0.50
15:H:385:ARG:HB2	15:H:408:SER:OG	2.11	0.50
16:I:394:ALA:HB1	16:I:423:VAL:HG12	1.94	0.50
17:J:279:LEU:HD22	17:J:285:SER:HB2	1.93	0.50
19:L:132:ARG:NH1	19:L:156:MET:SD	2.84	0.50
20:M:256:ILE:HA	20:M:300:GLU:OE2	2.12	0.50
19:L:67:HIS:CE1	20:M:4:LEU:HB2	2.46	0.50
21:N:352:ASN:CB	21:N:355:TRP:HB2	2.42	0.50
21:N:537:THR:HA	21:N:540:LEU:HD12	1.93	0.50
21:N:60:MET:HE2	21:N:88:ARG:NE	2.27	0.50
21:N:769:PRO:HG3	21:N:890:PHE:CD2	2.47	0.50
22:O:132:GLU:HA	22:O:135:ARG:NH2	2.27	0.50
22:O:168:THR:HA	22:O:171:PHE:HB3	1.93	0.50
23:P:116:ILE:HA	23:P:119:ILE:CG1	2.41	0.50
23:P:435:LYS:O	23:P:439:MET:HG3	2.11	0.50
23:P:75:LEU:HA	23:P:78:GLN:OE1	2.12	0.50
23:P:56:LYS:HZ3	23:P:91:LEU:HB2	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:234:THR:OG1	24:Q:235:ALA:N	2.45	0.50
25:R:113:LEU:HD22	25:R:137:LEU:HA	1.94	0.50
25:R:272:ASP:HA	25:R:276:LEU:HD12	1.92	0.50
25:R:383:ARG:H	26:S:402:ILE:HD12	1.76	0.50
26:S:158:PHE:O	26:S:162:VAL:HG23	2.12	0.50
26:S:234:ILE:O	26:S:238:LEU:HG	2.11	0.50
27:T:98:GLU:HA	27:T:102:LYS:HZ3	1.74	0.50
27:T:80:ASN:HA	27:T:83:ASN:ND2	2.26	0.50
27:T:82:PHE:CZ	27:T:106:ILE:HB	2.46	0.50
19:L:99:GLN:HG3	28:U:85:ALA:H	1.77	0.50
30:W:125:LEU:HA	30:W:128:LEU:HD12	1.94	0.50
30:W:57:ALA:C	30:W:86:HIS:HE1	2.15	0.50
31:X:66:LEU:HD21	31:X:97:TYR:CD1	2.47	0.50
33:Z:333:GLY:HA3	33:Z:340:LEU:O	2.11	0.50
33:Z:453:LEU:HG	33:Z:457:ILE:HD11	1.93	0.50
33:Z:475:GLN:HG3	33:Z:493:LEU:HD21	1.92	0.50
33:Z:887:GLY:HA3	33:Z:903:MET:HE1	1.92	0.50
1:1:179:TYR:O	4:4:238:THR:HA	2.12	0.50
1:1:47:ARG:HD2	1:1:216:GLN:O	2.10	0.50
1:1:89:ASN:O	1:1:92:LYS:HB3	2.11	0.50
2:2:186:PRO:O	2:2:190:LYS:N	2.29	0.50
3:3:130:TYR:CE1	3:3:140:LYS:HB2	2.47	0.50
3:3:81:HIS:O	3:3:85:TYR:N	2.23	0.50
6:6:73:TYR:HB2	10:C:143:ARG:NH2	2.27	0.50
6:6:41:HIS:HB2	6:6:74:GLU:OE2	2.12	0.50
7:7:130:TRP:CE3	7:7:161:LEU:HD21	2.47	0.50
7:7:209:THR:HA	7:7:212:TYR:HD2	1.76	0.50
1:8:221:LEU:HB3	1:8:236:TYR:HB2	1.93	0.50
2:9:111:ASN:OD1	2:9:114:ALA:N	2.45	0.50
2:9:221:ASP:HB3	2:9:224:SER:CB	2.40	0.50
2:9:95:HIS:CD2	2:9:99:LEU:HD11	2.46	0.50
8:A:244:ARG:O	8:A:248:ILE:CG2	2.58	0.50
10:C:12:ILE:HA	11:D:19:GLN:NE2	2.26	0.50
11:D:66:LYS:HA	11:D:72:VAL:HA	1.94	0.50
12:E:177:GLU:H	12:E:177:GLU:CD	2.14	0.50
14:G:151:LEU:HA	14:G:157:TYR:HB3	1.94	0.50
14:G:26:TYR:O	14:G:29:LYS:HB2	2.11	0.50
15:H:406:LEU:HD23	15:H:409:ARG:NH1	2.26	0.50
17:J:147:TYR:CD1	17:J:157:ILE:HG21	2.47	0.50
17:J:77:LYS:HG2	17:J:85:LEU:HD22	1.92	0.50
17:J:99:ALA:H	17:J:102:ILE:HD11	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:342:SER:N	18:K:343:LEU:HB3	2.26	0.50
19:L:224:PRO:HA	19:L:228:LYS:HD3	1.94	0.50
19:L:92:GLU:HG2	19:L:96:LYS:HZ2	1.77	0.50
20:M:364:HIS:HE1	20:M:388:GLY:O	1.94	0.50
21:N:197:VAL:HG21	21:N:202:PHE:CD2	2.47	0.50
21:N:324:LYS:HD3	21:N:328:PHE:HB2	1.93	0.50
21:N:585:ARG:NH2	21:N:616:HIS:HA	2.24	0.50
21:N:766:GLN:HB3	21:N:768:ILE:HD13	1.94	0.50
21:N:897:LYS:NZ	21:N:899:ASN:ND2	2.60	0.50
23:P:249:ALA:HB2	23:P:257:TRP:CH2	2.46	0.50
23:P:331:GLY:HA2	23:P:336:HIS:HB2	1.92	0.50
23:P:46:THR:HG21	23:P:88:GLN:HA	1.93	0.50
24:Q:109:ASP:OD2	24:Q:114:GLN:NE2	2.45	0.50
24:Q:322:GLU:O	24:Q:326:MET:N	2.45	0.50
24:Q:392:GLN:CB	25:R:348:LEU:HA	2.42	0.50
24:Q:420:ASN:OD1	24:Q:420:ASN:N	2.44	0.50
24:Q:423:VAL:HG13	25:R:417:TYR:CZ	2.44	0.50
25:R:141:TYR:O	25:R:145:GLY:N	2.43	0.50
17:J:336:ASN:ND2	25:R:204:TRP:HB2	2.26	0.50
25:R:276:LEU:O	25:R:280:ILE:HG23	2.12	0.50
25:R:284:ALA:C	25:R:286:LEU:N	2.62	0.50
25:R:303:SER:OG	25:R:304:TYR:N	2.44	0.50
26:S:42:SER:CB	26:S:147:TRP:CZ3	2.95	0.50
26:S:212:SER:O	26:S:215:MET:HB3	2.11	0.50
26:S:333:PHE:HA	26:S:337:ASN:ND2	2.26	0.50
26:S:464:ARG:HD2	26:S:464:ARG:N	2.26	0.50
26:S:48:LEU:HA	26:S:51:ARG:CB	2.42	0.50
28:U:110:PHE:O	28:U:113:TYR:N	2.43	0.50
30:W:113:PHE:HE1	30:W:181:LEU:CD2	2.24	0.50
30:W:125:LEU:HD11	30:W:157:PHE:HB2	1.93	0.50
30:W:25:ARG:HH22	30:W:144:PHE:H	1.57	0.50
33:Z:120:SER:HB2	33:Z:153:TYR:CE1	2.46	0.50
33:Z:344:LYS:O	33:Z:347:ASN:N	2.44	0.50
33:Z:529:ALA:O	33:Z:533:VAL:HG23	2.12	0.50
33:Z:916:LEU:CA	33:Z:925:VAL:HG11	2.42	0.50
1:1:180:GLU:N	1:1:187:VAL:O	2.41	0.50
2:2:161:ARG:HG3	2:2:171:SER:HB2	1.94	0.50
3:3:65:SER:O	3:3:114:ALA:HA	2.12	0.50
4:4:132:VAL:HG22	4:4:207:MET:HB3	1.92	0.50
4:4:230:LYS:HD3	4:4:232:TYR:CE1	2.47	0.50
4:4:88:ILE:HA	4:4:91:ASN:HD22	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:101:ASN:OD1	6:6:121:TYR:N	2.42	0.50
7:7:212:TYR:HB3	7:7:216:ASP:OD2	2.11	0.50
1:8:47:ARG:HD2	1:8:216:GLN:O	2.10	0.50
2:9:212:ASN:OD1	2:9:215:ARG:NH2	2.45	0.50
9:B:98:LYS:O	9:B:101:TYR:N	2.45	0.50
9:B:200:VAL:HG11	9:B:204:PHE:HB2	1.94	0.50
12:E:177:GLU:N	12:E:177:GLU:OE1	2.27	0.50
12:E:73:HIS:C	12:E:222:ILE:HD11	2.32	0.50
13:F:92:CYS:SG	13:F:103:LEU:HB3	2.52	0.50
13:F:104:ALA:O	13:F:108:ALA:N	2.31	0.50
13:F:14:SER:HG	13:F:16:THR:HG1	1.55	0.50
13:F:211:LEU:HD23	13:F:230:VAL:HB	1.94	0.50
14:G:49:ALA:HB2	14:G:216:ILE:HG23	1.93	0.50
16:I:402:LEU:CD2	16:I:405:ARG:HE	2.25	0.50
18:K:171:TYR:HB3	18:K:225:ALA:HB1	1.94	0.50
18:K:391:GLY:HA2	18:K:402:ILE:CD1	2.39	0.50
18:K:389:GLU:O	18:K:393:ARG:HG3	2.11	0.50
18:K:363:ALA:N	18:K:402:ILE:O	2.36	0.50
19:L:136:ASP:HB3	19:L:138:SER:OG	2.12	0.50
20:M:174:GLU:OE2	20:M:175:LYS:HE3	2.11	0.50
20:M:416:VAL:O	20:M:419:ILE:HB	2.12	0.50
20:M:83:VAL:CG2	20:M:118:VAL:HB	2.41	0.50
21:N:360:GLN:HB2	29:V:165:ILE:HA	1.92	0.50
21:N:500:ASP:HA	21:N:503:THR:HB	1.93	0.50
21:N:899:ASN:O	21:N:902:VAL:HG22	2.11	0.50
22:O:294:MET:CG	22:O:356:ARG:HE	2.25	0.50
23:P:221:TYR:O	23:P:224:LEU:HB3	2.11	0.50
23:P:245:TYR:CE2	23:P:257:TRP:CZ2	3.00	0.50
23:P:276:LEU:C	23:P:280:LEU:HG	2.32	0.50
23:P:323:ASN:O	23:P:337:HIS:CE1	2.64	0.50
23:P:343:LYS:HA	23:P:346:ILE:HB	1.94	0.50
24:Q:104:PHE:HB3	24:Q:114:GLN:NE2	2.22	0.50
24:Q:134:LYS:O	24:Q:137:LEU:HB2	2.12	0.50
24:Q:20:TYR:HA	24:Q:23:ALA:HB3	1.94	0.50
24:Q:380:MET:HG2	24:Q:386:PHE:HB3	1.94	0.50
26:S:281:ALA:O	26:S:284:LEU:HD23	2.12	0.50
26:S:344:PRO:O	26:S:348:LEU:HG	2.12	0.50
27:T:133:ILE:HA	27:T:136:LEU:HB3	1.94	0.50
27:T:79:GLU:HA	27:T:82:PHE:HB3	1.93	0.50
28:U:173:HIS:C	28:U:176:ARG:HH12	2.14	0.50
29:V:56:GLU:HG2	29:V:64:ASN:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:29:GLN:HG2	30:W:113:PHE:CD1	2.46	0.50
30:W:178:PRO:HG2	30:W:179:ARG:HH12	1.76	0.50
30:W:85:LEU:HD13	30:W:118:ILE:HA	1.93	0.50
2:2:134:TYR:O	2:2:137:ARG:HB3	2.11	0.50
2:2:160:LEU:HD23	2:2:172:SER:O	2.12	0.50
2:2:161:ARG:HH11	2:2:171:SER:CB	2.25	0.50
2:2:78:VAL:O	2:2:82:THR:HB	2.12	0.50
3:3:171:VAL:O	3:3:194:MET:HE1	2.12	0.50
2:2:220:ARG:HH12	3:3:47:ASN:HA	1.77	0.50
3:3:55:ARG:HG3	3:3:57:HIS:O	2.12	0.50
2:2:220:ARG:NE	4:4:164:MET:SD	2.85	0.50
5:5:107:PRO:HD2	5:5:124:PHE:HB2	1.94	0.50
5:5:16:THR:OG1	5:5:134:LYS:O	2.22	0.50
6:6:165:VAL:HG21	6:6:195:PHE:CE2	2.47	0.50
8:A:104:PHE:O	8:A:108:TYR:N	2.35	0.50
10:C:134:SER:OG	10:C:152:ASN:HA	2.12	0.50
9:B:15:SER:HA	10:C:27:GLU:HG2	1.94	0.50
11:D:43:VAL:HG13	11:D:214:VAL:HG22	1.93	0.50
10:C:18:ARG:CZ	11:D:29:ARG:HE	2.24	0.50
11:D:79:ASN:O	11:D:83:ARG:HG3	2.12	0.50
12:E:221:CYS:O	12:E:229:LYS:N	2.26	0.50
15:H:175:GLY:HA3	15:H:189:PRO:CB	2.40	0.50
15:H:99:VAL:O	15:H:173:ARG:HD3	2.12	0.50
18:K:138:ALA:O	18:K:146:LEU:HD12	2.12	0.50
18:K:262:ARG:NH1	18:K:306:PHE:CD1	2.80	0.50
19:L:266:MET:O	19:L:270:ALA:HB3	2.11	0.50
19:L:82:ARG:HB3	19:L:86:LYS:HZ2	1.76	0.50
20:M:149:ASN:O	20:M:153:TYR:N	2.45	0.50
20:M:173:ASP:HB3	20:M:243:PHE:CD2	2.46	0.50
21:N:112:GLU:N	21:N:115:LYS:HZ1	2.10	0.50
21:N:161:TYR:HA	21:N:202:PHE:CE1	2.46	0.50
21:N:345:ASP:H	21:N:374:ILE:CG2	2.24	0.50
21:N:498:ILE:CD1	21:N:528:ARG:HH12	2.24	0.50
21:N:602:VAL:HA	21:N:605:ILE:HD12	1.94	0.50
21:N:641:LEU:HD12	21:N:660:LEU:HD21	1.93	0.50
22:O:11:LEU:CD2	22:O:45:LEU:HD12	2.41	0.50
22:O:165:LEU:HD13	22:O:198:THR:O	2.12	0.50
22:O:243:VAL:HG12	22:O:248:TYR:CB	2.38	0.50
22:O:383:LYS:HB2	27:T:262:LYS:HE2	1.94	0.50
22:O:81:TYR:C	22:O:84:ALA:H	2.11	0.50
23:P:395:ARG:NH1	24:Q:361:HIS:CB	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:96:MET:O	23:P:100:VAL:HG23	2.12	0.50
24:Q:358:GLU:HG2	24:Q:360:SER:N	2.25	0.50
25:R:167:LYS:HD2	25:R:197:MET:HB2	1.93	0.50
25:R:70:TYR:CZ	25:R:74:ASN:HB2	2.47	0.50
25:R:79:LEU:HB2	25:R:93:LYS:HE3	1.94	0.50
26:S:241:PHE:CG	26:S:247:VAL:HA	2.46	0.50
27:T:155:GLY:HA2	27:T:157:TYR:OH	2.11	0.50
27:T:221:ALA:CB	27:T:228:ILE:HD11	2.40	0.50
27:T:51:TYR:HA	27:T:55:LEU:HD22	1.93	0.50
27:T:88:TYR:O	27:T:94:HIS:CE1	2.65	0.50
26:S:481:TYR:HB3	28:U:299:LYS:HZ3	1.77	0.50
29:V:241:THR:HG21	29:V:297:THR:CG2	2.36	0.50
31:X:18:ASN:HB2	31:X:98:PHE:CD2	2.46	0.50
25:R:359:VAL:CA	32:Y:82:ASP:HB3	2.40	0.50
33:Z:347:ASN:O	33:Z:353:VAL:N	2.35	0.50
33:Z:757:SER:HB3	33:Z:761:PHE:CZ	2.47	0.50
33:Z:761:PHE:O	33:Z:764:LEU:HB2	2.12	0.50
1:1:47:ARG:HE	1:1:219:ASP:CG	2.15	0.49
2:2:111:ASN:OD1	2:2:114:ALA:N	2.45	0.49
6:6:79:ALA:HB2	10:C:104:GLU:CD	2.32	0.49
7:7:111:GLU:HA	7:7:117:LEU:HD23	1.92	0.49
7:7:110:ILE:N	7:7:118:GLY:O	2.39	0.49
7:7:76:THR:O	7:7:206:SER:OG	2.30	0.49
1:8:89:ASN:O	1:8:92:LYS:HB3	2.11	0.49
2:9:178:GLY:O	2:9:182:HIS:ND1	2.40	0.49
8:A:125:SER:O	8:A:129:THR:N	2.27	0.49
8:A:33:LYS:HG3	14:G:17:PRO:O	2.12	0.49
9:B:135:LEU:HD21	9:B:164:ILE:HG23	1.93	0.49
4:4:65:ARG:NH1	9:B:224:TYR:OH	2.45	0.49
11:D:171:VAL:CG2	11:D:198:SER:HB2	2.36	0.49
11:D:239:GLU:HA	11:D:242:GLU:CD	2.33	0.49
12:E:170:LYS:HD2	12:E:180:GLN:OE1	2.11	0.49
12:E:195:GLU:C	12:E:199:LEU:HD13	2.32	0.49
12:E:205:LYS:HZ2	12:E:211:LYS:HG3	1.86	0.49
13:F:20:PHE:HA	13:F:23:GLU:OE1	2.12	0.49
14:G:218:TRP:HZ3	14:G:223:GLU:HB2	1.77	0.49
14:G:224:THR:HG22	14:G:229:LYS:HD3	1.94	0.49
14:G:54:ILE:HA	14:G:59:LEU:HD22	1.94	0.49
15:H:258:LEU:HD23	15:H:261:ARG:HD2	1.93	0.49
15:H:275:ILE:HB	15:H:278:GLU:CD	2.32	0.49
15:H:298:ALA:HB1	15:H:349:ILE:HD13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:439:THR:N	15:H:442:ASP:OD2	2.30	0.49
15:H:63:ILE:O	15:H:66:LYS:HB3	2.10	0.49
15:H:97:LEU:HD12	15:H:189:PRO:CB	2.42	0.49
16:I:252:LEU:HD12	16:I:253:ILE:N	2.26	0.49
16:I:337:ALA:O	16:I:340:ARG:HB2	2.12	0.49
17:J:299:ILE:HG13	17:J:300:LEU:HG	1.93	0.49
17:J:78:ILE:HD13	17:J:104:VAL:O	2.12	0.49
18:K:61:LEU:HA	18:K:64:GLN:HB3	1.93	0.49
10:C:110:ILE:HG12	18:K:71:GLU:CD	218.77	0.49
19:L:149:ASP:HB3	19:L:153:LEU:N	2.27	0.49
20:M:120:LYS:HA	20:M:125:GLN:O	2.12	0.49
20:M:331:ASP:CG	20:M:332:VAL:H	2.15	0.49
21:N:124:TYR:CG	21:N:162:ARG:HG2	2.47	0.49
21:N:246:LYS:NZ	21:N:280:GLN:HB3	2.27	0.49
21:N:636:SER:OG	21:N:637:ALA:N	2.45	0.49
22:O:107:GLN:HE21	22:O:112:LYS:HG3	1.76	0.49
22:O:132:GLU:O	22:O:136:THR:HG23	2.12	0.49
22:O:245:ASP:HA	22:O:249:ASP:OD1	2.12	0.49
22:O:365:LYS:HA	22:O:368:ASP:OD2	2.12	0.49
23:P:267:PHE:CD1	23:P:270:LEU:HD12	2.47	0.49
23:P:267:PHE:HA	23:P:270:LEU:HB2	1.94	0.49
23:P:305:THR:O	23:P:307:GLU:HG3	2.12	0.49
25:R:373:PRO:HA	25:R:375:LYS:NZ	2.27	0.49
25:R:67:CYS:HG	25:R:94:PHE:HE1	1.54	0.49
26:S:357:LEU:O	26:S:360:PHE:HB3	2.11	0.49
28:U:191:THR:O	29:V:232:GLU:OE2	2.30	0.49
28:U:57:GLU:O	28:U:67:PHE:N	2.35	0.49
29:V:265:GLU:O	29:V:268:THR:OG1	2.20	0.49
28:U:283:ARG:CB	29:V:288:LEU:HD23	2.35	0.49
29:V:48:GLU:HB2	29:V:78:VAL:HG11	1.93	0.49
29:V:91:MET:O	29:V:94:MET:N	2.45	0.49
31:X:22:ARG:HH22	31:X:78:ILE:HD12	1.75	0.49
33:Z:208:VAL:CG1	33:Z:232:LYS:HA	2.42	0.49
33:Z:328:ASP:HA	33:Z:332:ASN:H	1.77	0.49
33:Z:369:PHE:HD2	33:Z:390:LEU:HD21	1.73	0.49
1:1:134:ASP:OD2	1:1:136:ASP:HB2	2.12	0.49
1:1:197:GLU:HA	1:1:200:ILE:HB	1.95	0.49
1:1:164:LEU:HD21	1:1:213:ARG:HB2	1.94	0.49
2:2:137:ARG:NH2	2:2:138:SER:OG	2.45	0.49
3:3:149:GLY:HA2	3:3:152:PHE:CD2	2.47	0.49
4:4:115:HIS:CE1	4:4:119:TYR:HE2	2.29	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:30:THR:N	4:4:197:GLY:O	2.45	0.49
5:5:178:ASP:OD1	5:5:179:ALA:N	2.45	0.49
6:6:117:TYR:HA	6:6:127:GLU:HA	1.94	0.49
6:6:43:LEU:HB2	6:6:189:ILE:CD1	2.42	0.49
7:7:151:VAL:N	7:7:183:GLU:OE2	2.44	0.49
7:7:163:TYR:CE1	7:7:166:LYS:HD3	2.48	0.49
1:8:198:GLU:HA	1:8:201:LYS:HD2	1.94	0.49
1:8:214:HIS:CD2	1:8:217:VAL:HG23	2.36	0.49
2:9:161:ARG:HH11	2:9:171:SER:CB	2.25	0.49
8:A:166:TYR:HB3	8:A:168:ALA:O	2.12	0.49
8:A:179:THR:HG22	8:A:183:GLU:CD	2.32	0.49
9:B:214:ILE:HA	9:B:235:PHE:HA	1.94	0.49
9:B:244:ASN:HA	9:B:247:LEU:HD12	1.94	0.49
10:C:42:ASP:OD1	10:C:186:VAL:HG23	2.11	0.49
10:C:50:ARG:NH2	10:C:62:SER:O	2.38	0.49
11:D:93:ALA:O	11:D:97:ARG:N	2.30	0.49
13:F:19:LEU:O	13:F:22:VAL:HB	2.13	0.49
13:F:136:GLY:HA2	13:F:216:VAL:HG11	1.94	0.49
13:F:15:PRO:HA	14:G:26:TYR:CD1	2.47	0.49
15:H:257:THR:HG21	15:H:273:ARG:HD2	1.94	0.49
16:I:105:SER:OG	16:I:154:MET:SD	2.71	0.49
16:I:100:ARG:NE	16:I:157:VAL:HG11	2.26	0.49
16:I:168:VAL:HA	16:I:266:GLN:HB3	1.94	0.49
17:J:324:ARG:HA	17:J:327:ILE:HB	1.93	0.49
17:J:364:GLU:HA	17:J:367:MET:HB3	1.94	0.49
20:M:193:LEU:HD11	20:M:231:LEU:HB3	1.93	0.49
20:M:178:GLU:H	20:M:237:ALA:CB	2.25	0.49
20:M:355:ASP:HA	20:M:358:ALA:HB3	1.93	0.49
21:N:117:TYR:HA	21:N:120:ASP:O	2.11	0.49
21:N:114:SER:HA	21:N:161:TYR:HE2	1.78	0.49
21:N:192:LEU:O	21:N:196:THR:HG23	2.12	0.49
21:N:303:LEU:O	21:N:307:LYS:N	2.33	0.49
21:N:534:ASP:O	21:N:538:LYS:N	2.31	0.49
21:N:585:ARG:NH1	21:N:651:PHE:HE2	2.09	0.49
22:O:207:LEU:HD22	22:O:211:GLN:NE2	2.25	0.49
22:O:324:VAL:O	22:O:328:VAL:HB	2.12	0.49
22:O:336:LEU:O	22:O:353:VAL:HG11	2.13	0.49
23:P:213:TYR:HD2	23:P:216:LEU:HD12	1.76	0.49
23:P:220:TYR:CE2	23:P:224:LEU:HB2	2.47	0.49
23:P:292:LYS:CA	23:P:293:LEU:HB3	2.42	0.49
23:P:263:HIS:CE1	23:P:327:LEU:HG	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:360:ILE:N	23:P:400:VAL:O	2.39	0.49
24:Q:74:LEU:HB3	24:Q:104:PHE:HZ	1.76	0.49
24:Q:27:TYR:CD1	24:Q:61:LEU:HB2	2.47	0.49
24:Q:355:GLU:HB2	24:Q:399:VAL:HG12	1.95	0.49
25:R:113:LEU:HA	25:R:116:LYS:HB3	1.94	0.49
25:R:28:GLU:HG3	25:R:32:LEU:HG	1.93	0.49
27:T:139:ASP:OD2	27:T:142:LEU:HG	2.12	0.49
27:T:169:GLN:HG3	27:T:174:PHE:CB	2.32	0.49
27:T:258:ASN:O	27:T:261:GLU:HB2	2.12	0.49
28:U:170:GLY:HA2	28:U:173:HIS:ND1	2.27	0.49
28:U:71:ASN:O	28:U:74:GLU:HB3	2.12	0.49
29:V:155:ALA:O	29:V:199:LEU:N	2.39	0.49
29:V:287:THR:O	29:V:291:ASN:HB2	2.12	0.49
30:W:111:VAL:HA	30:W:140:ASP:O	2.12	0.49
30:W:163:ASN:HB3	30:W:164:PRO:CD	2.42	0.49
30:W:65:PHE:CZ	30:W:97:THR:HG22	2.47	0.49
33:Z:389:PHE:HE2	33:Z:850:LEU:HA	1.77	0.49
1:1:220:GLY:HA2	1:1:238:LEU:N	2.27	0.49
1:1:27:ASN:O	1:1:49:ILE:HG13	2.13	0.49
1:1:89:ASN:OD1	1:1:93:TRP:NE1	2.45	0.49
2:2:152:VAL:HG11	2:2:235:LYS:HA	1.94	0.49
2:2:49:TYR:HD1	2:2:50:ASP:OD1	1.96	0.49
2:2:48:LYS:HB3	2:2:53:VAL:HG12	1.93	0.49
4:4:191:GLY:O	4:4:195:ASP:HB3	2.12	0.49
5:5:7:ILE:HA	5:5:32:GLN:OE1	2.11	0.49
9:B:184:GLU:OE2	9:B:186:GLU:N	2.45	0.49
10:C:94:HIS:HA	10:C:97:ASN:ND2	2.27	0.49
14:G:185:GLU:HG3	14:G:186:GLY:H	1.76	0.49
15:H:55:ASP:OD2	16:I:95:GLN:HB3	2.13	0.49
15:H:96:PRO:HD2	16:I:119:ILE:CG2	2.41	0.49
16:I:172:LYS:HZ3	16:I:234:LYS:HE3	1.77	0.49
16:I:274:ASN:HA	33:Z:791:LYS:HD3	1.94	0.49
15:H:395:SER:C	16:I:319:ARG:HH22	2.11	0.49
17:J:77:LYS:HE3	17:J:85:LEU:HD13	1.95	0.49
19:L:370:LYS:HD3	19:L:374:PHE:CZ	2.48	0.49
19:L:370:LYS:HZ3	19:L:395:ALA:HA	1.78	0.49
20:M:77:TYR:HD2	20:M:148:VAL:O	1.95	0.49
20:M:308:LEU:O	20:M:312:LEU:N	2.39	0.49
21:N:123:PHE:HA	21:N:126:LYS:HE2	1.93	0.49
21:N:578:ASP:OD2	21:N:583:VAL:HG11	2.13	0.49
21:N:893:VAL:HG21	21:N:906:ARG:NH1	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:100:ASP:HA	22:O:103:LYS:CE	2.42	0.49
22:O:195:TYR:HA	22:O:198:THR:HB	1.92	0.49
22:O:228:TYR:HA	22:O:229:ASN:HB2	1.94	0.49
23:P:143:LEU:HG	23:P:147:LYS:HG3	1.94	0.49
23:P:168:TYR:HB3	23:P:170:SER:CA	2.42	0.49
23:P:277:GLN:HA	23:P:280:LEU:HB2	1.93	0.49
23:P:274:GLY:O	23:P:277:GLN:HB3	2.12	0.49
25:R:58:GLU:OE2	25:R:109:LYS:HD2	2.12	0.49
25:R:175:ALA:CB	25:R:243:LEU:HD13	2.43	0.49
26:S:12:SER:HG	26:S:13:SER:N	2.08	0.49
26:S:181:ALA:HB3	26:S:232:MET:HE3	1.95	0.49
26:S:235:ASN:HB3	26:S:275:TYR:CE2	2.47	0.49
27:T:129:LEU:O	27:T:132:HIS:CD2	2.64	0.49
22:O:380:LEU:CD1	27:T:258:ASN:HD22	2.22	0.49
27:T:62:LEU:HD22	27:T:84:GLN:HB2	1.94	0.49
28:U:70:HIS:ND1	28:U:73:ILE:HD12	2.27	0.49
28:U:8:VAL:HB	28:U:159:CYS:SG	2.52	0.49
30:W:179:ARG:HB3	30:W:184:ASN:ND2	2.27	0.49
30:W:56:GLY:H	30:W:83:GLY:HA3	1.77	0.49
33:Z:121:ILE:HA	33:Z:124:MET:HB3	1.94	0.49
33:Z:128:GLU:HB3	33:Z:132:HIS:CD2	2.47	0.49
33:Z:368:VAL:C	33:Z:369:PHE:CD1	2.86	0.49
1:1:29:GLY:C	1:1:74:ASN:HD21	2.16	0.49
2:2:81:ASN:CG	2:2:122:PRO:HD3	2.33	0.49
4:4:115:HIS:CE1	4:4:119:TYR:CE2	3.01	0.49
4:4:207:MET:HG2	4:4:213:ALA:CB	2.43	0.49
5:5:118:LYS:HZ1	5:5:120:PHE:HB2	1.76	0.49
5:5:63:LEU:HD12	5:5:105:VAL:HG11	1.93	0.49
6:6:96:ARG:NH2	7:7:166:LYS:HB3	2.28	0.49
1:8:220:GLY:HA2	1:8:238:LEU:N	2.27	0.49
8:A:244:ARG:O	8:A:248:ILE:HG13	2.12	0.49
6:6:110:LYS:HE3	10:C:142:ASP:OD2	2.12	0.49
10:C:240:VAL:HA	10:C:245:THR:CA	2.42	0.49
11:D:159:TRP:CZ3	12:E:59:LEU:N	3.19	0.49
11:D:36:VAL:HG23	11:D:43:VAL:HB	1.95	0.49
11:D:67:ILE:HA	11:D:90:ARG:HG2	1.94	0.49
12:E:70:ILE:HG23	12:E:93:ARG:HA	1.95	0.49
13:F:136:GLY:N	13:F:143:HIS:O	2.44	0.49
14:G:8:TYR:CG	14:G:17:PRO:HD3	2.47	0.49
14:G:183:HIS:HA	14:G:185:GLU:HG2	1.94	0.49
15:H:242:PRO:CD	15:H:347:GLY:HA2	2.40	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:379:LEU:HD12	15:H:380:PRO:HD2	1.93	0.49
15:H:405:GLU:O	15:H:409:ARG:HG3	2.12	0.49
16:I:227:THR:HG23	16:I:228:GLY:H	1.77	0.49
16:I:262:ARG:HA	16:I:265:ARG:HB2	1.94	0.49
17:J:388:LYS:O	17:J:391:ASN:HB2	2.12	0.49
17:J:56:ARG:HG3	17:J:57:PHE:H	1.77	0.49
18:K:126:LEU:HD22	18:K:130:LEU:HB3	1.93	0.49
18:K:260:LEU:HA	18:K:263:GLU:HB2	1.94	0.49
18:K:209:VAL:HG12	18:K:336:ARG:HB2	1.94	0.49
19:L:133:ASN:O	19:L:135:VAL:HG13	2.12	0.49
18:K:93:PRO:HB3	19:L:152:THR:O	2.13	0.49
19:L:242:ASN:O	19:L:277:ILE:N	2.46	0.49
20:M:80:ALA:HB2	20:M:121:THR:HA	1.95	0.49
20:M:219:LEU:HB3	20:M:346:LYS:HA	1.93	0.49
20:M:369:THR:O	20:M:410:VAL:N	2.44	0.49
17:J:26:LYS:HZ2	21:N:106:ILE:HB	1.73	0.49
21:N:143:LYS:HA	21:N:146:LYS:HE2	1.94	0.49
21:N:318:LYS:NZ	21:N:348:PHE:CB	2.67	0.49
21:N:362:TRP:HH2	21:N:476:THR:HG23	1.76	0.49
21:N:399:PHE:O	21:N:403:GLY:N	2.46	0.49
21:N:414:GLY:H	21:N:453:ALA:HA	1.76	0.49
21:N:646:LYS:O	21:N:653:ARG:NH2	2.44	0.49
22:O:307:MET:HG2	22:O:309:SER:HB2	1.94	0.49
22:O:310:PHE:HE1	22:O:341:ILE:HG12	1.77	0.49
23:P:280:LEU:HB3	23:P:283:LYS:HE2	1.95	0.49
23:P:50:SER:HB2	23:P:53:ALA:HB2	1.93	0.49
24:Q:8:LEU:HD11	24:Q:12:ARG:HH22	1.77	0.49
25:R:224:PHE:O	25:R:260:THR:HG21	2.12	0.49
25:R:292:LEU:HB3	25:R:307:TYR:CG	2.47	0.49
25:R:336:LYS:HG3	25:R:340:GLN:HE22	1.77	0.49
26:S:152:LEU:HB2	26:S:191:HIS:NE2	2.28	0.49
26:S:17:ASP:CA	26:S:20:HIS:HD2	2.25	0.49
26:S:21:SER:O	26:S:22:GLU:HG2	2.12	0.49
27:T:11:LEU:HD12	27:T:23:CYS:HB3	1.93	0.49
27:T:214:GLU:O	27:T:218:GLU:HG3	2.12	0.49
27:T:92:ASN:OD1	27:T:93:ASN:N	2.34	0.49
28:U:120:LEU:HD13	28:U:137:TYR:HB2	1.93	0.49
28:U:305:ARG:HH12	28:U:307:LYS:HG2	1.75	0.49
30:W:25:ARG:HH21	30:W:114:VAL:C	2.14	0.49
30:W:68:GLU:CD	30:W:69:PHE:H	2.15	0.49
31:X:48:PHE:H	31:X:66:LEU:H	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:181:GLY:HA2	33:Z:263:ALA:HB2	1.94	0.49
33:Z:421:SER:HB3	33:Z:902:TYR:OH	2.12	0.49
33:Z:430:LEU:O	33:Z:468:GLU:HB3	2.11	0.49
33:Z:557:GLU:OE2	33:Z:563:VAL:HG22	2.13	0.49
33:Z:916:LEU:HD13	33:Z:920:GLY:O	2.12	0.49
3:3:26:THR:OG1	3:3:142:PRO:O	2.15	0.49
4:4:130:ALA:HA	4:4:138:HIS:O	2.12	0.49
5:5:107:PRO:HG2	5:5:124:PHE:CD2	2.47	0.49
4:4:241:VAL:HG21	5:5:198:ARG:HD3	1.95	0.49
6:6:101:ASN:HB3	6:6:133:HIS:ND1	2.27	0.49
6:6:158:LEU:HD23	6:6:161:LEU:HD12	1.94	0.49
6:6:158:LEU:O	6:6:161:LEU:HB2	2.12	0.49
6:6:37:GLN:NE2	6:6:40:PRO:HA	2.28	0.49
1:8:47:ARG:NH2	1:8:239:LYS:O	2.45	0.49
2:9:126:PHE:HZ	2:9:169:THR:HB	1.77	0.49
8:A:75:ILE:HG21	8:A:117:LEU:CD2	2.42	0.49
8:A:156:LYS:HZ1	8:A:175:GLN:HE22	1.59	0.49
8:A:207:ILE:HD12	8:A:244:ARG:CB	2.40	0.49
3:3:88:GLN:CG	8:A:98:LYS:HZ2	2.17	0.49
9:B:124:SER:HB2	9:B:127:VAL:HG21	1.94	0.49
8:A:131:ARG:NH1	9:B:127:VAL:HG13	2.28	0.49
9:B:134:LEU:O	9:B:149:GLN:HA	2.13	0.49
10:C:13:PHE:CE2	11:D:127:ARG:HD2	2.73	0.49
10:C:42:ASP:N	10:C:42:ASP:OD1	2.44	0.49
10:C:36:ILE:N	10:C:47:ALA:O	2.26	0.49
11:D:118:GLN:HG3	12:E:83:ALA:HB1	1.93	0.49
1:8:101:LYS:HD2	12:E:108:ASN:HD21	1.77	0.49
12:E:233:ASN:O	12:E:236:THR:HB	2.13	0.49
14:G:99:PHE:CE1	14:G:107:ILE:HA	2.47	0.49
14:G:135:SER:OG	14:G:153:PRO:HD3	2.13	0.49
14:G:45:GLY:HA3	14:G:219:CYS:O	2.13	0.49
14:G:9:ASP:OD1	14:G:10:LEU:HG	2.12	0.49
15:H:377:PHE:CE2	15:H:380:PRO:HD3	2.46	0.49
16:I:132:ILE:H	16:I:138:LYS:NZ	2.10	0.49
16:I:268:PHE:CZ	16:I:309:LEU:HD12	2.47	0.49
17:J:116:ARG:HB2	17:J:119:SER:HB2	1.92	0.49
17:J:143:PRO:CG	17:J:210:PHE:HB3	2.39	0.49
17:J:327:ILE:HG21	17:J:355:GLY:CA	2.43	0.49
17:J:380:GLU:OE2	24:Q:166:LYS:HD3	2.12	0.49
19:L:275:PRO:HG3	19:L:320:GLN:HB3	1.95	0.49
20:M:117:ALA:CB	20:M:131:MET:HG2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:169:ALA:HB1	20:M:250:GLN:CD	2.33	0.49
20:M:263:VAL:HG11	20:M:308:LEU:HB2	1.95	0.49
21:N:227:LYS:HG3	21:N:724:THR:HG22	1.94	0.49
21:N:417:ARG:HA	21:N:420:THR:HB	1.94	0.49
21:N:591:LEU:O	21:N:593:PHE:N	2.45	0.49
21:N:592:GLY:HA2	21:N:595:LEU:HB2	1.94	0.49
17:J:52:ASN:HB3	21:N:611:LYS:NZ	2.27	0.49
22:O:104:ALA:CB	22:O:132:GLU:HG3	2.38	0.49
22:O:94:GLU:HG3	22:O:95:SER:H	1.76	0.49
23:P:109:SER:OG	23:P:110:LEU:N	2.46	0.49
23:P:260:VAL:C	23:P:264:ILE:HG13	2.33	0.49
23:P:55:SER:C	23:P:88:GLN:HE22	2.16	0.49
25:R:107:GLU:HA	25:R:110:ILE:HD12	1.93	0.49
25:R:413:LYS:CA	25:R:416:LYS:HB3	2.41	0.49
26:S:214:MET:O	26:S:218:LEU:HG	2.12	0.49
26:S:357:LEU:HD12	26:S:384:ARG:HH11	1.76	0.49
28:U:302:GLN:HA	28:U:305:ARG:HB2	1.94	0.49
28:U:302:GLN:O	28:U:305:ARG:N	2.39	0.49
29:V:232:GLU:O	29:V:235:GLU:N	2.45	0.49
29:V:251:TYR:O	29:V:255:ILE:N	2.33	0.49
29:V:91:MET:C	29:V:95:LEU:HG	2.33	0.49
30:W:125:LEU:O	30:W:128:LEU:HB2	2.13	0.49
30:W:114:VAL:HG21	30:W:154:LEU:HD11	1.93	0.49
31:X:32:GLU:HG2	31:X:51:ARG:O	2.12	0.49
33:Z:190:THR:HG21	33:Z:198:GLU:OE2	2.11	0.49
33:Z:366:LYS:CE	33:Z:369:PHE:CZ	2.96	0.49
1:1:224:LEU:HG	1:1:233:LYS:HG2	1.94	0.49
1:1:46:THR:OG1	1:1:222:GLU:HG3	2.12	0.49
5:5:50:PHE:CE2	5:5:195:VAL:HG21	2.47	0.49
6:6:41:HIS:HD2	6:6:107:TYR:HB3	1.77	0.49
1:8:225:ILE:HG21	1:8:232:ARG:NH2	2.27	0.49
1:8:46:THR:OG1	1:8:222:GLU:HG3	2.12	0.49
1:8:49:ILE:HA	1:8:54:ILE:HA	1.94	0.49
8:A:186:PHE:HA	8:A:189:SER:OG	2.12	0.49
8:A:62:LYS:NZ	14:G:181:ASP:OD2	2.40	0.49
8:A:71:TYR:O	8:A:83:VAL:N	2.39	0.49
9:B:200:VAL:HG21	9:B:204:PHE:CD1	2.47	0.49
10:C:39:MET:HA	10:C:44:ILE:HG12	1.95	0.49
12:E:144:ILE:CD1	12:E:158:ALA:HB2	2.42	0.49
12:E:192:THR:HG23	12:E:195:GLU:OE2	2.13	0.49
14:G:169:ARG:NH2	14:G:170:GLN:HE22	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:219:VAL:HA	16:I:346:ARG:HB2	1.95	0.49
16:I:97:GLU:CD	16:I:100:ARG:HD3	2.33	0.49
17:J:177:LEU:HG	17:J:179:ILE:HG23	1.93	0.49
17:J:265:ASP:HA	17:J:268:VAL:HB	1.93	0.49
17:J:324:ARG:HD3	17:J:353:CYS:C	2.33	0.49
20:M:23:LEU:O	20:M:26:SER:OG	2.27	0.49
20:M:364:HIS:HE1	20:M:388:GLY:C	2.16	0.49
21:N:151:LYS:HA	21:N:154:LEU:HB2	1.94	0.49
21:N:322:ASP:HB2	21:N:358:LYS:HD3	1.95	0.49
21:N:380:LEU:C	21:N:384:LYS:NZ	2.65	0.49
21:N:385:VAL:O	21:N:388:PRO:HD2	2.13	0.49
21:N:406:TYR:CD1	21:N:448:LEU:HB3	2.47	0.49
21:N:69:TYR:HB2	21:N:78:ALA:HB2	1.95	0.49
22:O:147:ARG:HG2	22:O:151:ASP:OD2	2.12	0.49
22:O:306:ARG:NH1	22:O:351:SER:C	2.66	0.49
23:P:127:GLU:CG	23:P:128:ASN:H	2.23	0.49
23:P:164:GLN:HA	23:P:176:LYS:HE2	1.95	0.49
23:P:349:ASN:ND2	23:P:353:ILE:HD11	2.27	0.49
24:Q:278:VAL:O	24:Q:281:ILE:HB	2.13	0.49
24:Q:289:GLU:HB2	24:Q:291:TYR:CD2	2.47	0.49
24:Q:40:ALA:HB2	24:Q:46:VAL:HG22	1.95	0.49
24:Q:65:TYR:HB3	24:Q:70:ALA:C	2.33	0.49
24:Q:70:ALA:O	24:Q:73:LYS:HB2	2.12	0.49
25:R:116:LYS:O	25:R:120:LEU:N	2.34	0.49
25:R:164:THR:HG21	25:R:200:LYS:CE	2.42	0.49
25:R:335:ARG:HH12	25:R:377:LEU:N	2.11	0.49
24:Q:409:TYR:OH	25:R:406:GLN:HB2	2.13	0.49
26:S:227:ASN:OD1	26:S:228:GLU:N	2.46	0.49
26:S:231:ALA:HB3	26:S:259:TYR:CZ	2.48	0.49
28:U:36:VAL:HG21	28:U:76:MET:SD	2.51	0.49
29:V:255:ILE:O	29:V:258:GLU:HG2	2.12	0.49
33:Z:448:LYS:O	33:Z:452:LEU:HG	2.12	0.49
33:Z:506:LEU:HD13	33:Z:530:LEU:HD13	1.94	0.49
33:Z:808:SER:HA	33:Z:811:SER:HB3	1.94	0.49
33:Z:886:VAL:O	33:Z:896:LYS:NZ	2.45	0.49
1:1:178:GLN:OE1	1:1:189:LYS:HD3	2.13	0.49
1:1:47:ARG:NH2	1:1:239:LYS:O	2.45	0.49
2:2:226:ARG:NE	2:2:247:VAL:O	2.38	0.49
3:3:78:VAL:O	3:3:82:LEU:HG	2.12	0.49
3:3:89:TYR:CE1	14:G:111:ALA:HA	2.48	0.49
4:4:99:THR:O	4:4:101:ARG:HG3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:146:LEU:O	5:5:150:CYS:N	2.28	0.49
5:5:189:ILE:CG1	5:5:198:ARG:NH1	2.76	0.49
5:5:30:GLY:HA2	5:5:36:VAL:HG23	1.93	0.49
7:7:121:ALA:HB3	7:7:173:GLY:O	2.11	0.49
1:8:178:GLN:OE1	1:8:189:LYS:HD3	2.13	0.49
1:8:37:GLU:HB2	1:8:193:TYR:CE1	2.46	0.49
2:9:49:TYR:HD1	2:9:50:ASP:OD1	1.96	0.49
2:9:61:GLY:HA3	2:9:72:VAL:HG21	1.95	0.49
10:C:185:LYS:HE3	10:C:187:ASP:CB	2.33	0.49
11:D:162:GLN:HE22	11:D:172:ARG:HE	1.60	0.49
13:F:40:SER:OG	13:F:43:HIS:N	2.22	0.49
14:G:84:ASP:O	14:G:87:HIS:HB3	2.13	0.49
15:H:183:ILE:HG23	15:H:184:GLU:HA	1.95	0.49
15:H:215:LYS:HA	15:H:218:ILE:HD12	1.94	0.49
15:H:364:ALA:O	15:H:370:ARG:HD3	2.13	0.49
16:I:169:SER:HB3	16:I:263:LEU:CB	2.42	0.49
16:I:202:LEU:HD13	16:I:321:ASP:HA	1.94	0.49
17:J:24:GLU:HG2	17:J:25:GLN:H	1.77	0.49
17:J:265:ASP:O	17:J:269:GLN:HG2	2.12	0.49
18:K:298:GLU:O	18:K:302:GLN:HG3	2.12	0.49
19:L:165:PRO:HB2	19:L:169:ASN:H	1.77	0.49
19:L:263:ILE:HG22	19:L:311:GLN:NE2	2.27	0.49
19:L:259:SER:CB	19:L:304:THR:HG1	2.23	0.49
20:M:25:LEU:HA	20:M:28:GLN:CD	2.33	0.49
20:M:30:LEU:HD23	20:M:33:ARG:HD2	1.94	0.49
20:M:228:LYS:HG2	20:M:349:PHE:CB	2.43	0.49
21:N:308:ASN:C	21:N:711:ARG:NH1	2.66	0.49
21:N:919:THR:H	21:N:922:GLN:HB2	1.77	0.49
22:O:178:TYR:HE2	22:O:182:LYS:HZ2	1.53	0.49
22:O:253:GLN:HA	22:O:256:ASN:ND2	2.27	0.49
22:O:296:LEU:HA	22:O:300:VAL:HG23	1.95	0.49
22:O:68:LYS:HD2	22:O:72:LYS:HD3	1.94	0.49
22:O:94:GLU:CG	22:O:95:SER:H	2.23	0.49
23:P:221:TYR:O	23:P:225:VAL:N	2.36	0.49
23:P:258:LYS:O	23:P:261:LEU:N	2.45	0.49
23:P:438:ILE:C	23:P:441:GLY:H	2.16	0.49
25:R:111:LYS:HA	25:R:114:ASN:ND2	2.28	0.49
25:R:236:ALA:HB2	25:R:246:TYR:CE1	2.48	0.49
17:J:29:GLU:CD	26:S:224:LYS:HD2	2.33	0.49
26:S:343:LEU:C	26:S:347:HIS:HD1	2.16	0.49
26:S:345:TYR:O	26:S:348:LEU:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:383:LEU:HA	26:S:386:ASN:ND2	2.28	0.49
26:S:377:TYR:CD2	27:T:133:ILE:HD11	2.47	0.49
27:T:104:LYS:NZ	27:T:169:GLN:NE2	2.61	0.49
27:T:216:GLU:HA	27:T:219:LYS:NZ	2.27	0.49
27:T:247:ASP:C	27:T:249:MET:H	2.16	0.49
22:O:384:MET:N	27:T:262:LYS:HE3	2.28	0.49
27:T:52:LEU:O	27:T:52:LEU:HD12	2.11	0.49
27:T:51:TYR:CG	27:T:52:LEU:N	2.78	0.49
29:V:142:ASP:HB3	29:V:145:GLN:HB2	1.95	0.49
29:V:207:ALA:O	29:V:210:THR:HB	2.12	0.49
29:V:29:ILE:HB	29:V:203:TYR:HB3	1.93	0.49
30:W:20:ASP:HB3	30:W:25:ARG:HD2	1.95	0.49
31:X:62:ASP:OD1	31:X:63:PRO:HD2	2.12	0.49
32:Y:72:ASP:OD1	32:Y:73:PHE:N	2.41	0.49
33:Z:204:CYS:O	33:Z:208:VAL:HG23	2.13	0.49
33:Z:309:GLN:HE22	33:Z:972:SER:HB2	1.78	0.49
33:Z:482:ASP:OD2	33:Z:485:ILE:HD12	2.13	0.49
33:Z:574:TYR:OH	33:Z:603:VAL:HA	2.13	0.49
1:1:198:GLU:HA	1:1:201:LYS:HD2	1.94	0.49
2:2:90:ILE:HG22	2:2:94:GLN:HG3	1.95	0.49
3:3:102:LYS:HZ1	2:9:94:GLN:HB3	1.74	0.49
3:3:195:VAL:HG22	3:3:204:ARG:HA	1.94	0.49
3:3:57:HIS:O	3:3:61:TRP:NE1	2.46	0.49
4:4:35:VAL:HG22	4:4:153:TYR:HB2	1.94	0.49
4:4:95:HIS:CD2	8:A:108:TYR:CZ	3.01	0.49
8:A:12:TYR:O	8:A:16:ILE:HG12	2.13	0.49
9:B:137:ALA:HB1	9:B:214:ILE:HG12	1.94	0.49
13:F:40:SER:HA	13:F:180:ILE:HD12	1.95	0.49
13:F:63:ILE:HG21	13:F:214:ALA:HB2	1.94	0.49
14:G:81:LEU:HD12	14:G:84:ASP:OD2	2.13	0.49
18:K:383:ILE:O	18:K:387:MET:HG2	2.13	0.49
19:L:386:PHE:CE2	19:L:419:VAL:HG13	2.46	0.49
20:M:313:ASP:HB2	20:M:342:ARG:HH21	1.75	0.49
20:M:351:LEU:CD2	20:M:387:ASN:HB3	2.43	0.49
21:N:120:ASP:HB3	21:N:123:PHE:HB3	1.94	0.49
21:N:117:TYR:CE1	21:N:121:GLU:HG2	2.47	0.49
21:N:257:ILE:O	21:N:260:ASP:HB2	2.12	0.49
21:N:338:PHE:C	21:N:708:ALA:HA	2.33	0.49
21:N:567:ALA:HA	21:N:570:ARG:CZ	2.43	0.49
21:N:585:ARG:NH1	21:N:651:PHE:CE2	2.80	0.49
21:N:657:MET:HE1	21:N:685:VAL:HG11	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:702:ALA:O	21:N:705:ILE:HB	2.12	0.49
21:N:757:THR:HG23	21:N:871:MET:HG2	1.94	0.49
22:O:15:ARG:NH2	30:W:145:GLY:O	2.46	0.49
22:O:294:MET:HG2	22:O:356:ARG:HE	1.77	0.49
22:O:383:LYS:HZ3	27:T:262:LYS:HZ1	1.60	0.49
23:P:146:ILE:HG22	23:P:150:GLU:HG3	1.94	0.49
23:P:254:GLU:O	23:P:258:LYS:HG3	2.11	0.49
23:P:393:VAL:HG21	24:Q:353:PRO:HB3	1.95	0.49
24:Q:151:TYR:O	24:Q:155:LEU:N	2.33	0.49
24:Q:276:ASP:HA	24:Q:279:LYS:NZ	2.28	0.49
24:Q:356:CYS:SG	24:Q:399:VAL:HG13	2.52	0.49
24:Q:99:THR:HA	24:Q:102:GLU:OE1	2.12	0.49
24:Q:99:THR:HG23	24:Q:103:LYS:HZ3	1.77	0.49
25:R:101:GLU:CG	25:R:105:LYS:HE3	2.42	0.49
26:S:280:ASN:HD22	26:S:289:ALA:N	2.10	0.49
28:U:271:ASP:HA	28:U:274:MET:HE2	1.95	0.49
28:U:9:THR:HG21	28:U:47:ARG:HG3	1.94	0.49
28:U:70:HIS:CE1	28:U:73:ILE:HB	2.47	0.49
29:V:241:THR:OG1	29:V:297:THR:CG2	2.61	0.49
30:W:148:GLU:HB2	30:W:150:ASN:ND2	2.27	0.49
30:W:6:THR:HB	30:W:49:VAL:HG22	1.94	0.49
33:Z:146:PHE:CE1	33:Z:213:LYS:HB2	2.47	0.49
33:Z:585:LEU:HD11	33:Z:600:GLU:O	2.13	0.49
33:Z:793:PHE:HB3	33:Z:830:LEU:CA	2.42	0.49
2:2:256:LYS:HG3	2:2:257:ASP:OD1	2.13	0.49
3:3:108:ASN:HB2	3:3:112:LEU:HD11	1.93	0.49
3:3:153:ILE:HD12	3:3:177:SER:HB3	1.95	0.49
2:2:252:TRP:CH2	3:3:48:ARG:HD2	2.48	0.49
3:3:12:LYS:CE	4:4:120:GLN:HB3	2.39	0.49
6:6:140:THR:O	6:6:143:LEU:N	2.46	0.49
6:6:15:LEU:O	6:6:181:VAL:HA	2.13	0.49
6:6:21:VAL:HB	6:6:29:LYS:H	1.77	0.49
7:7:243:ASP:OD2	7:7:246:SER:N	2.45	0.49
1:8:134:ASP:OD2	1:8:136:ASP:HB2	2.12	0.49
8:A:91:ARG:CZ	14:G:157:TYR:CE1	2.96	0.49
10:C:64:GLU:HG2	10:C:212:GLU:OE2	2.13	0.49
10:C:40:ALA:N	10:C:43:GLY:O	2.46	0.49
11:D:34:VAL:HG23	11:D:163:THR:HB	1.95	0.49
12:E:204:LEU:C	12:E:208:MET:HG3	2.33	0.49
14:G:46:VAL:N	14:G:219:CYS:O	2.46	0.49
15:H:176:VAL:CG2	15:H:181:TYR:H	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:95:HIS:HA	15:H:190:ARG:O	2.13	0.49
15:H:59:ILE:HA	15:H:62:ARG:HB3	1.95	0.49
16:I:171:MET:SD	16:I:245:LEU:HD22	2.53	0.49
16:I:199:GLU:HB2	16:I:236:VAL:HG13	1.95	0.49
16:I:387:LEU:HD11	16:I:420:LYS:HG3	1.94	0.49
17:J:198:LEU:CD2	17:J:316:PHE:CE2	2.95	0.49
19:L:105:ILE:HD13	19:L:147:THR:HA	1.95	0.49
19:L:216:LYS:H	19:L:344:ASP:CG	2.11	0.49
19:L:80:ASN:HA	19:L:83:ASP:CG	2.33	0.49
20:M:228:LYS:NZ	20:M:327:THR:N	2.61	0.49
20:M:260:ALA:O	20:M:264:ARG:N	2.39	0.49
20:M:413:GLU:O	20:M:417:GLU:N	2.34	0.49
21:N:335:ALA:O	21:N:338:PHE:HB2	2.13	0.49
21:N:368:THR:OG1	21:N:400:ILE:HA	2.13	0.49
22:O:149:LEU:HA	22:O:152:ASP:HB2	1.95	0.49
22:O:185:PHE:HA	22:O:189:TYR:H	1.77	0.49
22:O:189:TYR:CE2	22:O:232:GLU:OE2	2.64	0.49
22:O:302:VAL:O	22:O:305:ILE:HG13	2.13	0.49
22:O:332:ILE:HA	22:O:336:LEU:N	2.27	0.49
22:O:373:TRP:O	22:O:377:VAL:HG23	2.13	0.49
22:O:8:ASP:HB3	22:O:26:PHE:CE2	2.47	0.49
23:P:128:ASN:HD21	23:P:167:THR:HG22	1.77	0.49
23:P:168:TYR:CB	23:P:170:SER:H	2.25	0.49
23:P:281:ILE:HG23	23:P:297:GLU:OE2	2.12	0.49
23:P:299:LEU:HA	23:P:302:LEU:HD12	1.95	0.49
23:P:307:GLU:HB2	23:P:310:ARG:HG3	1.93	0.49
23:P:430:GLY:O	23:P:432:LEU:N	2.46	0.49
24:Q:109:ASP:OD1	24:Q:110:SER:N	2.46	0.49
24:Q:125:ALA:CB	24:Q:134:LYS:HB3	2.42	0.49
24:Q:305:ALA:O	24:Q:309:ARG:N	2.46	0.49
24:Q:359:ILE:HG21	24:Q:370:THR:HG23	1.94	0.49
24:Q:81:SER:HA	24:Q:84:TYR:HB2	1.94	0.49
25:R:350:LEU:HA	25:R:353:MET:HB3	1.95	0.49
26:S:146:LEU:HA	26:S:149:SER:O	2.12	0.49
26:S:310:LEU:HG	26:S:314:ASN:HD21	1.77	0.49
26:S:363:THR:O	26:S:367:TYR:N	2.31	0.49
26:S:428:ARG:HA	27:T:195:LEU:HD12	1.94	0.49
27:T:82:PHE:O	27:T:86:LYS:N	2.39	0.49
29:V:119:SER:H	29:V:122:ASP:HB2	1.77	0.49
29:V:52:LEU:O	29:V:68:VAL:HG23	2.13	0.49
29:V:54:LEU:HB2	29:V:67:ASP:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:9:VAL:HG22	30:W:52:ILE:HD11	1.94	0.49
31:X:7:VAL:HB	31:X:36:LYS:HB2	1.94	0.49
31:X:24:CYS:HB3	31:X:86:ILE:HG12	1.95	0.49
33:Z:463:HIS:CG	33:Z:464:ASP:H	2.31	0.49
33:Z:511:PRO:HA	33:Z:514:ALA:HB3	1.93	0.49
33:Z:847:ILE:O	33:Z:851:ALA:N	2.34	0.49
33:Z:916:LEU:HD22	33:Z:921:GLU:C	2.33	0.49
1:1:64:ASP:OD1	1:1:65:CYS:N	2.46	0.49
6:6:88:LEU:HD13	6:6:121:TYR:HA	1.94	0.49
7:7:87:ILE:HG13	7:7:185:PRO:HB3	1.94	0.49
1:8:122:PHE:CZ	2:9:137:ARG:NH1	2.72	0.49
2:9:256:LYS:HG3	2:9:257:ASP:OD1	2.13	0.49
9:B:148:TYR:CD1	9:B:158:PRO:HA	2.47	0.49
9:B:64:VAL:N	9:B:210:GLU:OE2	2.38	0.49
11:D:73:LEU:HG	11:D:134:LEU:O	2.13	0.49
12:E:40:ILE:HG12	12:E:169:ALA:CB	2.43	0.49
2:2:127:GLU:HG2	13:F:99:PHE:C	83.96	0.49
14:G:12:ASN:HD22	14:G:129:VAL:HG23	1.77	0.49
14:G:178:LYS:O	14:G:181:ASP:N	2.46	0.49
15:H:214:CYS:HB2	15:H:218:ILE:HD11	1.95	0.49
17:J:71:TYR:HE2	17:J:120:TYR:CZ	2.30	0.49
17:J:303:ALA:HA	17:J:306:ARG:HG3	1.95	0.49
17:J:339:ARG:NH1	25:R:206:ARG:NH2	2.61	0.49
17:J:37:LYS:O	17:J:39:GLU:N	2.44	0.49
17:J:395:GLU:HG2	17:J:396:THR:HG23	1.95	0.49
17:J:54:LYS:HB3	17:J:58:ILE:HD11	1.95	0.49
19:L:110:LYS:HG2	19:L:118:ILE:HB	1.94	0.49
19:L:165:PRO:O	19:L:168:TYR:N	2.35	0.49
19:L:282:GLU:H	19:L:326:ALA:HB3	1.78	0.49
19:L:357:ARG:HB3	19:L:391:ILE:HD11	1.95	0.49
19:L:369:LYS:O	19:L:409:HIS:HA	2.13	0.49
20:M:269:LEU:HD23	20:M:272:GLU:OE2	2.13	0.49
20:M:276:THR:CG2	20:M:321:VAL:HA	2.43	0.49
21:N:117:TYR:HA	21:N:123:PHE:CD1	2.48	0.49
21:N:703:GLN:O	21:N:707:ASN:ND2	2.45	0.49
22:O:133:ILE:HG22	22:O:137:TYR:CZ	2.48	0.49
22:O:253:GLN:O	22:O:256:ASN:HB2	2.12	0.49
22:O:81:TYR:O	22:O:84:ALA:N	2.27	0.49
23:P:114:THR:O	23:P:117:SER:HB2	2.12	0.49
23:P:158:ASP:HA	23:P:161:CYS:SG	2.52	0.49
23:P:184:MET:HG2	23:P:196:ALA:CA	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:47:ASP:OD2	24:Q:54:GLN:OE1	2.30	0.49
25:R:178:GLY:CA	25:R:183:ASP:HB2	2.42	0.49
25:R:307:TYR:O	25:R:311:THR:OG1	2.25	0.49
25:R:315:VAL:C	25:R:318:PRO:HD2	2.33	0.49
25:R:350:LEU:HD22	25:R:381:ILE:HD11	1.95	0.49
25:R:393:PRO:CB	25:R:397:ASN:HA	2.43	0.49
26:S:277:SER:OG	26:S:292:TYR:HB2	2.13	0.49
27:T:252:GLU:O	27:T:256:LYS:HB2	2.13	0.49
28:U:162:GLU:O	28:U:164:GLU:HB2	2.13	0.49
28:U:24:ARG:NH2	29:V:100:ARG:HD3	2.28	0.49
28:U:84:ASN:OD1	28:U:86:LYS:N	2.28	0.49
28:U:16:LEU:HA	29:V:209:GLU:CD	2.33	0.49
27:T:264:MET:HE3	29:V:292:ILE:HD13	1.95	0.49
29:V:28:TYR:HB2	29:V:64:ASN:HA	1.95	0.49
30:W:129:ALA:HA	30:W:161:VAL:HG22	1.95	0.49
31:X:31:GLY:N	31:X:102:GLN:OE1	2.46	0.49
33:Z:358:TYR:O	33:Z:362:LEU:N	2.43	0.49
33:Z:369:PHE:HA	33:Z:390:LEU:HD11	1.95	0.49
33:Z:463:HIS:CG	33:Z:464:ASP:N	2.81	0.49
2:2:161:ARG:HH11	2:2:171:SER:HB2	1.77	0.48
4:4:98:TYR:CE1	8:A:119:LYS:HE2	2.48	0.48
5:5:69:TYR:CD1	10:C:100:LYS:HE3	2.48	0.48
6:6:41:HIS:NE2	6:6:109:LYS:HD3	2.28	0.48
6:6:120:ASP:OD1	6:6:123:GLY:N	2.46	0.48
1:8:164:LEU:HD21	1:8:213:ARG:HB2	1.94	0.48
2:9:81:ASN:CG	2:9:122:PRO:HD3	2.33	0.48
2:9:133:MET:O	2:9:137:ARG:N	2.41	0.48
8:A:112:MET:CE	8:A:117:LEU:HB2	2.43	0.48
8:A:206:ALA:O	8:A:209:HIS:N	2.46	0.48
8:A:30:TYR:HB3	14:G:16:SER:O	2.13	0.48
9:B:171:ALA:O	9:B:175:LEU:N	2.30	0.48
10:C:124:GLN:O	11:D:127:ARG:HG2	2.13	0.48
10:C:44:ILE:HD11	10:C:146:TYR:HB3	1.95	0.48
10:C:14:SER:HG	10:C:16:GLU:HB2	1.86	0.48
9:B:6:SER:OG	11:D:4:TYR:HD1	1.96	0.48
1:1:101:LYS:HD2	12:E:108:ASN:ND2	109.63	0.48
12:E:243:LEU:O	12:E:247:GLU:HG3	2.13	0.48
12:E:84:ASP:OD1	12:E:136:ARG:NH2	2.30	0.48
14:G:170:GLN:CG	14:G:173:LYS:HZ2	2.24	0.48
15:H:173:ARG:HH21	16:I:127:ASP:N	2.11	0.48
15:H:287:GLY:O	15:H:291:VAL:HG23	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:393:SER:HB3	15:H:404:TRP:CE2	2.48	0.48
16:I:172:LYS:HZ3	16:I:234:LYS:NZ	2.10	0.48
17:J:160:ILE:HA	17:J:163:VAL:CG1	2.42	0.48
18:K:60:LEU:O	18:K:64:GLN:N	2.29	0.48
18:K:84:GLU:HB3	18:K:88:ARG:NH1	2.20	0.48
19:L:213:LYS:HD3	19:L:216:LYS:HZ3	1.77	0.48
19:L:286:ILE:HD12	19:L:304:THR:HG21	1.95	0.48
19:L:81:ILE:HG23	20:M:22:ILE:HD11	1.95	0.48
20:M:269:LEU:O	20:M:272:GLU:HB2	2.13	0.48
20:M:359:GLN:O	20:M:362:GLN:HB3	2.13	0.48
20:M:416:VAL:O	20:M:420:SER:N	2.46	0.48
21:N:86:LYS:CE	21:N:132:LYS:HE2	2.41	0.48
21:N:185:ILE:HD13	21:N:188:TYR:HD2	1.77	0.48
21:N:734:VAL:O	21:N:737:SER:OG	2.16	0.48
23:P:392:LYS:O	23:P:400:VAL:HG22	2.12	0.48
24:Q:326:MET:HG3	24:Q:332:ARG:HD3	1.94	0.48
24:Q:41:ALA:HA	24:Q:84:TYR:CD1	2.48	0.48
25:R:205:GLU:O	25:R:207:ARG:N	2.46	0.48
24:Q:379:GLN:HE22	25:R:263:ARG:NH2	2.11	0.48
25:R:337:VAL:O	25:R:340:GLN:HB2	2.13	0.48
25:R:54:ILE:HG21	25:R:63:TYR:CZ	2.48	0.48
25:R:95:ASP:OD1	25:R:98:LEU:N	2.34	0.48
26:S:184:TRP:O	26:S:187:ILE:HB	2.13	0.48
26:S:230:LYS:O	26:S:232:MET:N	2.46	0.48
26:S:336:SER:HA	26:S:339:GLN:NE2	2.22	0.48
26:S:344:PRO:HA	26:S:347:HIS:HB2	1.95	0.48
26:S:401:LYS:HG2	26:S:444:GLU:HG2	1.95	0.48
27:T:112:ASN:O	27:T:115:SER:OG	2.31	0.48
27:T:226:TRP:CE2	27:T:235:PHE:HE2	2.30	0.48
28:U:167:GLU:HG2	29:V:35:LEU:HD13	1.95	0.48
28:U:168:GLU:O	28:U:171:VAL:HB	2.12	0.48
23:P:433:ILE:HG21	28:U:206:ASP:OD2	2.13	0.48
31:X:10:PHE:HB2	31:X:33:ILE:O	2.13	0.48
33:Z:366:LYS:HA	33:Z:962:ARG:HH12	1.78	0.48
33:Z:368:VAL:HG23	33:Z:369:PHE:N	2.27	0.48
33:Z:764:LEU:HA	33:Z:767:TYR:CD2	2.48	0.48
1:1:164:LEU:O	1:1:167:PRO:HD2	2.13	0.48
1:1:48:ASN:CG	1:1:55:ASN:HB2	2.33	0.48
3:3:21:SER:HG	3:3:149:GLY:N	2.11	0.48
3:3:72:GLN:OE1	4:4:147:SER:HA	2.13	0.48
5:5:34:LEU:HD22	6:6:138:PHE:CE1	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:67:PHE:O	5:5:71:THR:N	2.31	0.48
1:8:164:LEU:O	1:8:167:PRO:HD2	2.13	0.48
7:7:100:TRP:HH2	1:8:167:PRO:HD3	1.78	0.48
1:8:89:ASN:OD1	1:8:93:TRP:NE1	2.45	0.48
2:9:36:GLN:NE2	2:9:38:ILE:HD11	2.22	0.48
2:9:81:ASN:HB2	2:9:152:VAL:O	2.13	0.48
8:A:240:ASN:O	8:A:243:GLU:HB3	2.13	0.48
9:B:69:PRO:HB2	9:B:233:PRO:HA	1.94	0.48
10:C:231:LYS:N	10:C:234:GLU:HB2	2.28	0.48
13:F:117:GLN:HE22	14:G:130:ARG:NH2	2.39	0.48
13:F:43:HIS:CE1	13:F:184:GLY:HA2	2.45	0.48
14:G:199:ILE:O	14:G:203:ALA:N	2.22	0.48
15:H:228:PRO:HG3	15:H:242:PRO:HB3	1.95	0.48
15:H:206:VAL:HG21	15:H:258:LEU:HB3	1.95	0.48
15:H:399:GLU:CA	15:H:437:VAL:HB	2.42	0.48
16:I:358:LYS:HG3	16:I:392:ILE:HD11	1.93	0.48
15:H:51:GLN:CA	16:I:92:GLU:HG2	2.37	0.48
17:J:324:ARG:HD3	17:J:353:CYS:O	2.12	0.48
17:J:368:TYR:O	17:J:372:GLU:HG2	2.13	0.48
18:K:95:VAL:CG2	18:K:139:LEU:HB2	2.43	0.48
18:K:281:ARG:NH1	18:K:290:ARG:HE	2.11	0.48
18:K:251:PRO:CG	18:K:294:ARG:HB3	2.43	0.48
19:L:197:ILE:HG22	19:L:239:ILE:HD11	1.95	0.48
19:L:279:PHE:HA	19:L:324:ILE:O	2.13	0.48
19:L:379:ALA:CB	19:L:419:VAL:HG21	2.43	0.48
20:M:162:GLU:CD	20:M:163:PHE:H	2.17	0.48
20:M:224:PRO:C	20:M:226:THR:H	2.17	0.48
20:M:402:ALA:O	20:M:407:GLN:N	2.46	0.48
21:N:424:LYS:HA	21:N:427:ILE:HD12	1.95	0.48
17:J:52:ASN:ND2	21:N:612:SER:HA	2.23	0.48
21:N:784:TYR:HB2	21:N:873:ARG:NE	2.23	0.48
21:N:94:LYS:HG3	21:N:99:GLU:OE2	2.12	0.48
22:O:51:ASP:N	22:O:51:ASP:OD1	2.45	0.48
23:P:103:TYR:CD1	23:P:106:SER:OG	2.66	0.48
23:P:151:GLY:O	23:P:153:ILE:HG13	2.13	0.48
23:P:288:ASN:CB	23:P:293:LEU:HD21	2.43	0.48
23:P:342:GLN:HE21	23:P:346:ILE:HD11	1.78	0.48
24:Q:227:CYS:HB3	24:Q:334:HIS:HE1	1.77	0.48
25:R:131:ALA:O	25:R:135:ILE:HG12	2.13	0.48
26:S:330:LEU:HB3	26:S:333:PHE:HB2	1.95	0.48
26:S:343:LEU:O	26:S:347:HIS:ND1	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:149:ASP:O	27:T:153:MET:N	2.28	0.48
27:T:265:ASP:HA	27:T:268:ILE:HD12	1.94	0.48
28:U:11:ALA:O	28:U:15:LEU:HG	2.13	0.48
29:V:139:VAL:HA	29:V:154:ASP:O	2.13	0.48
29:V:198:SER:OG	29:V:199:LEU:O	2.30	0.48
28:U:127:GLN:HG3	29:V:208:LYS:HE3	1.95	0.48
28:U:193:GLN:HE21	29:V:296:LEU:HD11	1.77	0.48
33:Z:284:LEU:HD13	33:Z:293:MET:SD	2.52	0.48
33:Z:440:LEU:HD22	33:Z:455:ILE:HD11	1.95	0.48
4:4:51:GLN:N	4:4:54:ILE:O	2.45	0.48
4:4:49:SER:HB2	4:4:60:CYS:SG	2.53	0.48
5:5:87:PHE:O	5:5:91:VAL:HG23	2.13	0.48
8:A:123:ASN:HD22	9:B:84:VAL:HG12	1.77	0.48
8:A:214:LEU:HD12	8:A:218:PHE:HZ	1.78	0.48
8:A:71:TYR:H	8:A:224:GLU:CD	2.17	0.48
8:A:25:LEU:O	8:A:28:VAL:HB	2.14	0.48
8:A:43:LEU:HD13	8:A:45:VAL:HG13	1.95	0.48
9:B:160:LYS:HB3	9:B:179:TRP:CZ2	2.48	0.48
9:B:185:LEU:HD21	9:B:213:ILE:HB	1.95	0.48
9:B:18:LEU:HB2	9:B:21:ILE:HD12	1.94	0.48
9:B:227:ILE:HG22	9:B:230:ASP:H	1.78	0.48
10:C:69:LEU:O	10:C:92:ARG:HG2	2.14	0.48
12:E:117:CYS:HB3	12:E:162:GLY:O	2.13	0.48
13:F:121:GLN:CG	14:G:130:ARG:O	3.83	0.48
13:F:154:THR:HA	14:G:64:ASN:OD1	2.13	0.48
13:F:172:LEU:O	13:F:175:THR:N	2.46	0.48
15:H:208:TYR:HA	15:H:211:VAL:HG21	1.94	0.48
17:J:387:GLY:O	17:J:391:ASN:N	2.46	0.48
18:K:326:PRO:HA	18:K:329:LEU:CB	2.42	0.48
18:K:404:GLN:HE21	18:K:408:GLU:HG2	1.77	0.48
19:L:221:TYR:O	19:L:349:ILE:N	2.46	0.48
20:M:77:TYR:CG	20:M:147:GLY:HA2	2.49	0.48
20:M:21:GLU:O	20:M:25:LEU:HG	2.13	0.48
15:H:145:TYR:CD1	20:M:75:LEU:HD12	2.47	0.48
22:O:287:LEU:C	22:O:291:ILE:HG12	2.33	0.48
23:P:104:LEU:O	23:P:107:SER:CA	2.61	0.48
23:P:160:LEU:HG	23:P:183:GLN:HG3	1.95	0.48
23:P:73:ASP:O	23:P:76:ASN:HB3	2.13	0.48
24:Q:170:ASP:HB3	24:Q:172:PRO:HG2	1.96	0.48
24:Q:202:ARG:NH2	24:Q:218:LEU:HB3	2.28	0.48
24:Q:344:GLU:CD	24:Q:376:LYS:HE2	2.33	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:400:TYR:CG	24:Q:401:GLU:N	2.80	0.48
24:Q:418:GLN:CA	24:Q:421:LYS:HZ1	2.25	0.48
24:Q:66:VAL:HG22	24:Q:71:LYS:HD3	1.94	0.48
25:R:215:GLY:C	25:R:223:ASN:HD21	2.13	0.48
25:R:334:ARG:HH12	25:R:368:LEU:N	2.10	0.48
27:T:7:LEU:O	27:T:10:SER:OG	2.18	0.48
29:V:257:GLU:OE1	29:V:284:ALA:HA	2.13	0.48
30:W:35:PHE:CD2	30:W:182:TYR:HB2	2.48	0.48
32:Y:84:TYR:HD1	32:Y:87:GLU:OE1	1.97	0.48
33:Z:116:ALA:O	33:Z:137:TYR:HB3	2.13	0.48
33:Z:272:TYR:O	33:Z:275:GLN:N	2.46	0.48
33:Z:445:PRO:O	33:Z:449:ALA:N	2.32	0.48
33:Z:460:SER:OG	33:Z:905:ASN:HB3	2.13	0.48
33:Z:918:ASP:HA	33:Z:973:TYR:OH	2.13	0.48
33:Z:987:PRO:HB3	33:Z:990:ARG:NH2	2.26	0.48
1:1:145:ASP:O	1:1:148:GLY:N	2.36	0.48
1:1:167:PRO:HB2	5:5:149:MET:SD	2.53	0.48
1:1:49:ILE:HA	1:1:54:ILE:HA	1.94	0.48
1:1:67:ASP:CG	1:1:102:LYS:HG3	2.34	0.48
2:2:61:GLY:HA3	2:2:72:VAL:HG21	1.95	0.48
4:4:60:CYS:C	4:4:217:ARG:HH12	2.17	0.48
5:5:53:ILE:HG23	5:5:106:GLY:O	2.14	0.48
5:5:8:ASN:OD1	5:5:56:LEU:HA	2.13	0.48
6:6:109:LYS:HZ2	6:6:186:LYS:HA	1.77	0.48
6:6:115:GLU:HA	6:6:127:GLU:OE2	2.12	0.48
6:6:39:SER:HB2	6:6:74:GLU:HG3	1.94	0.48
6:6:41:HIS:O	6:6:107:TYR:N	2.36	0.48
7:7:94:ARG:HG3	7:7:104:GLN:OE1	2.14	0.48
1:8:48:ASN:CG	1:8:55:ASN:HB2	2.33	0.48
2:9:152:VAL:HG11	2:9:235:LYS:HA	1.94	0.48
8:A:80:GLY:HA3	8:A:233:PHE:CE2	2.48	0.48
9:B:220:ASP:OD1	9:B:221:LEU:HG	2.13	0.48
4:4:93:GLU:CD	9:B:94:HIS:HE2	2.15	0.48
10:C:108:VAL:HG21	10:C:139:GLY:HA3	1.96	0.48
11:D:227:GLU:CD	11:D:227:GLU:H	2.15	0.48
12:E:244:LYS:HZ3	12:E:244:LYS:HB2	1.78	0.48
2:9:120:LEU:HD23	13:F:101:ARG:NH1	2.28	0.48
12:E:180:GLN:HE21	13:F:56:LEU:HD22	2.20	0.48
14:G:194:LYS:HB3	14:G:242:PHE:CE1	2.49	0.48
15:H:416:GLY:HA2	15:H:419:LEU:HD12	1.95	0.48
16:I:112:ILE:HD12	16:I:143:PRO:HD3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:421:SER:HB3	16:I:341:PRO:C	2.33	0.48
17:J:186:ILE:CD1	17:J:297:LEU:HD21	2.43	0.48
17:J:283:GLU:N	17:J:283:GLU:OE1	2.31	0.48
17:J:198:LEU:CD1	17:J:316:PHE:CD2	2.96	0.48
18:K:243:VAL:H	19:L:256:ILE:HD13	1.78	0.48
19:L:109:MET:O	19:L:142:LYS:HG3	2.13	0.48
19:L:284:ASP:HB3	20:M:293:SER:CA	2.42	0.48
19:L:85:GLU:HA	19:L:88:TYR:CE2	2.48	0.48
20:M:286:ILE:O	20:M:305:MET:HB2	2.14	0.48
20:M:201:MET:HA	20:M:319:ASP:HB2	1.94	0.48
20:M:386:PHE:HB3	20:M:390:GLN:HB2	1.95	0.48
21:N:75:TYR:HB3	21:N:104:LYS:HG2	1.94	0.48
21:N:327:LEU:O	21:N:330:THR:HB	2.13	0.48
21:N:402:GLY:HA2	21:N:405:LEU:HD12	1.95	0.48
21:N:888:ASP:OD2	21:N:905:LEU:HD21	2.14	0.48
22:O:215:TYR:HB2	22:O:248:TYR:CE1	2.49	0.48
22:O:382:LYS:HB3	27:T:262:LYS:HZ1	1.77	0.48
23:P:213:TYR:CD2	23:P:216:LEU:HD12	2.48	0.48
23:P:419:VAL:HG12	23:P:423:LEU:HD11	1.94	0.48
24:Q:123:GLU:O	24:Q:126:LYS:N	2.45	0.48
25:R:422:ARG:HH21	28:U:300:LYS:HG3	1.78	0.48
27:T:170:ASN:N	27:T:174:PHE:HB3	2.29	0.48
27:T:198:ASP:O	27:T:235:PHE:HD1	1.97	0.48
27:T:200:LEU:HD12	27:T:201:PRO:HD2	1.95	0.48
27:T:213:ASN:ND2	27:T:215:LYS:HB2	2.29	0.48
28:U:37:ILE:HA	28:U:51:SER:HA	1.96	0.48
29:V:289:GLU:C	29:V:291:ASN:N	2.66	0.48
30:W:13:SER:O	30:W:17:ARG:HG2	2.13	0.48
33:Z:546:ILE:HA	33:Z:549:ASN:HB2	1.95	0.48
33:Z:925:VAL:HG23	33:Z:992:GLU:O	2.13	0.48
3:3:103:GLU:O	3:3:107:GLU:HG2	2.14	0.48
4:4:30:THR:HG23	4:4:62:LYS:HZ2	1.77	0.48
5:5:8:ASN:OD1	5:5:57:ALA:N	2.32	0.48
6:6:82:SER:N	6:6:125:LYS:NZ	2.61	0.48
6:6:36:ARG:C	6:6:43:LEU:HD12	2.34	0.48
7:7:84:GLN:HA	7:7:221:TRP:CE2	2.49	0.48
2:9:78:VAL:O	2:9:82:THR:HB	2.12	0.48
8:A:126:GLN:NE2	9:B:80:PRO:O	2.46	0.48
10:C:198:SER:N	10:C:206:LEU:HD22	2.29	0.48
9:B:13:SER:O	10:C:24:TYR:HB3	2.13	0.48
11:D:116:VAL:HG12	11:D:129:PHE:CE2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D:176:GLU:HG2	12:E:58:LEU:HG	3.02	0.48
11:D:6:ARG:HA	12:E:125:GLU:CD	2.34	0.48
11:D:124:GLY:N	12:E:135:SER:HB3	2.29	0.48
11:D:10:ILE:HB	12:E:23:GLN:NE2	2.29	0.48
12:E:69:GLU:OE2	12:E:71:ASP:C	2.52	0.48
13:F:134:ILE:N	13:F:145:LEU:O	2.41	0.48
13:F:94:TYR:O	13:F:97:LEU:HB2	2.14	0.48
14:G:71:ASP:OD2	14:G:73:HIS:CE1	2.67	0.48
14:G:86:ARG:HA	14:G:89:VAL:HB	1.96	0.48
15:H:228:PRO:HB3	15:H:235:PHE:CE2	2.48	0.48
15:H:389:PHE:HB3	15:H:404:TRP:CD2	2.48	0.48
15:H:69:VAL:HG13	16:I:153:THR:CB	2.44	0.48
16:I:389:GLY:O	16:I:392:ILE:HB	2.14	0.48
18:K:218:GLY:HA2	18:K:221:MET:HB2	1.95	0.48
18:K:158:ILE:HD13	18:K:253:MET:HG2	1.95	0.48
18:K:370:SER:O	18:K:374:ARG:HG2	2.13	0.48
18:K:390:ALA:HB2	18:K:407:LEU:HA	1.95	0.48
19:L:219:LEU:HD11	19:L:327:THR:HG22	1.95	0.48
20:M:149:ASN:H	20:M:156:LEU:HG	1.78	0.48
20:M:156:LEU:HA	20:M:156:LEU:HD23	1.54	0.48
21:N:136:ILE:O	21:N:140:MET:N	2.38	0.48
21:N:217:MET:SD	21:N:244:LYS:HD2	2.53	0.48
21:N:236:GLY:O	21:N:240:GLN:HG3	2.14	0.48
21:N:371:LEU:O	21:N:374:ILE:N	2.47	0.48
21:N:715:ILE:HG23	21:N:752:SER:OG	2.13	0.48
21:N:750:SER:HA	21:N:753:PHE:CZ	2.49	0.48
22:O:79:VAL:HG21	22:O:131:SER:OG	2.13	0.48
22:O:23:HIS:CE1	22:O:25:LEU:HG	2.48	0.48
23:P:124:VAL:C	23:P:136:ARG:HB3	2.33	0.48
22:O:341:ILE:HB	23:P:356:TYR:O	2.13	0.48
24:Q:133:LEU:HD22	24:Q:136:SER:OG	2.13	0.48
24:Q:139:ILE:O	24:Q:143:THR:N	2.37	0.48
24:Q:222:SER:HB3	24:Q:226:HIS:HD2	1.79	0.48
23:P:392:LYS:NZ	24:Q:356:CYS:HB2	2.27	0.48
24:Q:358:GLU:HB3	24:Q:361:HIS:CD2	2.48	0.48
24:Q:8:LEU:CD1	24:Q:57:SER:HB3	2.43	0.48
25:R:255:VAL:O	25:R:258:LEU:HB3	2.14	0.48
25:R:365:ASP:HA	25:R:368:LEU:HB3	1.94	0.48
26:S:210:LEU:O	26:S:214:MET:HG2	2.13	0.48
26:S:266:SER:HA	26:S:269:GLU:OE1	2.14	0.48
26:S:401:LYS:HA	26:S:445:THR:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:29:PRO:O	27:T:33:GLU:HG2	2.14	0.48
28:U:18:ALA:O	28:U:21:HIS:HB2	2.13	0.48
29:V:248:ALA:O	29:V:251:TYR:HB2	2.13	0.48
29:V:25:GLU:O	29:V:200:ASN:HB2	2.13	0.48
30:W:144:PHE:HE1	30:W:176:PRO:HB3	1.78	0.48
30:W:180:LEU:HB2	30:W:183:GLU:CB	2.43	0.48
30:W:37:PHE:HA	30:W:40:LYS:HB2	1.94	0.48
30:W:57:ALA:C	30:W:86:HIS:CE1	2.86	0.48
31:X:63:PRO:HG2	31:X:65:SER:O	2.14	0.48
33:Z:208:VAL:HG22	33:Z:232:LYS:HG2	1.94	0.48
33:Z:611:THR:HG21	33:Z:616:LEU:HD11	1.96	0.48
1:1:54:ILE:O	2:2:189:ARG:NH2	2.41	0.48
2:2:145:ASN:N	2:2:165:LEU:HD23	2.28	0.48
4:4:163:ALA:O	4:4:167:LEU:HG	2.13	0.48
4:4:216:LEU:HB2	4:4:219:TYR:HB2	1.94	0.48
5:5:27:LEU:HD11	5:5:186:VAL:HB	1.96	0.48
5:5:76:LEU:C	10:C:92:ARG:NH1	2.66	0.48
6:6:116:LEU:O	6:6:127:GLU:HG3	2.12	0.48
6:6:80:VAL:O	6:6:84:VAL:HG23	2.13	0.48
7:7:76:THR:HG23	7:7:108:LYS:HZ2	1.79	0.48
7:7:218:ASN:HB2	7:7:231:LEU:HD11	1.95	0.48
7:7:83:PHE:N	7:7:86:GLY:O	2.36	0.48
1:8:224:LEU:HG	1:8:233:LYS:HG2	1.94	0.48
1:8:50:THR:N	1:8:53:SER:O	2.34	0.48
2:9:161:ARG:HH11	2:9:171:SER:HB2	1.77	0.48
2:9:90:ILE:HG22	2:9:94:GLN:HG3	1.95	0.48
8:A:63:LEU:HD11	14:G:177:GLU:HG3	2.33	0.48
9:B:41:ASN:ND2	9:B:184:GLU:HG2	2.28	0.48
10:C:13:PHE:HB3	10:C:17:GLY:HA2	1.96	0.48
12:E:36:THR:OG1	12:E:174:SER:OG	2.30	0.48
11:D:11:PHE:N	12:E:23:GLN:HE22	2.11	0.48
12:E:244:LYS:HB2	12:E:244:LYS:NZ	2.28	0.48
14:G:128:SER:O	14:G:130:ARG:N	3.04	0.48
13:F:158:GLY:O	14:G:58:LEU:HB3	2.13	0.48
15:H:322:GLY:CA	20:M:253:GLN:HA	2.44	0.48
15:H:406:LEU:O	15:H:409:ARG:HB2	2.13	0.48
15:H:419:LEU:O	15:H:422:VAL:HB	2.13	0.48
16:I:252:LEU:CD1	16:I:252:LEU:H	2.15	0.48
17:J:99:ALA:H	17:J:122:LEU:HB2	1.79	0.48
18:K:177:LEU:C	18:K:181:LYS:HE2	2.34	0.48
18:K:251:PRO:O	18:K:255:ARG:N	2.36	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:136:ASP:O	19:L:140:LEU:HG	2.14	0.48
19:L:282:GLU:OE1	19:L:328:ASN:N	2.47	0.48
20:M:351:LEU:HD22	20:M:387:ASN:N	2.29	0.48
21:N:207:LEU:O	21:N:210:SER:OG	2.31	0.48
21:N:759:ILE:O	21:N:761:ILE:HG12	2.13	0.48
21:N:876:PRO:O	21:N:879:SER:HB2	2.13	0.48
22:O:47:LYS:O	22:O:50:ASP:N	2.47	0.48
23:P:145:GLU:O	23:P:149:GLU:HG3	2.13	0.48
23:P:254:GLU:OE2	23:P:288:ASN:CG	2.51	0.48
23:P:245:TYR:HE1	23:P:257:TRP:O	1.97	0.48
23:P:378:THR:O	23:P:381:SER:N	2.47	0.48
24:Q:90:LYS:NZ	24:Q:129:LYS:HE3	2.28	0.48
25:R:156:LYS:O	25:R:160:LYS:HG2	2.14	0.48
27:T:84:GLN:O	27:T:87:PRO:HD2	2.14	0.48
29:V:138:ALA:O	29:V:155:ALA:HA	2.14	0.48
31:X:78:ILE:HD11	31:X:86:ILE:O	2.13	0.48
33:Z:176:GLU:OE2	33:Z:178:SER:OG	2.32	0.48
33:Z:205:LEU:O	33:Z:209:PRO:HD2	2.12	0.48
33:Z:286:VAL:HG23	33:Z:287:ARG:HG3	1.95	0.48
33:Z:592:GLU:HA	33:Z:596:THR:HG21	1.96	0.48
33:Z:833:GLN:NE2	33:Z:836:SER:OG	2.47	0.48
1:1:47:ARG:NH2	1:1:218:GLY:HA3	2.29	0.48
1:1:68:ASN:OD1	1:1:226:VAL:HG13	2.14	0.48
2:2:45:ILE:HG22	2:2:176:ALA:HB1	1.96	0.48
7:7:120:MET:HE1	7:7:128:GLN:HB2	1.96	0.48
7:7:86:GLY:HA3	7:7:254:HIS:NE2	2.29	0.48
1:8:197:GLU:HA	1:8:200:ILE:HB	1.95	0.48
1:8:64:ASP:OD1	1:8:65:CYS:N	2.46	0.48
1:8:67:ASP:CG	1:8:102:LYS:HG3	2.34	0.48
8:A:242:GLU:HA	8:A:245:LEU:HB2	1.96	0.48
12:E:243:LEU:O	12:E:247:GLU:CG	2.62	0.48
13:F:171:TYR:CD2	13:F:199:GLN:HG3	2.49	0.48
8:A:63:LEU:HB3	14:G:162:GLY:O	2.14	0.48
15:H:206:VAL:HG21	15:H:258:LEU:HD22	1.95	0.48
15:H:280:VAL:HG21	15:H:314:VAL:HA	1.95	0.48
15:H:200:VAL:CG1	15:H:301:LYS:HZ3	2.14	0.48
15:H:328:GLU:HA	15:H:331:ARG:HB3	1.96	0.48
16:I:273:GLU:O	33:Z:791:LYS:HG2	2.13	0.48
17:J:156:GLN:HE22	17:J:314:ILE:CG2	2.27	0.48
17:J:62:LEU:HA	17:J:65:LEU:HD12	1.96	0.48
18:K:128:ARG:HG3	18:K:129:GLU:N	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:303:MET:O	18:K:333:ARG:NE	2.46	0.48
17:J:31:GLU:HG3	18:K:55:GLU:OE1	2.14	0.48
19:L:105:ILE:HD12	19:L:159:LEU:CD1	2.44	0.48
19:L:145:ARG:NE	19:L:161:ARG:HA	2.18	0.48
19:L:254:LYS:HA	19:L:300:GLU:OE2	2.14	0.48
19:L:393:ASN:O	19:L:397:GLU:N	2.44	0.48
20:M:267:PHE:CD1	20:M:311:GLN:HB3	2.48	0.48
20:M:373:ASP:CB	20:M:411:LYS:HB2	2.33	0.48
21:N:124:TYR:C	21:N:162:ARG:HH12	2.17	0.48
21:N:137:PHE:HD2	21:N:138:GLU:HG3	1.78	0.48
18:K:49:PHE:CE1	21:N:151:LYS:HB3	2.49	0.48
21:N:313:LEU:O	21:N:316:LYS:HB3	2.14	0.48
21:N:362:TRP:CE2	21:N:742:TRP:HH2	2.31	0.48
21:N:460:ILE:HG13	21:N:461:GLU:N	2.28	0.48
21:N:57:ASP:O	21:N:59:GLU:N	2.47	0.48
22:O:262:ASP:C	22:O:284:GLU:OE2	2.52	0.48
22:O:330:ARG:HA	22:O:333:SER:HB2	1.96	0.48
22:O:62:TYR:CD1	22:O:82:LEU:HD13	2.49	0.48
23:P:104:LEU:C	23:P:107:SER:HB2	2.34	0.48
23:P:116:ILE:CA	23:P:119:ILE:HG12	2.44	0.48
23:P:123:ARG:HB3	23:P:128:ASN:N	2.29	0.48
24:Q:322:GLU:HA	24:Q:325:LEU:HB3	1.96	0.48
24:Q:34:ASP:HB3	24:Q:50:ARG:HG2	1.95	0.48
24:Q:7:LYS:NZ	24:Q:33:LYS:CB	2.76	0.48
25:R:207:ARG:HB3	25:R:211:LYS:NZ	2.27	0.48
26:S:322:LEU:C	26:S:325:GLY:H	2.17	0.48
26:S:349:THR:HA	26:S:352:VAL:HB	1.96	0.48
27:T:10:SER:OG	27:T:11:LEU:N	2.46	0.48
27:T:183:SER:O	27:T:186:ARG:N	2.46	0.48
27:T:252:GLU:H	27:T:256:LYS:CD	2.26	0.48
27:T:99:SER:H	27:T:102:LYS:HD3	1.78	0.48
28:U:130:VAL:HG11	28:U:198:LYS:NZ	2.29	0.48
28:U:165:GLU:O	28:U:169:ILE:HG13	2.14	0.48
28:U:7:LYS:O	28:U:45:THR:HA	2.14	0.48
29:V:52:LEU:HD11	29:V:88:GLN:OE1	2.14	0.48
29:V:86:VAL:HG12	29:V:90:LYS:HE3	1.96	0.48
30:W:3:LEU:HA	30:W:47:ASN:ND2	2.29	0.48
28:U:65:VAL:HG22	30:W:93:ILE:HG13	1.94	0.48
31:X:48:PHE:HD2	31:X:66:LEU:HB3	1.75	0.48
32:Y:85:LYS:O	32:Y:88:ASN:HB2	2.13	0.48
33:Z:550:PHE:CB	33:Z:587:THR:HG23	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:834:LEU:HA	33:Z:837:TYR:HB2	1.95	0.48
2:2:97:GLU:HA	2:2:100:LEU:HD12	1.95	0.48
2:2:187:LEU:O	2:2:191:VAL:HG23	2.14	0.48
4:4:67:SER:N	4:4:70:ILE:O	2.45	0.48
5:5:100:PHE:C	5:5:102:PRO:HD3	2.34	0.48
6:6:143:LEU:HD22	6:6:147:HIS:CE1	2.48	0.48
6:6:167:GLU:O	6:6:171:ARG:N	2.30	0.48
6:6:19:LYS:CG	6:6:180:ILE:HG13	2.44	0.48
6:6:9:VAL:HB	6:6:152:MET:O	2.13	0.48
7:7:127:CYS:HB3	7:7:131:GLU:OE2	2.14	0.48
7:7:219:TYR:OH	7:7:221:TRP:HA	2.13	0.48
2:9:145:ASN:N	2:9:165:LEU:HD23	2.28	0.48
8:A:127:ILE:O	8:A:130:GLN:N	2.46	0.48
8:A:27:GLN:NE2	14:G:14:VAL:HG13	2.28	0.48
11:D:237:GLU:O	11:D:240:LYS:HB3	2.14	0.48
11:D:56:ASP:CG	11:D:58:ARG:HE	2.17	0.48
11:D:68:ASP:N	11:D:71:VAL:O	2.30	0.48
12:E:212:LEU:CD2	12:E:240:ILE:HG12	2.43	0.48
13:F:176:LEU:HD22	14:G:57:LYS:HE3	1.94	0.48
13:F:23:GLU:HA	13:F:26:LEU:HB2	1.96	0.48
8:A:68:THR:CG2	14:G:159:GLY:HA3	2.31	0.48
14:G:91:ARG:HA	14:G:94:GLU:OE2	2.14	0.48
15:H:299:ARG:HD3	15:H:345:PRO:HD3	1.96	0.48
15:H:385:ARG:HH11	15:H:413:ASN:HA	1.77	0.48
15:H:415:THR:O	15:H:419:LEU:HG	2.13	0.48
16:I:318:ASP:OD2	16:I:322:VAL:HB	2.13	0.48
17:J:29:GLU:HB3	17:J:32:LEU:HD12	1.96	0.48
18:K:69:LYS:O	18:K:73:ARG:HG3	2.13	0.48
18:K:71:GLU:OE2	21:N:608:LEU:HB3	2.13	0.48
18:K:71:GLU:HG2	18:K:75:LEU:CD1	2.44	0.48
19:L:115:GLU:H	19:L:137:ARG:HH21	1.62	0.48
19:L:189:GLN:NE2	19:L:348:GLU:O	2.46	0.48
20:M:386:PHE:HA	20:M:390:GLN:OE1	2.14	0.48
20:M:79:VAL:HG11	20:M:145:LEU:HD22	1.96	0.48
21:N:155:GLY:O	21:N:158:LEU:HB3	2.13	0.48
21:N:180:SER:O	21:N:183:VAL:HB	2.13	0.48
21:N:223:LEU:HD12	21:N:226:ASN:HD22	1.78	0.48
21:N:309:ILE:HG22	21:N:311:ILE:H	1.78	0.48
21:N:434:SER:HB3	21:N:439:VAL:HG11	1.96	0.48
21:N:95:SER:HB2	26:S:219:LYS:HZ1	1.78	0.48
23:P:306:ASN:HD22	23:P:349:ASN:N	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:425:HIS:CD2	28:U:232:VAL:HB	2.49	0.48
24:Q:75:ARG:HD3	24:Q:113:ASP:CG	2.33	0.48
24:Q:348:CYS:O	24:Q:351:ILE:HG12	2.14	0.48
24:Q:62:GLY:HA2	24:Q:65:TYR:CD2	2.49	0.48
24:Q:70:ALA:O	24:Q:74:LEU:N	2.30	0.48
25:R:154:LEU:HB2	25:R:173:THR:HG21	1.96	0.48
25:R:381:ILE:HA	25:R:387:ILE:O	2.14	0.48
25:R:381:ILE:H	26:S:398:THR:HG22	1.79	0.48
26:S:277:SER:HA	26:S:289:ALA:HA	1.94	0.48
28:U:77:ASN:HB3	28:U:81:LYS:HZ3	1.73	0.48
24:Q:408:THR:HA	29:V:255:ILE:CD1	2.44	0.48
29:V:48:GLU:HG3	29:V:110:SER:O	2.14	0.48
31:X:36:LYS:O	31:X:38:ASN:N	2.47	0.48
33:Z:535:VAL:HG11	33:Z:879:ALA:HB2	1.95	0.48
33:Z:925:VAL:O	33:Z:958:ASN:HA	2.14	0.48
1:1:28:GLY:HA3	1:1:49:ILE:HD11	1.96	0.48
2:2:111:ASN:HD21	2:2:118:GLU:HB3	1.79	0.48
3:3:119:ALA:HA	3:3:128:GLU:O	2.13	0.48
5:5:11:ILE:H	5:5:26:ASP:CG	2.16	0.48
1:1:178:GLN:HA	5:5:169:GLN:NE2	2.29	0.48
5:5:28:ARG:CB	5:5:183:TRP:HB2	2.39	0.48
5:5:78:GLU:OE2	9:B:109:LEU:HD11	2.13	0.48
6:6:56:PHE:O	6:6:60:ILE:HG12	2.14	0.48
7:7:113:ASN:OD1	7:7:115:PHE:HB2	2.12	0.48
7:7:78:THR:O	7:7:204:VAL:N	2.29	0.48
1:8:35:ALA:HB2	1:8:141:VAL:HG23	1.96	0.48
2:9:111:ASN:HD21	2:9:118:GLU:HB3	1.79	0.48
8:A:219:SER:HA	8:A:245:LEU:HD21	1.96	0.48
9:B:1:MET:HG2	9:B:2:THR:N	2.23	0.48
11:D:56:ASP:CG	11:D:58:ARG:HH21	2.14	0.48
14:G:12:ASN:O	14:G:21:ASN:ND2	2.47	0.48
15:H:170:GLU:N	15:H:174:VAL:HG22	2.29	0.48
15:H:276:GLY:HA2	15:H:279:LEU:HD12	1.95	0.48
16:I:259:ASP:HA	16:I:262:ARG:HB3	1.96	0.48
17:J:75:VAL:HB	17:J:111:GLN:HB3	1.94	0.48
17:J:198:LEU:HD21	17:J:316:PHE:CE2	2.48	0.48
16:I:105:SER:HA	17:J:94:TYR:HD1	1.78	0.48
19:L:251:ILE:HG23	19:L:262:ILE:HB	1.96	0.48
18:K:243:VAL:N	19:L:256:ILE:HD13	2.28	0.48
19:L:105:ILE:HG13	20:M:118:VAL:CG1	2.44	0.48
20:M:78:LEU:CG	20:M:150:LYS:HE2	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:187:ASN:O	21:N:191:THR:N	2.40	0.48
21:N:18:ASP:OD1	21:N:21:LYS:HD2	2.14	0.48
21:N:163:LEU:HD22	21:N:209:LYS:HE3	1.95	0.48
21:N:213:PHE:HA	21:N:216:ASN:ND2	2.29	0.48
21:N:361:ASN:HB3	21:N:399:PHE:HD2	1.71	0.48
21:N:739:PHE:O	21:N:742:TRP:C	2.52	0.48
21:N:89:PHE:CE1	21:N:98:VAL:HG13	2.47	0.48
22:O:164:PRO:O	22:O:167:ILE:HG22	2.14	0.48
22:O:189:TYR:CE1	22:O:217:LEU:HG	2.49	0.48
22:O:220:SER:HA	22:O:223:LEU:HB2	1.95	0.48
22:O:29:PHE:O	22:O:32:PHE:HB3	2.13	0.48
22:O:326:HIS:O	22:O:330:ARG:HG2	2.14	0.48
23:P:256:LYS:O	23:P:259:PRO:HD2	2.14	0.48
23:P:283:LYS:HB2	23:P:286:ASN:CB	2.44	0.48
23:P:292:LYS:HD2	23:P:295:SER:OG	2.14	0.48
23:P:299:LEU:HA	23:P:302:LEU:HB2	1.95	0.48
23:P:360:ILE:HG21	23:P:365:LEU:HD21	1.96	0.48
25:R:134:TRP:O	25:R:137:LEU:HB3	2.14	0.48
25:R:259:PHE:CD1	25:R:333:MET:HG2	2.48	0.48
25:R:296:LEU:HB2	25:R:304:TYR:CD1	2.49	0.48
25:R:37:LYS:HG3	25:R:38:VAL:N	2.28	0.48
25:R:372:ILE:CG1	26:S:395:ILE:HG22	2.41	0.48
26:S:401:LYS:HA	26:S:444:GLU:HA	1.95	0.48
26:S:437:ASN:HB2	26:S:440:ASP:CG	2.33	0.48
26:S:438:HIS:C	26:S:441:GLY:H	2.17	0.48
29:V:50:MET:HG3	29:V:109:HIS:HE1	1.78	0.48
29:V:86:VAL:CG1	29:V:90:LYS:HE3	2.43	0.48
30:W:170:HIS:CG	30:W:171:LEU:N	2.82	0.48
31:X:48:PHE:CD2	31:X:99:PHE:HZ	2.31	0.48
33:Z:390:LEU:HD23	33:Z:391:ASN:HD21	1.78	0.48
1:1:179:TYR:CD1	1:1:185:GLY:HA2	2.49	0.48
3:3:38:ARG:C	3:3:52:LYS:HZ3	2.11	0.48
5:5:23:ILE:HG22	5:5:188:TYR:HB2	1.96	0.48
5:5:85:GLU:O	5:5:88:THR:HB	2.14	0.48
6:6:111:LYS:O	6:6:113:LYS:HG3	2.14	0.48
2:9:107:ASN:HD22	2:9:120:LEU:HG	1.78	0.48
8:A:207:ILE:CD1	8:A:244:ARG:HB3	2.39	0.48
9:B:181:ASP:OD1	9:B:182:GLU:N	2.47	0.48
11:D:117:GLN:O	11:D:121:THR:HG23	2.14	0.48
11:D:195:THR:O	11:D:198:SER:OG	2.22	0.48
12:E:203:ILE:HA	12:E:206:GLN:OE1	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G:140:GLY:O	14:G:147:HIS:N	2.45	0.48
14:G:49:ALA:HA	14:G:216:ILE:HA	1.96	0.48
15:H:289:ARG:O	15:H:292:ARG:HB2	2.14	0.48
15:H:330:GLN:HG3	15:H:334:LEU:HG	1.94	0.48
15:H:55:ASP:HA	16:I:99:ILE:HD11	1.95	0.48
16:I:93:LYS:O	16:I:96:LEU:HB3	2.14	0.48
17:J:160:ILE:CG2	17:J:202:VAL:HG21	2.44	0.48
17:J:319:PRO:O	17:J:320:SER:HB3	2.14	0.48
17:J:331:HIS:HD2	17:J:358:VAL:CG1	2.27	0.48
17:J:369:ALA:HB1	17:J:374:ARG:HB2	1.95	0.48
17:J:386:VAL:O	17:J:390:MET:N	2.23	0.48
17:J:76:ILE:H	17:J:86:VAL:HA	1.79	0.48
18:K:219:LYS:HZ3	18:K:318:THR:C	2.16	0.48
18:K:75:LEU:HA	18:K:78:GLU:HB2	1.95	0.48
21:N:138:GLU:O	21:N:142:GLU:HG3	2.13	0.48
21:N:183:VAL:O	21:N:186:ILE:HB	2.12	0.48
21:N:176:GLN:CD	21:N:218:PRO:HD2	2.34	0.48
21:N:455:MET:C	21:N:457:SER:H	2.17	0.48
21:N:55:PHE:CZ	21:N:57:ASP:HB2	2.49	0.48
21:N:612:SER:OG	21:N:618:ARG:HG3	2.13	0.48
21:N:630:ALA:O	21:N:663:ILE:HA	2.14	0.48
21:N:6:ALA:O	21:N:10:LEU:HG	2.14	0.48
21:N:302:PHE:CD1	21:N:757:THR:HA	2.49	0.48
21:N:861:TYR:HB2	21:N:881:TYR:CE1	2.48	0.48
22:O:301:PHE:CE2	22:O:308:LEU:N	2.82	0.48
22:O:309:SER:HA	22:O:310:PHE:HA	1.61	0.48
23:P:133:GLU:CG	23:P:137:ALA:HB2	2.44	0.48
23:P:184:MET:O	23:P:187:SER:HB2	2.14	0.48
23:P:315:GLN:OE1	23:P:338:TRP:HD1	1.97	0.48
24:Q:162:LEU:C	24:Q:166:LYS:HG3	2.35	0.48
24:Q:2:SER:N	24:Q:7:LYS:HG3	2.29	0.48
25:R:158:LEU:HD12	25:R:161:ALA:HB3	1.96	0.48
25:R:178:GLY:CA	25:R:187:VAL:HG21	2.44	0.48
25:R:276:LEU:O	25:R:280:ILE:N	2.45	0.48
26:S:156:VAL:HG22	26:S:188:TYR:HE1	1.78	0.48
26:S:181:ALA:HA	26:S:184:TRP:CD2	2.49	0.48
26:S:273:PHE:CA	26:S:276:LEU:HB3	2.42	0.48
26:S:282:ILE:O	26:S:284:LEU:HG	2.14	0.48
26:S:333:PHE:O	26:S:342:LEU:HD22	2.14	0.48
26:S:425:ARG:HD2	27:T:156:SER:HB2	1.96	0.48
27:T:262:LYS:O	27:T:266:TYR:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:104:LEU:HA	28:U:107:ASN:ND2	2.28	0.48
33:Z:104:ASP:O	33:Z:106:TRP:HD1	1.97	0.48
33:Z:393:GLY:HA2	33:Z:427:GLN:HB3	1.96	0.48
33:Z:917:ASN:CG	33:Z:918:ASP:H	2.17	0.48
1:1:130:ILE:HG12	1:1:142:TYR:HB2	1.96	0.47
1:1:181:PRO:HA	4:4:237:GLY:CA	2.44	0.47
1:1:209:SER:O	1:1:212:GLU:HB2	2.14	0.47
1:1:35:ALA:HB2	1:1:141:VAL:HG23	1.96	0.47
2:2:81:ASN:HB2	2:2:152:VAL:O	2.13	0.47
2:2:133:MET:HE2	2:2:165:LEU:HA	1.95	0.47
3:3:25:VAL:HA	3:3:143:TYR:HA	1.95	0.47
4:4:225:ARG:NH1	5:5:151:GLU:O	2.40	0.47
4:4:230:LYS:NZ	4:4:232:TYR:CD1	2.75	0.47
4:4:30:THR:HA	4:4:46:ASP:OD2	2.13	0.47
5:5:143:SER:O	5:5:146:LEU:HB2	2.14	0.47
7:7:138:CYS:O	7:7:142:GLU:N	2.29	0.47
7:7:180:THR:N	7:7:184:GLY:O	2.46	0.47
7:7:88:ILE:HD13	7:7:254:HIS:HA	1.96	0.47
1:8:179:TYR:CD1	1:8:185:GLY:HA2	2.49	0.47
1:8:209:SER:O	1:8:212:GLU:HB2	2.14	0.47
2:9:187:LEU:O	2:9:191:VAL:HG23	2.14	0.47
2:9:214:MET:HG3	2:9:228:PHE:CE2	2.49	0.47
8:A:157:THR:HG22	8:A:163:TYR:HB3	1.96	0.47
8:A:220:LYS:NZ	8:A:239:GLU:OE2	2.29	0.47
9:B:133:SER:OG	9:B:152:PRO:HD3	2.14	0.47
11:D:106:VAL:HG12	11:D:148:TYR:HD2	1.79	0.47
10:C:149:TYR:CZ	11:D:59:ILE:HB	2.49	0.47
11:D:13:PRO:HA	12:E:26:TYR:CZ	2.50	0.47
13:F:55:GLU:CD	13:F:55:GLU:H	2.16	0.47
13:F:96:SER:O	13:F:100:ASN:HA	2.14	0.47
8:A:91:ARG:HB3	14:G:118:GLN:NE2	2.28	0.47
14:G:181:ASP:O	14:G:184:PRO:HD3	2.14	0.47
14:G:56:SER:N	14:G:59:LEU:HD13	2.29	0.47
15:H:104:LYS:HG2	20:M:150:LYS:HD3	1.96	0.47
15:H:292:ARG:HG2	15:H:339:GLN:NE2	2.29	0.47
15:H:331:ARG:NH1	15:H:335:GLU:HB2	2.29	0.47
15:H:311:ILE:CG1	15:H:355:THR:HB	2.43	0.47
16:I:133:LEU:HB2	16:I:157:VAL:O	2.13	0.47
16:I:149:LEU:HD13	16:I:154:MET:HB3	1.96	0.47
16:I:184:ILE:HD11	16:I:191:ILE:HD11	1.96	0.47
16:I:176:SER:HA	16:I:241:SER:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:243:THR:HG22	16:I:245:LEU:HD21	1.96	0.47
18:K:174:VAL:HG21	18:K:218:GLY:HA3	1.96	0.47
18:K:281:ARG:HA	18:K:285:GLN:HG3	1.96	0.47
18:K:285:GLN:HB3	18:K:289:ASP:OD2	2.14	0.47
18:K:52:LYS:HG3	21:N:155:GLY:HA3	1.96	0.47
19:L:115:GLU:HG3	19:L:116:LYS:N	2.28	0.47
19:L:132:ARG:NH2	19:L:156:MET:O	2.46	0.47
19:L:360:ILE:HG23	19:L:364:HIS:ND1	2.29	0.47
19:L:374:PHE:CE2	19:L:415:LEU:HB2	2.49	0.47
20:M:267:PHE:CE1	20:M:311:GLN:HB3	2.49	0.47
21:N:194:ILE:HA	21:N:203:ARG:HH11	1.78	0.47
21:N:238:ALA:O	21:N:241:LEU:HB3	2.14	0.47
21:N:496:GLU:HA	21:N:499:HIS:ND1	2.28	0.47
21:N:535:LEU:HD12	21:N:538:LYS:HB2	1.96	0.47
21:N:60:MET:N	21:N:88:ARG:HG3	2.29	0.47
21:N:29:ASN:HB2	21:N:64:ILE:HD11	1.96	0.47
21:N:658:ILE:O	21:N:662:MET:HG3	2.14	0.47
21:N:861:TYR:CZ	21:N:863:SER:HB2	2.49	0.47
22:O:284:GLU:HA	22:O:287:LEU:HD12	1.96	0.47
22:O:331:ALA:HB1	22:O:337:LEU:HB2	1.96	0.47
22:O:340:SER:N	22:O:349:THR:O	2.45	0.47
24:Q:114:GLN:O	24:Q:118:CYS:N	2.21	0.47
24:Q:248:ASN:O	24:Q:250:THR:HG22	2.14	0.47
25:R:130:GLN:NE2	25:R:160:LYS:HE3	2.29	0.47
25:R:209:ARG:HG2	25:R:238:PHE:CE2	2.49	0.47
25:R:289:ILE:HG13	25:R:290:SER:N	2.24	0.47
25:R:63:TYR:CE2	25:R:94:PHE:CE1	3.02	0.47
26:S:382:ARG:O	27:T:154:GLU:OE2	2.32	0.47
25:R:381:ILE:O	26:S:399:TYR:N	2.47	0.47
26:S:461:PHE:C	26:S:465:ILE:HG13	2.33	0.47
21:N:4:THR:OG1	27:T:44:LEU:HD21	2.14	0.47
27:T:80:ASN:O	27:T:83:ASN:HB2	2.13	0.47
28:U:55:PRO:HB2	28:U:72:TYR:OH	2.14	0.47
31:X:10:PHE:HB3	31:X:87:PHE:CZ	2.49	0.47
33:Z:135:LEU:O	33:Z:138:ARG:N	2.46	0.47
33:Z:490:ILE:HG23	33:Z:529:ALA:HB2	1.94	0.47
33:Z:560:THR:O	33:Z:563:VAL:HB	2.14	0.47
33:Z:550:PHE:HZ	33:Z:591:ILE:HG12	1.78	0.47
33:Z:366:LYS:CD	33:Z:859:LYS:HG3	2.44	0.47
2:2:107:ASN:HD22	2:2:120:LEU:HG	1.78	0.47
2:2:179:PHE:CE1	3:3:44:TYR:HD1	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:101:ARG:NH2	8:A:115:ASP:OD1	2.47	0.47
4:4:219:TYR:CD2	4:4:220:LEU:HG	2.49	0.47
5:5:10:GLY:HA3	5:5:42:LYS:CE	2.33	0.47
5:5:148:GLY:O	5:5:152:SER:HB2	2.14	0.47
7:7:179:TYR:O	7:7:257:GLU:HA	2.14	0.47
2:9:97:GLU:HA	2:9:100:LEU:HD12	1.95	0.47
8:A:196:GLU:CD	8:A:201:LYS:HB3	2.35	0.47
8:A:199:TRP:O	8:A:203:VAL:HG23	2.14	0.47
8:A:243:GLU:CG	8:A:244:ARG:NH1	2.77	0.47
8:A:87:ILE:N	8:A:88:PRO:HD2	2.30	0.47
10:C:19:LEU:HB2	10:C:22:VAL:HB	1.96	0.47
14:G:102:LEU:HD23	14:G:103:TYR:CE2	2.49	0.47
8:A:135:ARG:NE	14:G:125:LEU:HA	2.28	0.47
15:H:176:VAL:HG22	15:H:181:TYR:H	1.78	0.47
16:I:118:ALA:HB3	16:I:156:ILE:HD11	1.95	0.47
17:J:387:GLY:HA2	17:J:390:MET:HB2	1.96	0.47
18:K:349:ARG:O	18:K:353:PHE:N	2.27	0.47
18:K:363:ALA:H	18:K:402:ILE:C	2.17	0.47
19:L:220:LEU:HD22	19:L:349:ILE:HD11	1.97	0.47
20:M:257:GLY:O	20:M:260:ALA:HB3	2.14	0.47
20:M:260:ALA:O	20:M:264:ARG:HG3	2.13	0.47
21:N:180:SER:O	21:N:184:LYS:HG3	2.15	0.47
21:N:227:LYS:HE2	21:N:231:ASN:HD21	1.79	0.47
21:N:245:LEU:O	21:N:248:GLU:N	2.47	0.47
21:N:434:SER:CB	21:N:439:VAL:HG11	2.44	0.47
21:N:50:TYR:O	21:N:58:ARG:HD2	2.14	0.47
21:N:70:TYR:HA	21:N:75:TYR:CE1	2.44	0.47
21:N:920:VAL:C	21:N:924:LYS:HZ2	2.17	0.47
21:N:93:GLU:O	21:N:98:VAL:HG11	2.13	0.47
22:O:171:PHE:O	22:O:174:THR:HB	2.14	0.47
22:O:245:ASP:HA	22:O:249:ASP:CG	2.35	0.47
22:O:76:LEU:O	22:O:78:VAL:HG23	2.14	0.47
23:P:131:PHE:CZ	23:P:168:TYR:HA	2.48	0.47
23:P:126:THR:HG22	23:P:140:THR:HA	1.96	0.47
23:P:419:VAL:HG12	23:P:423:LEU:CD1	2.45	0.47
23:P:62:ILE:O	23:P:66:LEU:HG	2.14	0.47
24:Q:344:GLU:OE2	24:Q:376:LYS:HE2	2.13	0.47
24:Q:346:ASN:O	24:Q:350:ILE:HG13	2.15	0.47
25:R:149:ASN:HA	25:R:152:LYS:HE2	1.96	0.47
25:R:220:ALA:HA	25:R:221:VAL:HA	1.53	0.47
25:R:319:CYS:HB2	25:R:322:LEU:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:170:TYR:HE1	26:S:174:ARG:HD3	1.79	0.47
26:S:410:LYS:NZ	26:S:413:LEU:HD23	2.29	0.47
27:T:181:LEU:HA	27:T:184:ALA:HB3	1.95	0.47
27:T:215:LYS:HA	27:T:218:GLU:HB2	1.97	0.47
27:T:94:HIS:CE1	27:T:97:SER:O	2.67	0.47
28:U:43:SER:HB2	28:U:45:THR:O	2.14	0.47
28:U:14:VAL:HG13	28:U:51:SER:OG	2.14	0.47
28:U:127:GLN:CD	29:V:212:MET:HB2	2.34	0.47
29:V:259:LYS:O	29:V:263:GLU:HG3	2.14	0.47
28:U:55:PRO:HG2	29:V:97:GLN:HB3	1.96	0.47
30:W:107:HIS:HE1	30:W:138:ALA:N	2.12	0.47
30:W:144:PHE:HB2	30:W:174:VAL:HB	1.95	0.47
20:M:13:PRO:HB2	30:W:34:GLU:OE1	2.14	0.47
33:Z:144:SER:N	33:Z:206:ASP:OD1	2.33	0.47
33:Z:459:ALA:HB3	33:Z:471:LEU:HB2	1.95	0.47
33:Z:805:LEU:O	33:Z:808:SER:HB3	2.14	0.47
1:1:95:HIS:CB	1:1:100:ASP:HA	2.44	0.47
1:1:95:HIS:HB3	1:1:100:ASP:HA	1.95	0.47
3:3:33:LEU:HD11	3:3:119:ALA:HB3	1.97	0.47
3:3:96:THR:O	3:3:99:SER:HB3	2.14	0.47
4:4:132:VAL:HG12	4:4:137:SER:HB3	1.96	0.47
4:4:30:THR:N	4:4:158:SER:OG	2.47	0.47
6:6:143:LEU:HB2	6:6:164:CYS:SG	2.54	0.47
7:7:111:GLU:HG2	7:7:117:LEU:CD2	2.44	0.47
1:8:47:ARG:NH2	1:8:218:GLY:HA3	2.29	0.47
9:B:191:ILE:O	9:B:194:LEU:HB2	2.14	0.47
9:B:42:GLY:HA2	9:B:145:PHE:CE1	2.50	0.47
9:B:8:SER:H	10:C:128:LEU:HA	1.79	0.47
10:C:77:VAL:HA	10:C:135:PHE:CD2	2.50	0.47
10:C:140:TYR:CD2	10:C:225:VAL:HG21	2.49	0.47
10:C:148:LEU:HB3	10:C:160:TRP:O	2.14	0.47
13:F:28:ALA:O	13:F:31:GLN:HB3	2.14	0.47
13:F:87:TYR:O	13:F:91:GLN:NE2	2.28	0.47
1:8:96:PHE:CD2	13:F:89:ARG:HD3	2.49	0.47
14:G:12:ASN:ND2	14:G:129:VAL:O	4.92	0.47
14:G:170:GLN:HG3	14:G:173:LYS:HD2	1.96	0.47
14:G:218:TRP:HE1	14:G:230:PHE:C	2.17	0.47
15:H:402:ILE:HD13	15:H:439:THR:C	2.34	0.47
16:I:349:LEU:HD12	16:I:349:LEU:O	2.14	0.47
16:I:89:GLN:HA	16:I:92:GLU:CD	2.33	0.47
17:J:241:ALA:HA	17:J:242:PRO:C	2.34	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:137:VAL:HB	18:K:146:LEU:CD1	2.44	0.47
18:K:171:TYR:HB2	18:K:181:LYS:CD	2.36	0.47
18:K:80:LYS:O	18:K:84:GLU:HG3	2.15	0.47
18:K:99:PHE:CD1	18:K:110:VAL:HG12	2.49	0.47
20:M:256:ILE:HG23	20:M:299:ARG:HD2	1.95	0.47
20:M:264:ARG:HG2	20:M:311:GLN:NE2	2.29	0.47
21:N:270:LEU:O	21:N:274:VAL:HG23	2.15	0.47
21:N:339:MET:HG2	21:N:707:ASN:HB3	1.95	0.47
21:N:466:LEU:HD13	21:N:481:ALA:HA	1.96	0.47
21:N:536:ILE:O	21:N:540:LEU:HG	2.14	0.47
21:N:646:LYS:C	21:N:653:ARG:HH21	2.16	0.47
21:N:629:CYS:C	21:N:663:ILE:HG12	2.34	0.47
22:O:338:LYS:HZ2	22:O:353:VAL:CB	2.27	0.47
23:P:119:ILE:HG23	23:P:126:THR:CG2	2.45	0.47
23:P:162:GLU:OE1	23:P:162:GLU:N	2.46	0.47
23:P:298:SER:O	23:P:302:LEU:HG	2.13	0.47
23:P:60:ALA:HB1	23:P:96:MET:SD	2.54	0.47
24:Q:130:ARG:HG3	24:Q:132:PHE:HB3	1.97	0.47
24:Q:7:LYS:HZ3	24:Q:34:ASP:HB2	1.72	0.47
24:Q:349:LYS:HA	24:Q:352:GLU:CD	2.34	0.47
24:Q:358:GLU:CD	24:Q:360:SER:HB2	2.35	0.47
24:Q:362:ILE:O	24:Q:366:ILE:HG22	2.14	0.47
24:Q:414:GLU:O	24:Q:418:GLN:N	2.38	0.47
25:R:292:LEU:CB	25:R:307:TYR:HB3	2.44	0.47
25:R:417:TYR:OH	28:U:293:GLU:HB2	2.14	0.47
26:S:233:LEU:O	26:S:236:LEU:HB3	2.15	0.47
27:T:111:LEU:HB3	27:T:174:PHE:CZ	2.48	0.47
28:U:108:GLU:HA	28:U:111:LYS:HG3	1.96	0.47
28:U:206:ASP:HA	28:U:209:GLU:OE1	2.13	0.47
28:U:13:LEU:HD11	29:V:36:LYS:HB2	1.96	0.47
30:W:2:VAL:O	30:W:44:ASN:ND2	2.27	0.47
31:X:85:ARG:N	31:X:101:LEU:HD22	2.30	0.47
33:Z:321:PHE:HE1	33:Z:331:GLY:HA2	1.79	0.47
33:Z:518:LEU:HB2	33:Z:524:ALA:CB	2.45	0.47
33:Z:792:VAL:HG12	33:Z:796:LEU:HG	1.96	0.47
1:1:74:ASN:N	1:1:127:HIS:O	2.44	0.47
2:2:180:GLY:HA2	2:2:217:LEU:HD21	1.95	0.47
6:6:132:ALA:HB1	6:6:136:SER:HB2	1.96	0.47
6:6:101:ASN:HB3	6:6:133:HIS:CE1	2.49	0.47
1:8:95:HIS:CB	1:8:100:ASP:HA	2.44	0.47
1:8:37:GLU:N	1:8:193:TYR:OH	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:135:ARG:HD3	14:G:13:SER:HB2	1.96	0.47
9:B:123:GLN:HB2	10:C:129:ARG:HH21	1.80	0.47
9:B:7:PHE:O	9:B:125:GLY:HA2	2.14	0.47
12:E:16:SER:HA	12:E:22:PHE:CZ	2.49	0.47
12:E:16:SER:O	12:E:19:GLY:N	2.44	0.47
14:G:123:HIS:HB3	14:G:130:ARG:O	2.15	0.47
8:A:15:HIS:O	14:G:14:VAL:HG22	2.14	0.47
14:G:219:CYS:HA	14:G:227:LEU:O	2.15	0.47
14:G:24:VAL:O	14:G:28:VAL:HG23	2.14	0.47
15:H:210:ASP:OD1	15:H:388:ILE:HG23	2.15	0.47
15:H:223:GLU:OE2	15:H:235:PHE:CE1	2.67	0.47
15:H:264:ALA:HB1	15:H:271:PHE:HB2	1.97	0.47
15:H:439:THR:O	15:H:442:ASP:HB2	2.14	0.47
17:J:82:LYS:HG2	17:J:104:VAL:HG11	1.96	0.47
17:J:257:ARG:HH12	17:J:296:ARG:HH11	1.62	0.47
17:J:83:LYS:HA	17:J:97:ASP:HA	1.95	0.47
18:K:234:PHE:CE2	18:K:236:ARG:HB2	2.49	0.47
19:L:279:PHE:CZ	19:L:326:ALA:HB2	2.49	0.47
20:M:332:VAL:HG23	20:M:337:LEU:HD11	1.97	0.47
21:N:139:ARG:HA	21:N:142:GLU:OE1	2.14	0.47
21:N:397:SER:HB3	21:N:400:ILE:HG13	1.95	0.47
21:N:650:ASP:HA	21:N:653:ARG:HG2	1.96	0.47
21:N:6:ALA:O	21:N:9:LEU:N	2.46	0.47
22:O:5:HIS:CE1	22:O:30:GLU:HB3	2.49	0.47
22:O:94:GLU:O	22:O:97:LYS:HB2	2.14	0.47
23:P:245:TYR:OH	23:P:261:LEU:HB2	2.14	0.47
23:P:305:THR:C	23:P:310:ARG:HH22	2.17	0.47
23:P:427:GLU:HA	23:P:427:GLU:OE1	2.15	0.47
24:Q:230:LYS:N	24:Q:230:LYS:HD2	2.30	0.47
24:Q:99:THR:O	24:Q:103:LYS:N	2.43	0.47
25:R:152:LYS:C	25:R:156:LYS:HZ3	2.15	0.47
25:R:308:LEU:O	25:R:312:TYR:N	2.33	0.47
26:S:186:TYR:O	26:S:189:LEU:HB3	2.14	0.47
21:N:4:THR:HA	26:S:208:ILE:HD13	1.95	0.47
26:S:311:GLN:O	26:S:315:LYS:HG3	2.14	0.47
28:U:294:ASN:O	28:U:298:ASN:ND2	2.47	0.47
28:U:191:THR:C	29:V:232:GLU:OE2	2.52	0.47
29:V:262:THR:OG1	29:V:263:GLU:N	2.47	0.47
29:V:260:GLU:HA	29:V:263:GLU:OE1	2.14	0.47
31:X:11:ARG:O	31:X:85:ARG:NH2	2.47	0.47
33:Z:291:GLU:HG3	33:Z:295:ARG:HG3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:363:ASP:HA	33:Z:366:LYS:CG	2.44	0.47
33:Z:379:GLN:OE1	33:Z:845:LEU:HG	2.14	0.47
33:Z:384:SER:HB3	33:Z:407:VAL:HG22	1.96	0.47
33:Z:407:VAL:HG13	33:Z:418:ALA:CB	2.45	0.47
33:Z:433:LEU:HA	33:Z:436:LEU:HB2	1.96	0.47
33:Z:259:PRO:HA	33:Z:612:GLY:CA	2.44	0.47
3:3:109:LYS:HG3	3:3:110:ASP:OD1	2.14	0.47
3:3:209:PRO:HA	3:3:212:TYR:CZ	2.48	0.47
3:3:56:VAL:HG11	3:3:101:PHE:CZ	2.47	0.47
5:5:11:ILE:HG22	5:5:140:GLY:HA3	1.95	0.47
5:5:189:ILE:CG1	5:5:198:ARG:HH12	2.28	0.47
5:5:56:LEU:HD11	5:5:58:THR:HG22	1.96	0.47
6:6:183:ILE:O	6:6:189:ILE:HA	2.14	0.47
6:6:69:ILE:HG21	11:D:67:ILE:O	2.15	0.47
1:8:74:ASN:N	1:8:127:HIS:O	2.44	0.47
2:9:115:ASP:OD1	2:9:116:ALA:N	2.47	0.47
2:9:180:GLY:HA2	2:9:217:LEU:HD21	1.95	0.47
2:9:226:ARG:HD3	2:9:246:GLN:HE21	1.79	0.47
8:A:29:GLU:HA	8:A:32:PHE:CD2	2.49	0.47
9:B:71:ILE:HG21	9:B:110:LEU:HD23	1.96	0.47
11:D:5:ASP:OD2	12:E:125:GLU:HB3	2.14	0.47
12:E:22:PHE:O	12:E:26:TYR:N	2.44	0.47
12:E:236:THR:O	12:E:240:ILE:HG13	2.14	0.47
2:2:127:GLU:CG	13:F:100:ASN:HB2	82.84	0.47
13:F:116:ALA:HA	13:F:119:ASN:ND2	2.30	0.47
13:F:157:TYR:N	14:G:58:LEU:O	2.44	0.47
14:G:71:ASP:CG	14:G:72:ARG:H	2.18	0.47
15:H:214:CYS:O	15:H:217:GLN:HB3	2.15	0.47
16:I:104:LEU:HB3	16:I:149:LEU:O	2.14	0.47
16:I:288:GLY:O	16:I:334:LEU:HD23	2.13	0.47
16:I:299:GLU:HB3	16:I:302:ILE:HG13	1.96	0.47
16:I:304:ARG:HH12	16:I:308:GLU:CB	2.28	0.47
16:I:355:LEU:O	16:I:359:LYS:N	2.42	0.47
16:I:90:GLU:O	16:I:94:LYS:N	2.40	0.47
17:J:43:ARG:O	17:J:47:GLN:HG2	2.14	0.47
18:K:278:ALA:HA	18:K:296:LEU:HD13	1.95	0.47
17:J:65:LEU:HD13	18:K:89:ILE:HG21	1.97	0.47
19:L:117:TYR:N	19:L:129:VAL:O	2.41	0.47
19:L:174:GLU:HG2	19:L:175:GLN:OE1	2.14	0.47
19:L:74:LEU:HD13	20:M:15:ASP:CG	2.35	0.47
20:M:21:GLU:O	20:M:24:ASN:HB2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:337:LEU:O	20:M:343:LEU:HB2	2.15	0.47
15:H:237:THR:O	20:M:408:SER:HB2	2.15	0.47
21:N:143:LYS:O	21:N:147:ALA:N	2.44	0.47
21:N:380:LEU:C	21:N:384:LYS:HZ3	2.18	0.47
22:O:83:LEU:O	22:O:87:LYS:HB2	2.15	0.47
22:O:87:LYS:N	22:O:98:TYR:OH	2.47	0.47
23:P:311:TRP:CE2	23:P:342:GLN:OE1	2.68	0.47
24:Q:183:LYS:HG2	24:Q:221:MET:SD	2.55	0.47
24:Q:250:THR:O	24:Q:253:ASN:HB3	2.15	0.47
24:Q:289:GLU:HB3	24:Q:291:TYR:CE2	2.49	0.47
24:Q:7:LYS:HB3	24:Q:30:LEU:CD2	2.45	0.47
25:R:229:LYS:O	25:R:233:ASP:N	2.43	0.47
25:R:28:GLU:OE1	25:R:320:LYS:HG3	2.14	0.47
25:R:351:LYS:O	25:R:355:SER:N	2.45	0.47
25:R:36:SER:HA	25:R:42:GLN:CD	2.35	0.47
26:S:317:HIS:HA	26:S:320:ILE:HG12	1.96	0.47
26:S:467:PHE:O	26:S:470:GLN:N	2.42	0.47
27:T:102:LYS:O	27:T:106:ILE:HG22	2.14	0.47
27:T:69:SER:O	27:T:74:ASN:N	2.26	0.47
28:U:140:ILE:O	28:U:153:THR:O	2.32	0.47
29:V:118:LEU:HD11	29:V:140:VAL:HG22	1.97	0.47
30:W:101:ARG:CZ	30:W:104:LYS:HG2	2.44	0.47
31:X:23:LEU:HA	31:X:82:LYS:NZ	2.29	0.47
25:R:222:ARG:NH2	32:Y:60:TRP:O	2.48	0.47
33:Z:266:LYS:O	33:Z:269:TYR:HB3	2.14	0.47
33:Z:305:VAL:HA	33:Z:308:LYS:HD2	1.97	0.47
33:Z:435:GLN:NE2	33:Z:438:LYS:NZ	2.62	0.47
33:Z:550:PHE:HB2	33:Z:587:THR:HG23	1.96	0.47
33:Z:806:GLU:HA	33:Z:809:MET:HB2	1.96	0.47
1:1:112:ILE:O	1:1:115:LEU:HB2	2.15	0.47
3:3:162:ARG:HH21	3:3:165:MET:HG2	1.80	0.47
6:6:139:TYR:HE2	6:6:172:MET:HB2	1.79	0.47
6:6:149:ARG:HB2	6:6:152:MET:HG3	1.97	0.47
7:7:128:GLN:OE1	1:8:149:SER:OG	2.13	0.47
1:8:27:ASN:HB3	1:8:48:ASN:OD1	2.14	0.47
8:A:100:GLU:HA	8:A:103:GLU:OE1	2.15	0.47
8:A:46:ARG:HG3	8:A:154:ILE:HG13	1.97	0.47
8:A:188:LYS:O	8:A:190:LYS:HG3	2.14	0.47
9:B:117:ILE:HA	9:B:120:GLU:OE1	2.15	0.47
9:B:178:ARG:HG2	9:B:191:ILE:CG2	2.45	0.47
9:B:242:GLU:O	9:B:245:ASP:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:32:VAL:CG1	9:B:63:LYS:HZ2	3.38	0.47
11:D:172:ARG:O	11:D:176:GLU:HG3	2.15	0.47
11:D:138:PHE:HD2	11:D:217:PRO:HA	1.79	0.47
11:D:65:SER:O	11:D:73:LEU:N	2.41	0.47
13:F:140:SER:HG	13:F:143:HIS:CD2	2.29	0.47
13:F:173:GLU:HG3	14:G:57:LYS:HB2	2.08	0.47
13:F:52:ASN:ND2	13:F:54:ASP:O	2.48	0.47
14:G:198:LYS:HZ2	14:G:199:ILE:HG13	1.78	0.47
15:H:72:SER:HB3	15:H:172:MET:CG	2.44	0.47
15:H:96:PRO:CD	16:I:119:ILE:CG2	2.92	0.47
16:I:246:ARG:HG3	16:I:280:PHE:CE2	2.50	0.47
17:J:346:VAL:CG1	17:J:382:PHE:HB3	2.44	0.47
17:J:47:GLN:HE21	26:S:479:MET:HG2	1.80	0.47
18:K:99:PHE:HB2	18:K:137:VAL:CG1	2.45	0.47
18:K:273:GLU:HB3	18:K:275:ASP:OD1	2.15	0.47
19:L:318:LEU:HB3	19:L:322:LYS:HD3	1.95	0.47
21:N:211:PHE:HA	21:N:225:LEU:HD22	1.95	0.47
21:N:419:THR:O	21:N:422:TYR:HB3	2.13	0.47
21:N:98:VAL:O	21:N:102:VAL:N	2.29	0.47
22:O:333:SER:OG	23:P:305:THR:HA	2.15	0.47
22:O:338:LYS:HZ1	22:O:353:VAL:HB	1.80	0.47
22:O:340:SER:H	22:O:349:THR:HB	1.79	0.47
22:O:380:LEU:O	22:O:382:LYS:N	2.47	0.47
22:O:85:SER:O	22:O:88:ASP:HB2	2.14	0.47
23:P:392:LYS:HB2	23:P:401:ASN:HB2	1.95	0.47
24:Q:109:ASP:CG	24:Q:113:ASP:HB2	2.35	0.47
24:Q:355:GLU:HB3	24:Q:399:VAL:HA	1.96	0.47
24:Q:373:VAL:HG12	24:Q:377:LEU:HB2	1.97	0.47
25:R:173:THR:O	25:R:177:LEU:HG	2.14	0.47
25:R:164:THR:HG21	25:R:200:LYS:NZ	2.30	0.47
25:R:358:GLY:O	32:Y:86:ARG:HB2	2.15	0.47
25:R:68:GLU:OE2	25:R:81:HIS:ND1	2.47	0.47
26:S:185:PHE:HZ	26:S:192:GLU:OE1	1.97	0.47
21:N:70:TYR:OH	26:S:219:LYS:O	2.28	0.47
26:S:357:LEU:HD11	26:S:384:ARG:HH11	1.80	0.47
27:T:38:ASN:OD1	27:T:41:ILE:HD11	2.14	0.47
28:U:269:THR:HG22	28:U:273:LEU:HD11	1.96	0.47
28:U:294:ASN:HB3	28:U:295:LYS:HE2	1.96	0.47
29:V:213:LEU:O	29:V:216:LEU:HG	2.14	0.47
30:W:144:PHE:CE1	30:W:176:PRO:HB3	2.49	0.47
30:W:79:THR:HG22	30:W:80:GLN:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:X:118:ASP:OD1	31:X:119:LYS:N	2.48	0.47
33:Z:233:LEU:N	33:Z:234:PRO:HD2	2.28	0.47
33:Z:298:PHE:O	33:Z:338:HIS:ND1	2.32	0.47
33:Z:471:LEU:HD11	33:Z:496:ALA:HA	1.96	0.47
33:Z:512:ILE:O	33:Z:516:THR:N	2.45	0.47
33:Z:737:ALA:O	33:Z:740:VAL:HB	2.14	0.47
33:Z:389:PHE:C	33:Z:857:LEU:HA	2.35	0.47
1:1:34:ILE:N	1:1:41:VAL:O	2.32	0.47
2:2:121:GLU:HB3	2:2:124:TYR:CD2	2.50	0.47
2:2:187:LEU:O	2:2:191:VAL:N	2.48	0.47
4:4:126:TYR:HE1	4:4:143:HIS:HB3	1.80	0.47
4:4:142:ILE:HG23	4:4:148:THR:HG22	1.97	0.47
6:6:165:VAL:O	6:6:169:GLU:HG3	2.14	0.47
6:6:107:TYR:CD1	6:6:186:LYS:HA	2.49	0.47
1:8:130:ILE:HG12	1:8:142:TYR:HB2	1.96	0.47
2:9:110:ASP:OD1	14:G:68:GLN:NE2	2.47	0.47
2:9:213:ALA:HA	2:9:216:VAL:HB	1.95	0.47
2:9:49:TYR:CD2	2:9:54:ILE:HG13	2.50	0.47
9:B:116:LYS:HG2	9:B:120:GLU:OE2	2.15	0.47
9:B:37:ILE:HG21	9:B:188:ALA:HB1	1.97	0.47
11:D:7:ALA:HB1	12:E:135:SER:HB2	2.17	0.47
12:E:226:ASP:HB3	12:E:229:LYS:HE3	1.97	0.47
12:E:85:ALA:O	12:E:89:ILE:N	2.34	0.47
13:F:64:ILE:O	13:F:72:LEU:N	2.45	0.47
14:G:9:ASP:HB2	14:G:26:TYR:CE2	2.50	0.47
15:H:222:ARG:HG2	15:H:227:LEU:HG	1.96	0.47
15:H:281:GLN:HB2	15:H:286:GLU:CG	2.44	0.47
15:H:450:VAL:O	15:H:454:TYR:HB2	2.14	0.47
16:I:122:SER:OG	16:I:124:THR:OG1	2.19	0.47
16:I:284:ILE:H	16:I:328:THR:HB	1.79	0.47
17:J:145:SER:O	17:J:201:ALA:HA	2.15	0.47
17:J:209:LYS:HB2	17:J:243:SER:CB	2.45	0.47
17:J:259:GLU:HG3	17:J:296:ARG:HD2	1.94	0.47
17:J:388:LYS:HA	17:J:391:ASN:ND2	2.28	0.47
18:K:349:ARG:HA	18:K:352:ILE:HB	1.96	0.47
19:L:151:THR:O	19:L:153:LEU:HG	2.14	0.47
19:L:375:ASP:N	19:L:415:LEU:HD23	2.30	0.47
21:N:214:LEU:HB3	21:N:220:CYS:HB2	1.95	0.47
21:N:245:LEU:O	21:N:249:ASN:N	2.47	0.47
21:N:28:ILE:O	21:N:32:VAL:HG23	2.15	0.47
21:N:546:LEU:O	21:N:549:TYR:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:650:ASP:OD1	21:N:653:ARG:NH1	2.48	0.47
21:N:742:TRP:CD1	21:N:745:LEU:HG	2.47	0.47
21:N:69:TYR:HB3	21:N:74:GLU:O	2.14	0.47
21:N:756:THR:OG1	21:N:872:THR:O	2.20	0.47
21:N:866:TYR:OH	21:N:878:GLN:NE2	2.47	0.47
22:O:132:GLU:OE1	22:O:135:ARG:NH2	2.48	0.47
23:P:147:LYS:NZ	23:P:159:ILE:CG2	2.70	0.47
23:P:432:LEU:O	23:P:435:LYS:HB3	2.13	0.47
24:Q:19:GLN:NE2	24:Q:22:GLU:HG3	2.30	0.47
25:R:148:ASP:C	25:R:152:LYS:NZ	2.68	0.47
25:R:325:HIS:CE1	25:R:326:ALA:O	2.67	0.47
25:R:344:SER:OG	25:R:345:TYR:N	2.47	0.47
24:Q:416:VAL:HG13	25:R:410:LEU:HD11	1.97	0.47
26:S:338:MET:CB	26:S:343:LEU:H	2.26	0.47
27:T:266:TYR:HA	27:T:269:SER:CB	2.41	0.47
28:U:175:LEU:HD12	28:U:176:ARG:N	2.30	0.47
29:V:264:GLU:CB	29:V:280:LEU:HD21	2.35	0.47
30:W:39:ALA:HA	30:W:42:ASN:HB2	1.96	0.47
31:X:108:ASN:HA	31:X:116:ALA:HA	1.96	0.47
33:Z:416:THR:O	33:Z:420:ALA:N	2.27	0.47
33:Z:483:THR:O	33:Z:487:SER:OG	2.21	0.47
33:Z:505:VAL:O	33:Z:509:LEU:N	2.37	0.47
33:Z:770:GLU:HG2	33:Z:893:PHE:CE2	2.50	0.47
33:Z:413:ASP:HB3	33:Z:899:GLN:H	1.79	0.47
1:1:46:THR:HG22	1:1:58:TYR:HA	1.96	0.47
2:2:214:MET:HG3	2:2:228:PHE:CE2	2.49	0.47
2:2:226:ARG:HD3	2:2:246:GLN:HE21	1.79	0.47
2:2:46:SER:OG	2:2:160:LEU:HD11	2.15	0.47
3:3:131:THR:HG22	3:3:139:HIS:HB2	1.97	0.47
3:3:23:MET:HG2	3:3:178:LEU:HD21	1.97	0.47
4:4:80:ASP:O	4:4:84:VAL:HG12	2.15	0.47
7:7:139:ARG:CZ	7:7:143:LEU:HD21	2.44	0.47
7:7:188:TYR:CD1	7:7:198:LYS:HB2	2.49	0.47
2:9:123:SER:HA	2:9:159:PHE:CE1	2.49	0.47
8:A:180:THR:O	8:A:184:ASN:N	2.26	0.47
8:A:71:TYR:HB3	8:A:83:VAL:O	2.15	0.47
9:B:151:ASP:HB2	9:B:153:SER:OG	2.15	0.47
9:B:170:ALA:O	9:B:173:THR:HB	2.14	0.47
10:C:3:SER:HB2	13:F:123:TYR:CE2	2.49	0.47
10:C:75:VAL:HG11	10:C:137:TYR:HD1	1.80	0.47
11:D:121:THR:OG1	11:D:122:GLN:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D:214:VAL:O	11:D:222:VAL:N	2.42	0.47
11:D:38:GLY:N	11:D:41:CYS:O	2.48	0.47
12:E:167:TYR:HA	13:F:57:SER:HA	1.96	0.47
15:H:258:LEU:HA	15:H:261:ARG:HB2	1.95	0.47
15:H:56:LEU:HB3	15:H:60:GLU:CD	2.35	0.47
16:I:180:SER:HB3	16:I:238:ASN:ND2	2.28	0.47
17:J:39:GLU:OE1	17:J:42:ARG:HD3	2.14	0.47
18:K:191:PRO:HB2	18:K:313:LYS:HZ1	1.76	0.47
18:K:344:ARG:HG3	18:K:383:ILE:CD1	2.44	0.47
19:L:309:LEU:HD12	19:L:313:ASP:HB2	1.96	0.47
20:M:79:VAL:N	20:M:122:SER:OG	2.47	0.47
20:M:216:LYS:HD2	20:M:315:PHE:CB	2.42	0.47
20:M:216:LYS:CD	20:M:315:PHE:HB2	2.43	0.47
20:M:331:ASP:OD1	20:M:332:VAL:N	2.42	0.47
20:M:215:PRO:HB3	20:M:344:ASP:HB2	1.97	0.47
20:M:394:VAL:HG22	20:M:418:GLY:O	2.14	0.47
21:N:197:VAL:HG21	21:N:202:PHE:HD2	1.80	0.47
21:N:474:SER:C	21:N:513:ILE:HD11	2.34	0.47
22:O:128:LEU:HD11	22:O:132:GLU:OE2	2.15	0.47
22:O:272:VAL:HG13	22:O:273:GLN:H	1.78	0.47
22:O:282:GLN:HB3	22:O:286:PHE:HE2	1.78	0.47
24:Q:216:ALA:HB2	24:Q:245:SER:HB2	1.95	0.47
24:Q:276:ASP:HA	24:Q:279:LYS:HZ1	1.80	0.47
24:Q:335:PHE:CA	24:Q:338:LEU:HB3	2.43	0.47
24:Q:343:LEU:O	24:Q:346:ASN:HB2	2.14	0.47
24:Q:359:ILE:O	24:Q:363:SER:N	2.27	0.47
24:Q:51:ARG:HD2	24:Q:54:GLN:HB2	1.96	0.47
25:R:147:LYS:NZ	25:R:181:TYR:CD2	2.83	0.47
25:R:141:TYR:HD2	25:R:150:ALA:HB2	1.79	0.47
25:R:251:THR:O	25:R:255:VAL:HG23	2.15	0.47
25:R:384:VAL:HG21	26:S:403:SER:HB2	1.97	0.47
25:R:348:LEU:HB3	25:R:388:VAL:HB	1.96	0.47
26:S:15:VAL:O	26:S:18:LEU:HB2	2.15	0.47
26:S:190:SER:OG	26:S:191:HIS:N	2.48	0.47
29:V:95:LEU:CB	29:V:100:ARG:HB3	2.45	0.47
28:U:192:ASN:HB3	29:V:237:ASN:OD1	2.14	0.47
29:V:241:THR:CG2	29:V:297:THR:CB	2.92	0.47
30:W:46:GLU:HG2	30:W:106:GLN:NE2	2.30	0.47
33:Z:282:ILE:HG12	33:Z:297:VAL:HG13	1.95	0.47
33:Z:473:LEU:HG	33:Z:477:TYR:CE2	2.50	0.47
33:Z:524:ALA:O	33:Z:565:PHE:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:366:LYS:CE	33:Z:859:LYS:HE2	2.40	0.47
33:Z:863:THR:O	33:Z:909:ARG:HB2	2.15	0.47
2:2:115:ASP:OD1	2:2:116:ALA:N	2.47	0.47
2:2:49:TYR:CD2	2:2:54:ILE:HG13	2.50	0.47
5:5:53:ILE:HB	5:5:60:VAL:HG13	1.97	0.47
6:6:146:HIS:CD2	6:6:147:HIS:CE1	3.03	0.47
1:8:95:HIS:HB3	1:8:100:ASP:HA	1.95	0.47
1:8:112:ILE:O	1:8:115:LEU:HB2	2.15	0.47
9:B:8:SER:CB	10:C:129:ARG:H	2.27	0.47
10:C:113:ARG:NH2	18:K:71:GLU:OE1	222.07	0.47
10:C:96:GLN:HA	10:C:99:LEU:HB3	1.97	0.47
11:D:216:LYS:HD2	11:D:220:ASP:OD2	2.15	0.47
12:E:128:SER:OG	13:F:122:SER:HB2	2.15	0.47
12:E:24:VAL:O	12:E:28:LEU:N	2.38	0.47
12:E:35:SER:CB	12:E:66:LYS:NZ	2.76	0.47
12:E:83:ALA:O	12:E:86:ARG:HG2	2.15	0.47
13:F:177:ASP:O	13:F:181:LYS:HD3	2.15	0.47
13:F:187:ASP:HA	13:F:233:TYR:CE1	2.50	0.47
14:G:149:TYR:HD1	14:G:159:GLY:HA2	1.80	0.47
15:H:105:ILE:HG12	15:H:169:GLU:OE2	2.15	0.47
15:H:272:ILE:HB	15:H:306:ILE:HA	1.97	0.47
15:H:398:VAL:HG12	15:H:443:PHE:HZ	1.80	0.47
15:H:95:HIS:HA	15:H:96:PRO:HA	1.60	0.47
16:I:121:THR:HA	16:I:127:ASP:OD1	2.14	0.47
16:I:289:THR:O	16:I:302:ILE:HG21	2.14	0.47
17:J:315:GLU:O	17:J:317:PRO:HD3	2.15	0.47
17:J:369:ALA:HB2	17:J:377:VAL:HG13	1.97	0.47
17:J:64:LEU:HG	18:K:121:ARG:HG3	1.97	0.47
18:K:245:LYS:NZ	19:L:254:LYS:HB3	2.29	0.47
19:L:368:VAL:HB	19:L:370:LYS:HE3	1.96	0.47
20:M:236:ALA:CB	20:M:243:PHE:HB2	2.45	0.47
19:L:91:THR:CG2	20:M:33:ARG:HG2	2.44	0.47
21:N:338:PHE:CZ	21:N:701:VAL:HG13	2.50	0.47
21:N:535:LEU:HA	21:N:538:LYS:HB2	1.96	0.47
22:O:10:ILE:O	22:O:13:THR:N	2.48	0.47
22:O:12:SER:HB3	22:O:21:SER:O	2.14	0.47
22:O:254:LEU:HA	22:O:257:ALA:HB3	1.96	0.47
22:O:331:ALA:CA	22:O:337:LEU:HB2	2.44	0.47
22:O:338:LYS:HD2	22:O:352:TRP:N	2.29	0.47
22:O:362:GLN:O	22:O:366:MET:HB2	2.15	0.47
23:P:15:GLU:O	23:P:19:LYS:N	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:168:TYR:CB	23:P:176:LYS:HD2	2.45	0.47
23:P:178:GLN:O	23:P:182:GLU:N	2.32	0.47
23:P:200:SER:OG	23:P:201:ARG:N	2.48	0.47
23:P:263:HIS:O	23:P:267:PHE:N	2.33	0.47
23:P:364:ARG:HA	23:P:367:GLU:CD	2.35	0.47
18:K:347:ARG:HD2	24:Q:238:TYR:CD1	2.49	0.47
24:Q:51:ARG:HH21	24:Q:77:PHE:HE2	1.63	0.47
25:R:141:TYR:HB3	25:R:146:ASP:O	2.15	0.47
25:R:408:ASP:O	25:R:411:LEU:HB2	2.15	0.47
25:R:411:LEU:HA	25:R:414:LEU:HB2	1.97	0.47
25:R:49:PHE:O	25:R:53:LYS:HG3	2.15	0.47
26:S:206:GLN:O	26:S:210:LEU:N	2.32	0.47
26:S:354:LEU:HB3	26:S:356:ASP:OD1	2.14	0.47
27:T:214:GLU:O	27:T:217:THR:HB	2.15	0.47
21:N:361:ASN:HB2	29:V:165:ILE:HG12	1.97	0.47
33:Z:386:VAL:HG13	33:Z:853:GLY:HA2	1.97	0.47
33:Z:352:LYS:HD3	33:Z:466:GLU:HA	1.96	0.47
33:Z:550:PHE:CG	33:Z:587:THR:HG23	2.50	0.47
33:Z:575:MET:HB3	33:Z:875:LYS:HZ3	1.78	0.47
33:Z:791:LYS:HA	33:Z:829:GLN:OE1	2.13	0.47
33:Z:916:LEU:HA	33:Z:925:VAL:HG11	1.97	0.47
2:2:213:ALA:HA	2:2:216:VAL:HB	1.95	0.47
4:4:33:VAL:HG22	4:4:188:ILE:HD11	1.96	0.47
4:4:94:LEU:HD21	9:B:94:HIS:ND1	2.29	0.47
6:6:148:TYR:OH	6:6:150:PRO:HA	2.14	0.47
6:6:140:THR:HG22	6:6:164:CYS:HB3	1.96	0.47
7:7:276:LYS:HZ2	7:7:285:VAL:CG1	2.27	0.47
1:8:180:GLU:HB2	1:8:187:VAL:HB	1.97	0.47
2:9:121:GLU:OE2	2:9:153:GLN:HA	2.15	0.47
2:9:45:ILE:HG22	2:9:176:ALA:HB1	1.96	0.47
2:9:46:SER:OG	2:9:160:LEU:HD11	2.15	0.47
8:A:63:LEU:HD21	14:G:176:LEU:HB3	1.95	0.47
9:B:174:PHE:HE2	9:B:195:THR:HG1	1.62	0.47
12:E:119:LEU:HA	12:E:122:ARG:HD2	1.97	0.47
12:E:81:LEU:O	12:E:140:VAL:HB	2.15	0.47
12:E:15:PHE:CE2	13:F:126:ARG:HB2	2.83	0.47
12:E:41:ALA:HA	12:E:46:VAL:HG22	1.97	0.47
13:F:107:ARG:O	13:F:110:HIS:HB2	2.15	0.47
13:F:226:ASP:HA	13:F:230:VAL:HG13	1.97	0.47
14:G:112:PHE:CE2	14:G:116:LEU:HD11	2.50	0.47
14:G:177:GLU:O	14:G:180:VAL:HB	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G:8:TYR:CD1	14:G:17:PRO:HD3	2.50	0.47
14:G:28:VAL:HA	14:G:31:VAL:HB	1.97	0.47
15:H:222:ARG:HA	15:H:226:GLU:CB	2.45	0.47
15:H:222:ARG:HH12	15:H:227:LEU:HD11	1.76	0.47
15:H:249:TYR:HA	15:H:355:THR:O	2.15	0.47
16:I:172:LYS:HE2	16:I:234:LYS:HZ1	1.80	0.47
16:I:230:THR:HG23	16:I:246:ARG:NH1	2.30	0.47
17:J:345:LYS:HE2	17:J:383:GLU:OE2	2.15	0.47
18:K:251:PRO:HB3	18:K:298:GLU:CG	2.45	0.47
18:K:374:ARG:O	18:K:411:TYR:OH	2.31	0.47
19:L:372:GLY:HA2	19:L:376:PHE:CZ	2.50	0.47
20:M:279:PHE:HA	20:M:324:LEU:O	2.14	0.47
20:M:375:ASN:ND2	20:M:378:GLU:HG3	2.30	0.47
20:M:8:ASP:O	20:M:12:LEU:HG	2.15	0.47
21:N:315:ASN:HA	21:N:318:LYS:HE3	1.97	0.47
21:N:330:THR:O	21:N:333:SER:HB3	2.14	0.47
21:N:336:ASN:ND2	21:N:348:PHE:HB3	2.29	0.47
21:N:370:SER:HA	21:N:747:HIS:CD2	2.50	0.47
21:N:378:ASN:O	21:N:411:ILE:HG21	2.14	0.47
22:O:105:GLN:HG3	22:O:111:SER:CB	2.45	0.47
23:P:242:GLN:HE21	23:P:246:GLN:CG	2.26	0.47
23:P:324:GLU:HA	23:P:334:ASN:OD1	2.15	0.47
23:P:407:ASN:C	23:P:409:SER:H	2.16	0.47
24:Q:115:ILE:HG13	24:Q:144:LEU:HD13	1.96	0.47
25:R:317:ILE:HB	25:R:318:PRO:HD3	1.97	0.47
26:S:144:LEU:O	26:S:149:SER:OG	2.32	0.47
26:S:321:GLN:CD	26:S:321:GLN:H	2.18	0.47
26:S:342:LEU:HD21	26:S:346:TYR:HB2	1.96	0.47
27:T:85:LEU:O	27:T:89:TYR:N	2.25	0.47
28:U:108:GLU:HG2	28:U:111:LYS:NZ	2.29	0.47
28:U:91:GLY:CA	28:U:119:LEU:H	2.27	0.47
28:U:139:ALA:C	28:U:154:PHE:HA	2.35	0.47
28:U:81:LYS:HA	28:U:84:ASN:O	2.14	0.47
28:U:132:LEU:CA	29:V:215:ASN:HD21	2.28	0.47
29:V:254:ARG:HG2	29:V:287:THR:HG21	1.96	0.47
30:W:4:GLU:HA	30:W:106:GLN:CA	2.44	0.47
31:X:23:LEU:HD23	31:X:82:LYS:NZ	2.30	0.47
33:Z:366:LYS:HD2	33:Z:859:LYS:CG	2.45	0.47
2:2:121:GLU:OE2	2:2:153:GLN:HA	2.15	0.47
2:2:123:SER:HA	2:2:159:PHE:CE1	2.49	0.47
6:6:185:ASP:O	6:6:188:GLY:N	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:187:ILE:O	7:7:198:LYS:HG3	2.15	0.47
7:7:226:GLU:HA	7:7:229:LEU:HD12	1.96	0.47
1:8:168:PHE:CD2	1:8:169:LEU:HD12	2.48	0.47
1:8:211:THR:OG1	1:8:217:VAL:HG12	2.15	0.47
2:9:110:ASP:OD1	14:G:93:ARG:NH2	2.45	0.47
2:9:121:GLU:HB3	2:9:124:TYR:CD2	2.50	0.47
9:B:9:LEU:HD12	9:B:127:VAL:O	2.15	0.47
10:C:14:SER:O	10:C:17:GLY:N	2.39	0.47
11:D:142:ASP:OD2	11:D:144:GLU:HB3	2.15	0.47
11:D:226:SER:HA	11:D:229:ILE:HB	1.96	0.47
11:D:233:VAL:O	11:D:237:GLU:HG3	2.15	0.47
11:D:72:VAL:HG13	11:D:221:ILE:HD13	1.96	0.47
11:D:95:SER:O	11:D:99:THR:N	2.37	0.47
12:E:123:PHE:CZ	12:E:137:PRO:HG3	2.50	0.47
12:E:15:PHE:HB3	13:F:24:TYR:HB3	1.97	0.47
12:E:156:PHE:CE1	12:E:166:ARG:HB2	2.50	0.47
12:E:194:LYS:O	12:E:197:GLU:HB2	2.15	0.47
13:F:123:TYR:CB	14:G:128:SER:CB	2.84	0.47
14:G:190:ARG:O	14:G:193:VAL:HB	2.14	0.47
14:G:30:ALA:O	14:G:33:ASN:HB3	2.15	0.47
14:G:43:ASN:OD1	14:G:44:ASP:N	2.41	0.47
15:H:220:LYS:HA	20:M:404:ARG:NH2	2.22	0.47
15:H:235:PHE:O	15:H:239:GLY:N	2.48	0.47
16:I:150:HIS:ND1	16:I:151:HIS:N	2.63	0.47
17:J:26:LYS:NZ	21:N:103:SER:C	2.68	0.47
18:K:213:GLY:N	18:K:219:LYS:NZ	2.63	0.47
18:K:363:ALA:HA	18:K:401:VAL:HB	1.95	0.47
18:K:399:ARG:NH2	18:K:401:VAL:HG23	2.30	0.47
19:L:290:ARG:CZ	19:L:302:GLN:HB2	2.43	0.47
19:L:307:GLU:O	19:L:311:GLN:N	2.47	0.47
19:L:336:ALA:HA	19:L:339:ARG:HE	1.79	0.47
20:M:172:VAL:HG22	20:M:244:LEU:HD13	1.97	0.47
20:M:378:GLU:OE1	20:M:412:HIS:NE2	2.48	0.47
21:N:399:PHE:HA	21:N:441:VAL:HG11	1.96	0.47
21:N:489:MET:C	21:N:524:ILE:HG22	2.35	0.47
21:N:504:TYR:O	21:N:508:THR:OG1	2.27	0.47
21:N:668:THR:O	21:N:671:LEU:HB3	2.15	0.47
22:O:177:GLN:O	22:O:181:PHE:N	2.45	0.47
22:O:245:ASP:N	22:O:248:TYR:HB2	2.30	0.47
23:P:104:LEU:HD11	23:P:118:VAL:HG21	1.96	0.47
23:P:133:GLU:CG	23:P:167:THR:HB	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:422:LEU:CG	23:P:426:ILE:HD11	2.45	0.47
23:P:56:LYS:HG2	23:P:92:SER:OG	2.16	0.47
24:Q:158:ILE:HG23	24:Q:177:VAL:HG22	1.96	0.47
24:Q:420:ASN:ND2	25:R:413:LYS:HZ3	2.13	0.47
24:Q:51:ARG:HH12	24:Q:55:GLU:CB	2.19	0.47
25:R:113:LEU:HD13	25:R:117:ILE:HD12	1.97	0.47
25:R:27:SER:OG	25:R:180:PHE:O	2.26	0.47
25:R:259:PHE:HD1	25:R:333:MET:HG2	1.80	0.47
24:Q:420:ASN:ND2	25:R:413:LYS:HZ2	2.12	0.47
25:R:43:ARG:CZ	25:R:88:LEU:HB2	2.44	0.47
25:R:77:SER:CB	25:R:90:GLU:HA	2.41	0.47
26:S:293:ILE:HA	26:S:296:ALA:HB3	1.97	0.47
26:S:1:MET:N	26:S:4:THR:H	2.13	0.47
27:T:78:PHE:CE2	27:T:109:TYR:HB2	2.48	0.47
27:T:144:TYR:O	27:T:148:LEU:HG	2.15	0.47
27:T:50:ILE:HA	27:T:53:ASN:HB3	1.97	0.47
25:R:422:ARG:HH22	28:U:300:LYS:N	2.13	0.47
28:U:6:GLU:HA	28:U:44:SER:CA	2.44	0.47
29:V:264:GLU:HG2	29:V:276:PRO:C	2.36	0.47
28:U:24:ARG:HD3	29:V:99:GLY:C	2.35	0.47
30:W:5:ALA:N	30:W:106:GLN:HB3	2.31	0.47
30:W:145:GLY:C	30:W:148:GLU:HA	2.35	0.47
30:W:78:ASP:CG	30:W:79:THR:H	2.18	0.47
31:X:85:ARG:HG2	31:X:86:ILE:N	2.30	0.47
33:Z:585:LEU:HD21	33:Z:599:ILE:O	2.15	0.47
2:2:90:ILE:HG23	2:2:93:MET:HE2	1.97	0.46
3:3:182:ILE:HG23	3:3:189:GLY:HA2	1.97	0.46
3:3:11:LEU:HA	3:3:67:SER:HB2	1.97	0.46
3:3:91:THR:HG22	3:3:92:PRO:O	2.14	0.46
5:5:98:ARG:HE	5:5:103:TYR:HE2	1.62	0.46
6:6:51:GLY:CA	7:7:166:LYS:NZ	2.78	0.46
1:8:34:ILE:N	1:8:41:VAL:O	2.32	0.46
1:8:46:THR:HG22	1:8:58:TYR:HA	1.96	0.46
1:8:68:ASN:OD1	1:8:226:VAL:HG13	2.14	0.46
1:8:21:PHE:CG	2:9:142:PRO:HG3	2.50	0.46
2:9:48:LYS:CB	2:9:53:VAL:HG12	2.45	0.46
8:A:135:ARG:CZ	14:G:125:LEU:HD23	2.45	0.46
8:A:203:VAL:HG12	8:A:244:ARG:HD2	1.97	0.46
10:C:94:HIS:CD2	10:C:114:ARG:HG2	2.50	0.46
10:C:175:LEU:CD1	10:C:200:THR:HG23	2.46	0.46
11:D:158:SER:H	12:E:63:SER:CB	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D:122:GLN:HB2	12:E:134:MET:CG	2.44	0.46
13:F:171:TYR:O	13:F:174:ARG:HB3	2.15	0.46
13:F:187:ASP:O	13:F:191:LYS:HG3	2.15	0.46
15:H:222:ARG:HG3	15:H:226:GLU:HB3	1.97	0.46
15:H:249:TYR:CE2	15:H:376:GLU:HB2	2.50	0.46
16:I:191:ILE:HA	16:I:194:ILE:HG22	1.97	0.46
16:I:290:LYS:O	16:I:303:GLN:NE2	2.48	0.46
16:I:105:SER:HA	17:J:94:TYR:CD1	2.49	0.46
18:K:136:SER:HB3	18:K:150:LEU:HD12	1.97	0.46
19:L:107:GLU:OE2	19:L:145:ARG:CZ	2.63	0.46
19:L:193:LEU:HD21	19:L:347:VAL:HG22	1.95	0.46
18:K:238:ASN:HB3	19:L:306:MET:SD	2.56	0.46
20:M:201:MET:HA	20:M:319:ASP:OD2	2.15	0.46
21:N:151:LYS:HA	21:N:154:LEU:HD12	1.96	0.46
21:N:302:PHE:HA	21:N:306:ASN:ND2	2.31	0.46
21:N:556:ALA:O	21:N:559:TYR:N	2.48	0.46
21:N:599:TYR:O	21:N:603:PRO:HD3	2.14	0.46
21:N:221:ASP:OD1	21:N:894:ARG:NH1	2.47	0.46
21:N:297:ASP:OD2	21:N:921:ARG:HB2	2.15	0.46
22:O:222:LEU:HD13	22:O:254:LEU:HD13	1.97	0.46
22:O:327:LEU:HD23	22:O:330:ARG:HH11	1.80	0.46
23:P:163:LEU:HD22	23:P:179:PHE:CB	2.44	0.46
23:P:228:SER:HB3	23:P:237:VAL:CG2	2.40	0.46
24:Q:120:LYS:HB3	24:Q:124:PHE:CE2	2.50	0.46
24:Q:151:TYR:CG	24:Q:184:VAL:HG13	2.50	0.46
24:Q:162:LEU:O	24:Q:166:LYS:HG3	2.14	0.46
24:Q:20:TYR:CG	24:Q:64:LEU:HB3	2.50	0.46
25:R:133:ALA:HA	25:R:136:ASN:HD22	1.80	0.46
25:R:165:GLY:HA2	25:R:168:ILE:HB	1.96	0.46
25:R:266:LEU:CA	25:R:270:VAL:HG22	2.45	0.46
25:R:335:ARG:NH1	25:R:376:GLN:C	2.69	0.46
26:S:352:VAL:HG13	26:S:387:VAL:CG2	2.43	0.46
27:T:104:LYS:NZ	27:T:169:GLN:HE22	2.12	0.46
27:T:213:ASN:O	27:T:216:GLU:HB2	2.15	0.46
28:U:91:GLY:HA3	28:U:119:LEU:H	1.80	0.46
28:U:37:ILE:N	28:U:92:TRP:HA	2.31	0.46
30:W:92:GLN:O	30:W:95:GLN:HB2	2.15	0.46
33:Z:363:ASP:CA	33:Z:366:LYS:HG2	2.45	0.46
33:Z:433:LEU:O	33:Z:437:ASP:N	2.32	0.46
3:3:133:PRO:HD2	3:3:137:SER:O	2.14	0.46
3:3:196:VAL:N	3:3:203:GLU:O	2.37	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:151:VAL:HG12	7:7:188:TYR:HD2	1.78	0.46
7:7:189:TYR:OH	7:7:191:ASP:HB3	2.15	0.46
7:7:76:THR:N	7:7:245:TYR:O	2.47	0.46
8:A:146:VAL:HB	8:A:230:LYS:HA	1.97	0.46
9:B:97:TYR:O	9:B:101:TYR:N	2.33	0.46
10:C:44:ILE:HG13	10:C:146:TYR:CD1	2.50	0.46
11:D:196:VAL:HA	11:D:199:LEU:HD12	1.98	0.46
12:E:167:TYR:CB	12:E:170:LYS:HB2	2.45	0.46
12:E:75:GLY:HA3	12:E:228:PHE:CD1	2.51	0.46
13:F:146:GLU:HG2	13:F:148:GLN:HE21	1.80	0.46
13:F:179:PHE:HA	13:F:182:ILE:HD12	1.97	0.46
14:G:112:PHE:CZ	14:G:116:LEU:HD11	2.51	0.46
14:G:179:LEU:HD23	14:G:182:HIS:HB2	1.98	0.46
14:G:74:ILE:HG12	14:G:109:ILE:CD1	2.45	0.46
15:H:223:GLU:HG2	20:M:400:MET:CB	2.45	0.46
15:H:206:VAL:O	15:H:262:ALA:HA	2.15	0.46
15:H:364:ALA:HA	15:H:367:ARG:CD	2.45	0.46
16:I:185:GLY:HA2	16:I:360:LYS:HG2	1.96	0.46
16:I:265:ARG:HH21	16:I:308:GLU:CD	2.18	0.46
17:J:76:ILE:HG13	17:J:93:LYS:HG2	1.97	0.46
18:K:206:PRO:HA	18:K:335:ASP:OD2	2.15	0.46
18:K:347:ARG:HH22	24:Q:202:ARG:HH11	1.64	0.46
18:K:50:LYS:O	18:K:54:LEU:HG	2.15	0.46
19:L:105:ILE:HD11	20:M:128:PHE:CB	2.43	0.46
19:L:109:MET:O	19:L:110:LYS:HB3	2.15	0.46
19:L:263:ILE:O	19:L:266:MET:HB2	2.15	0.46
19:L:102:GLY:HA2	20:M:129:LEU:HB3	1.97	0.46
20:M:19:ASP:O	20:M:23:LEU:HG	2.15	0.46
20:M:30:LEU:O	20:M:33:ARG:HB2	2.14	0.46
20:M:356:SER:O	20:M:360:ILE:HG13	2.14	0.46
21:N:163:LEU:HD23	21:N:166:ILE:HD12	1.97	0.46
21:N:302:PHE:CA	21:N:306:ASN:HD22	2.28	0.46
21:N:433:THR:OG1	21:N:434:SER:N	2.49	0.46
21:N:629:CYS:O	21:N:663:ILE:HG23	2.15	0.46
21:N:739:PHE:CD2	21:N:740:TRP:N	2.84	0.46
21:N:743:PHE:CE2	29:V:164:LEU:HD22	2.50	0.46
21:N:875:LEU:HG	21:N:877:GLN:H	1.80	0.46
22:O:109:LEU:HD12	22:O:124:ASP:HB2	1.97	0.46
22:O:215:TYR:CD1	22:O:251:LEU:HD11	2.51	0.46
23:P:181:LEU:O	23:P:184:MET:HB2	2.15	0.46
23:P:248:ASP:HA	23:P:251:LYS:CB	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:281:ILE:HG23	23:P:300:VAL:HG11	1.97	0.46
23:P:318:TYR:HB3	23:P:322:LEU:HB3	1.97	0.46
23:P:308:LEU:HD23	23:P:349:ASN:HD22	1.80	0.46
23:P:384:VAL:O	23:P:387:GLY:N	2.42	0.46
24:Q:139:ILE:HD11	24:Q:165:PHE:HE2	1.80	0.46
24:Q:13:ARG:HA	24:Q:16:ASN:HB2	1.96	0.46
24:Q:186:HIS:HE1	24:Q:228:GLU:OE2	1.99	0.46
24:Q:98:LYS:HG2	24:Q:102:GLU:OE2	2.15	0.46
25:R:167:LYS:O	25:R:170:VAL:HB	2.15	0.46
25:R:188:LYS:O	25:R:191:LEU:HB3	2.15	0.46
25:R:297:TYR:C	25:R:299:SER:H	2.18	0.46
25:R:382:ASP:OD2	25:R:385:ASN:CB	2.63	0.46
26:S:227:ASN:O	26:S:230:LYS:HB2	2.15	0.46
26:S:231:ALA:HB3	26:S:259:TYR:CE2	2.50	0.46
26:S:319:CYS:HB3	26:S:379:LEU:CD1	2.45	0.46
17:J:43:ARG:HD3	26:S:476:LEU:O	2.15	0.46
27:T:228:ILE:HG12	27:T:233:VAL:HA	1.96	0.46
28:U:121:LEU:HD11	28:U:134:THR:CG2	2.44	0.46
28:U:210:TYR:CZ	28:U:223:HIS:N	2.84	0.46
23:P:440:HIS:HD2	28:U:213:LYS:HE2	1.79	0.46
29:V:264:GLU:HB3	29:V:280:LEU:CD2	2.37	0.46
30:W:150:ASN:O	30:W:152:GLU:HG3	2.14	0.46
31:X:87:PHE:CE1	31:X:121:ILE:HG21	2.50	0.46
31:X:62:ASP:OD1	31:X:66:LEU:HB2	2.15	0.46
33:Z:493:LEU:HA	33:Z:496:ALA:CB	2.36	0.46
1:1:215:ILE:HB	4:4:196:LEU:HB3	1.98	0.46
1:1:92:LYS:HZ2	13:F:93:ASN:CB	95.67	0.46
3:3:20:THR:CA	3:3:188:SER:HA	2.44	0.46
3:3:36:ASP:O	3:3:52:LYS:HD2	2.16	0.46
5:5:63:LEU:O	5:5:66:MET:HB3	2.15	0.46
6:6:107:TYR:CE1	6:6:186:LYS:HA	2.50	0.46
7:7:189:TYR:HD2	7:7:197:LEU:HD12	1.78	0.46
7:7:148:ARG:NH1	7:7:257:GLU:HG3	2.30	0.46
7:7:256:THR:N	7:7:259:GLY:O	2.43	0.46
7:7:96:THR:HA	7:7:101:VAL:HA	1.97	0.46
8:A:185:HIS:NE2	8:A:205:PHE:HE1	2.14	0.46
8:A:243:GLU:O	8:A:247:ALA:N	2.28	0.46
9:B:139:HIS:HB2	9:B:145:PHE:CD1	2.50	0.46
9:B:196:LEU:O	9:B:200:VAL:HG23	2.16	0.46
11:D:214:VAL:HB	11:D:222:VAL:CG1	2.46	0.46
11:D:228:GLU:HA	11:D:231:GLN:CD	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:192:THR:OG1	12:E:195:GLU:HG3	2.16	0.46
12:E:214:GLU:HB2	12:E:233:ASN:CA	2.45	0.46
13:F:4:ASN:HA	13:F:7:ASP:OD1	2.16	0.46
8:A:88:PRO:HB3	14:G:155:GLY:C	2.36	0.46
15:H:206:VAL:HG13	15:H:209:SER:HB3	1.96	0.46
15:H:340:LEU:HB3	15:H:370:ARG:NH1	2.30	0.46
15:H:406:LEU:N	15:H:409:ARG:HH11	2.13	0.46
15:H:435:ARG:HB3	15:H:437:VAL:O	2.16	0.46
15:H:456:LYS:NZ	16:I:331:ILE:HB	2.31	0.46
16:I:103:PRO:O	16:I:151:HIS:CD2	2.68	0.46
16:I:148:LEU:HB2	16:I:158:GLY:N	2.30	0.46
17:J:246:PHE:HD1	17:J:291:ILE:HB	1.81	0.46
16:I:106:ILE:HG21	17:J:93:LYS:HB2	1.97	0.46
18:K:153:ASP:HA	19:L:110:LYS:HZ3	1.80	0.46
18:K:252:ARG:O	18:K:256:ASP:N	2.42	0.46
19:L:216:LYS:HG3	19:L:341:GLY:H	1.80	0.46
20:M:79:VAL:HB	20:M:146:VAL:H	1.80	0.46
21:N:124:TYR:CE2	21:N:164:ASP:OD2	2.67	0.46
21:N:348:PHE:HE2	21:N:355:TRP:CE3	2.33	0.46
21:N:382:GLY:HA3	21:N:411:ILE:CD1	2.44	0.46
21:N:13:LEU:HD21	21:N:45:ASP:CB	2.46	0.46
21:N:515:ARG:HD3	21:N:738:GLN:CD	2.36	0.46
22:O:40:GLN:H	22:O:40:GLN:CD	2.17	0.46
22:O:64:ASN:C	22:O:66:VAL:N	2.66	0.46
22:O:82:LEU:N	22:O:85:SER:H	2.13	0.46
23:P:94:GLN:OE1	23:P:130:ILE:HB	2.15	0.46
24:Q:219:ASP:CB	24:Q:242:SER:HB3	2.42	0.46
24:Q:389:VAL:O	24:Q:397:LEU:HD12	2.14	0.46
24:Q:425:GLN:O	24:Q:429:LYS:N	2.43	0.46
24:Q:62:GLY:O	24:Q:66:VAL:HG23	2.16	0.46
25:R:113:LEU:CD1	25:R:137:LEU:HD13	2.45	0.46
25:R:152:LYS:C	25:R:156:LYS:NZ	2.68	0.46
25:R:256:THR:O	25:R:260:THR:N	2.45	0.46
25:R:286:LEU:C	25:R:288:SER:N	2.68	0.46
26:S:146:LEU:CD2	26:S:150:LYS:HA	2.46	0.46
26:S:429:ASP:O	26:S:431:VAL:HG23	2.16	0.46
27:T:151:TRP:HE3	27:T:156:SER:O	1.98	0.46
27:T:91:SER:CB	27:T:94:HIS:HB2	2.45	0.46
28:U:39:GLY:HA3	28:U:47:ARG:O	2.16	0.46
29:V:154:ASP:OD2	29:V:156:PHE:CE1	2.68	0.46
29:V:257:GLU:CD	29:V:287:THR:CG2	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:123:ASP:CB	30:W:127:ARG:HH12	2.23	0.46
31:X:12:ALA:HB2	31:X:85:ARG:HH12	1.81	0.46
33:Z:144:SER:HB2	33:Z:153:TYR:HE2	1.81	0.46
33:Z:217:GLU:HG3	33:Z:245:VAL:O	2.15	0.46
33:Z:356:ASP:HA	33:Z:359:LYS:HB3	1.98	0.46
33:Z:924:LYS:HG3	33:Z:958:ASN:OD1	2.15	0.46
2:2:188:LEU:HA	2:2:191:VAL:HB	1.98	0.46
3:3:54:THR:HB	3:3:62:CYS:SG	2.56	0.46
5:5:109:VAL:O	5:5:122:ALA:N	2.47	0.46
5:5:38:ASN:CB	5:5:183:TRP:HB3	2.45	0.46
7:7:104:GLN:NE2	7:7:248:GLY:H	2.14	0.46
7:7:180:THR:HA	7:7:257:GLU:HG3	1.97	0.46
1:8:30:THR:CA	1:8:74:ASN:HD21	2.28	0.46
2:9:187:LEU:O	2:9:191:VAL:N	2.48	0.46
8:A:178:ILE:O	8:A:182:LEU:HG	2.15	0.46
4:4:68:PRO:CA	9:B:224:TYR:HD2	2.28	0.46
11:D:157:SER:HB2	12:E:63:SER:OG	2.67	0.46
1:8:114:HIS:CE1	12:E:101:LEU:O	2.69	0.46
13:F:198:SER:O	13:F:201:LEU:HB2	2.16	0.46
12:E:165:TYR:HE1	13:F:60:GLN:N	2.13	0.46
14:G:201:TYR:O	14:G:204:HIS:HB3	2.16	0.46
15:H:98:GLN:O	15:H:149:LEU:HB3	2.16	0.46
15:H:178:ARG:O	15:H:180:LYS:HG3	2.16	0.46
15:H:376:GLU:HG2	15:H:377:PHE:O	2.16	0.46
15:H:96:PRO:HG3	16:I:111:GLU:HB2	1.96	0.46
16:I:222:TYR:CD1	16:I:329:ASN:HA	2.50	0.46
17:J:369:ALA:O	17:J:374:ARG:N	2.42	0.46
17:J:336:ASN:HB2	17:J:375:ILE:O	2.16	0.46
18:K:304:ASP:OD2	18:K:330:ARG:HD2	2.15	0.46
18:K:349:ARG:NH2	18:K:378:LEU:N	2.63	0.46
19:L:86:LYS:HB3	19:L:90:LYS:NZ	2.31	0.46
20:M:84:GLU:O	20:M:117:ALA:HA	2.14	0.46
20:M:148:VAL:HA	20:M:156:LEU:N	2.29	0.46
20:M:167:VAL:HG11	20:M:262:LEU:HD22	1.97	0.46
20:M:216:LYS:HD3	20:M:341:GLY:O	2.15	0.46
21:N:176:GLN:O	21:N:179:THR:HG23	2.15	0.46
21:N:360:GLN:HG2	21:N:363:ALA:CB	2.45	0.46
21:N:397:SER:H	21:N:400:ILE:HD12	1.80	0.46
21:N:74:GLU:HB3	21:N:77:SER:HB2	1.96	0.46
22:O:176:SER:HG	22:O:177:GLN:H	1.64	0.46
22:O:59:LEU:HD13	22:O:86:LEU:HD13	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:68:LYS:O	22:O:71:ASP:N	2.49	0.46
23:P:97:ILE:O	23:P:100:VAL:HB	2.16	0.46
23:P:187:SER:O	23:P:191:GLY:N	2.48	0.46
24:Q:236:PHE:HB2	24:Q:268:SER:HB3	1.97	0.46
25:R:239:THR:OG1	25:R:244:THR:HG23	2.15	0.46
25:R:384:VAL:HG21	26:S:403:SER:N	2.31	0.46
25:R:414:LEU:HB3	26:S:471:LEU:HG	1.97	0.46
25:R:67:CYS:HA	25:R:92:ILE:CG1	2.45	0.46
26:S:211:ARG:NH2	26:S:240:ASP:HB3	2.28	0.46
26:S:379:LEU:HD23	26:S:380:CYS:N	2.31	0.46
27:T:51:TYR:O	27:T:56:MET:N	2.48	0.46
28:U:124:ASP:HB3	28:U:133:PRO:CB	2.46	0.46
28:U:141:GLU:O	28:U:151:GLU:O	2.34	0.46
28:U:165:GLU:HA	28:U:168:GLU:CB	2.44	0.46
29:V:157:ARG:HB3	29:V:199:LEU:HD11	1.96	0.46
29:V:278:LYS:HZ1	29:V:279:HIS:CD2	2.32	0.46
29:V:87:PHE:O	29:V:90:LYS:HB2	2.16	0.46
33:Z:243:GLN:O	33:Z:280:ASP:HB2	2.15	0.46
33:Z:285:ALA:HB1	33:Z:294:ILE:HG12	1.97	0.46
33:Z:437:ASP:HA	33:Z:440:LEU:HB3	1.96	0.46
33:Z:927:VAL:HG21	33:Z:966:GLU:OE1	2.16	0.46
2:2:34:THR:N	2:2:142:PRO:HD2	2.31	0.46
3:3:104:LEU:O	3:3:108:ASN:N	2.38	0.46
3:3:60:ILE:HA	3:3:120:GLY:HA3	1.98	0.46
4:4:220:LEU:HB3	4:4:222:PRO:HD3	1.97	0.46
5:5:118:LYS:NZ	5:5:120:PHE:HB2	2.30	0.46
5:5:40:PHE:CE2	5:5:42:LYS:HG2	2.50	0.46
6:6:9:VAL:HG22	6:6:12:SER:O	2.16	0.46
1:8:110:ARG:CB	12:E:104:ASP:HB2	2.46	0.46
9:B:10:THR:OG1	9:B:20:GLN:HB2	2.15	0.46
10:C:175:LEU:O	10:C:178:MET:HB3	2.16	0.46
10:C:18:ARG:CZ	11:D:29:ARG:NE	2.79	0.46
10:C:2:GLY:HA2	13:F:9:ASP:OD2	2.16	0.46
10:C:94:HIS:O	10:C:97:ASN:HB2	2.16	0.46
10:C:93:ILE:HG22	10:C:97:ASN:ND2	2.31	0.46
13:F:136:GLY:CA	13:F:216:VAL:HG11	2.46	0.46
13:F:195:GLU:HG2	13:F:199:GLN:HE21	1.80	0.46
14:G:40:ILE:N	14:G:47:VAL:O	2.41	0.46
2:2:109:TYR:CG	14:G:93:ARG:HD3	94.56	0.46
15:H:156:VAL:HG11	20:M:163:PHE:CG	2.51	0.46
16:I:100:ARG:NH2	16:I:148:LEU:HD22	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:196:GLU:HA	16:I:200:LEU:HB2	1.96	0.46
16:I:175:LYS:HA	16:I:242:ALA:O	2.16	0.46
16:I:309:LEU:O	16:I:313:LEU:N	2.47	0.46
16:I:94:LYS:O	16:I:98:GLU:N	2.39	0.46
17:J:214:SER:N	17:J:248:ASP:HB2	2.31	0.46
17:J:361:VAL:N	17:J:389:VAL:HG21	2.30	0.46
18:K:291:GLU:HB3	18:K:295:ILE:HD12	1.97	0.46
18:K:342:SER:HA	18:K:344:ARG:NH1	2.31	0.46
19:L:88:TYR:CZ	20:M:26:SER:HA	2.51	0.46
20:M:375:ASN:HD22	20:M:378:GLU:HG3	1.81	0.46
21:N:36:TRP:CG	21:N:37:SER:N	2.83	0.46
21:N:365:PHE:HD1	21:N:399:PHE:O	1.98	0.46
21:N:473:ASP:HB3	21:N:510:HIS:CE1	2.50	0.46
21:N:474:SER:O	21:N:478:GLY:N	2.49	0.46
21:N:585:ARG:HE	21:N:619:CYS:HB2	1.80	0.46
21:N:680:LYS:HG2	21:N:684:SER:OG	2.15	0.46
21:N:338:PHE:HB3	21:N:708:ALA:HA	1.98	0.46
22:O:326:HIS:HA	22:O:329:MET:HB3	1.97	0.46
22:O:27:GLU:HA	22:O:58:ARG:HH22	1.80	0.46
22:O:92:PHE:CD2	22:O:96:LEU:HD22	2.49	0.46
23:P:133:GLU:N	23:P:136:ARG:HE	2.12	0.46
23:P:407:ASN:C	23:P:409:SER:N	2.69	0.46
24:Q:124:PHE:HA	24:Q:127:ARG:CG	2.38	0.46
24:Q:227:CYS:HB3	24:Q:334:HIS:CE1	2.50	0.46
25:R:148:ASP:C	25:R:152:LYS:HZ3	2.19	0.46
25:R:152:LYS:O	25:R:156:LYS:NZ	2.41	0.46
24:Q:382:LEU:C	25:R:263:ARG:HH12	2.17	0.46
26:S:131:THR:HA	26:S:134:ILE:HD12	1.98	0.46
26:S:13:SER:HA	26:S:16:ASN:ND2	2.29	0.46
26:S:237:ILE:O	26:S:240:ASP:HB2	2.16	0.46
26:S:425:ARG:HD2	27:T:156:SER:H	1.81	0.46
26:S:479:MET:CG	26:S:483:GLU:OE1	2.59	0.46
27:T:213:ASN:HB3	27:T:216:GLU:CG	2.41	0.46
28:U:94:HIS:CE1	28:U:122:ILE:HA	2.50	0.46
28:U:165:GLU:O	28:U:169:ILE:N	2.48	0.46
28:U:175:LEU:O	28:U:176:ARG:HB3	2.15	0.46
30:W:188:SER:C	30:W:190:ILE:H	2.18	0.46
30:W:55:ALA:O	30:W:86:HIS:CD2	2.68	0.46
30:W:9:VAL:HG11	30:W:87:MET:SD	2.55	0.46
31:X:35:ILE:HG23	31:X:48:PHE:CD1	2.51	0.46
33:Z:479:THR:HG23	33:Z:508:LEU:HD22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:175:LYS:NZ	33:Z:790:MET:SD	2.74	0.46
4:4:42:VAL:HA	4:4:206:VAL:HA	1.97	0.46
5:5:120:PHE:CE1	5:5:132:GLU:OE2	2.68	0.46
1:8:30:THR:HG23	1:8:158:GLY:C	2.36	0.46
2:9:133:MET:HE2	2:9:165:LEU:HA	1.98	0.46
2:9:58:ASP:OD1	2:9:74:ARG:NE	2.37	0.46
8:A:126:GLN:OE1	9:B:84:VAL:HG13	2.16	0.46
8:A:84:ASN:O	8:A:140:ILE:N	2.35	0.46
9:B:94:HIS:CD2	9:B:98:LYS:HZ3	2.33	0.46
10:C:196:THR:CA	10:C:199:LYS:HD3	2.45	0.46
10:C:70:ASN:HB3	10:C:73:ILE:HB	1.98	0.46
11:D:216:LYS:HB2	11:D:220:ASP:HB3	1.98	0.46
11:D:42:VAL:HB	11:D:215:VAL:CG1	2.46	0.46
12:E:240:ILE:CA	12:E:243:LEU:CG	2.94	0.46
12:E:70:ILE:HB	12:E:74:ILE:HG22	1.97	0.46
13:F:187:ASP:O	13:F:191:LYS:N	2.33	0.46
13:F:26:LEU:HA	13:F:29:ILE:CD1	2.46	0.46
14:G:11:SER:HB2	14:G:14:VAL:CG2	2.46	0.46
14:G:171:SER:O	14:G:175:GLU:HG2	2.16	0.46
15:H:170:GLU:HB3	15:H:171:GLY:H	1.44	0.46
15:H:168:ILE:HG12	15:H:186:PRO:CG	2.42	0.46
2:9:226:ARG:NH1	15:H:210:ASP:OD1	125.05	0.46
15:H:219:GLU:CD	15:H:222:ARG:HE	2.19	0.46
16:I:120:VAL:HG22	16:I:128:TYR:H	1.81	0.46
16:I:261:PRO:O	16:I:265:ARG:N	2.36	0.46
16:I:261:PRO:HG3	16:I:304:ARG:O	2.15	0.46
16:I:185:GLY:HA3	16:I:361:ILE:HG13	1.97	0.46
18:K:215:PRO:O	18:K:217:THR:HG23	2.15	0.46
18:K:346:ARG:O	18:K:372:ILE:HD11	2.15	0.46
19:L:130:GLY:H	19:L:154:THR:HG22	1.80	0.46
20:M:182:ASP:O	20:M:363:ILE:HD13	2.15	0.46
20:M:386:PHE:CZ	20:M:423:GLN:HB2	2.49	0.46
21:N:426:ILE:HA	21:N:429:GLU:OE1	2.15	0.46
21:N:365:PHE:HZ	21:N:448:LEU:HD12	1.81	0.46
21:N:679:ASN:HA	21:N:682:PHE:CD2	2.50	0.46
22:O:4:ASN:ND2	22:O:30:GLU:OE2	2.48	0.46
22:O:306:ARG:CZ	22:O:351:SER:HA	2.46	0.46
22:O:371:VAL:HA	22:O:374:ASN:HB3	1.97	0.46
24:Q:174:LEU:HG	24:Q:178:HIS:CE1	2.50	0.46
24:Q:214:THR:HA	24:Q:217:GLU:HB2	1.96	0.46
24:Q:278:VAL:HA	24:Q:281:ILE:HD12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:317:ALA:O	24:Q:321:TYR:HD2	1.99	0.46
24:Q:267:LEU:HD22	24:Q:331:THR:OG1	2.16	0.46
25:R:347:THR:HA	25:R:389:GLU:CD	2.36	0.46
25:R:71:LEU:CD1	25:R:76:GLN:HA	2.45	0.46
26:S:280:ASN:CB	26:S:289:ALA:HB2	2.43	0.46
26:S:330:LEU:HD12	26:S:346:TYR:HA	1.98	0.46
27:T:160:ALA:HA	27:T:163:LEU:HD12	1.97	0.46
27:T:260:ILE:O	27:T:264:MET:HG3	2.15	0.46
28:U:263:LYS:O	28:U:266:THR:N	2.23	0.46
29:V:26:THR:HB	29:V:28:TYR:OH	2.16	0.46
30:W:27:GLU:HA	30:W:30:ILE:CD1	2.46	0.46
31:X:51:ARG:HB2	31:X:51:ARG:CZ	2.45	0.46
33:Z:151:HIS:ND1	33:Z:152:GLU:N	2.64	0.46
33:Z:303:ASP:O	33:Z:307:HIS:N	2.24	0.46
33:Z:386:VAL:O	33:Z:390:LEU:N	2.49	0.46
33:Z:456:GLY:N	33:Z:474:LEU:HD22	2.30	0.46
33:Z:841:GLU:O	33:Z:845:LEU:N	2.29	0.46
33:Z:886:VAL:HG12	33:Z:896:LYS:HZ3	1.80	0.46
33:Z:312:TYR:CE1	33:Z:914:LEU:HD23	2.51	0.46
2:2:46:SER:O	2:2:175:LEU:N	2.45	0.46
3:3:208:TYR:O	3:3:211:GLU:HB3	2.15	0.46
3:3:68:ALA:HA	3:3:71:THR:OG1	2.16	0.46
4:4:201:ASN:HB3	4:4:221:THR:HG22	1.98	0.46
4:4:38:ASN:OD1	4:4:39:ASN:N	2.45	0.46
1:1:213:ARG:CZ	4:4:58:LYS:HE2	2.46	0.46
4:4:79:ALA:HB2	5:5:129:CYS:HB2	1.97	0.46
5:5:26:ASP:OD2	5:5:181:SER:HA	2.16	0.46
5:5:66:MET:O	5:5:70:LYS:HG3	2.16	0.46
6:6:196:GLN:H	6:6:196:GLN:CD	2.19	0.46
7:7:141:HIS:HA	7:7:144:ARG:NH2	2.31	0.46
7:7:180:THR:OG1	7:7:183:GLU:HB2	2.14	0.46
7:7:243:ASP:OD1	7:7:245:TYR:N	2.38	0.46
1:8:218:GLY:C	1:8:220:GLY:H	2.19	0.46
1:8:62:VAL:HG12	1:8:224:LEU:HD22	1.97	0.46
2:9:192:VAL:HB	2:9:197:ASP:HB2	1.97	0.46
8:A:39:ASN:OD1	8:A:173:PRO:HG2	2.16	0.46
9:B:4:ARG:HD3	13:F:123:TYR:HD2	1.80	0.46
10:C:207:THR:HA	10:C:239:LEU:HD21	1.98	0.46
12:E:21:LEU:O	12:E:25:GLU:HG2	2.15	0.46
14:G:169:ARG:CB	14:G:173:LYS:HE3	2.46	0.46
15:H:191:ILE:HG12	15:H:192:ASP:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:247:ILE:O	16:I:282:ASP:N	2.34	0.46
18:K:96:ILE:HB	18:K:113:THR:HG21	1.97	0.46
18:K:363:ALA:CA	18:K:401:VAL:HB	2.46	0.46
19:L:218:VAL:HG23	19:L:324:ILE:HA	1.98	0.46
19:L:251:ILE:CG2	19:L:259:SER:HA	2.45	0.46
19:L:393:ASN:HB3	19:L:397:GLU:HG2	1.98	0.46
20:M:18:LEU:O	20:M:22:ILE:N	2.46	0.46
20:M:383:THR:HG22	20:M:423:GLN:OE1	2.16	0.46
21:N:323:GLY:O	21:N:328:PHE:HB3	2.16	0.46
21:N:364:LYS:HB3	21:N:400:ILE:CG1	2.45	0.46
21:N:377:GLY:H	21:N:411:ILE:HG23	1.80	0.46
21:N:559:TYR:C	21:N:594:VAL:HG22	2.36	0.46
17:J:52:ASN:HB3	21:N:611:LYS:CE	2.45	0.46
22:O:303:LYS:HD3	28:U:260:ASN:ND2	2.31	0.46
22:O:367:LYS:HZ2	28:U:201:GLN:NE2	2.14	0.46
22:O:60:ARG:O	22:O:63:ASP:HB3	2.15	0.46
22:O:81:TYR:C	22:O:85:SER:H	2.20	0.46
22:O:82:LEU:O	22:O:86:LEU:N	2.49	0.46
23:P:123:ARG:HB3	23:P:127:GLU:HB3	1.96	0.46
23:P:223:LEU:N	23:P:226:LYS:NZ	2.64	0.46
23:P:254:GLU:O	23:P:258:LYS:N	2.48	0.46
23:P:394:ASN:HD22	23:P:397:ALA:CB	2.27	0.46
24:Q:275:ILE:HD11	24:Q:306:TYR:HD2	1.79	0.46
24:Q:332:ARG:HD2	24:Q:336:ASN:HD21	1.80	0.46
25:R:271:ILE:HG23	25:R:272:ASP:H	1.81	0.46
26:S:146:LEU:HD23	26:S:150:LYS:HA	1.97	0.46
26:S:155:LEU:HD23	26:S:155:LEU:HA	1.65	0.46
26:S:177:ASN:HB3	26:S:228:GLU:CD	2.35	0.46
26:S:338:MET:CA	26:S:341:SER:H	2.29	0.46
26:S:338:MET:HG3	26:S:343:LEU:H	1.80	0.46
26:S:358:LYS:O	26:S:362:SER:N	2.34	0.46
25:R:381:ILE:N	26:S:398:THR:O	2.48	0.46
27:T:187:ASP:OD1	27:T:224:ARG:NH2	2.49	0.46
27:T:86:LYS:CA	27:T:89:TYR:HB3	2.46	0.46
28:U:27:THR:HG23	28:U:31:LYS:CB	2.45	0.46
29:V:108:TYR:HB2	29:V:139:VAL:HB	1.97	0.46
28:U:126:LYS:O	29:V:208:LYS:NZ	2.48	0.46
29:V:259:LYS:C	29:V:261:LEU:H	2.19	0.46
33:Z:246:CYS:O	33:Z:249:MET:HB2	2.16	0.46
33:Z:318:LYS:HB2	33:Z:874:ASN:OD1	2.16	0.46
33:Z:440:LEU:HD21	33:Z:477:TYR:CD1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:496:ALA:O	33:Z:500:SER:HB2	2.16	0.46
33:Z:889:VAL:HB	33:Z:895:LEU:HA	1.98	0.46
1:1:211:THR:OG1	1:1:217:VAL:HG12	2.15	0.46
2:2:162:TYR:HB2	2:2:175:LEU:HD13	1.97	0.46
2:2:50:ASP:N	2:2:201:THR:O	2.35	0.46
2:2:254:PHE:HB2	4:4:152:TYR:CE2	2.50	0.46
2:2:48:LYS:CB	2:2:53:VAL:HG12	2.45	0.46
2:2:69:PHE:HB2	2:2:72:VAL:HG23	1.98	0.46
4:4:65:ARG:NH1	9:B:224:TYR:CE2	2.84	0.46
2:9:137:ARG:HD3	2:9:166:LEU:O	2.16	0.46
2:9:188:LEU:HA	2:9:191:VAL:HB	1.98	0.46
2:9:69:PHE:HB2	2:9:72:VAL:HG23	1.98	0.46
9:B:188:ALA:HA	9:B:191:ILE:HD12	1.98	0.46
9:B:88:LYS:O	9:B:92:VAL:HG12	2.16	0.46
9:B:7:PHE:CE1	10:C:7:ASP:HA	2.51	0.46
12:E:91:HIS:O	12:E:94:THR:HB	2.16	0.46
13:F:17:GLY:O	14:G:30:ALA:HB2	2.16	0.46
13:F:218:LYS:HE3	13:F:218:LYS:HB2	1.74	0.46
14:G:8:TYR:HA	14:G:14:VAL:HG11	1.98	0.46
14:G:233:GLY:O	14:G:236:LEU:HB3	2.16	0.46
15:H:298:ALA:HB2	15:H:306:ILE:HD11	1.98	0.46
15:H:353:PHE:CE2	15:H:371:ILE:HD11	2.50	0.46
16:I:137:ASP:OD1	16:I:138:LYS:N	2.49	0.46
17:J:26:LYS:NZ	21:N:107:GLU:N	2.44	0.46
18:K:408:GLU:O	18:K:412:ALA:N	2.44	0.46
18:K:85:GLU:O	18:K:89:ILE:N	2.45	0.46
19:L:178:ILE:HD11	19:L:182:GLY:HA3	1.96	0.46
19:L:257:GLY:H	19:L:303:ARG:NE	2.14	0.46
19:L:226:THR:HB	19:L:352:PRO:HD3	1.97	0.46
19:L:401:PHE:O	19:L:405:ASP:N	2.33	0.46
21:N:34:GLN:OE1	26:S:208:ILE:HG23	2.16	0.46
21:N:450:ILE:HG23	21:N:451:GLY:N	2.24	0.46
21:N:75:TYR:HB3	21:N:104:LYS:HE2	1.97	0.46
22:O:190:TYR:CA	22:O:193:LEU:HB3	2.42	0.46
22:O:336:LEU:HD23	22:O:337:LEU:HA	1.98	0.46
22:O:44:SER:N	22:O:47:LYS:HG2	2.30	0.46
23:P:101:MET:HE3	23:P:115:ARG:HG3	1.98	0.46
23:P:188:ILE:O	23:P:191:GLY:N	2.47	0.46
23:P:361:THR:O	23:P:365:LEU:HG	2.15	0.46
23:P:91:LEU:HA	23:P:130:ILE:CD1	2.44	0.46
24:Q:312:LEU:HG	24:Q:316:THR:OG1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:109:LYS:HD3	25:R:140:TYR:CD1	2.50	0.46
25:R:165:GLY:O	25:R:168:ILE:HB	2.16	0.46
25:R:222:ARG:HA	25:R:224:PHE:CE2	2.50	0.46
25:R:342:LEU:HD21	25:R:390:THR:HG23	1.97	0.46
25:R:395:ASN:OD1	25:R:396:LYS:N	2.49	0.46
25:R:407:GLY:O	25:R:411:LEU:HG	2.15	0.46
25:R:62:TYR:CD2	25:R:66:LEU:HB2	2.51	0.46
25:R:68:GLU:OE2	25:R:81:HIS:CE1	2.69	0.46
25:R:89:ASN:ND2	25:R:92:ILE:HB	2.31	0.46
26:S:360:PHE:HD2	26:S:384:ARG:NH1	2.14	0.46
26:S:382:ARG:HD2	27:T:153:MET:SD	2.55	0.46
26:S:4:THR:HA	26:S:7:MET:HB2	1.97	0.46
28:U:12:PRO:O	28:U:16:LEU:HD13	2.16	0.46
23:P:435:LYS:NZ	28:U:155:LEU:HD12	2.30	0.46
28:U:168:GLU:CA	28:U:171:VAL:HB	2.45	0.46
28:U:33:CYS:O	28:U:95:SER:N	2.48	0.46
28:U:6:GLU:HA	28:U:44:SER:C	2.36	0.46
28:U:86:LYS:HA	28:U:88:LYS:HZ3	1.80	0.46
29:V:205:LYS:HE2	29:V:205:LYS:HB2	1.80	0.46
31:X:85:ARG:NH1	31:X:87:PHE:CD1	2.84	0.46
33:Z:181:GLY:HA2	33:Z:263:ALA:HA	1.97	0.46
33:Z:293:MET:O	33:Z:297:VAL:HG23	2.16	0.46
33:Z:295:ARG:O	33:Z:299:ASP:N	2.24	0.46
33:Z:301:THR:HG23	33:Z:306:MET:HG2	1.97	0.46
33:Z:373:GLY:HA3	33:Z:406:TRP:CE2	2.51	0.46
33:Z:413:ASP:C	33:Z:898:HIS:HB2	2.36	0.46
33:Z:493:LEU:HD23	33:Z:497:PHE:CE2	2.50	0.46
33:Z:781:GLY:O	33:Z:785:VAL:HG22	2.15	0.46
1:1:179:TYR:CD1	1:1:188:LYS:HA	2.51	0.46
1:1:28:GLY:HA3	1:1:49:ILE:HG13	1.97	0.46
2:2:58:ASP:OD1	2:2:74:ARG:NE	2.37	0.46
2:2:89:ASP:HB3	2:2:92:ASP:HB2	1.98	0.46
3:3:167:LYS:O	3:3:171:VAL:HG23	2.16	0.46
3:3:70:ASP:O	3:3:74:ILE:HG13	2.16	0.46
4:4:121:GLY:HA3	4:4:145:HIS:ND1	2.31	0.46
5:5:120:PHE:HE1	5:5:132:GLU:OE2	1.99	0.46
7:7:217:SER:OG	7:7:218:ASN:N	2.49	0.46
7:7:250:VAL:O	7:7:265:ASN:HA	2.16	0.46
1:8:47:ARG:NH1	1:8:215:ILE:O	2.49	0.46
2:9:89:ASP:HB3	2:9:92:ASP:HB2	1.98	0.46
8:A:37:GLN:NE2	14:G:20:ARG:HG2	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:85:LEU:HD21	9:B:130:PHE:CZ	2.50	0.46
9:B:188:ALA:O	9:B:192:ALA:N	2.31	0.46
9:B:27:ALA:O	9:B:30:GLN:HB2	2.16	0.46
10:C:48:ALA:HB1	10:C:65:LYS:CE	2.46	0.46
7:7:152:ALA:HB1	11:D:101:GLU:OE1	2.16	0.46
11:D:116:VAL:O	11:D:119:ARG:HB3	2.16	0.46
11:D:148:TYR:HA	11:D:157:SER:O	2.16	0.46
11:D:35:GLY:O	11:D:162:GLN:N	2.30	0.46
12:E:198:LEU:HD21	12:E:242:GLU:CD	3.91	0.46
13:F:146:GLU:O	13:F:153:VAL:HA	2.16	0.46
13:F:217:GLY:HA3	13:F:220:THR:HB	1.97	0.46
14:G:88:LEU:HD13	14:G:119:TYR:CD2	2.51	0.46
15:H:340:LEU:HB3	15:H:370:ARG:HH22	1.81	0.46
16:I:174:ASP:OD1	16:I:175:LYS:N	2.48	0.46
16:I:236:VAL:O	16:I:240:THR:N	2.27	0.46
18:K:344:ARG:HA	18:K:348:GLU:OE1	2.16	0.46
21:N:203:ARG:HA	21:N:206:ILE:HG12	1.97	0.46
21:N:276:GLU:O	21:N:280:GLN:HG2	2.16	0.46
21:N:362:TRP:O	21:N:365:PHE:HB3	2.15	0.46
21:N:525:ASN:HB2	21:N:554:THR:HG23	1.98	0.46
21:N:533:ASP:CA	21:N:536:ILE:HB	2.43	0.46
21:N:79:VAL:O	21:N:83:LEU:N	2.28	0.46
21:N:884:PHE:CE2	21:N:896:PHE:HA	2.49	0.46
22:O:217:LEU:O	22:O:220:SER:N	2.49	0.46
22:O:272:VAL:HG13	22:O:273:GLN:N	2.31	0.46
22:O:310:PHE:CE2	22:O:346:GLU:HA	2.50	0.46
23:P:287:ASP:OD1	23:P:297:GLU:HB3	2.16	0.46
23:P:291:LYS:HB2	23:P:293:LEU:HD22	1.97	0.46
23:P:320:PRO:HD2	23:P:322:LEU:HB2	1.98	0.46
23:P:363:LEU:O	23:P:367:GLU:HG3	2.16	0.46
23:P:421:GLU:O	23:P:424:GLU:HB3	2.15	0.46
23:P:435:LYS:HG2	23:P:439:MET:HE2	1.98	0.46
24:Q:348:CYS:O	24:Q:352:GLU:HG3	2.16	0.46
25:R:144:ILE:HG21	25:R:146:ASP:OD2	2.15	0.46
25:R:263:ARG:NE	25:R:297:TYR:HE1	2.09	0.46
26:S:215:MET:HB2	26:S:215:MET:HE2	1.73	0.46
26:S:237:ILE:O	26:S:241:PHE:N	2.37	0.46
27:T:94:HIS:CE1	27:T:97:SER:C	2.89	0.46
22:O:367:LYS:NZ	28:U:201:GLN:HE22	2.13	0.46
28:U:55:PRO:HD2	28:U:72:TYR:CD2	2.51	0.46
19:L:99:GLN:HG3	28:U:85:ALA:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:192:ASN:CA	29:V:232:GLU:OE2	2.64	0.46
29:V:26:THR:HG23	29:V:61:TYR:HB3	1.98	0.46
31:X:12:ALA:HB3	31:X:33:ILE:HG22	1.98	0.46
33:Z:328:ASP:CA	33:Z:332:ASN:H	2.28	0.46
33:Z:342:LEU:H	33:Z:345:GLU:HB2	1.79	0.46
33:Z:360:SER:OG	33:Z:361:HIS:N	2.49	0.46
33:Z:400:ILE:CG2	33:Z:422:ILE:HG12	2.46	0.46
33:Z:445:PRO:HB2	33:Z:484:LYS:HB2	1.98	0.46
33:Z:433:LEU:HD23	33:Z:455:ILE:HG12	1.97	0.46
1:1:62:VAL:HG12	1:1:224:LEU:HD22	1.97	0.46
3:3:148:SER:HG	3:3:188:SER:HG	1.64	0.46
5:5:113:ASN:N	5:5:118:LYS:O	2.39	0.46
5:5:171:LEU:O	5:5:175:ALA:N	2.37	0.46
5:5:31:SER:O	5:5:34:LEU:HB3	2.16	0.46
6:6:182:LYS:HG2	6:6:191:GLN:HA	1.98	0.46
6:6:91:SER:HA	6:6:94:SER:HB3	1.97	0.46
7:7:129:PHE:CD1	7:7:130:TRP:N	2.84	0.46
7:7:133:TRP:CE3	7:7:134:LEU:HA	2.51	0.46
2:9:131:THR:HG22	2:9:135:GLN:NE2	2.31	0.46
2:9:226:ARG:NE	2:9:247:VAL:O	2.38	0.46
2:9:34:THR:N	2:9:142:PRO:HD2	2.31	0.46
8:A:20:SER:OG	8:A:24:ARG:N	2.48	0.46
8:A:130:GLN:HG3	9:B:128:ARG:O	2.15	0.46
9:B:38:LYS:HE2	9:B:160:LYS:HA	1.98	0.46
9:B:78:MET:HB2	9:B:81:ASP:CG	2.36	0.46
10:C:100:LYS:HB3	10:C:100:LYS:HE3	1.68	0.46
10:C:194:LEU:HD23	10:C:197:LEU:HD12	1.98	0.46
10:C:196:THR:O	10:C:200:THR:OG1	2.30	0.46
10:C:69:LEU:HD21	10:C:88:ILE:HA	1.97	0.46
11:D:42:VAL:N	11:D:138:PHE:HZ	2.14	0.46
12:E:73:HIS:NE2	12:E:106:ASP:HB3	2.31	0.46
12:E:154:GLN:HG2	12:E:166:ARG:CZ	2.46	0.46
12:E:182:GLU:CD	12:E:206:GLN:HE22	2.20	0.46
12:E:56:SER:O	12:E:59:LEU:HB3	2.16	0.46
13:F:40:SER:HB2	13:F:183:ASP:OD1	2.15	0.46
8:A:62:LYS:NZ	14:G:181:ASP:CG	2.70	0.46
15:H:101:ARG:HG2	15:H:150:LYS:HE2	1.98	0.46
15:H:194:SER:OG	15:H:195:VAL:N	2.49	0.46
15:H:288:ALA:CA	15:H:335:GLU:HG2	2.43	0.46
15:H:272:ILE:N	15:H:305:ILE:O	2.33	0.46
16:I:403:ALA:CB	16:I:411:VAL:HG22	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:422:ARG:HB3	17:J:307:PRO:CD	2.47	0.46
17:J:250:ILE:HG12	17:J:292:MET:HE1	1.98	0.46
17:J:337:LEU:CA	17:J:377:VAL:H	2.23	0.46
16:I:163:ASP:HB2	17:J:77:LYS:HE2	1.98	0.46
17:J:79:VAL:HG12	17:J:80:SER:N	2.31	0.46
17:J:87:LYS:HG2	17:J:88:VAL:O	2.16	0.46
18:K:281:ARG:HG2	18:K:289:ASP:HB3	1.98	0.46
18:K:283:ASP:HB3	18:K:285:GLN:HE21	1.81	0.46
18:K:394:ALA:CB	18:K:399:ARG:HB2	2.43	0.46
19:L:242:ASN:N	19:L:276:CYS:HA	2.30	0.46
19:L:245:PHE:CE1	19:L:281:ASP:HB2	2.50	0.46
19:L:248:ALA:HB1	19:L:285:ALA:HB3	1.98	0.46
19:L:65:LEU:HB3	19:L:69:ARG:HH12	1.81	0.46
20:M:178:GLU:H	20:M:237:ALA:HB2	1.80	0.46
20:M:22:ILE:HA	20:M:25:LEU:HD12	1.96	0.46
20:M:223:PRO:HB2	20:M:351:LEU:HD21	1.98	0.46
20:M:373:ASP:HB2	20:M:412:HIS:H	1.82	0.46
21:N:20:VAL:HG11	27:T:31:LYS:HD3	1.98	0.46
21:N:300:ASN:O	21:N:304:LEU:HG	2.15	0.46
21:N:606:VAL:O	21:N:609:LEU:N	2.49	0.46
21:N:684:SER:O	21:N:688:ASN:N	2.37	0.46
21:N:718:GLU:CA	21:N:725:LEU:HA	2.46	0.46
21:N:90:ASP:O	21:N:93:GLU:HB2	2.16	0.46
23:P:325:ASP:O	23:P:337:HIS:NE2	2.49	0.46
23:P:375:GLN:O	23:P:378:THR:HB	2.16	0.46
24:Q:246:TYR:O	24:Q:250:THR:N	2.39	0.46
24:Q:413:LEU:HA	24:Q:416:VAL:CB	2.40	0.46
24:Q:418:GLN:CA	24:Q:421:LYS:NZ	2.79	0.46
25:R:191:LEU:HA	25:R:194:VAL:HG12	1.97	0.46
25:R:198:ILE:CG1	25:R:200:LYS:CG	2.51	0.46
25:R:229:LYS:HZ1	25:R:230:LEU:HD12	1.80	0.46
25:R:360:SER:O	25:R:364:LEU:HB3	2.16	0.46
24:Q:424:ASP:CG	25:R:416:LYS:HZ1	2.19	0.46
25:R:421:VAL:HG12	25:R:422:ARG:N	2.29	0.46
26:S:217:PHE:O	26:S:220:ILE:N	2.49	0.46
26:S:214:MET:HB3	26:S:233:LEU:HD23	1.98	0.46
26:S:241:PHE:CD2	26:S:247:VAL:HA	2.51	0.46
26:S:376:THR:HA	26:S:378:GLN:NE2	2.27	0.46
27:T:199:PHE:HA	27:T:234:TYR:HA	1.97	0.46
27:T:9:LYS:O	27:T:13:ILE:HG12	2.15	0.46
22:O:367:LYS:NZ	28:U:201:GLN:CD	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:283:ARG:O	28:U:283:ARG:HD3	2.17	0.46
28:U:126:LYS:HA	29:V:208:LYS:NZ	2.31	0.46
24:Q:415:LEU:CD1	29:V:258:GLU:HA	2.46	0.46
30:W:177:GLY:O	30:W:179:ARG:N	2.40	0.46
30:W:67:ALA:CA	30:W:68:GLU:HB2	2.46	0.46
33:Z:298:PHE:HE1	33:Z:307:HIS:HE1	1.64	0.46
33:Z:506:LEU:O	33:Z:510:LEU:N	2.32	0.46
2:2:137:ARG:HD3	2:2:166:LEU:O	2.16	0.45
2:2:192:VAL:HB	2:2:197:ASP:HB2	1.97	0.45
3:3:38:ARG:HD2	3:3:187:SER:C	2.36	0.45
3:3:38:ARG:C	3:3:52:LYS:NZ	2.68	0.45
3:3:80:TYR:HB2	8:A:106:TYR:CD1	2.51	0.45
5:5:59:ASP:O	5:5:63:LEU:HG	2.16	0.45
6:6:3:ILE:HD12	6:6:176:PHE:CG	2.50	0.45
6:6:43:LEU:O	6:6:105:GLY:N	2.49	0.45
6:6:4:ILE:HG13	6:6:47:ALA:HB2	1.98	0.45
1:8:133:LEU:N	1:8:226:VAL:HG11	2.31	0.45
1:8:131:ALA:HA	1:8:140:ALA:O	2.16	0.45
1:8:32:LEU:O	1:8:43:ALA:N	2.38	0.45
2:9:122:PRO:HB3	2:9:151:GLY:HA3	1.98	0.45
2:9:39:VAL:O	2:9:90:ILE:HG12	2.16	0.45
8:A:29:GLU:O	8:A:32:PHE:HB2	2.16	0.45
9:B:147:LEU:O	9:B:159:TRP:N	2.46	0.45
11:D:93:ALA:O	11:D:97:ARG:HG3	2.16	0.45
12:E:243:LEU:O	12:E:246:LYS:N	3.17	0.45
13:F:231:ALA:HA	13:F:234:ILE:CD1	2.47	0.45
14:G:116:LEU:H	14:G:116:LEU:HG	1.49	0.45
14:G:134:VAL:O	14:G:153:PRO:HG3	2.16	0.45
14:G:174:ALA:O	14:G:178:LYS:HG3	2.16	0.45
14:G:47:VAL:HG13	14:G:218:TRP:HB3	1.98	0.45
14:G:95:GLU:O	14:G:98:SER:HB3	2.16	0.45
15:H:271:PHE:HE2	15:H:273:ARG:HB2	1.81	0.45
15:H:330:GLN:HG2	20:M:250:GLN:HE22	1.80	0.45
15:H:66:LYS:HG3	16:I:152:LYS:HE3	1.98	0.45
15:H:97:LEU:HD21	15:H:173:ARG:CB	2.42	0.45
16:I:107:GLY:O	16:I:147:VAL:N	2.33	0.45
15:H:69:VAL:CG1	16:I:152:LYS:HB3	2.44	0.45
16:I:387:LEU:HB3	16:I:391:ASP:HB2	1.98	0.45
17:J:186:ILE:HA	17:J:292:MET:O	2.17	0.45
17:J:32:LEU:CA	17:J:35:ARG:HB3	2.42	0.45
18:K:141:ARG:HH11	19:L:153:LEU:HD12	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:244:ILE:HB	19:L:278:ILE:HD13	1.97	0.45
19:L:400:PHE:HD2	19:L:421:LYS:NZ	2.14	0.45
15:H:144:LYS:N	20:M:75:LEU:H	2.13	0.45
21:N:194:ILE:HA	21:N:203:ARG:NH1	2.31	0.45
21:N:422:TYR:O	21:N:425:ASN:HB2	2.16	0.45
21:N:498:ILE:HG13	21:N:524:ILE:HD11	1.99	0.45
21:N:529:GLN:HB2	21:N:530:GLU:OE1	2.16	0.45
17:J:48:ARG:NH1	21:N:611:LYS:HD3	2.31	0.45
21:N:635:GLN:NE2	21:N:672:ASN:OD1	2.41	0.45
21:N:703:GLN:C	21:N:707:ASN:HD22	2.18	0.45
22:O:12:SER:O	22:O:16:MET:O	2.33	0.45
22:O:233:LEU:HA	22:O:236:HIS:CD2	2.36	0.45
22:O:342:ASP:O	22:O:347:LEU:N	2.26	0.45
23:P:123:ARG:CG	23:P:129:LYS:HE3	2.45	0.45
23:P:278:ASN:HA	23:P:281:ILE:CG1	2.41	0.45
23:P:412:LEU:O	23:P:416:SER:OG	2.21	0.45
24:Q:74:LEU:HD23	24:Q:104:PHE:CZ	2.51	0.45
24:Q:19:GLN:HG3	24:Q:22:GLU:H	1.81	0.45
24:Q:293:SER:HB2	24:Q:324:GLU:CD	2.36	0.45
25:R:188:LYS:HA	25:R:191:LEU:HB3	1.98	0.45
25:R:207:ARG:HA	25:R:210:TYR:HB3	1.98	0.45
25:R:247:GLU:OE2	25:R:283:THR:OG1	2.34	0.45
25:R:270:VAL:HA	25:R:276:LEU:HD11	1.97	0.45
25:R:31:PHE:O	25:R:35:GLN:HG2	2.16	0.45
25:R:368:LEU:O	25:R:371:PHE:HB2	2.16	0.45
25:R:93:LYS:HG2	25:R:94:PHE:N	2.31	0.45
26:S:149:SER:OG	26:S:152:LEU:HD21	2.16	0.45
26:S:214:MET:SD	26:S:233:LEU:HG	2.56	0.45
26:S:279:ILE:O	26:S:283:GLN:HG2	2.16	0.45
26:S:317:HIS:CE1	26:S:321:GLN:NE2	2.84	0.45
26:S:290:ASN:CB	26:S:320:ILE:HG21	2.35	0.45
26:S:48:LEU:O	26:S:52:TYR:N	2.42	0.45
26:S:425:ARG:HD2	27:T:156:SER:OG	2.16	0.45
27:T:224:ARG:HB3	27:T:226:TRP:CE2	2.51	0.45
28:U:20:ASP:HA	28:U:23:GLU:HB2	1.97	0.45
32:Y:79:ALA:O	32:Y:83:ARG:HB3	2.16	0.45
33:Z:423:GLY:HA2	33:Z:426:TYR:HB2	1.97	0.45
1:1:40:ALA:HB2	1:1:139:GLY:CA	2.46	0.45
2:2:39:VAL:O	2:2:90:ILE:HG12	2.16	0.45
4:4:105:VAL:HG21	4:4:138:HIS:HB2	1.97	0.45
5:5:85:GLU:HG3	5:5:120:PHE:CZ	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:56:PHE:HB2	6:6:98:TYR:CD1	2.52	0.45
5:5:89:GLN:HE21	9:B:102:GLY:HA3	1.80	0.45
9:B:12:PHE:HB3	10:C:24:TYR:CB	2.47	0.45
9:B:146:SER:HB2	9:B:148:TYR:CE2	2.52	0.45
9:B:181:ASP:OD1	9:B:182:GLU:HG3	2.17	0.45
9:B:188:ALA:CA	9:B:191:ILE:HB	2.45	0.45
10:C:83:ASP:HB2	10:C:133:VAL:HG21	1.99	0.45
12:E:182:GLU:O	12:E:186:GLU:HG2	2.17	0.45
13:F:104:ALA:HB3	13:F:107:ARG:CB	2.46	0.45
13:F:43:HIS:CB	13:F:215:ILE:HD11	2.39	0.45
15:H:176:VAL:HG11	15:H:180:LYS:HG2	1.98	0.45
17:J:187:LEU:O	17:J:294:THR:N	2.50	0.45
17:J:84:VAL:HG12	17:J:96:VAL:O	2.15	0.45
18:K:270:PHE:CG	18:K:271:ILE:N	2.84	0.45
18:K:363:ALA:HB2	18:K:401:VAL:HB	1.98	0.45
19:L:343:LEU:HD23	19:L:343:LEU:HA	1.75	0.45
19:L:87:LEU:HA	19:L:90:LYS:HE2	1.99	0.45
21:N:300:ASN:HA	21:N:303:LEU:HD12	1.97	0.45
21:N:365:PHE:HB2	21:N:399:PHE:CB	2.41	0.45
21:N:344:THR:HA	21:N:374:ILE:HG22	1.98	0.45
21:N:406:TYR:HA	21:N:449:GLY:CA	2.46	0.45
21:N:376:LYS:CA	21:N:411:ILE:HG12	2.41	0.45
21:N:509:GLN:O	21:N:510:HIS:CG	2.69	0.45
21:N:555:ILE:HB	21:N:571:LEU:HD21	1.98	0.45
21:N:742:TRP:HE1	21:N:744:PRO:HB2	1.82	0.45
21:N:762:ARG:HB3	21:N:764:SER:H	1.81	0.45
22:O:168:THR:HB	22:O:172:TYR:CE2	2.51	0.45
22:O:26:PHE:CZ	22:O:43:GLU:HG3	2.51	0.45
22:O:44:SER:H	22:O:47:LYS:CD	2.29	0.45
22:O:58:ARG:HG2	22:O:61:LEU:HB2	1.98	0.45
23:P:133:GLU:OE1	23:P:136:ARG:HG3	2.16	0.45
23:P:133:GLU:OE2	23:P:137:ALA:HB2	2.16	0.45
23:P:163:LEU:HD23	23:P:180:ILE:HG13	1.98	0.45
23:P:218:LEU:CA	23:P:221:TYR:HB3	2.44	0.45
23:P:77:GLU:O	23:P:80:THR:HB	2.16	0.45
24:Q:131:VAL:HA	24:Q:134:LYS:NZ	2.32	0.45
24:Q:214:THR:O	24:Q:218:LEU:HG	2.16	0.45
24:Q:390:LEU:HB2	25:R:345:TYR:HA	1.98	0.45
25:R:345:TYR:CD2	25:R:347:THR:O	2.69	0.45
25:R:350:LEU:N	25:R:386:GLY:O	2.49	0.45
25:R:68:GLU:HA	25:R:71:LEU:CB	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:159:ASN:ND2	26:S:187:ILE:HG21	2.31	0.45
21:N:36:TRP:HE1	26:S:215:MET:CE	2.29	0.45
26:S:347:HIS:HB3	26:S:363:THR:OG1	2.16	0.45
27:T:148:LEU:HD13	27:T:164:LEU:HD11	1.97	0.45
28:U:12:PRO:HA	28:U:15:LEU:HD12	1.98	0.45
28:U:210:TYR:CE1	28:U:214:VAL:HG21	2.51	0.45
26:S:479:MET:CE	28:U:291:LEU:CD1	2.84	0.45
29:V:163:ALA:CB	29:V:165:ILE:H	2.30	0.45
29:V:258:GLU:OE1	29:V:259:LYS:HB2	2.15	0.45
30:W:114:VAL:HG22	30:W:118:ILE:HD11	1.97	0.45
30:W:122:ARG:HA	30:W:153:LEU:HD22	1.98	0.45
25:R:309:LEU:HB2	32:Y:76:GLU:OE1	2.16	0.45
33:Z:209:PRO:HA	33:Z:212:LEU:CB	2.42	0.45
33:Z:518:LEU:HB2	33:Z:524:ALA:HB2	1.98	0.45
1:1:30:THR:HG21	1:1:162:ALA:N	2.31	0.45
1:1:133:LEU:N	1:1:226:VAL:HG11	2.31	0.45
4:4:67:SER:OG	4:4:70:ILE:N	2.50	0.45
6:6:115:GLU:HB3	6:6:117:TYR:CE1	2.51	0.45
6:6:152:MET:HE1	6:6:157:GLY:HA2	1.98	0.45
7:7:119:THR:OG1	7:7:174:THR:OG1	2.31	0.45
7:7:179:TYR:CD2	7:7:185:PRO:HG3	2.52	0.45
1:8:179:TYR:CD1	1:8:188:LYS:HA	2.50	0.45
1:8:40:ALA:HB2	1:8:139:GLY:CA	2.46	0.45
1:8:47:ARG:HG2	1:8:49:ILE:HG23	1.98	0.45
2:9:162:TYR:HB2	2:9:175:LEU:HD13	1.97	0.45
8:A:176:GLN:O	8:A:179:THR:HB	2.16	0.45
8:A:209:HIS:HA	8:A:212:ASP:CB	2.45	0.45
8:A:72:ILE:HG12	8:A:82:VAL:HB	1.98	0.45
4:4:90:SER:OG	9:B:94:HIS:HB3	2.16	0.45
10:C:140:TYR:CG	10:C:225:VAL:HG21	2.52	0.45
10:C:150:THR:O	10:C:157:TYR:HB2	2.16	0.45
10:C:195:LYS:HZ3	10:C:244:ILE:HG13	1.85	0.45
10:C:38:ILE:O	10:C:45:VAL:N	2.36	0.45
12:E:79:SER:C	12:E:140:VAL:HG23	2.37	0.45
12:E:200:VAL:O	12:E:204:LEU:N	2.35	0.45
13:F:171:TYR:CD2	13:F:196:ALA:HA	2.52	0.45
13:F:217:GLY:CA	13:F:220:THR:HB	2.47	0.45
15:H:432:ARG:NH1	16:I:346:ARG:NH2	2.65	0.45
17:J:133:LEU:HD23	17:J:134:VAL:O	2.16	0.45
17:J:43:ARG:HG2	26:S:480:ARG:CA	2.46	0.45
18:K:262:ARG:NH1	18:K:306:PHE:CG	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:207:ARG:HH22	18:K:306:PHE:HB2	1.82	0.45
18:K:342:SER:CA	18:K:344:ARG:NH1	2.79	0.45
18:K:342:SER:CB	18:K:344:ARG:NH1	2.79	0.45
19:L:304:THR:HA	19:L:307:GLU:OE1	2.15	0.45
19:L:374:PHE:CE2	19:L:415:LEU:HD22	2.51	0.45
19:L:93:ASN:HA	19:L:96:LYS:HE2	1.99	0.45
20:M:269:LEU:HA	20:M:272:GLU:CD	2.36	0.45
20:M:369:THR:O	20:M:409:SER:HA	2.15	0.45
21:N:107:GLU:O	21:N:110:VAL:N	2.43	0.45
21:N:64:ILE:O	21:N:68:VAL:HG23	2.16	0.45
21:N:685:VAL:HG13	21:N:691:GLN:CB	2.46	0.45
21:N:740:TRP:HA	21:N:743:PHE:CE1	2.51	0.45
21:N:91:ILE:HG13	21:N:92:ASP:N	2.32	0.45
22:O:245:ASP:O	22:O:248:TYR:CD2	2.69	0.45
22:O:230:PHE:CZ	22:O:291:ILE:HA	2.52	0.45
22:O:327:LEU:N	22:O:330:ARG:NH1	2.65	0.45
22:O:350:ILE:HG22	22:O:351:SER:N	2.31	0.45
23:P:147:LYS:O	23:P:152:LYS:N	2.49	0.45
23:P:188:ILE:C	23:P:191:GLY:H	2.18	0.45
23:P:315:GLN:OE1	23:P:323:ASN:ND2	2.50	0.45
23:P:422:LEU:HA	23:P:426:ILE:HG13	1.98	0.45
24:Q:116:PHE:CE2	24:Q:120:LYS:HE3	2.51	0.45
24:Q:136:SER:O	24:Q:139:ILE:HB	2.17	0.45
24:Q:146:TYR:HA	24:Q:151:TYR:CE1	2.50	0.45
24:Q:253:ASN:OD1	24:Q:257:LYS:HB3	2.17	0.45
24:Q:264:TYR:HE1	24:Q:328:ASP:HB3	1.80	0.45
24:Q:386:PHE:CG	24:Q:387:TYR:N	2.83	0.45
24:Q:41:ALA:CB	24:Q:51:ARG:HG2	2.46	0.45
25:R:101:GLU:O	25:R:105:LYS:N	2.35	0.45
17:J:376:HIS:NE2	25:R:204:TRP:HD1	2.14	0.45
25:R:36:SER:OG	25:R:43:ARG:HB2	2.16	0.45
26:S:260:PRO:HA	26:S:261:HIS:HA	1.51	0.45
25:R:384:VAL:HG21	26:S:403:SER:H	1.81	0.45
26:S:437:ASN:HB2	26:S:440:ASP:CB	2.47	0.45
26:S:407:ILE:HB	26:S:443:ILE:HD12	1.99	0.45
27:T:200:LEU:O	27:T:233:VAL:N	2.48	0.45
27:T:266:TYR:HD1	27:T:269:SER:HB2	1.82	0.45
27:T:68:ALA:O	27:T:72:THR:HG23	2.16	0.45
28:U:93:TYR:CA	28:U:121:LEU:HB3	2.44	0.45
28:U:140:ILE:CB	28:U:153:THR:O	2.52	0.45
23:P:425:HIS:NE2	28:U:233:PHE:HD1	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:79:MET:SD	29:V:91:MET:HG3	2.55	0.45
28:U:126:LYS:HA	29:V:208:LYS:HZ3	1.81	0.45
29:V:67:ASP:CG	29:V:68:VAL:H	2.19	0.45
30:W:10:ILE:HG12	30:W:113:PHE:CD2	2.51	0.45
30:W:2:VAL:H	30:W:43:SER:HB3	1.81	0.45
31:X:15:CYS:HB2	31:X:100:TRP:N	2.32	0.45
31:X:50:TRP:CH2	31:X:52:PRO:HD3	2.51	0.45
33:Z:169:VAL:HG13	33:Z:189:ALA:HB3	1.98	0.45
33:Z:243:GLN:O	33:Z:247:GLN:HB2	2.16	0.45
33:Z:386:VAL:O	33:Z:390:LEU:HB3	2.17	0.45
33:Z:784:SER:HA	33:Z:788:PRO:HB3	1.98	0.45
33:Z:888:LEU:HD13	33:Z:901:PHE:HA	1.97	0.45
33:Z:890:SER:OG	33:Z:898:HIS:HA	2.16	0.45
1:1:116:LEU:HD23	1:1:124:TYR:HD2	1.81	0.45
1:1:145:ASP:HB3	1:1:149:SER:H	1.80	0.45
1:1:177:ASN:O	5:5:169:GLN:NE2	2.41	0.45
1:1:220:GLY:HA2	1:1:238:LEU:H	1.82	0.45
1:1:76:PHE:HD2	1:1:79:ASP:H	1.64	0.45
2:2:96:ILE:O	2:2:100:LEU:HG	2.17	0.45
2:2:122:PRO:HB3	2:2:151:GLY:HA3	1.99	0.45
3:3:94:THR:HB	3:3:128:GLU:OE1	2.17	0.45
3:3:172:ASP:HA	3:3:175:LYS:CB	2.46	0.45
4:4:153:TYR:CD2	4:4:167:LEU:HB3	2.50	0.45
4:4:71:TRP:HB2	4:4:207:MET:SD	2.57	0.45
4:4:46:ASP:OD1	4:4:46:ASP:N	2.48	0.45
5:5:183:TRP:HA	5:5:204:GLN:OE1	2.17	0.45
6:6:139:TYR:OH	6:6:171:ARG:O	2.26	0.45
6:6:19:LYS:HB3	6:6:31:SER:C	2.37	0.45
1:8:31:ILE:HG23	1:8:74:ASN:ND2	2.31	0.45
2:9:136:ARG:NH1	2:9:143:LEU:HD21	2.32	0.45
2:9:143:LEU:HD23	2:9:143:LEU:HA	1.59	0.45
2:9:180:GLY:HA2	2:9:217:LEU:CD2	2.46	0.45
2:9:45:ILE:O	2:9:55:ILE:HG13	2.16	0.45
8:A:166:TYR:C	9:B:57:MET:HG3	2.37	0.45
10:C:228:LYS:HE3	10:C:230:PHE:CD1	2.52	0.45
11:D:74:SER:OG	11:D:134:LEU:HB2	2.16	0.45
12:E:122:ARG:CA	12:E:132:ARG:HB3	2.41	0.45
13:F:143:HIS:ND1	13:F:155:GLU:OE2	2.42	0.45
13:F:159:THR:OG1	13:F:160:ALA:N	2.50	0.45
13:F:186:PRO:O	13:F:189:LEU:HB2	2.16	0.45
2:2:98:ARG:CZ	14:G:101:LYS:HG3	64.71	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G:109:ILE:HG13	14:G:140:GLY:O	2.17	0.45
14:G:140:GLY:N	14:G:147:HIS:O	2.44	0.45
14:G:235:LEU:HA	14:G:238:GLU:OE1	2.17	0.45
15:H:177:ASP:O	15:H:190:ARG:HG2	2.16	0.45
15:H:426:ALA:CB	15:H:429:PHE:HB2	2.46	0.45
15:H:456:LYS:NZ	16:I:331:ILE:HD12	2.31	0.45
16:I:117:HIS:HB2	16:I:129:TYR:CZ	2.52	0.45
16:I:395:MET:CG	16:I:420:LYS:HB2	2.46	0.45
17:J:345:LYS:HD3	17:J:379:GLN:HE22	1.82	0.45
17:J:70:SER:O	18:K:118:TYR:HB3	2.17	0.45
18:K:237:VAL:HG12	18:K:238:ASN:O	2.17	0.45
18:K:252:ARG:NH1	18:K:253:MET:SD	2.89	0.45
18:K:244:HIS:O	18:K:291:GLU:HG2	2.16	0.45
21:N:75:TYR:HB2	21:N:104:LYS:HE2	1.98	0.45
21:N:145:LEU:HA	21:N:150:LEU:CD2	2.46	0.45
21:N:311:ILE:HD13	21:N:347:SER:HB3	1.99	0.45
21:N:29:ASN:HA	21:N:32:VAL:HG23	1.98	0.45
21:N:486:GLY:HA2	21:N:524:ILE:HG23	1.98	0.45
21:N:50:TYR:C	21:N:58:ARG:HD2	2.37	0.45
21:N:515:ARG:HD3	21:N:738:GLN:HE22	1.81	0.45
22:O:308:LEU:HB2	22:O:350:ILE:CD1	2.46	0.45
22:O:47:LYS:O	22:O:81:TYR:CZ	2.70	0.45
22:O:4:ASN:N	22:O:4:ASN:OD1	2.47	0.45
23:P:128:ASN:OD1	23:P:136:ARG:CZ	2.64	0.45
23:P:168:TYR:C	23:P:170:SER:N	2.67	0.45
24:Q:212:THR:HB	24:Q:249:LEU:HD21	1.99	0.45
24:Q:340:ASP:O	24:Q:343:LEU:HB3	2.17	0.45
24:Q:64:LEU:HA	24:Q:67:THR:CB	2.46	0.45
25:R:215:GLY:HA2	25:R:227:ALA:CB	2.47	0.45
26:S:251:SER:O	26:S:255:SER:N	2.43	0.45
26:S:287:SER:O	26:S:291:GLU:HG3	2.15	0.45
26:S:379:LEU:O	26:S:381:VAL:HG23	2.16	0.45
26:S:458:GLN:HA	26:S:461:PHE:CD2	2.50	0.45
27:T:174:PHE:CG	27:T:174:PHE:O	2.69	0.45
27:T:200:LEU:HD23	27:T:205:ILE:HB	1.98	0.45
27:T:249:MET:HG3	27:T:256:LYS:NZ	2.31	0.45
27:T:263:ALA:O	27:T:266:TYR:N	2.49	0.45
28:U:119:LEU:HG	28:U:120:LEU:O	2.17	0.45
28:U:20:ASP:OD2	29:V:100:ARG:NH1	2.50	0.45
28:U:36:VAL:N	28:U:52:PHE:O	2.50	0.45
29:V:108:TYR:CD1	29:V:109:HIS:N	2.66	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:162:GLY:HA3	29:V:165:ILE:HD12	1.99	0.45
29:V:281:SER:O	29:V:285:ASP:N	2.50	0.45
33:Z:138:ARG:CZ	33:Z:206:ASP:OD2	2.63	0.45
33:Z:265:LEU:HB3	33:Z:284:LEU:HD21	1.97	0.45
33:Z:452:LEU:HD13	33:Z:489:ALA:HB2	1.98	0.45
33:Z:455:ILE:CG2	33:Z:474:LEU:HB2	2.47	0.45
33:Z:501:LYS:HB2	33:Z:533:VAL:HG12	1.98	0.45
33:Z:764:LEU:HD23	33:Z:767:TYR:CE2	2.52	0.45
33:Z:428:TRP:HH2	33:Z:910:PRO:HD3	1.81	0.45
1:1:23:PRO:HG2	1:1:24:TYR:CD2	2.52	0.45
2:2:211:VAL:O	2:2:214:MET:HB2	2.17	0.45
2:2:180:GLY:HA2	2:2:217:LEU:CD2	2.46	0.45
4:4:93:GLU:OE1	9:B:94:HIS:NE2	2.34	0.45
5:5:145:GLN:N	5:5:145:GLN:OE1	2.38	0.45
5:5:9:GLY:HA3	5:5:180:LEU:HB3	1.98	0.45
4:4:241:VAL:HA	5:5:200:LEU:HD23	1.99	0.45
7:7:232:GLY:HA2	7:7:235:SER:HB2	1.98	0.45
2:9:166:LEU:HA	2:9:166:LEU:HD23	1.82	0.45
2:9:242:LYS:CB	2:9:245:LEU:HD11	2.43	0.45
2:9:58:ASP:HA	2:9:228:PHE:HB2	1.99	0.45
2:9:90:ILE:HG23	2:9:93:MET:HE2	1.97	0.45
8:A:101:ALA:HA	8:A:112:MET:HE2	1.98	0.45
9:B:97:TYR:CD2	9:B:101:TYR:HD2	2.34	0.45
9:B:21:ILE:HD11	9:B:122:THR:CG2	2.47	0.45
9:B:1:MET:CG	9:B:2:THR:H	2.23	0.45
10:C:16:GLU:OE1	10:C:16:GLU:N	2.35	0.45
10:C:180:TYR:HA	10:C:184:MET:SD	2.57	0.45
11:D:42:VAL:HG23	11:D:138:PHE:CE1	2.52	0.45
13:F:11:VAL:HG23	14:G:130:ARG:N	2.91	0.45
13:F:14:SER:O	14:G:26:TYR:HB3	2.17	0.45
14:G:107:ILE:HG23	14:G:112:PHE:HB2	1.98	0.45
15:H:234:ARG:O	15:H:238:LEU:HG	2.16	0.45
15:H:238:LEU:O	20:M:369:THR:N	2.35	0.45
15:H:451:ILE:O	15:H:454:TYR:HB3	2.16	0.45
17:J:113:VAL:HA	17:J:126:LEU:H	1.81	0.45
17:J:186:ILE:HD12	17:J:297:LEU:HD21	1.97	0.45
18:K:347:ARG:HD2	24:Q:238:TYR:CE1	2.51	0.45
18:K:380:GLY:HA2	18:K:383:ILE:HB	1.97	0.45
19:L:223:PRO:HD2	19:L:349:ILE:O	2.16	0.45
19:L:123:SER:CB	20:M:125:GLN:HA	2.46	0.45
21:N:123:PHE:CG	21:N:124:TYR:N	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:16:ASN:HA	21:N:21:LYS:HE3	1.97	0.45
21:N:242:PHE:O	21:N:246:LYS:N	2.24	0.45
21:N:309:ILE:CG2	21:N:311:ILE:HG23	2.46	0.45
21:N:352:ASN:HB3	21:N:355:TRP:H	1.82	0.45
21:N:406:TYR:CE1	21:N:452:LEU:HD22	2.51	0.45
21:N:45:ASP:O	21:N:49:LEU:HG	2.17	0.45
21:N:776:TYR:HA	21:N:866:TYR:HB2	1.99	0.45
21:N:760:GLY:O	21:N:905:LEU:HB3	2.17	0.45
22:O:76:LEU:HD22	22:O:127:LEU:HD23	1.98	0.45
22:O:150:LEU:HD12	22:O:153:LEU:HD23	1.98	0.45
22:O:343:GLN:HG2	23:P:364:ARG:CG	2.43	0.45
22:O:348:VAL:HG12	22:O:349:THR:O	2.17	0.45
23:P:112:LEU:O	23:P:115:ARG:HB3	2.16	0.45
23:P:113:ASN:OD1	23:P:116:ILE:HD12	2.16	0.45
23:P:291:LYS:O	23:P:293:LEU:HD23	2.16	0.45
23:P:311:TRP:HZ2	23:P:338:TRP:CD1	2.35	0.45
23:P:422:LEU:CD2	23:P:426:ILE:HG13	2.47	0.45
24:Q:51:ARG:HA	24:Q:54:GLN:HB2	1.98	0.45
25:R:190:LYS:O	25:R:194:VAL:HG12	2.16	0.45
25:R:215:GLY:HA2	25:R:227:ALA:HB3	1.98	0.45
25:R:350:LEU:HB3	25:R:386:GLY:C	2.37	0.45
25:R:413:LYS:O	25:R:416:LYS:HB3	2.17	0.45
25:R:66:LEU:O	25:R:69:GLU:HB3	2.17	0.45
25:R:78:ASP:HA	25:R:93:LYS:CA	2.29	0.45
26:S:252:ASP:O	26:S:255:SER:OG	2.15	0.45
26:S:3:SER:O	26:S:7:MET:HG2	2.16	0.45
27:T:222:LEU:HA	27:T:222:LEU:HD23	1.78	0.45
27:T:94:HIS:CE1	27:T:97:SER:HB3	2.51	0.45
28:U:121:LEU:HD12	28:U:135:ASP:O	2.16	0.45
28:U:138:VAL:O	28:U:154:PHE:HA	2.17	0.45
28:U:74:GLU:O	28:U:78:GLU:HG3	2.16	0.45
30:W:142:ILE:HG23	30:W:174:VAL:CG2	2.46	0.45
22:O:15:ARG:NH2	30:W:144:PHE:CD2	2.85	0.45
30:W:12:ASN:OD1	30:W:26:PHE:HB2	2.16	0.45
33:Z:435:GLN:NE2	33:Z:438:LYS:HZ2	2.15	0.45
33:Z:790:MET:HA	33:Z:793:PHE:CD2	2.52	0.45
33:Z:793:PHE:CZ	33:Z:827:LEU:HD12	2.52	0.45
1:1:218:GLY:C	1:1:220:GLY:H	2.19	0.45
1:1:47:ARG:NH1	1:1:215:ILE:O	2.49	0.45
2:2:45:ILE:O	2:2:55:ILE:HG13	2.16	0.45
3:3:131:THR:CG2	3:3:139:HIS:HB2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:167:PRO:HG2	5:5:145:GLN:HA	1.97	0.45
7:7:271:LEU:O	7:7:274:LYS:HB3	2.16	0.45
2:9:204:GLN:CD	2:9:204:GLN:N	2.70	0.45
8:A:128:TYR:N	8:A:128:TYR:CD1	2.84	0.45
8:A:219:SER:C	8:A:245:LEU:HD21	2.37	0.45
8:A:69:VAL:HG22	14:G:158:TRP:CE3	2.52	0.45
9:B:72:GLY:HA3	9:B:235:PHE:CE1	2.52	0.45
10:C:233:GLN:O	10:C:237:ASP:N	2.43	0.45
10:C:237:ASP:O	10:C:241:LYS:HG2	2.16	0.45
9:B:12:PHE:HB3	10:C:24:TYR:HB2	1.97	0.45
11:D:169:LYS:HA	11:D:172:ARG:HB3	1.98	0.45
12:E:38:ILE:HA	12:E:171:ALA:HA	1.98	0.45
13:F:107:ARG:O	13:F:111:LEU:HG	2.17	0.45
13:F:176:LEU:HD23	14:G:57:LYS:HE3	1.97	0.45
16:I:245:LEU:O	16:I:280:PHE:HB3	2.17	0.45
18:K:210:LEU:HB3	18:K:337:LYS:HG2	1.97	0.45
19:L:183:ILE:HG21	19:L:230:LEU:HB2	1.98	0.45
19:L:386:PHE:CZ	19:L:423:ALA:HB2	2.52	0.45
21:N:246:LYS:HE2	21:N:282:TYR:HA	1.98	0.45
21:N:53:ASP:OD1	21:N:54:THR:N	2.49	0.45
21:N:649:VAL:CG1	21:N:651:PHE:HB3	2.46	0.45
21:N:36:TRP:HZ3	21:N:72:LEU:HD23	1.82	0.45
21:N:880:ARG:HE	21:N:898:GLY:C	2.17	0.45
21:N:890:PHE:O	21:N:905:LEU:HD11	2.17	0.45
22:O:99:LEU:O	22:O:103:LYS:HG3	2.16	0.45
22:O:165:LEU:O	22:O:168:THR:OG1	2.29	0.45
22:O:185:PHE:O	22:O:189:TYR:N	2.50	0.45
23:P:104:LEU:O	23:P:107:SER:N	2.50	0.45
23:P:123:ARG:HA	23:P:123:ARG:HD3	1.83	0.45
23:P:160:LEU:HG	23:P:183:GLN:CG	2.46	0.45
23:P:221:TYR:CD1	23:P:244:ILE:HB	2.51	0.45
23:P:402:PHE:CG	23:P:402:PHE:O	2.70	0.45
24:Q:164:GLU:OE2	24:Q:169:ASP:HB2	2.16	0.45
24:Q:171:LYS:N	24:Q:172:PRO:HD2	2.31	0.45
24:Q:239:PHE:CE2	24:Q:264:TYR:HB3	2.51	0.45
24:Q:255:TYR:OH	24:Q:291:TYR:CE2	2.69	0.45
23:P:395:ARG:HD2	24:Q:361:HIS:ND1	2.32	0.45
25:R:23:ASN:HB2	25:R:242:GLU:HB3	1.99	0.45
24:Q:390:LEU:N	25:R:344:SER:O	2.46	0.45
25:R:353:MET:HG3	25:R:357:PHE:CD2	2.51	0.45
25:R:382:ASP:N	25:R:387:ILE:O	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:43:ARG:CZ	25:R:43:ARG:HB2	2.46	0.45
21:N:33:ASP:O	26:S:215:MET:HG2	2.15	0.45
26:S:417:GLN:N	26:S:419:VAL:HG23	2.32	0.45
27:T:111:LEU:HA	27:T:114:LEU:HB3	1.98	0.45
27:T:126:LEU:HD11	27:T:132:HIS:HB3	1.98	0.45
27:T:159:LYS:C	27:T:163:LEU:HG	2.37	0.45
22:O:387:ARG:HB3	27:T:266:TYR:OH	2.16	0.45
28:U:198:LYS:N	29:V:233:LYS:HZ1	2.15	0.45
28:U:275:VAL:HA	28:U:278:ILE:CD1	2.45	0.45
29:V:120:SER:O	29:V:123:VAL:HB	2.17	0.45
29:V:140:VAL:HB	29:V:154:ASP:HB3	1.99	0.45
29:V:243:SER:CA	29:V:250:GLN:HE22	2.30	0.45
30:W:52:ILE:HG22	30:W:61:VAL:HG22	1.98	0.45
33:Z:169:VAL:HG13	33:Z:189:ALA:CB	2.46	0.45
33:Z:181:GLY:HA2	33:Z:263:ALA:CB	2.47	0.45
33:Z:332:ASN:OD1	33:Z:346:LEU:HD13	2.16	0.45
33:Z:356:ASP:O	33:Z:359:LYS:HB3	2.16	0.45
1:1:142:TYR:CD1	1:1:152:ARG:HA	2.51	0.45
1:1:179:TYR:HA	1:1:189:LYS:H	1.82	0.45
1:1:47:ARG:HG2	1:1:49:ILE:HG23	1.98	0.45
1:1:57:ARG:NH1	1:1:219:ASP:OD1	2.49	0.45
1:1:31:ILE:HG23	1:1:74:ASN:ND2	2.31	0.45
2:2:105:THR:O	2:2:108:ALA:HB3	2.17	0.45
2:2:176:ALA:HB3	2:2:181:ALA:HA	1.99	0.45
3:3:31:VAL:HG13	3:3:197:LEU:HB2	1.99	0.45
4:4:91:ASN:O	4:4:95:HIS:N	2.30	0.45
6:6:23:ARG:HD3	6:6:23:ARG:HA	1.73	0.45
7:7:264:GLY:O	7:7:266:HIS:NE2	2.49	0.45
1:8:142:TYR:CD1	1:8:152:ARG:HA	2.51	0.45
1:8:142:TYR:HD1	1:8:152:ARG:HA	1.82	0.45
10:C:15:PRO:HD2	10:C:20:TYR:OH	2.16	0.45
12:E:148:ASP:O	12:E:152:GLY:N	2.50	0.45
12:E:146:GLY:N	12:E:154:GLN:O	2.48	0.45
14:G:195:GLN:O	14:G:198:LYS:HB3	2.16	0.45
14:G:21:ASN:OD1	14:G:23:GLN:HB2	2.17	0.45
15:H:107:LYS:HB2	15:H:143:ALA:HB2	1.97	0.45
15:H:154:LYS:O	15:H:155:PHE:CD1	2.70	0.45
16:I:141:LEU:CD1	16:I:159:VAL:HA	2.45	0.45
16:I:287:ILE:HA	16:I:302:ILE:HA	1.98	0.45
15:H:58:ASP:HB2	16:I:99:ILE:HD13	1.98	0.45
17:J:165:GLU:OE2	17:J:202:VAL:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:342:ASN:O	17:J:346:VAL:HG23	2.17	0.45
17:J:87:LYS:HE3	17:J:91:GLU:O	2.16	0.45
18:K:219:LYS:HA	18:K:222:LEU:HG	1.98	0.45
18:K:49:PHE:HB2	21:N:152:LEU:CA	2.47	0.45
19:L:383:SER:HA	19:L:386:PHE:CZ	2.52	0.45
20:M:74:GLN:HE22	20:M:150:LYS:CE	2.30	0.45
20:M:245:LYS:HA	20:M:279:PHE:O	2.17	0.45
20:M:24:ASN:O	20:M:28:GLN:HG3	2.16	0.45
20:M:73:ARG:HA	20:M:77:TYR:OH	2.16	0.45
21:N:214:LEU:HD23	21:N:214:LEU:HA	1.72	0.45
21:N:255:ALA:HB1	21:N:259:PHE:CE2	2.52	0.45
21:N:486:GLY:HA2	21:N:524:ILE:CG2	2.46	0.45
21:N:533:ASP:O	21:N:537:THR:N	2.23	0.45
21:N:589:ILE:HA	21:N:624:ALA:HB2	1.97	0.45
21:N:682:PHE:HA	21:N:699:ALA:HB1	1.98	0.45
21:N:719:ASN:N	21:N:724:THR:O	2.43	0.45
21:N:742:TRP:HD1	21:N:745:LEU:CG	2.29	0.45
21:N:774:ASN:C	21:N:866:TYR:H	2.19	0.45
21:N:924:LYS:HG3	21:N:925:ASP:HB2	1.97	0.45
22:O:68:LYS:HG2	22:O:68:LYS:O	2.17	0.45
22:O:87:LYS:HA	22:O:95:SER:OG	2.16	0.45
23:P:133:GLU:HA	23:P:136:ARG:HE	1.81	0.45
23:P:297:GLU:O	23:P:301:LYS:HG3	2.16	0.45
23:P:364:ARG:HA	23:P:367:GLU:OE1	2.16	0.45
23:P:396:PRO:HG2	24:Q:357:VAL:HA	1.99	0.45
23:P:415:TRP:HA	23:P:418:ASN:CB	2.47	0.45
24:Q:19:GLN:HE21	24:Q:22:GLU:N	2.12	0.45
24:Q:293:SER:H	24:Q:296:ILE:HB	1.81	0.45
24:Q:369:ASP:O	24:Q:373:VAL:HG23	2.17	0.45
25:R:127:GLU:O	25:R:160:LYS:HB3	2.16	0.45
25:R:336:LYS:HZ3	25:R:340:GLN:NE2	2.14	0.45
25:R:407:GLY:HA3	28:U:281:LEU:CD1	2.47	0.45
26:S:257:LEU:HD13	26:S:260:PRO:CD	2.47	0.45
26:S:31:VAL:O	26:S:35:LEU:N	2.45	0.45
26:S:390:THR:HG22	26:S:394:ILE:CD1	2.47	0.45
26:S:405:ARG:CA	26:S:408:CYS:HB2	2.27	0.45
21:N:7:ALA:C	27:T:83:ASN:HB3	2.36	0.45
28:U:120:LEU:HD22	28:U:137:TYR:CD2	2.52	0.45
28:U:120:LEU:N	28:U:137:TYR:O	2.46	0.45
28:U:161:ILE:HG13	29:V:216:LEU:HD23	1.98	0.45
28:U:24:ARG:HD3	29:V:100:ARG:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:36:LYS:HZ3	29:V:69:PHE:HB3	1.82	0.45
33:Z:227:ILE:HG22	33:Z:229:SER:HB2	1.98	0.45
33:Z:183:LYS:NZ	33:Z:292:ASP:HB2	2.31	0.45
33:Z:359:LYS:HA	33:Z:394:TYR:HD1	1.80	0.45
33:Z:970:TYR:OH	33:Z:991:GLU:OE2	2.24	0.45
1:1:131:ALA:HA	1:1:140:ALA:O	2.16	0.45
2:2:113:LEU:CB	2:2:116:ALA:HB3	2.46	0.45
2:2:131:THR:HG22	2:2:135:GLN:NE2	2.31	0.45
2:2:48:LYS:HB2	2:2:158:GLN:HG2	1.98	0.45
2:2:218:TYR:HB2	2:2:247:VAL:HG21	1.98	0.45
2:2:95:HIS:NE2	2:2:99:LEU:HD11	2.32	0.45
2:2:226:ARG:NH1	3:3:213:GLU:OE1	2.50	0.45
2:2:260:GLY:O	3:3:51:ASP:HB3	2.17	0.45
4:4:126:TYR:CE1	4:4:143:HIS:HB3	2.52	0.45
4:4:77:THR:O	4:4:80:ASP:HB2	2.16	0.45
5:5:159:GLU:O	5:5:163:LEU:N	2.34	0.45
6:6:73:TYR:HB2	10:C:143:ARG:CZ	2.46	0.45
7:7:272:PHE:HZ	7:7:285:VAL:HG21	1.82	0.45
10:C:109:GLU:O	10:C:113:ARG:N	2.42	0.45
10:C:196:THR:HA	10:C:199:LYS:HB2	1.99	0.45
5:5:69:TYR:HA	10:C:96:GLN:NE2	2.31	0.45
11:D:117:GLN:HB3	11:D:152:PRO:O	2.17	0.45
11:D:77:GLY:HA3	11:D:131:VAL:HG22	1.99	0.45
12:E:122:ARG:HG2	12:E:132:ARG:HD2	1.99	0.45
12:E:191:LEU:HA	12:E:195:GLU:OE1	2.16	0.45
12:E:205:LYS:NZ	12:E:211:LYS:CG	2.80	0.45
12:E:213:ASP:OD1	12:E:215:ASN:N	2.50	0.45
12:E:87:SER:O	12:E:91:HIS:N	2.35	0.45
13:F:213:ILE:HB	13:F:225:TYR:HB2	1.98	0.45
14:G:13:SER:HB3	14:G:126:TYR:CA	2.47	0.45
14:G:126:TYR:N	14:G:129:VAL:CG2	2.95	0.45
15:H:102:CYS:HB3	15:H:169:GLU:HB3	1.98	0.45
15:H:432:ARG:NH2	15:H:449:LYS:NZ	2.64	0.45
16:I:100:ARG:O	16:I:104:LEU:HD11	2.17	0.45
16:I:116:ASP:O	16:I:131:SER:HA	2.16	0.45
15:H:96:PRO:CD	16:I:119:ILE:HG21	2.45	0.45
17:J:65:LEU:HA	17:J:65:LEU:HD23	1.71	0.45
17:J:81:ASP:OD2	17:J:95:ILE:HD11	2.17	0.45
18:K:93:PRO:O	18:K:141:ARG:NH1	2.49	0.45
18:K:153:ASP:OD1	18:K:153:ASP:N	2.49	0.45
18:K:175:GLY:HA3	18:K:351:LEU:C	2.36	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:94:LEU:HB2	19:L:128:ILE:HB	1.99	0.45
18:K:95:VAL:O	19:L:128:ILE:HD12	2.17	0.45
19:L:200:PRO:HA	19:L:203:ASN:HB3	1.99	0.45
19:L:265:GLU:O	19:L:269:TYR:N	2.50	0.45
19:L:67:HIS:HA	19:L:70:TYR:HD2	1.80	0.45
20:M:37:LEU:O	20:M:71:ASN:HB2	2.17	0.45
20:M:402:ALA:CB	20:M:410:VAL:HG22	2.46	0.45
21:N:11:ALA:HB2	27:T:83:ASN:HD22	1.80	0.45
21:N:295:THR:HA	21:N:298:TYR:HB2	1.99	0.45
21:N:298:TYR:HA	21:N:301:THR:HB	1.99	0.45
21:N:586:ALA:O	21:N:590:ALA:N	2.34	0.45
21:N:718:GLU:OE2	21:N:723:GLY:O	2.35	0.45
21:N:897:LYS:HZ2	21:N:899:ASN:ND2	2.15	0.45
21:N:8:PRO:HG3	27:T:83:ASN:O	2.16	0.45
22:O:23:HIS:HE1	22:O:25:LEU:HG	1.82	0.45
22:O:26:PHE:CD1	22:O:61:LEU:HD13	2.51	0.45
23:P:182:GLU:HA	23:P:185:GLU:HB3	1.99	0.45
23:P:164:GLN:NE2	23:P:202:LYS:HD3	2.32	0.45
23:P:280:LEU:CD2	23:P:283:LYS:NZ	2.72	0.45
23:P:290:LEU:CD1	23:P:291:LYS:HG2	2.46	0.45
23:P:317:THR:HG22	23:P:318:TYR:CE1	2.51	0.45
23:P:63:VAL:HG13	23:P:75:LEU:HD11	1.99	0.45
24:Q:219:ASP:HB3	24:Q:238:TYR:C	2.37	0.45
24:Q:241:GLU:HA	24:Q:244:GLU:HB2	1.99	0.45
24:Q:383:ASP:HB2	24:Q:385:ILE:HG13	1.99	0.45
25:R:77:SER:O	25:R:92:ILE:HG23	2.17	0.45
26:S:151:GLU:OE2	26:S:153:GLU:HB2	2.17	0.45
26:S:239:ARG:HG2	26:S:239:ARG:HH11	1.82	0.45
26:S:363:THR:HG23	26:S:367:TYR:HD2	1.82	0.45
26:S:315:LYS:HD3	26:S:374:ASP:OD2	2.17	0.45
27:T:168:SER:O	27:T:172:SER:N	2.50	0.45
27:T:221:ALA:O	27:T:224:ARG:HB2	2.16	0.45
27:T:200:LEU:N	27:T:233:VAL:O	2.33	0.45
27:T:253:GLU:HG3	27:T:254:ASP:N	2.20	0.45
28:U:54:LEU:HD23	28:U:54:LEU:HA	1.68	0.45
28:U:40:ASP:OD1	28:U:88:LYS:HB2	2.16	0.45
29:V:158:LEU:HD12	29:V:197:TYR:HB3	1.98	0.45
29:V:217:HIS:CD2	29:V:235:GLU:OE2	2.70	0.45
29:V:25:GLU:HA	29:V:61:TYR:HD1	1.80	0.45
29:V:27:VAL:O	29:V:28:TYR:CD1	2.70	0.45
29:V:88:GLN:CG	29:V:89:ALA:N	2.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:X:36:LYS:CE	31:X:49:GLU:HB2	2.47	0.45
31:X:33:ILE:HA	31:X:50:TRP:HA	1.99	0.45
31:X:87:PHE:CD2	31:X:99:PHE:HD2	2.33	0.45
33:Z:369:PHE:HA	33:Z:390:LEU:CD1	2.46	0.45
33:Z:407:VAL:HG21	33:Z:422:ILE:HD11	1.97	0.45
33:Z:502:ASN:OD1	33:Z:503:ASP:N	2.50	0.45
33:Z:623:ARG:NH1	33:Z:736:LEU:HD13	2.31	0.45
33:Z:985:LYS:HG2	33:Z:991:GLU:N	2.32	0.45
1:1:180:GLU:HB2	1:1:187:VAL:HB	1.97	0.45
1:1:67:ASP:O	1:1:69:ILE:HG13	2.17	0.45
2:2:253:ASP:HB3	4:4:173:GLN:NE2	2.29	0.45
2:2:76:ILE:HD13	2:2:86:ILE:HD12	1.99	0.45
4:4:116:LEU:O	4:4:119:TYR:N	2.50	0.45
6:6:41:HIS:CD2	6:6:185:ASP:O	2.70	0.45
7:7:128:GLN:HG2	1:8:113:GLN:NE2	2.29	0.45
7:7:163:TYR:HA	7:7:166:LYS:HB2	1.98	0.45
1:8:76:PHE:HD2	1:8:79:ASP:H	1.64	0.45
2:9:121:GLU:CD	2:9:122:PRO:HD2	2.36	0.45
2:9:161:ARG:CG	2:9:171:SER:HB2	2.46	0.45
2:9:50:ASP:N	2:9:201:THR:O	2.35	0.45
8:A:122:ALA:HB1	8:A:161:GLY:O	2.17	0.45
8:A:129:THR:HG22	9:B:128:ARG:HH21	1.82	0.45
8:A:76:SER:N	8:A:79:ILE:O	2.35	0.45
11:D:92:GLU:HB2	11:D:112:TYR:CZ	2.52	0.45
11:D:146:LYS:HD2	11:D:148:TYR:OH	2.16	0.45
11:D:92:GLU:O	11:D:95:SER:HB3	2.17	0.45
12:E:204:LEU:O	12:E:207:VAL:N	2.50	0.45
13:F:86:ASN:O	13:F:90:GLN:HG3	2.17	0.45
14:G:46:VAL:HG22	14:G:140:GLY:HA2	1.99	0.45
14:G:21:ASN:ND2	14:G:24:VAL:HG23	2.32	0.45
15:H:147:ILE:HA	15:H:155:PHE:O	2.16	0.45
15:H:208:TYR:HA	15:H:211:VAL:CG2	2.46	0.45
15:H:204:PRO:HB2	15:H:261:ARG:HB3	1.98	0.45
16:I:217:LYS:HZ2	16:I:313:LEU:HG	1.82	0.45
18:K:252:ARG:O	18:K:255:ARG:HB3	2.17	0.45
18:K:281:ARG:HH21	18:K:284:ALA:HA	1.82	0.45
18:K:74:HIS:O	18:K:78:GLU:N	2.36	0.45
19:L:114:GLU:C	19:L:137:ARG:HE	2.19	0.45
19:L:390:ASP:OD2	19:L:426:LYS:HE2	2.16	0.45
20:M:157:ASP:OD1	20:M:158:THR:N	2.50	0.45
21:N:11:ALA:HB2	27:T:83:ASN:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:346:ASN:CB	21:N:350:LYS:NZ	2.80	0.45
21:N:410:LEU:N	21:N:452:LEU:HD21	2.31	0.45
21:N:467:LYS:O	21:N:470:LEU:HB3	2.17	0.45
21:N:497:ALA:O	21:N:501:MET:HG2	2.17	0.45
21:N:539:MET:HB3	21:N:547:LEU:O	2.17	0.45
23:P:170:SER:HB3	23:P:173:MET:HG2	1.99	0.45
23:P:205:LYS:O	23:P:208:PHE:HB3	2.16	0.45
23:P:234:TYR:HB3	23:P:267:PHE:O	2.17	0.45
23:P:373:GLU:HG2	23:P:377:GLU:CD	2.37	0.45
23:P:410:GLN:C	23:P:412:LEU:N	2.70	0.45
25:R:205:GLU:HG3	25:R:208:ASN:ND2	2.24	0.45
26:S:143:GLN:CG	26:S:148:ASP:CG	2.76	0.45
26:S:479:MET:HG3	26:S:483:GLU:CD	2.36	0.45
27:T:158:GLN:HE22	27:T:210:PHE:HE1	1.65	0.45
27:T:194:GLU:OE2	27:T:238:GLN:O	2.35	0.45
27:T:30:ILE:O	27:T:34:LEU:HG	2.17	0.45
27:T:6:GLU:HG2	27:T:7:LEU:N	2.32	0.45
28:U:38:LEU:HD23	28:U:38:LEU:HA	1.76	0.45
29:V:111:HIS:HB3	29:V:114:PHE:HB2	1.98	0.45
29:V:54:LEU:HA	29:V:54:LEU:HD23	1.70	0.45
30:W:66:THR:HG23	30:W:71:LYS:HE3	1.99	0.45
31:X:85:ARG:NE	31:X:117:LYS:HB3	2.32	0.45
31:X:85:ARG:N	31:X:116:ALA:H	2.14	0.45
33:Z:314:LEU:HB2	33:Z:341:TYR:OH	2.17	0.45
33:Z:790:MET:O	33:Z:793:PHE:HB2	2.17	0.45
2:2:121:GLU:CD	2:2:122:PRO:HD2	2.37	0.45
2:2:136:ARG:NH1	2:2:143:LEU:HD21	2.32	0.45
3:3:27:PHE:CE2	3:3:167:LYS:HA	2.52	0.45
4:4:47:THR:OG1	4:4:201:ASN:N	2.46	0.45
6:6:36:ARG:O	6:6:43:LEU:HD12	2.16	0.45
6:6:41:HIS:HB3	6:6:107:TYR:O	2.16	0.45
2:9:117:GLU:HB3	13:F:139:LYS:HB3	1.97	0.45
8:A:43:LEU:N	8:A:54:ILE:O	2.40	0.45
9:B:43:VAL:CG2	9:B:145:PHE:HB3	2.44	0.45
9:B:222:LEU:HD11	9:B:224:TYR:CZ	2.52	0.45
9:B:5:TYR:OH	10:C:3:SER:HA	2.16	0.45
10:C:117:ASP:O	10:C:120:GLN:HB3	2.17	0.45
10:C:77:VAL:HG22	10:C:135:PHE:HE2	1.82	0.45
11:D:214:VAL:O	11:D:221:ILE:HA	2.17	0.45
11:D:42:VAL:HG23	11:D:138:PHE:HE1	1.82	0.45
12:E:18:GLU:HA	13:F:27:GLU:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:165:TYR:HH	13:F:60:GLN:HB2	1.81	0.45
1:8:92:LYS:HZ3	13:F:93:ASN:HB2	1.82	0.45
13:F:96:SER:HA	13:F:101:ARG:N	2.32	0.45
14:G:198:LYS:HZ2	14:G:199:ILE:CG1	2.30	0.45
15:H:155:PHE:HB3	20:M:76:PRO:CD	2.38	0.45
15:H:225:VAL:HB	15:H:263:VAL:HG11	1.98	0.45
16:I:132:ILE:HG13	16:I:158:GLY:HA2	1.98	0.45
15:H:69:VAL:HG22	16:I:153:THR:CG2	2.47	0.45
16:I:384:LYS:CE	16:I:387:LEU:HD12	2.45	0.45
17:J:122:LEU:HA	17:J:122:LEU:HD23	1.71	0.45
18:K:339:GLU:O	18:K:341:PRO:HD3	2.17	0.45
18:K:342:SER:HA	18:K:343:LEU:HB3	1.99	0.45
18:K:382:VAL:HA	18:K:385:ALA:HB3	1.99	0.45
20:M:18:LEU:HD23	20:M:21:GLU:OE1	2.17	0.45
20:M:253:GLN:HG3	20:M:259:GLY:H	1.82	0.45
20:M:329:ARG:NH2	20:M:346:LYS:HZ3	2.14	0.45
20:M:31:GLN:O	20:M:34:ALA:N	2.49	0.45
21:N:86:LYS:HE2	21:N:132:LYS:HG2	1.99	0.45
21:N:197:VAL:HG12	21:N:199:ASN:N	2.32	0.45
21:N:210:SER:HA	21:N:213:PHE:HD2	1.80	0.45
21:N:485:MET:O	21:N:488:CYS:HB3	2.17	0.45
21:N:650:ASP:HB3	21:N:695:ALA:HB2	1.99	0.45
21:N:758:VAL:N	21:N:871:MET:HA	2.17	0.45
22:O:215:TYR:HD1	22:O:248:TYR:CE1	2.35	0.45
22:O:236:HIS:O	22:O:238:ILE:HG12	2.17	0.45
22:O:51:ASP:HA	22:O:81:TYR:CD1	2.52	0.45
22:O:8:ASP:HB3	22:O:26:PHE:HE2	1.82	0.45
23:P:187:SER:O	23:P:192:ASP:N	2.50	0.45
23:P:261:LEU:HA	23:P:264:ILE:HD12	1.98	0.45
23:P:395:ARG:C	23:P:398:LYS:H	2.17	0.45
24:Q:386:PHE:HE2	24:Q:397:LEU:HD21	1.81	0.45
25:R:205:GLU:CD	25:R:206:ARG:NH1	2.69	0.45
25:R:23:ASN:HB2	25:R:242:GLU:O	2.16	0.45
26:S:268:LEU:HD23	26:S:271:ARG:HD3	1.98	0.45
26:S:338:MET:HG3	26:S:344:PRO:HD2	1.99	0.45
26:S:330:LEU:HB3	26:S:342:LEU:HD21	1.98	0.45
26:S:389:LYS:O	26:S:392:ILE:HB	2.16	0.45
26:S:409:LEU:HA	26:S:412:ASN:ND2	2.32	0.45
26:S:422:MET:O	26:S:425:ARG:HB3	2.17	0.45
27:T:133:ILE:HG23	27:T:137:GLU:HG2	1.99	0.45
26:S:198:SER:O	27:T:93:ASN:ND2	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:266:THR:O	28:U:269:THR:HB	2.17	0.45
31:X:22:ARG:HH22	31:X:78:ILE:CD1	2.30	0.45
33:Z:317:GLN:O	33:Z:321:PHE:HB3	2.17	0.45
33:Z:399:LEU:O	33:Z:403:ASN:HB2	2.16	0.45
33:Z:484:LYS:HA	33:Z:487:SER:HB2	1.99	0.45
33:Z:449:ALA:HB1	33:Z:488:ALA:CB	2.47	0.45
33:Z:523:ALA:C	33:Z:562:TRP:HZ3	2.20	0.45
33:Z:557:GLU:OE1	33:Z:562:TRP:HD1	2.00	0.45
33:Z:970:TYR:CE2	33:Z:993:GLU:HG2	2.51	0.45
33:Z:968:ASP:OD2	33:Z:983:LEU:HD21	2.17	0.45
33:Z:985:LYS:HG2	33:Z:991:GLU:H	1.82	0.45
1:1:142:TYR:HD1	1:1:152:ARG:HA	1.82	0.44
1:1:30:THR:HA	1:1:74:ASN:ND2	2.33	0.44
2:2:242:LYS:CB	2:2:245:LEU:HD11	2.43	0.44
2:2:58:ASP:HA	2:2:228:PHE:HB2	1.99	0.44
6:6:36:ARG:HB3	6:6:61:GLN:OE1	2.17	0.44
7:7:156:LYS:O	7:7:159:SER:HB3	2.17	0.44
7:7:256:THR:OG1	7:7:258:ASP:HB2	2.16	0.44
1:8:67:ASP:O	1:8:69:ILE:HG13	2.17	0.44
1:8:76:PHE:CZ	2:9:168:VAL:HG23	2.52	0.44
2:9:176:ALA:HB3	2:9:181:ALA:HA	1.99	0.44
8:A:128:TYR:HA	8:A:131:ARG:HB2	1.99	0.44
8:A:26:TYR:HA	8:A:29:GLU:OE1	2.16	0.44
9:B:41:ASN:N	9:B:41:ASN:OD1	2.48	0.44
10:C:191:GLU:O	10:C:195:LYS:HG2	2.17	0.44
10:C:36:ILE:HG12	10:C:164:SER:HB2	2.00	0.44
10:C:77:VAL:HG22	10:C:135:PHE:CE2	2.53	0.44
11:D:76:SER:O	11:D:131:VAL:HA	2.18	0.44
12:E:179:ALA:O	12:E:182:GLU:HB2	2.17	0.44
13:F:84:LEU:HA	13:F:87:TYR:HB3	2.00	0.44
17:J:164:ILE:HG23	17:J:289:LYS:HD2	1.98	0.44
16:I:404:LEU:HD13	17:J:178:GLY:O	2.17	0.44
17:J:345:LYS:HA	17:J:348:GLU:HB2	1.99	0.44
17:J:47:GLN:HA	17:J:50:ALA:HB3	1.99	0.44
18:K:154:SER:HB2	18:K:161:MET:HE1	1.99	0.44
18:K:330:ARG:O	18:K:333:ARG:HB2	2.18	0.44
18:K:50:LYS:O	18:K:53:LYS:HB3	2.16	0.44
19:L:274:GLU:HA	19:L:275:PRO:C	2.36	0.44
19:L:372:GLY:HA2	19:L:376:PHE:HZ	1.83	0.44
19:L:85:GLU:HA	19:L:88:TYR:CD2	2.52	0.44
18:K:48:TYR:CD2	21:N:156:ILE:HD11	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:381:GLU:HA	21:N:384:LYS:CE	2.47	0.44
21:N:384:LYS:O	21:N:388:PRO:HD3	2.17	0.44
21:N:529:GLN:HB3	21:N:559:TYR:CE1	2.52	0.44
21:N:68:VAL:HG12	21:N:72:LEU:HG	1.99	0.44
22:O:69:PHE:HE2	22:O:109:LEU:HB2	1.81	0.44
22:O:166:ARG:HA	22:O:166:ARG:HD2	1.79	0.44
22:O:323:ASN:O	22:O:327:LEU:N	2.50	0.44
23:P:107:SER:C	23:P:108:LYS:CG	2.86	0.44
23:P:107:SER:CB	23:P:111:ASP:HB2	2.31	0.44
23:P:141:LYS:O	23:P:145:GLU:HG3	2.17	0.44
23:P:311:TRP:CZ2	23:P:338:TRP:CD1	3.05	0.44
23:P:338:TRP:CE3	23:P:339:GLU:N	2.85	0.44
23:P:48:GLN:HA	23:P:86:HIS:HB2	1.98	0.44
24:Q:12:ARG:O	24:Q:15:VAL:HB	2.17	0.44
24:Q:229:ASP:N	24:Q:229:ASP:OD1	2.46	0.44
24:Q:355:GLU:OE1	24:Q:399:VAL:HA	2.18	0.44
24:Q:418:GLN:HA	24:Q:421:LYS:HZ1	1.82	0.44
24:Q:83:GLU:HA	24:Q:86:MET:HB2	1.99	0.44
25:R:134:TRP:O	25:R:153:THR:HG21	2.16	0.44
25:R:303:SER:O	25:R:306:PRO:HD2	2.17	0.44
25:R:349:SER:HB3	25:R:352:SER:OG	2.17	0.44
25:R:406:GLN:HA	25:R:406:GLN:HE21	1.81	0.44
25:R:411:LEU:HD23	25:R:414:LEU:HD12	1.99	0.44
25:R:67:CYS:HA	25:R:92:ILE:HD11	1.99	0.44
26:S:357:LEU:O	26:S:361:THR:N	2.22	0.44
26:S:460:VAL:HA	26:S:463:GLU:HB3	1.99	0.44
27:T:129:LEU:CD2	27:T:132:HIS:HA	2.47	0.44
27:T:50:ILE:O	27:T:53:ASN:N	2.48	0.44
27:T:89:TYR:HE1	27:T:102:LYS:HB3	1.80	0.44
24:Q:408:THR:HA	29:V:255:ILE:HD12	1.99	0.44
30:W:133:LYS:HD2	30:W:161:VAL:O	2.16	0.44
31:X:48:PHE:H	31:X:66:LEU:N	2.15	0.44
33:Z:217:GLU:HG2	33:Z:218:GLU:HG3	1.99	0.44
33:Z:291:GLU:O	33:Z:295:ARG:HG3	2.17	0.44
33:Z:322:GLU:O	33:Z:499:GLY:HA2	2.17	0.44
33:Z:544:THR:HA	33:Z:547:MET:HB3	1.98	0.44
1:1:194:LEU:HD22	1:1:198:GLU:HG2	1.99	0.44
1:1:35:ALA:HB3	1:1:154:GLN:NE2	2.33	0.44
3:3:191:VAL:HA	3:3:212:TYR:OH	2.17	0.44
3:3:41:THR:OG1	3:3:44:TYR:HD2	2.01	0.44
2:2:179:PHE:HE1	3:3:44:TYR:HD1	1.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:159:GLY:N	4:4:195:ASP:OD2	2.50	0.44
4:4:78:ALA:HB3	5:5:129:CYS:SG	2.57	0.44
6:6:118:GLN:O	6:6:126:VAL:N	2.42	0.44
6:6:85:ARG:HB2	6:6:125:LYS:HB2	1.97	0.44
6:6:39:SER:HB2	6:6:40:PRO:HD2	1.99	0.44
6:6:84:VAL:HG11	6:6:104:ILE:HD11	2.00	0.44
6:6:88:LEU:HD22	6:6:98:TYR:HB2	1.99	0.44
7:7:178:GLY:HA2	7:7:255:VAL:HG11	1.99	0.44
1:8:109:ALA:O	1:8:113:GLN:N	2.34	0.44
1:8:145:ASP:HB3	1:8:149:SER:H	1.80	0.44
1:8:220:GLY:HA2	1:8:238:LEU:H	1.82	0.44
1:8:23:PRO:HG2	1:8:24:TYR:CD2	2.52	0.44
2:9:179:PHE:CE2	2:9:221:ASP:HB2	2.53	0.44
2:9:95:HIS:NE2	2:9:99:LEU:HD11	2.32	0.44
9:B:37:ILE:HG23	9:B:161:ALA:HB2	1.99	0.44
9:B:94:HIS:CD2	9:B:98:LYS:HD3	2.52	0.44
10:C:83:ASP:HB2	10:C:133:VAL:CG2	2.47	0.44
11:D:159:TRP:CH2	12:E:56:SER:HB3	2.51	0.44
12:E:122:ARG:HA	12:E:132:ARG:CD	2.48	0.44
12:E:21:LEU:O	12:E:24:VAL:HB	2.17	0.44
13:F:144:LEU:HB3	13:F:156:LEU:O	2.17	0.44
13:F:145:LEU:HA	13:F:155:GLU:HA	2.00	0.44
8:A:133:TYR:O	14:G:126:TYR:CD1	2.71	0.44
15:H:222:ARG:O	15:H:226:GLU:N	2.50	0.44
15:H:235:PHE:HD2	15:H:242:PRO:CD	2.30	0.44
15:H:330:GLN:O	15:H:334:LEU:HG	2.16	0.44
15:H:428:MET:HE3	15:H:432:ARG:HH22	1.82	0.44
17:J:382:PHE:O	17:J:386:VAL:N	2.43	0.44
18:K:106:ASN:HD21	18:K:124:SER:CB	2.28	0.44
18:K:172:ALA:CA	18:K:181:LYS:NZ	2.80	0.44
19:L:161:ARG:NH2	19:L:265:GLU:OE1	2.50	0.44
20:M:173:ASP:OD2	20:M:176:PRO:HG3	2.18	0.44
20:M:368:MET:O	20:M:370:THR:HG23	2.16	0.44
21:N:459:ASN:HB3	21:N:462:VAL:CG2	2.47	0.44
21:N:474:SER:OG	21:N:476:THR:HB	2.16	0.44
21:N:83:LEU:HD22	21:N:132:LYS:HB2	2.00	0.44
21:N:758:VAL:HG23	21:N:874:ILE:HG13	1.97	0.44
21:N:889:ARG:HD2	21:N:912:GLU:OE1	2.17	0.44
22:O:14:LEU:O	30:W:18:ASN:OD1	2.34	0.44
22:O:166:ARG:CA	22:O:169:ASN:HB3	2.39	0.44
22:O:263:PHE:HD1	22:O:284:GLU:CD	2.20	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:34:GLU:OE1	22:O:36:LYS:HB2	2.18	0.44
23:P:104:LEU:CA	23:P:107:SER:HB2	2.48	0.44
23:P:109:SER:O	23:P:112:LEU:HB2	2.17	0.44
23:P:115:ARG:O	23:P:119:ILE:HG12	2.17	0.44
23:P:118:VAL:HG12	23:P:125:VAL:HG11	2.00	0.44
23:P:119:ILE:HD12	23:P:126:THR:CG2	2.47	0.44
23:P:344:ARG:HA	23:P:347:GLU:OE1	2.17	0.44
23:P:308:LEU:HG	23:P:369:LEU:O	2.17	0.44
23:P:394:ASN:HA	24:Q:357:VAL:CG1	2.47	0.44
23:P:396:PRO:CD	24:Q:357:VAL:HA	2.46	0.44
23:P:434:THR:HG22	23:P:438:ILE:HD12	1.99	0.44
25:R:198:ILE:HG12	25:R:200:LYS:H	1.82	0.44
25:R:223:ASN:OD1	25:R:227:ALA:HB3	2.16	0.44
25:R:411:LEU:HD13	26:S:467:PHE:CD2	2.52	0.44
25:R:50:VAL:O	25:R:54:ILE:N	2.35	0.44
26:S:185:PHE:CE1	26:S:192:GLU:OE2	2.68	0.44
26:S:220:ILE:O	26:S:222:SER:N	2.50	0.44
26:S:270:ALA:O	26:S:274:PHE:N	2.44	0.44
26:S:259:TYR:CE2	26:S:272:TYR:HB2	2.52	0.44
26:S:368:LYS:CE	27:T:133:ILE:HD13	2.47	0.44
27:T:148:LEU:O	27:T:151:TRP:HB2	2.16	0.44
27:T:90:PHE:HE2	27:T:129:LEU:HD12	1.81	0.44
26:S:458:GLN:NE2	28:U:273:LEU:HB2	2.33	0.44
29:V:58:VAL:HG23	29:V:64:ASN:ND2	2.33	0.44
28:U:53:ALA:HB3	29:V:98:THR:HG23	1.99	0.44
30:W:8:LEU:HD11	30:W:113:PHE:HE2	1.83	0.44
33:Z:362:LEU:HD11	33:Z:910:PRO:HB2	1.99	0.44
33:Z:792:VAL:O	33:Z:796:LEU:N	2.29	0.44
1:1:109:ALA:O	1:1:113:GLN:N	2.34	0.44
2:2:162:TYR:CG	2:2:163:VAL:N	2.86	0.44
4:4:108:ALA:HA	4:4:111:MET:HB2	2.00	0.44
5:5:197:LYS:HE2	5:5:199:TYR:CZ	2.52	0.44
5:5:72:ASN:ND2	10:C:96:GLN:HE22	2.14	0.44
6:6:91:SER:HB2	6:6:98:TYR:H	1.83	0.44
7:7:148:ARG:CZ	7:7:180:THR:HG22	2.47	0.44
7:7:174:THR:O	7:7:189:TYR:HA	2.17	0.44
1:8:35:ALA:HB3	1:8:154:GLN:NE2	2.33	0.44
2:9:105:THR:O	2:9:108:ALA:HB3	2.17	0.44
2:9:48:LYS:HB2	2:9:158:GLN:HG2	1.98	0.44
2:9:218:TYR:HB2	2:9:247:VAL:HG21	1.98	0.44
8:A:229:THR:OG1	8:A:232:LYS:O	2.20	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:234:PHE:HD1	8:A:235:THR:O	2.01	0.44
9:B:124:SER:HB2	9:B:127:VAL:CG2	2.48	0.44
9:B:39:ALA:N	9:B:42:GLY:O	2.51	0.44
10:C:59:GLN:OE1	10:C:209:ASP:HA	2.17	0.44
7:7:196:ARG:CZ	11:D:101:GLU:OE2	2.65	0.44
11:D:73:LEU:CD1	11:D:135:ILE:HG12	2.44	0.44
12:E:222:ILE:HA	12:E:228:PHE:HA	1.99	0.44
14:G:235:LEU:HA	14:G:238:GLU:HB3	2.00	0.44
14:G:44:ASP:OD1	14:G:45:GLY:N	2.51	0.44
15:H:207:THR:O	15:H:211:VAL:HG21	2.17	0.44
15:H:227:LEU:O	15:H:231:SER:N	2.26	0.44
15:H:399:GLU:CD	15:H:402:ILE:HG23	2.37	0.44
15:H:422:VAL:HG22	15:H:447:VAL:HG22	2.00	0.44
16:I:361:ILE:HG23	16:I:365:HIS:CE1	2.52	0.44
17:J:273:LEU:HD23	17:J:276:LEU:HD12	1.99	0.44
17:J:42:ARG:HB2	26:S:484:ASP:CG	2.37	0.44
19:L:118:ILE:HA	19:L:127:TYR:O	2.17	0.44
19:L:353:ASN:HB2	19:L:356:GLY:H	1.82	0.44
20:M:30:LEU:HA	20:M:33:ARG:HD2	2.00	0.44
20:M:345:ARG:O	20:M:347:ILE:HG12	2.17	0.44
21:N:102:VAL:O	21:N:106:ILE:HG13	2.16	0.44
21:N:181:GLU:HA	21:N:184:LYS:HB2	1.99	0.44
21:N:386:MET:HB3	21:N:404:SER:HB3	1.98	0.44
21:N:518:ALA:HA	21:N:521:LEU:HD12	2.00	0.44
21:N:641:LEU:O	21:N:645:THR:HG23	2.17	0.44
21:N:63:LEU:HD12	21:N:66:SER:HB2	1.99	0.44
21:N:778:LYS:HG2	21:N:860:LYS:HA	1.98	0.44
22:O:29:PHE:CA	22:O:32:PHE:HB3	2.47	0.44
23:P:278:ASN:CA	23:P:281:ILE:HG13	2.44	0.44
24:Q:126:LYS:CG	24:Q:134:LYS:NZ	2.75	0.44
24:Q:220:LEU:HD12	24:Q:239:PHE:CE1	2.51	0.44
24:Q:273:ASN:HB3	24:Q:306:TYR:CE2	2.52	0.44
24:Q:47:ASP:HB2	24:Q:50:ARG:HB3	1.99	0.44
25:R:320:LYS:O	25:R:324:ARG:HG3	2.17	0.44
25:R:31:PHE:O	25:R:35:GLN:N	2.49	0.44
25:R:60:ALA:HA	25:R:63:TYR:HB3	1.98	0.44
26:S:170:TYR:CE1	26:S:174:ARG:HD3	2.51	0.44
26:S:330:LEU:CA	26:S:333:PHE:HB2	2.47	0.44
28:U:32:ARG:NH2	28:U:100:ARG:HB2	2.33	0.44
30:W:163:ASN:H	30:W:168:THR:HG21	1.82	0.44
31:X:13:GLY:HA2	31:X:50:TRP:NE1	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:X:47:ASP:HB3	31:X:65:SER:OG	2.17	0.44
33:Z:407:VAL:HG13	33:Z:418:ALA:HB3	1.99	0.44
33:Z:317:GLN:HG2	33:Z:872:VAL:HB	1.98	0.44
1:1:37:GLU:N	1:1:193:TYR:OH	2.41	0.44
1:1:47:ARG:CZ	1:1:218:GLY:HA3	2.48	0.44
2:2:129:LEU:O	2:2:132:VAL:N	2.50	0.44
2:2:143:LEU:HD23	2:2:143:LEU:HA	1.59	0.44
3:3:78:VAL:HG12	3:3:82:LEU:HD11	1.99	0.44
4:4:40:GLY:HA2	4:4:137:SER:CB	2.46	0.44
5:5:142:ALA:O	5:5:145:GLN:HB2	2.17	0.44
4:4:249:ILE:HG21	5:5:48:HIS:HB3	2.00	0.44
5:5:46:TYR:O	5:5:49:VAL:N	2.50	0.44
5:5:52:GLY:O	5:5:108:VAL:N	2.45	0.44
5:5:69:TYR:HB2	10:C:100:LYS:HD3	1.99	0.44
6:6:81:SER:CB	6:6:125:LYS:HD2	2.36	0.44
6:6:162:LYS:HA	6:6:195:PHE:CZ	2.53	0.44
6:6:42:THR:OG1	6:6:77:PRO:HG3	2.17	0.44
7:7:120:MET:HA	7:7:127:CYS:SG	2.57	0.44
7:7:135:GLY:HA2	7:7:138:CYS:SG	2.58	0.44
7:7:166:LYS:HD2	7:7:193:ASP:O	2.17	0.44
7:7:230:TYR:O	7:7:233:LYS:HB3	2.17	0.44
7:7:279:GLU:OE2	7:7:281:SER:HB3	2.17	0.44
7:7:81:PHE:CE2	7:7:228:ALA:HB1	2.51	0.44
7:7:94:ARG:NH1	7:7:244:ALA:C	2.69	0.44
1:8:47:ARG:CZ	1:8:218:GLY:HA3	2.48	0.44
2:9:85:GLY:O	2:9:147:ILE:HG23	2.17	0.44
2:9:46:SER:O	2:9:175:LEU:N	2.45	0.44
8:A:47:GLY:N	8:A:50:CYS:O	2.50	0.44
8:A:87:ILE:HD12	8:A:90:ALA:HB3	1.99	0.44
8:A:94:ALA:O	8:A:98:LYS:HG3	2.18	0.44
10:C:38:ILE:HG12	10:C:162:ALA:CB	2.47	0.44
10:C:50:ARG:HD2	10:C:209:ASP:O	2.18	0.44
10:C:63:THR:O	10:C:67:TYR:OH	2.32	0.44
11:D:12:SER:H	11:D:16:HIS:H	1.65	0.44
11:D:155:ILE:HD11	12:E:83:ALA:HB2	2.19	0.44
11:D:193:LYS:NZ	11:D:235:GLN:HG2	2.16	0.44
11:D:67:ILE:HG23	11:D:90:ARG:N	2.33	0.44
12:E:46:VAL:HG23	12:E:153:TYR:HB3	1.99	0.44
13:F:74:LEU:HA	13:F:132:LEU:HD23	1.98	0.44
13:F:227:GLY:N	13:F:230:VAL:HG22	2.33	0.44
13:F:2:PHE:HD2	13:F:3:ARG:HG3	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C:5:ARG:NH2	14:G:10:LEU:HD13	2.32	0.44
8:A:133:TYR:O	14:G:126:TYR:HD1	2.01	0.44
15:H:308:PHE:N	15:H:352:MET:O	2.39	0.44
15:H:96:PRO:HG3	16:I:111:GLU:CG	2.48	0.44
18:K:292:VAL:O	18:K:296:LEU:N	2.49	0.44
18:K:297:ILE:HA	18:K:300:LEU:HB2	1.99	0.44
18:K:360:MET:HG2	18:K:402:ILE:HD12	1.99	0.44
18:K:74:HIS:C	18:K:78:GLU:HG2	2.38	0.44
19:L:191:ARG:O	19:L:194:ARG:N	2.50	0.44
19:L:200:PRO:HA	19:L:203:ASN:O	2.17	0.44
19:L:352:PRO:HD2	19:L:387:ASN:HA	2.00	0.44
20:M:199:LEU:HB2	20:M:200:PRO:HD3	1.99	0.44
20:M:245:LYS:HG3	20:M:279:PHE:HD2	1.83	0.44
20:M:268:ALA:O	20:M:272:GLU:HG3	2.17	0.44
20:M:386:PHE:HB2	20:M:391:LEU:HG	1.99	0.44
21:N:144:CYS:O	21:N:147:ALA:HB3	2.17	0.44
21:N:346:ASN:CB	21:N:350:LYS:HZ2	2.27	0.44
21:N:424:LYS:O	21:N:427:ILE:HB	2.17	0.44
21:N:444:HIS:CE1	21:N:476:THR:O	2.71	0.44
21:N:568:VAL:HG12	21:N:572:LEU:HD11	1.99	0.44
21:N:635:GLN:HA	21:N:638:ILE:HB	1.99	0.44
21:N:649:VAL:HG12	21:N:651:PHE:HB3	1.99	0.44
21:N:73:GLY:HA2	21:N:75:TYR:CZ	2.52	0.44
22:O:217:LEU:HA	22:O:220:SER:OG	2.18	0.44
22:O:230:PHE:O	22:O:258:LEU:HD13	2.17	0.44
22:O:327:LEU:CA	22:O:330:ARG:HH11	2.29	0.44
22:O:41:LEU:HD23	22:O:47:LYS:HB2	1.98	0.44
22:O:43:GLU:OE1	22:O:62:TYR:HA	2.17	0.44
23:P:233:GLU:C	23:P:237:VAL:HG23	2.36	0.44
23:P:281:ILE:HG22	23:P:282:HIS:N	2.32	0.44
24:Q:125:ALA:HB2	24:Q:130:ARG:NH2	2.33	0.44
24:Q:183:LYS:O	24:Q:187:LYS:HG2	2.18	0.44
24:Q:84:TYR:HA	24:Q:87:GLN:HG2	1.98	0.44
25:R:333:MET:HA	25:R:336:LYS:CB	2.46	0.44
25:R:405:LYS:O	25:R:408:ASP:HB3	2.16	0.44
25:R:67:CYS:SG	25:R:94:PHE:HE1	2.41	0.44
26:S:185:PHE:HA	26:S:188:TYR:CD2	2.52	0.44
26:S:289:ALA:O	26:S:292:TYR:HB2	2.17	0.44
26:S:327:ILE:HD13	26:S:353:LYS:HA	1.99	0.44
27:T:141:LEU:HA	27:T:144:TYR:HD2	1.80	0.44
27:T:115:SER:HB3	27:T:177:PHE:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:200:LEU:HG	27:T:204:ASN:HB2	2.00	0.44
27:T:263:ALA:O	27:T:267:ALA:N	2.39	0.44
28:U:9:THR:N	28:U:46:ILE:O	2.33	0.44
30:W:150:ASN:H	30:W:152:GLU:CD	2.20	0.44
30:W:157:PHE:O	30:W:161:VAL:N	2.46	0.44
30:W:161:VAL:HB	30:W:169:SER:HG	1.82	0.44
30:W:178:PRO:HG2	30:W:179:ARG:NH1	2.33	0.44
30:W:95:GLN:O	30:W:99:LYS:HG3	2.17	0.44
33:Z:123:ALA:O	33:Z:126:TYR:HB3	2.17	0.44
33:Z:416:THR:HG23	33:Z:450:GLY:HA2	1.98	0.44
33:Z:544:THR:HG22	33:Z:548:ASP:OD2	2.17	0.44
3:3:105:CYS:HA	3:3:112:LEU:HD12	2.00	0.44
3:3:85:TYR:CZ	3:3:89:TYR:HB2	2.53	0.44
4:4:112:LEU:O	4:4:115:HIS:HB3	2.18	0.44
4:4:162:ALA:HB1	4:4:190:ALA:HB1	1.98	0.44
4:4:175:LEU:HA	4:4:179:GLU:OE1	2.18	0.44
4:4:205:CYS:HA	4:4:214:GLU:O	2.18	0.44
5:5:2:SER:O	5:5:4:PRO:HD3	2.18	0.44
1:8:57:ARG:NH1	1:8:219:ASP:OD1	2.48	0.44
2:9:115:ASP:N	2:9:115:ASP:OD1	2.48	0.44
2:9:253:ASP:CG	2:9:256:LYS:NZ	2.71	0.44
2:9:60:LEU:HB2	2:9:70:ASN:HD22	1.82	0.44
2:9:76:ILE:HD13	2:9:86:ILE:HD12	1.99	0.44
10:C:191:GLU:HG3	10:C:195:LYS:HE2	1.99	0.44
10:C:85:GLU:HA	10:C:88:ILE:HD12	2.00	0.44
11:D:43:VAL:HG11	11:D:192:VAL:HA	2.00	0.44
11:D:41:CYS:SG	11:D:188:VAL:HG22	2.58	0.44
12:E:38:ILE:HG23	12:E:183:LEU:HD11	2.00	0.44
12:E:90:GLU:OE2	19:L:140:LEU:HD11	179.57	0.44
14:G:36:THR:OG1	14:G:203:ALA:HB1	2.17	0.44
15:H:144:LYS:NZ	15:H:155:PHE:CE2	2.58	0.44
15:H:216:ASP:HB3	15:H:220:LYS:NZ	2.33	0.44
15:H:197:MET:HG3	15:H:278:GLU:CD	2.37	0.44
17:J:318:PRO:N	17:J:319:PRO:HA	2.26	0.44
17:J:359:LYS:O	17:J:363:THR:HG23	2.18	0.44
17:J:87:LYS:HB2	17:J:93:LYS:HG2	1.99	0.44
18:K:180:GLN:O	18:K:183:GLU:HB3	2.18	0.44
18:K:215:PRO:C	18:K:217:THR:H	2.21	0.44
18:K:265:ALA:HB1	18:K:311:ASN:CB	2.47	0.44
18:K:342:SER:CA	18:K:343:LEU:CB	2.96	0.44
19:L:271:LYS:NZ	19:L:319:GLY:HA3	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:132:VAL:CG2	20:M:155:ILE:HB	2.47	0.44
20:M:221:TYR:CZ	20:M:348:GLU:HB3	2.53	0.44
20:M:80:ALA:HA	20:M:120:LYS:O	2.18	0.44
21:N:246:LYS:HA	21:N:249:ASN:HB2	1.99	0.44
21:N:483:LEU:O	21:N:487:LEU:HG	2.18	0.44
21:N:50:TYR:HA	21:N:58:ARG:CB	2.45	0.44
21:N:603:PRO:HG3	21:N:637:ALA:HB2	1.99	0.44
21:N:65:ALA:HB1	21:N:69:TYR:CE2	2.52	0.44
21:N:919:THR:OG1	21:N:920:VAL:N	2.50	0.44
22:O:176:SER:HB2	22:O:188:PHE:CE1	2.53	0.44
22:O:254:LEU:HD21	22:O:266:PHE:CD1	2.53	0.44
22:O:341:ILE:O	23:P:359:ARG:N	2.34	0.44
23:P:110:LEU:HD23	23:P:113:ASN:ND2	2.17	0.44
23:P:168:TYR:C	23:P:176:LYS:HZ2	2.15	0.44
23:P:255:ALA:CA	23:P:258:LYS:HE2	2.47	0.44
23:P:260:VAL:HG12	23:P:264:ILE:HD11	1.99	0.44
23:P:276:LEU:O	23:P:279:ASP:N	2.51	0.44
23:P:295:SER:HA	23:P:298:SER:CB	2.41	0.44
23:P:329:PHE:CD2	23:P:337:HIS:HD2	2.35	0.44
23:P:409:SER:CB	23:P:412:LEU:HG	2.47	0.44
23:P:71:LYS:HD2	23:P:74:ASP:OD1	2.18	0.44
24:Q:275:ILE:HD11	24:Q:306:TYR:CD2	2.53	0.44
24:Q:66:VAL:HA	24:Q:71:LYS:HB2	2.00	0.44
24:Q:90:LYS:HZ3	24:Q:129:LYS:HE3	1.82	0.44
25:R:106:ASN:O	25:R:110:ILE:N	2.36	0.44
25:R:109:LYS:HB3	25:R:140:TYR:CD2	2.52	0.44
25:R:319:CYS:SG	25:R:322:LEU:HD12	2.57	0.44
25:R:345:TYR:HD2	25:R:347:THR:O	2.00	0.44
25:R:382:ASP:OD2	25:R:385:ASN:CA	2.63	0.44
26:S:170:TYR:CZ	26:S:171:TYR:CZ	3.05	0.44
26:S:309:PHE:O	26:S:312:GLN:HB2	2.17	0.44
26:S:430:GLY:O	26:S:432:ILE:N	2.50	0.44
27:T:55:LEU:HD11	27:T:88:TYR:CZ	2.52	0.44
18:K:142:HIS:CG	29:V:145:GLN:HE21	2.35	0.44
21:N:740:TRP:CE3	29:V:24:LYS:NZ	2.54	0.44
33:Z:475:GLN:HA	33:Z:493:LEU:HD21	1.99	0.44
33:Z:501:LYS:CD	33:Z:534:PHE:HA	2.40	0.44
33:Z:780:MET:HE1	33:Z:789:GLN:HB3	1.97	0.44
1:1:179:TYR:HA	1:1:189:LYS:N	2.33	0.44
1:1:93:TRP:HH2	13:F:90:GLN:HG3	97.65	0.44
2:2:161:ARG:CG	2:2:171:SER:HB2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:204:GLN:N	2:2:204:GLN:CD	2.70	0.44
3:3:162:ARG:CZ	3:3:165:MET:HG2	2.48	0.44
3:3:165:MET:HE2	3:3:169:GLU:HB3	2.00	0.44
3:3:214:GLN:N	3:3:214:GLN:OE1	2.50	0.44
4:4:66:ILE:HD12	4:4:70:ILE:HG22	1.99	0.44
6:6:129:PRO:HB3	6:6:148:TYR:OH	2.17	0.44
6:6:140:THR:HG23	6:6:168:LEU:HD21	2.00	0.44
6:6:51:GLY:O	6:6:55:GLN:HG2	2.18	0.44
7:7:127:CYS:O	7:7:128:GLN:C	2.55	0.44
7:7:127:CYS:O	7:7:131:GLU:CB	2.46	0.44
7:7:237:LEU:HD21	7:7:272:PHE:HA	1.99	0.44
1:8:194:LEU:HD22	1:8:198:GLU:HG2	1.99	0.44
1:8:200:ILE:HD13	1:8:234:GLU:OE2	2.18	0.44
2:9:162:TYR:OH	2:9:164:ASN:HB3	2.17	0.44
8:A:130:GLN:HA	9:B:128:ARG:CG	2.41	0.44
8:A:131:ARG:HB2	8:A:134:MET:HB2	2.00	0.44
8:A:206:ALA:O	8:A:210:MET:N	2.38	0.44
10:C:142:ASP:OD1	10:C:143:ARG:N	2.51	0.44
10:C:24:TYR:O	10:C:27:GLU:HB3	2.17	0.44
11:D:96:HIS:HD2	11:D:108:TYR:CE2	2.36	0.44
12:E:153:TYR:HE1	12:E:223:THR:HA	1.82	0.44
13:F:69:HIS:CD2	13:F:102:LYS:HB3	2.53	0.44
13:F:15:PRO:HA	14:G:26:TYR:CE1	2.53	0.44
13:F:66:CYS:SG	13:F:88:LEU:HD23	2.58	0.44
14:G:198:LYS:NZ	14:G:199:ILE:HG12	2.33	0.44
14:G:5:GLY:C	14:G:8:TYR:HE2	2.21	0.44
15:H:223:GLU:HB3	20:M:404:ARG:HH21	1.82	0.44
15:H:224:VAL:HG11	15:H:246:ILE:HB	2.00	0.44
15:H:254:THR:HB	15:H:417:ALA:N	2.33	0.44
16:I:104:LEU:HD22	16:I:150:HIS:HA	1.99	0.44
16:I:132:ILE:CB	16:I:138:LYS:HZ2	2.31	0.44
16:I:180:SER:O	16:I:184:ILE:HG23	2.18	0.44
16:I:248:VAL:HA	16:I:282:ASP:HB3	1.99	0.44
16:I:266:GLN:HA	16:I:269:LYS:CD	2.43	0.44
16:I:355:LEU:HD22	16:I:381:VAL:HG13	1.99	0.44
16:I:414:GLU:O	16:I:418:GLN:N	2.35	0.44
17:J:187:LEU:H	17:J:293:ALA:CA	2.26	0.44
17:J:250:ILE:HG23	17:J:251:ASP:N	2.32	0.44
18:K:121:ARG:O	18:K:146:LEU:N	2.33	0.44
18:K:73:ARG:O	18:K:76:LYS:HB3	2.18	0.44
19:L:140:LEU:HD21	19:L:158:ILE:HG12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:256:ILE:HD12	19:L:303:ARG:HD3	1.98	0.44
20:M:395:THR:O	20:M:398:ALA:HB3	2.18	0.44
20:M:411:LYS:O	20:M:415:PHE:HD2	2.00	0.44
21:N:174:LEU:CD2	21:N:182:ASN:HB3	2.46	0.44
21:N:441:VAL:HA	21:N:444:HIS:HB3	2.00	0.44
21:N:518:ALA:O	21:N:521:LEU:HB2	2.18	0.44
21:N:648:PRO:HA	21:N:653:ARG:HH22	1.83	0.44
21:N:717:LEU:HD21	21:N:730:VAL:HG22	1.99	0.44
22:O:15:ARG:CB	30:W:18:ASN:CG	2.71	0.44
22:O:215:TYR:CZ	22:O:219:ILE:HD11	2.52	0.44
22:O:242:ILE:HB	22:O:248:TYR:CE1	2.52	0.44
22:O:313:ILE:O	22:O:316:ALA:HB3	2.17	0.44
22:O:369:ARG:NE	22:O:373:TRP:HE1	2.15	0.44
22:O:47:LYS:NZ	22:O:48:PHE:HE1	2.16	0.44
23:P:158:ASP:O	23:P:161:CYS:N	2.51	0.44
23:P:294:GLU:O	23:P:297:GLU:N	2.51	0.44
24:Q:137:LEU:CA	24:Q:140:LYS:HZ1	2.28	0.44
24:Q:158:ILE:O	24:Q:162:LEU:HG	2.18	0.44
18:K:347:ARG:NH2	24:Q:202:ARG:NH1	2.64	0.44
24:Q:223:GLY:HA3	24:Q:239:PHE:CZ	2.52	0.44
25:R:319:CYS:HB2	25:R:322:LEU:CD1	2.45	0.44
25:R:325:HIS:ND1	25:R:326:ALA:O	2.50	0.44
24:Q:382:LEU:HD11	25:R:340:GLN:HG3	1.98	0.44
25:R:353:MET:O	25:R:357:PHE:CG	2.71	0.44
25:R:335:ARG:NE	25:R:376:GLN:HB2	2.33	0.44
25:R:411:LEU:HA	25:R:414:LEU:HD12	2.00	0.44
26:S:156:VAL:HG13	26:S:188:TYR:CE1	2.52	0.44
26:S:190:SER:O	26:S:193:THR:HG23	2.17	0.44
28:U:265:LEU:HG	28:U:265:LEU:H	1.59	0.44
28:U:6:GLU:HB3	28:U:46:ILE:HG13	1.98	0.44
29:V:117:TRP:CZ3	29:V:119:SER:HA	2.52	0.44
30:W:132:LEU:HD11	30:W:157:PHE:HZ	1.82	0.44
30:W:145:GLY:HA3	30:W:149:GLN:HG2	1.98	0.44
33:Z:611:THR:OG1	33:Z:613:ASP:OD1	2.26	0.44
33:Z:824:ASN:OD1	33:Z:825:ALA:N	2.50	0.44
33:Z:834:LEU:HD13	33:Z:855:LEU:HB2	2.00	0.44
2:2:179:PHE:CE2	2:2:221:ASP:HB2	2.52	0.44
2:2:226:ARG:HG2	2:2:246:GLN:HG3	1.98	0.44
2:2:60:LEU:HB2	2:2:70:ASN:HD22	1.82	0.44
2:2:81:ASN:ND2	2:2:122:PRO:HD3	2.33	0.44
3:3:30:GLY:N	3:3:126:LYS:HD3	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:71:THR:HA	3:3:74:ILE:HD12	1.98	0.44
5:5:75:LYS:HG3	5:5:80:ARG:O	2.17	0.44
6:6:147:HIS:C	6:6:149:ARG:NH1	2.71	0.44
6:6:158:LEU:HB3	6:6:198:GLN:OE1	2.17	0.44
6:6:84:VAL:O	6:6:87:GLU:HG2	2.18	0.44
7:7:230:TYR:CD1	7:7:233:LYS:HD3	2.52	0.44
1:8:116:LEU:HD23	1:8:124:TYR:HD2	1.81	0.44
1:8:179:TYR:HA	1:8:189:LYS:H	1.82	0.44
1:8:192:LYS:HE3	1:8:192:LYS:HB3	1.81	0.44
2:9:81:ASN:ND2	2:9:122:PRO:HD3	2.33	0.44
2:9:211:VAL:O	2:9:214:MET:HB2	2.17	0.44
8:A:126:GLN:HA	8:A:129:THR:HB	2.00	0.44
10:C:106:ILE:HD13	10:C:111:LEU:HB2	1.99	0.44
11:D:118:GLN:CG	12:E:83:ALA:HB1	2.47	0.44
11:D:174:PHE:HD2	11:D:175:LEU:HG	1.83	0.44
12:E:74:ILE:CG1	12:E:109:VAL:HG22	2.47	0.44
12:E:16:SER:OG	12:E:18:GLU:HB2	2.15	0.44
12:E:202:LYS:HD2	12:E:247:GLU:HG2	2.00	0.44
12:E:51:GLU:CG	12:E:53:ARG:HB2	2.48	0.44
13:F:3:ARG:NH2	13:F:24:TYR:CE1	2.86	0.44
13:F:117:GLN:HB2	14:G:83:PRO:CB	2.47	0.44
15:H:157:VAL:HG21	15:H:168:ILE:HG21	1.98	0.44
15:H:178:ARG:HH22	15:H:289:ARG:HB3	1.82	0.44
15:H:191:ILE:HA	15:H:192:ASP:HB2	1.99	0.44
15:H:96:PRO:CG	16:I:111:GLU:HG3	2.47	0.44
16:I:124:THR:OG1	16:I:126:PRO:HD2	2.18	0.44
16:I:335:ASP:O	16:I:338:LEU:HB3	2.17	0.44
15:H:425:GLU:OE1	16:I:345:ASP:HB2	2.17	0.44
16:I:91:GLU:OE1	16:I:94:LYS:HD3	2.18	0.44
15:H:55:ASP:HA	16:I:99:ILE:HG12	2.00	0.44
17:J:186:ILE:HA	17:J:293:ALA:HA	1.99	0.44
17:J:195:LYS:CB	17:J:253:ILE:HB	2.48	0.44
17:J:213:VAL:C	17:J:248:ASP:HB2	2.38	0.44
16:I:423:VAL:C	17:J:306:ARG:HH11	2.18	0.44
17:J:76:ILE:HD11	17:J:87:LYS:HB3	1.99	0.44
17:J:79:VAL:HG12	17:J:80:SER:H	1.83	0.44
18:K:394:ALA:CB	18:K:402:ILE:HG12	2.41	0.44
19:L:369:LYS:HG2	19:L:409:HIS:HB3	2.00	0.44
21:N:123:PHE:HZ	21:N:161:TYR:CB	2.26	0.44
21:N:193:ALA:O	21:N:203:ARG:HD3	2.17	0.44
21:N:572:LEU:HA	21:N:572:LEU:HD23	1.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:665:ILE:O	21:N:667:GLN:HG3	2.18	0.44
21:N:302:PHE:HE1	21:N:872:THR:N	2.16	0.44
21:N:892:PRO:HA	21:N:906:ARG:CB	2.38	0.44
22:O:124:ASP:CG	22:O:125:GLY:H	2.21	0.44
22:O:205:ILE:HB	22:O:209:GLU:CD	2.37	0.44
22:O:23:HIS:HB3	22:O:26:PHE:CB	2.47	0.44
22:O:301:PHE:HB2	22:O:305:ILE:HG23	2.00	0.44
22:O:34:GLU:CD	22:O:36:LYS:HB2	2.38	0.44
22:O:41:LEU:N	22:O:52:ALA:HB3	2.32	0.44
22:O:71:ASP:OD2	30:W:23:ARG:HB2	2.18	0.44
23:P:101:MET:HE1	23:P:104:LEU:HD12	2.00	0.44
23:P:162:GLU:HB3	23:P:166:GLU:HG3	2.00	0.44
23:P:266:TYR:HA	23:P:296:GLN:HE22	1.82	0.44
23:P:42:LEU:HD13	23:P:59:LEU:HB2	1.99	0.44
24:Q:102:GLU:O	24:Q:105:GLU:HB2	2.18	0.44
24:Q:41:ALA:HB1	24:Q:51:ARG:HG2	2.00	0.44
25:R:149:ASN:HA	25:R:152:LYS:NZ	2.33	0.44
25:R:154:LEU:HD11	25:R:170:VAL:HG22	1.99	0.44
25:R:262:GLU:O	25:R:266:LEU:HG	2.17	0.44
25:R:337:VAL:O	25:R:341:LEU:HG	2.18	0.44
24:Q:392:GLN:CG	25:R:349:SER:H	2.29	0.44
25:R:43:ARG:HD3	25:R:88:LEU:C	2.38	0.44
26:S:370:LEU:O	26:S:373:LYS:HB3	2.18	0.44
27:T:190:ALA:HB1	27:T:226:TRP:HH2	1.83	0.44
28:U:140:ILE:C	28:U:153:THR:C	2.76	0.44
28:U:57:GLU:O	28:U:66:TRP:HB2	2.17	0.44
29:V:289:GLU:C	29:V:291:ASN:H	2.21	0.44
29:V:58:VAL:N	29:V:62:THR:HB	2.32	0.44
30:W:147:ILE:HB	30:W:148:GLU:O	2.18	0.44
30:W:68:GLU:HG3	30:W:70:GLY:H	1.82	0.44
33:Z:161:ILE:HG23	33:Z:164:VAL:HB	1.98	0.44
33:Z:546:ILE:O	33:Z:550:PHE:N	2.47	0.44
33:Z:428:TRP:CH2	33:Z:910:PRO:HD3	2.53	0.44
1:1:110:ARG:O	1:1:114:HIS:CE1	2.71	0.44
2:2:253:ASP:CG	2:2:256:LYS:NZ	2.71	0.44
2:2:89:ASP:OD1	2:2:90:ILE:N	2.50	0.44
3:3:23:MET:SD	3:3:174:ILE:HG23	2.58	0.44
3:3:69:ALA:HB2	4:4:147:SER:N	2.32	0.44
6:6:162:LYS:HD2	6:6:198:GLN:HB3	2.00	0.44
6:6:41:HIS:HA	6:6:188:GLY:HA2	2.00	0.44
1:8:223:ILE:N	1:8:234:GLU:O	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:226:ARG:HG2	2:9:246:GLN:HG3	1.99	0.44
8:A:133:TYR:HB3	9:B:5:TYR:HD2	1.82	0.44
8:A:158:ASP:OD1	8:A:161:GLY:N	2.51	0.44
9:B:118:MET:CE	9:B:130:PHE:HB2	2.48	0.44
9:B:44:VAL:HG23	9:B:213:ILE:HG22	2.00	0.44
10:C:7:ASP:CG	10:C:9:ARG:H	2.20	0.44
14:G:126:TYR:CD2	14:G:129:VAL:CG1	3.01	0.44
14:G:189:ALA:O	14:G:193:VAL:HG23	2.18	0.44
14:G:243:ALA:O	14:G:247:ILE:N	2.42	0.44
14:G:55:THR:H	14:G:59:LEU:CD2	2.30	0.44
15:H:202:GLU:HB2	15:H:270:THR:HG23	2.00	0.44
15:H:341:ASP:OD1	15:H:370:ARG:HD2	2.17	0.44
15:H:74:THR:HG22	15:H:170:GLU:OE2	2.18	0.44
16:I:222:TYR:CG	16:I:223:GLY:N	2.86	0.44
16:I:365:HIS:CD2	16:I:393:GLN:HE21	2.35	0.44
16:I:394:ALA:HB1	16:I:423:VAL:CG1	2.46	0.44
17:J:78:ILE:HD12	17:J:104:VAL:HB	1.99	0.44
17:J:170:HIS:ND1	17:J:173:LEU:HG	2.32	0.44
17:J:332:SER:HB2	17:J:337:LEU:HD11	2.00	0.44
17:J:382:PHE:O	17:J:386:VAL:HG23	2.18	0.44
18:K:178:ASP:N	18:K:181:LYS:HE2	2.33	0.44
18:K:239:GLY:CA	18:K:276:SER:HB2	2.46	0.44
19:L:117:TYR:CE2	19:L:131:VAL:HG12	2.53	0.44
19:L:103:GLN:HB3	19:L:147:THR:CG2	2.48	0.44
19:L:303:ARG:O	19:L:307:GLU:HG3	2.17	0.44
19:L:70:TYR:HD1	20:M:12:LEU:HD11	1.82	0.44
20:M:121:THR:H	20:M:125:GLN:H	1.66	0.44
20:M:242:THR:HB	20:M:276:THR:CB	2.48	0.44
20:M:291:PHE:CD2	20:M:292:ASP:HB3	2.53	0.44
20:M:398:ALA:HB2	20:M:415:PHE:HA	2.00	0.44
21:N:599:TYR:N	21:N:599:TYR:CD1	2.86	0.44
21:N:59:GLU:HA	21:N:62:ALA:HB3	2.00	0.44
21:N:8:PRO:HB3	27:T:84:GLN:HA	1.99	0.44
22:O:68:LYS:HD2	22:O:72:LYS:HB2	1.99	0.44
22:O:81:TYR:O	22:O:83:LEU:N	2.50	0.44
23:P:103:TYR:O	23:P:106:SER:C	2.57	0.44
23:P:123:ARG:HD2	23:P:127:GLU:OE1	2.18	0.44
23:P:214:GLU:O	23:P:218:LEU:HG	2.18	0.44
23:P:297:GLU:HA	23:P:300:VAL:HB	1.99	0.44
23:P:70:ASN:ND2	23:P:75:LEU:HB2	2.33	0.44
24:Q:358:GLU:HB3	24:Q:361:HIS:NE2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:311:LEU:HD21	24:Q:368:LEU:HB2	1.98	0.44
24:Q:27:TYR:CE1	24:Q:61:LEU:HB2	2.53	0.44
25:R:119:LYS:HA	25:R:122:GLU:CB	2.44	0.44
25:R:230:LEU:HA	25:R:233:ASP:OD2	2.18	0.44
25:R:254:SER:OG	25:R:255:VAL:N	2.51	0.44
25:R:331:ARG:HH12	25:R:370:LYS:CD	2.29	0.44
25:R:52:ALA:O	25:R:55:LYS:HB2	2.17	0.44
26:S:383:LEU:HG	26:S:383:LEU:H	1.63	0.44
26:S:386:ASN:HA	26:S:389:LYS:HE2	2.00	0.44
26:S:434:ALA:CB	26:S:445:THR:HA	2.48	0.44
27:T:221:ALA:HB1	27:T:228:ILE:HD11	1.99	0.44
27:T:37:ASN:C	27:T:39:LEU:H	2.21	0.44
29:V:137:VAL:HG12	29:V:199:LEU:HD12	2.00	0.44
29:V:241:THR:HG23	29:V:297:THR:CB	2.46	0.44
29:V:26:THR:HB	29:V:28:TYR:CZ	2.52	0.44
29:V:37:MET:CB	29:V:108:TYR:HE2	2.27	0.44
30:W:26:PHE:O	30:W:30:ILE:HG13	2.18	0.44
30:W:6:THR:HG22	30:W:7:VAL:N	2.33	0.44
31:X:78:ILE:HG13	31:X:115:SER:HB3	1.99	0.44
31:X:127:GLY:O	31:X:130:ASN:N	2.51	0.44
33:Z:737:ALA:H	33:Z:771:HIS:HE2	1.64	0.44
33:Z:839:SER:CB	33:Z:845:LEU:HB2	2.48	0.44
1:1:50:THR:N	1:1:53:SER:O	2.34	0.44
3:3:34:GLY:HA2	3:3:53:LEU:HD11	1.99	0.44
3:3:67:SER:O	3:3:70:ASP:HB2	2.18	0.44
4:4:189:GLN:HB3	4:4:193:TRP:CD1	2.53	0.44
1:1:178:GLN:HA	4:4:238:THR:HG22	1.98	0.44
5:5:73:LEU:CG	10:C:96:GLN:HG3	2.47	0.44
6:6:41:HIS:CD2	6:6:107:TYR:HB3	2.53	0.44
6:6:29:LYS:HE2	6:6:32:ASP:HA	1.99	0.44
7:7:158:LEU:HA	7:7:161:LEU:HB3	2.00	0.44
1:8:119:LYS:CB	1:8:123:PRO:HA	2.48	0.44
2:9:162:TYR:CG	2:9:163:VAL:N	2.86	0.44
2:9:55:ILE:O	2:9:230:LEU:HG	2.18	0.44
2:9:37:PRO:HD3	2:9:144:TRP:CZ2	2.53	0.44
8:A:131:ARG:HD2	8:A:131:ARG:HA	1.76	0.44
9:B:48:GLU:HG3	9:B:209:ILE:HD13	2.00	0.44
9:B:95:THR:HG1	9:B:96:SER:H	1.65	0.44
10:C:201:THR:OG1	10:C:206:LEU:HD13	2.18	0.44
10:C:74:ALA:O	10:C:138:ALA:HB3	2.18	0.44
12:E:202:LYS:HG3	12:E:247:GLU:OE2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:70:ILE:HA	12:E:93:ARG:HG2	2.00	0.44
12:E:90:GLU:O	12:E:94:THR:N	2.39	0.44
2:9:127:GLU:HG2	13:F:100:ASN:HB2	2.00	0.44
14:G:175:GLU:O	14:G:178:LYS:HB2	2.18	0.44
14:G:201:TYR:HE2	14:G:243:ALA:HB3	1.83	0.44
14:G:95:GLU:HA	14:G:98:SER:HB3	2.00	0.44
15:H:251:PRO:O	15:H:256:LYS:HE3	2.17	0.44
16:I:185:GLY:HA3	16:I:361:ILE:HG12	2.00	0.44
17:J:250:ILE:HD11	17:J:300:LEU:HD21	1.99	0.44
17:J:61:GLU:O	17:J:65:LEU:HG	2.17	0.44
18:K:112:SER:O	18:K:115:GLY:N	2.42	0.44
18:K:59:GLU:O	18:K:62:THR:HB	2.18	0.44
19:L:117:TYR:HE2	19:L:131:VAL:HG12	1.83	0.44
19:L:290:ARG:HG2	19:L:301:ILE:CG2	2.48	0.44
20:M:77:TYR:CD1	20:M:147:GLY:HA2	2.52	0.44
20:M:224:PRO:HB3	20:M:228:LYS:HD3	2.00	0.44
20:M:355:ASP:HA	20:M:358:ALA:CB	2.48	0.44
21:N:202:PHE:O	21:N:206:ILE:HG12	2.17	0.44
21:N:214:LEU:HB3	21:N:220:CYS:CB	2.48	0.44
21:N:386:MET:C	21:N:390:LEU:HG	2.37	0.44
21:N:402:GLY:HA2	21:N:405:LEU:CD1	2.48	0.44
21:N:496:GLU:CA	21:N:499:HIS:HD1	2.31	0.44
21:N:638:ILE:HD11	21:N:663:ILE:HG21	1.99	0.44
21:N:718:GLU:OE1	21:N:725:LEU:HG	2.18	0.44
22:O:190:TYR:CZ	22:O:194:LEU:HD21	2.53	0.44
22:O:208:ALA:O	22:O:212:GLN:HB3	2.17	0.44
22:O:321:LYS:O	22:O:325:GLU:HG3	2.18	0.44
22:O:380:LEU:C	22:O:382:LYS:N	2.70	0.44
22:O:40:GLN:O	22:O:56:PRO:HB3	2.18	0.44
23:P:235:LEU:H	23:P:271:SER:HB3	1.83	0.44
23:P:409:SER:HA	28:U:268:LYS:CE	2.48	0.44
23:P:70:ASN:HD21	23:P:75:LEU:HB2	1.82	0.44
24:Q:318:LEU:HA	24:Q:325:LEU:HD21	2.00	0.44
24:Q:427:PHE:CD1	25:R:417:TYR:HA	2.53	0.44
24:Q:27:TYR:CE1	24:Q:57:SER:HB2	2.53	0.44
24:Q:27:TYR:CD1	24:Q:61:LEU:HD22	2.52	0.44
24:Q:86:MET:SD	24:Q:90:LYS:HA	2.58	0.44
25:R:176:ARG:CG	25:R:243:LEU:HD11	2.48	0.44
26:S:379:LEU:C	26:S:381:VAL:H	2.20	0.44
27:T:155:GLY:HA2	27:T:157:TYR:CE1	2.53	0.44
27:T:18:GLY:HA2	27:T:20:TYR:CE2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:216:GLU:HA	27:T:219:LYS:HZ1	1.83	0.44
18:K:76:LYS:HD3	27:T:272:ASN:HD21	1.82	0.44
28:U:11:ALA:HB3	28:U:14:VAL:HG23	2.00	0.44
28:U:189:ARG:O	28:U:192:ASN:HB2	2.18	0.44
28:U:275:VAL:HA	28:U:278:ILE:CG1	2.48	0.44
28:U:275:VAL:HA	28:U:278:ILE:HG13	2.00	0.44
29:V:264:GLU:HG2	29:V:276:PRO:HA	2.00	0.44
30:W:139:VAL:HG11	30:W:157:PHE:CE2	2.52	0.44
30:W:164:PRO:HD2	30:W:168:THR:CG2	2.47	0.44
30:W:6:THR:HG23	30:W:109:ARG:HG2	1.98	0.44
31:X:48:PHE:HD2	31:X:66:LEU:HD23	1.83	0.44
33:Z:417:SER:HA	33:Z:420:ALA:HB3	2.00	0.44
33:Z:287:ARG:H	33:Z:872:VAL:HG12	1.83	0.44
2:2:115:ASP:N	2:2:115:ASP:OD1	2.48	0.43
2:2:85:GLY:O	2:2:147:ILE:HG23	2.17	0.43
2:2:48:LYS:HE3	2:2:160:LEU:HB3	2.00	0.43
2:2:162:TYR:OH	2:2:164:ASN:HB3	2.17	0.43
2:2:262:GLY:O	2:2:264:GLN:N	2.51	0.43
3:3:102:LYS:O	3:3:106:TYR:N	2.37	0.43
3:3:170:THR:HG22	3:3:174:ILE:HD12	2.00	0.43
5:5:109:VAL:HB	5:5:122:ALA:HB3	2.00	0.43
6:6:148:TYR:HA	6:6:152:MET:SD	2.58	0.43
6:6:109:LYS:NZ	6:6:186:LYS:HA	2.33	0.43
7:7:94:ARG:NH1	7:7:245:TYR:C	2.71	0.43
7:7:96:THR:HA	7:7:102:ALA:N	2.23	0.43
1:8:110:ARG:O	1:8:114:HIS:CE1	2.71	0.43
2:9:96:ILE:O	2:9:100:LEU:HG	2.17	0.43
2:9:48:LYS:HE3	2:9:160:LEU:HB3	2.00	0.43
2:9:253:ASP:O	2:9:256:LYS:HG2	2.18	0.43
8:A:205:PHE:O	8:A:209:HIS:HD2	2.02	0.43
8:A:209:HIS:HA	8:A:212:ASP:OD2	2.18	0.43
9:B:101:TYR:O	9:B:103:GLU:HG2	2.18	0.43
9:B:97:TYR:CG	9:B:105:PRO:HB3	2.53	0.43
9:B:218:ASN:HB3	9:B:220:ASP:OD1	2.18	0.43
10:C:120:GLN:O	10:C:123:THR:HB	2.18	0.43
11:D:169:LYS:HZ1	11:D:172:ARG:HD2	1.82	0.43
11:D:169:LYS:HZ2	11:D:172:ARG:NH1	2.15	0.43
11:D:214:VAL:N	11:D:222:VAL:O	2.42	0.43
11:D:70:HIS:CD2	11:D:71:VAL:HG23	2.54	0.43
13:F:116:ALA:O	13:F:119:ASN:HB2	2.18	0.43
13:F:72:LEU:HB2	13:F:134:ILE:HG13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:6:TYR:CD1	13:F:15:PRO:HD3	2.53	0.43
13:F:218:LYS:HG2	13:F:219:ASP:OD1	2.18	0.43
13:F:226:ASP:N	13:F:229:ALA:HB3	2.33	0.43
13:F:65:LYS:NZ	13:F:68:GLU:CD	2.71	0.43
13:F:94:TYR:CE1	13:F:98:VAL:HG21	2.53	0.43
14:G:27:ALA:HB2	14:G:131:PRO:HG2	1.99	0.43
14:G:80:GLY:CA	14:G:134:VAL:HG12	2.47	0.43
13:F:110:HIS:HB3	14:G:86:ARG:NH2	2.30	0.43
15:H:264:ALA:CB	15:H:271:PHE:HB2	2.48	0.43
15:H:396:MET:SD	15:H:424:THR:HA	2.58	0.43
16:I:106:ILE:HG13	17:J:95:ILE:HG22	2.00	0.43
16:I:275:ALA:HA	16:I:276:PRO:C	2.38	0.43
16:I:376:ASN:O	16:I:380:LEU:HG	2.18	0.43
17:J:272:MET:SD	17:J:275:LEU:HD12	2.57	0.43
17:J:98:VAL:HA	17:J:122:LEU:HB2	1.99	0.43
18:K:172:ALA:HA	18:K:181:LYS:NZ	2.32	0.43
18:K:295:ILE:O	18:K:298:GLU:HB3	2.18	0.43
18:K:329:LEU:HD22	18:K:337:LYS:HE2	1.98	0.43
18:K:342:SER:CA	18:K:343:LEU:HB3	2.47	0.43
19:L:361:PHE:O	19:L:365:THR:OG1	2.34	0.43
19:L:402:ALA:HA	19:L:414:ASP:OD2	2.17	0.43
21:N:112:GLU:HA	21:N:115:LYS:HE2	1.99	0.43
21:N:244:LYS:O	21:N:247:GLU:HB2	2.18	0.43
21:N:302:PHE:CZ	21:N:712:ASN:HB3	2.53	0.43
21:N:761:ILE:HG22	21:N:762:ARG:N	2.24	0.43
22:O:188:PHE:O	22:O:192:SER:N	2.38	0.43
22:O:243:VAL:CG1	22:O:248:TYR:HB3	2.42	0.43
22:O:250:TRP:HH2	22:O:271:LYS:CB	2.30	0.43
22:O:374:ASN:ND2	28:U:197:LEU:HB2	2.31	0.43
22:O:1:MET:N	22:O:39:PHE:HZ	2.15	0.43
22:O:40:GLN:HA	22:O:56:PRO:HA	1.98	0.43
23:P:107:SER:C	23:P:108:LYS:HG3	2.37	0.43
23:P:197:THR:C	23:P:200:SER:HG	2.20	0.43
23:P:325:ASP:O	23:P:337:HIS:CE1	2.71	0.43
23:P:410:GLN:HB3	23:P:414:GLU:OE1	2.18	0.43
23:P:66:LEU:O	23:P:70:ASN:N	2.33	0.43
24:Q:99:THR:O	24:Q:102:GLU:HB2	2.17	0.43
24:Q:181:GLU:HA	24:Q:184:VAL:HB	1.99	0.43
24:Q:221:MET:HA	24:Q:224:ILE:HD12	2.00	0.43
24:Q:305:ALA:HA	24:Q:308:ASN:ND2	2.33	0.43
24:Q:302:VAL:HG13	24:Q:335:PHE:CE1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:389:VAL:HB	25:R:346:LYS:N	2.32	0.43
24:Q:415:LEU:HD11	29:V:261:LEU:HD12	1.99	0.43
24:Q:58:ILE:O	24:Q:62:GLY:HA3	2.18	0.43
25:R:50:VAL:O	25:R:53:LYS:N	2.51	0.43
26:S:145:PHE:HB2	26:S:147:TRP:CB	2.43	0.43
26:S:42:SER:CB	26:S:147:TRP:CE3	3.01	0.43
21:N:70:TYR:HE2	26:S:219:LYS:HA	1.81	0.43
26:S:271:ARG:O	26:S:274:PHE:HB3	2.18	0.43
26:S:379:LEU:O	26:S:381:VAL:N	2.48	0.43
26:S:401:LYS:HB3	26:S:402:ILE:O	2.18	0.43
26:S:411:LEU:HB3	26:S:415:SER:O	2.18	0.43
27:T:147:LYS:O	27:T:151:TRP:HD1	2.01	0.43
26:S:428:ARG:HD2	27:T:192:ASN:HD21	1.83	0.43
27:T:25:LYS:O	27:T:28:PRO:HD2	2.17	0.43
28:U:30:ASN:ND2	28:U:31:LYS:NZ	2.65	0.43
29:V:29:ILE:H	29:V:203:TYR:CA	2.16	0.43
29:V:52:LEU:HD22	29:V:69:PHE:CE2	2.53	0.43
32:Y:84:TYR:O	32:Y:87:GLU:HB2	2.18	0.43
33:Z:246:CYS:SG	33:Z:272:TYR:OH	2.62	0.43
33:Z:413:ASP:OD1	33:Z:446:GLU:HG2	2.17	0.43
33:Z:445:PRO:CB	33:Z:485:ILE:HG13	2.47	0.43
33:Z:506:LEU:HD12	33:Z:510:LEU:HB2	2.01	0.43
33:Z:804:ASP:HB3	33:Z:807:VAL:CG2	2.48	0.43
33:Z:804:ASP:OD1	33:Z:805:LEU:N	2.50	0.43
33:Z:366:LYS:HD3	33:Z:859:LYS:HG3	2.00	0.43
33:Z:886:VAL:HG12	33:Z:896:LYS:HZ1	1.81	0.43
1:1:192:LYS:HB3	1:1:192:LYS:HE3	1.81	0.43
1:1:225:ILE:HD13	1:1:232:ARG:HE	1.83	0.43
3:3:139:HIS:CE1	2:9:94:GLN:NE2	2.86	0.43
5:5:102:PRO:HB2	5:5:126:LEU:HD13	2.00	0.43
5:5:52:GLY:N	5:5:108:VAL:O	2.47	0.43
5:5:164:PHE:HB2	5:5:189:ILE:CD1	2.48	0.43
5:5:63:LEU:HD21	5:5:103:TYR:CZ	2.54	0.43
5:5:74:TYR:O	5:5:78:GLU:HG2	2.18	0.43
5:5:85:GLU:HG3	5:5:120:PHE:CE1	2.53	0.43
7:7:94:ARG:O	7:7:108:LYS:HE3	2.18	0.43
1:8:179:TYR:HA	1:8:189:LYS:N	2.33	0.43
1:8:213:ARG:HD3	1:8:213:ARG:HA	1.81	0.43
2:9:107:ASN:HB2	2:9:120:LEU:HD21	2.00	0.43
8:A:54:ILE:CD1	8:A:225:VAL:HG13	2.48	0.43
8:A:46:ARG:HG3	8:A:154:ILE:CD1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:86:VAL:HA	9:B:89:SER:HB2	1.99	0.43
10:C:40:ALA:HB1	10:C:184:MET:O	2.18	0.43
10:C:98:TYR:CE1	10:C:106:ILE:HA	2.53	0.43
1:8:110:ARG:HD2	12:E:101:LEU:O	2.18	0.43
12:E:21:LEU:HA	12:E:21:LEU:HD23	1.78	0.43
13:F:93:ASN:O	13:F:97:LEU:HG	2.18	0.43
13:F:121:GLN:NE2	14:G:123:HIS:CD2	2.86	0.43
13:F:117:GLN:HG2	14:G:87:HIS:CB	2.47	0.43
15:H:344:ASP:O	15:H:346:ARG:HG3	2.18	0.43
15:H:403:ARG:O	15:H:406:LEU:HB2	2.18	0.43
15:H:72:SER:O	15:H:77:ALA:HB3	2.18	0.43
16:I:353:PRO:O	16:I:358:LYS:HB2	2.18	0.43
17:J:161:LYS:HA	17:J:165:GLU:HB2	2.00	0.43
17:J:27:ILE:HD13	18:K:52:LYS:HE2	2.00	0.43
17:J:345:LYS:HA	17:J:348:GLU:OE1	2.18	0.43
18:K:122:ILE:CA	18:K:146:LEU:HB3	2.35	0.43
18:K:158:ILE:HD12	18:K:249:GLU:CG	2.48	0.43
18:K:69:LYS:O	18:K:72:GLN:HB3	2.19	0.43
18:K:71:GLU:O	18:K:74:HIS:HB3	2.18	0.43
19:L:107:GLU:HA	19:L:144:VAL:O	2.18	0.43
19:L:145:ARG:CG	19:L:159:LEU:HB2	2.45	0.43
20:M:187:ASP:HA	20:M:190:ILE:HD12	2.00	0.43
20:M:260:ALA:H	20:M:304:THR:HG22	1.83	0.43
20:M:334:ASP:H	20:M:337:LEU:HB2	1.82	0.43
20:M:337:LEU:O	20:M:338:LEU:HD23	2.18	0.43
21:N:17:GLN:O	21:N:20:VAL:N	2.51	0.43
21:N:346:ASN:O	21:N:349:ILE:N	2.52	0.43
21:N:34:GLN:HG2	21:N:35:LEU:HD23	2.00	0.43
21:N:398:ARG:HA	21:N:401:LYS:HB3	1.99	0.43
21:N:501:MET:O	21:N:505:SER:OG	2.29	0.43
21:N:533:ASP:HA	21:N:536:ILE:HD12	1.99	0.43
21:N:586:ALA:HA	21:N:589:ILE:HD12	2.01	0.43
21:N:869:ASP:OD2	21:N:882:ILE:HG21	2.18	0.43
22:O:134:ALA:HB1	22:O:174:THR:OG1	2.18	0.43
22:O:246:SER:O	22:O:249:ASP:HB2	2.19	0.43
22:O:280:LEU:HA	22:O:283:HIS:CG	2.53	0.43
23:P:248:ASP:O	23:P:252:SER:N	2.51	0.43
23:P:297:GLU:O	23:P:300:VAL:HB	2.18	0.43
23:P:307:GLU:O	23:P:308:LEU:HB3	2.17	0.43
23:P:47:ARG:HA	23:P:85:LYS:CE	2.48	0.43
24:Q:130:ARG:HG2	24:Q:132:PHE:H	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:118:CYS:SG	24:Q:144:LEU:HD11	2.58	0.43
24:Q:325:LEU:HD12	24:Q:331:THR:HG21	1.99	0.43
24:Q:394:ASN:O	24:Q:396:TRP:NE1	2.51	0.43
25:R:113:LEU:HD23	25:R:140:TYR:HE2	1.82	0.43
25:R:345:TYR:HB3	25:R:347:THR:C	2.39	0.43
26:S:155:LEU:HD23	26:S:158:PHE:CD2	2.53	0.43
26:S:159:ASN:ND2	26:S:187:ILE:HD13	2.34	0.43
26:S:247:VAL:O	26:S:249:SER:N	2.51	0.43
26:S:410:LYS:CD	26:S:413:LEU:HD23	2.46	0.43
27:T:189:ILE:HA	27:T:192:ASN:HB2	1.99	0.43
28:U:27:THR:HA	28:U:31:LYS:CE	2.42	0.43
28:U:37:ILE:HG23	28:U:93:TYR:N	2.33	0.43
28:U:94:HIS:ND1	28:U:96:GLY:N	2.66	0.43
29:V:247:ILE:HA	29:V:250:GLN:OE1	2.17	0.43
29:V:254:ARG:NH1	29:V:291:ASN:ND2	2.67	0.43
31:X:47:ASP:HA	31:X:66:LEU:O	2.18	0.43
33:Z:116:ALA:HB1	33:Z:137:TYR:O	2.17	0.43
33:Z:352:LYS:HB3	33:Z:466:GLU:CD	2.39	0.43
33:Z:376:SER:O	33:Z:380:ASN:N	2.26	0.43
33:Z:770:GLU:HG2	33:Z:893:PHE:HE2	1.83	0.43
33:Z:914:LEU:HD11	33:Z:916:LEU:HD21	1.99	0.43
33:Z:985:LYS:CG	33:Z:990:ARG:HA	2.47	0.43
2:2:107:ASN:HB2	2:2:120:LEU:HD21	2.00	0.43
2:2:107:ASN:ND2	2:2:120:LEU:HG	2.34	0.43
2:2:92:ASP:O	2:2:96:ILE:HG13	2.18	0.43
3:3:109:LYS:HG3	3:3:110:ASP:N	2.33	0.43
3:3:172:ASP:O	3:3:176:HIS:N	2.29	0.43
5:5:118:LYS:HE3	5:5:118:LYS:HB3	1.89	0.43
6:6:143:LEU:HD12	6:6:164:CYS:HA	2.01	0.43
7:7:158:LEU:O	7:7:161:LEU:HB3	2.18	0.43
1:8:197:GLU:O	1:8:201:LYS:HG3	2.18	0.43
2:9:129:LEU:O	2:9:132:VAL:N	2.50	0.43
2:9:37:PRO:O	2:9:38:ILE:HD13	2.19	0.43
2:9:92:ASP:O	2:9:96:ILE:HG13	2.18	0.43
8:A:129:THR:HG22	9:B:128:ARG:HE	1.82	0.43
8:A:81:MET:HG2	8:A:82:VAL:N	2.33	0.43
9:B:12:PHE:CE2	10:C:129:ARG:HB2	2.62	0.43
9:B:205:ASN:N	9:B:208:THR:OG1	2.46	0.43
10:C:231:LYS:HB2	10:C:234:GLU:HG3	2.00	0.43
11:D:44:LEU:HD11	11:D:136:ALA:HB3	2.01	0.43
1:8:111:ASN:N	12:E:102:TYR:O	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:192:THR:O	12:E:195:GLU:HB2	2.18	0.43
12:E:51:GLU:CD	12:E:53:ARG:HB2	2.39	0.43
13:F:169:LYS:O	13:F:173:GLU:N	2.43	0.43
14:G:187:LEU:HD12	14:G:187:LEU:HA	1.80	0.43
14:G:37:SER:HB3	14:G:50:VAL:HG23	2.00	0.43
14:G:40:ILE:O	14:G:47:VAL:N	2.44	0.43
15:H:390:ARG:HG2	15:H:394:LYS:CE	2.41	0.43
15:H:445:LYS:O	15:H:448:ASP:HB2	2.18	0.43
16:I:292:TYR:CD2	16:I:293:ASP:HB2	2.53	0.43
16:I:221:LEU:HD23	16:I:348:ILE:HB	2.00	0.43
18:K:121:ARG:HD3	18:K:121:ARG:HA	1.57	0.43
18:K:299:LEU:HA	18:K:302:GLN:HB2	1.99	0.43
18:K:365:GLU:CG	18:K:404:GLN:HB3	2.42	0.43
10:C:113:ARG:CZ	18:K:71:GLU:OE2	220.51	0.43
18:K:85:GLU:O	18:K:88:ARG:N	2.51	0.43
19:L:183:ILE:HD12	19:L:231:LEU:HG	2.01	0.43
19:L:387:ASN:H	19:L:390:ASP:HB2	1.84	0.43
19:L:82:ARG:HG2	19:L:85:GLU:OE1	2.18	0.43
20:M:118:VAL:HG22	20:M:128:PHE:CA	2.48	0.43
20:M:127:VAL:HG11	20:M:153:TYR:CD2	2.52	0.43
20:M:178:GLU:HG3	20:M:233:ARG:HB3	2.00	0.43
20:M:223:PRO:HA	20:M:328:ASN:OD1	2.18	0.43
21:N:28:ILE:O	21:N:32:VAL:N	2.51	0.43
21:N:542:SER:HB2	21:N:547:LEU:HD12	2.00	0.43
21:N:874:ILE:CG2	21:N:875:LEU:H	2.24	0.43
22:O:107:GLN:HE21	22:O:112:LYS:CD	2.31	0.43
22:O:30:GLU:HG2	22:O:34:GLU:O	2.18	0.43
22:O:306:ARG:O	22:O:350:ILE:HD12	2.18	0.43
23:P:329:PHE:CE2	23:P:337:HIS:HD2	2.36	0.43
23:P:354:SER:HA	23:P:402:PHE:CZ	2.53	0.43
24:Q:178:HIS:CD2	24:Q:197:SER:HA	2.52	0.43
24:Q:420:ASN:HD22	25:R:413:LYS:HD2	1.84	0.43
25:R:280:ILE:O	25:R:282:THR:N	2.52	0.43
25:R:288:SER:CB	25:R:292:LEU:HD12	2.49	0.43
25:R:66:LEU:HD12	25:R:69:GLU:HB3	2.01	0.43
25:R:67:CYS:HB2	25:R:94:PHE:CZ	2.53	0.43
25:R:60:ALA:HB1	25:R:99:TYR:CE2	2.53	0.43
26:S:137:PHE:O	26:S:140:LEU:HB3	2.17	0.43
26:S:159:ASN:HB2	26:S:188:TYR:OH	2.18	0.43
26:S:159:ASN:HD21	26:S:187:ILE:HD13	1.82	0.43
26:S:316:LEU:O	26:S:319:CYS:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:390:THR:CG2	26:S:394:ILE:HD11	2.48	0.43
25:R:384:VAL:HG21	26:S:403:SER:CB	2.48	0.43
26:S:48:LEU:C	26:S:51:ARG:H	2.21	0.43
26:S:58:LYS:O	26:S:61:SER:N	2.51	0.43
27:T:134:LYS:O	27:T:138:ASP:OD2	2.36	0.43
27:T:201:PRO:HD2	27:T:204:ASN:HD22	1.83	0.43
27:T:220:PHE:O	27:T:224:ARG:HG2	2.17	0.43
27:T:59:LYS:HD2	27:T:88:TYR:HB3	2.00	0.43
28:U:12:PRO:O	28:U:15:LEU:N	2.51	0.43
28:U:30:ASN:CG	28:U:31:LYS:HG3	2.38	0.43
28:U:32:ARG:O	28:U:34:VAL:HG23	2.17	0.43
29:V:162:GLY:CA	29:V:165:ILE:HD12	2.49	0.43
29:V:29:ILE:N	29:V:203:TYR:HA	2.16	0.43
29:V:260:GLU:O	29:V:263:GLU:HB2	2.18	0.43
31:X:92:SER:OG	31:X:94:ASN:HB2	2.19	0.43
33:Z:196:SER:OG	33:Z:201:LEU:HD11	2.18	0.43
33:Z:223:LEU:O	33:Z:227:ILE:HG12	2.17	0.43
33:Z:303:ASP:HB3	33:Z:306:MET:CB	2.46	0.43
33:Z:471:LEU:CG	33:Z:496:ALA:HA	2.49	0.43
33:Z:478:VAL:HA	33:Z:489:ALA:CB	2.48	0.43
33:Z:793:PHE:HE2	33:Z:827:LEU:HA	1.82	0.43
33:Z:902:TYR:HB3	33:Z:905:ASN:ND2	2.33	0.43
1:1:197:GLU:O	1:1:201:LYS:HG3	2.18	0.43
2:2:133:MET:CE	2:2:165:LEU:HA	2.49	0.43
2:2:253:ASP:O	2:2:256:LYS:HG2	2.18	0.43
2:2:37:PRO:O	2:2:38:ILE:HD13	2.19	0.43
3:3:211:GLU:HG2	3:3:212:TYR:N	2.32	0.43
3:3:59:LYS:HD3	3:3:121:TYR:CD2	2.40	0.43
5:5:98:ARG:HD3	5:5:98:ARG:HA	1.72	0.43
6:6:14:ILE:HD13	6:6:158:LEU:HD21	2.00	0.43
6:6:17:SER:O	6:6:180:ILE:N	2.44	0.43
6:6:80:VAL:O	6:6:84:VAL:N	2.39	0.43
2:9:89:ASP:OD1	2:9:90:ILE:N	2.50	0.43
8:A:105:ARG:O	8:A:109:GLY:N	2.49	0.43
8:A:12:TYR:O	8:A:15:HIS:N	2.52	0.43
9:B:184:GLU:HB3	9:B:187:ASP:CG	2.39	0.43
4:4:68:PRO:HB3	9:B:222:LEU:O	2.18	0.43
9:B:204:PHE:CE2	9:B:247:LEU:HD22	2.54	0.43
11:D:41:CYS:HA	11:D:138:PHE:CZ	2.54	0.43
11:D:56:ASP:OD2	11:D:58:ARG:CZ	2.65	0.43
12:E:148:ASP:OD1	12:E:151:ASP:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:232:ASP:OD1	12:E:235:LYS:HB3	2.18	0.43
13:F:24:TYR:O	13:F:27:GLU:N	2.51	0.43
14:G:123:HIS:CD2	14:G:132:PHE:CZ	3.07	0.43
14:G:121:GLN:O	14:G:125:LEU:HG	2.18	0.43
14:G:44:ASP:OD2	14:G:221:LEU:N	2.52	0.43
15:H:340:LEU:HD23	15:H:370:ARG:NH2	2.33	0.43
15:H:59:ILE:HG13	16:I:99:ILE:HG12	2.00	0.43
16:I:133:LEU:HA	16:I:133:LEU:HD23	1.76	0.43
16:I:149:LEU:HA	16:I:155:SER:O	2.18	0.43
16:I:363:GLY:HA2	16:I:377:LEU:HD21	2.00	0.43
17:J:140:GLU:HG2	17:J:143:PRO:HG3	1.99	0.43
17:J:74:GLU:CG	17:J:110:SER:HA	2.49	0.43
18:K:122:ILE:HA	18:K:146:LEU:CB	2.35	0.43
18:K:209:VAL:HG22	18:K:315:ILE:HG12	2.01	0.43
18:K:237:VAL:HG12	18:K:238:ASN:N	2.33	0.43
18:K:302:GLN:HG2	18:K:306:PHE:HE2	1.83	0.43
18:K:395:VAL:HG13	19:L:203:ASN:ND2	2.34	0.43
20:M:146:VAL:HB	20:M:155:ILE:HG23	2.00	0.43
20:M:26:SER:OG	20:M:27:THR:N	2.51	0.43
21:N:246:LYS:O	21:N:249:ASN:HB2	2.19	0.43
21:N:362:TRP:CZ2	21:N:742:TRP:HH2	2.36	0.43
21:N:596:LEU:HD12	21:N:628:ALA:HA	2.00	0.43
21:N:604:ARG:O	21:N:607:GLN:HB3	2.18	0.43
21:N:651:PHE:HA	21:N:654:GLN:OE1	2.18	0.43
21:N:658:ILE:HD11	21:N:698:GLY:HA2	2.00	0.43
21:N:699:ALA:O	21:N:703:GLN:N	2.36	0.43
21:N:918:GLU:HA	21:N:922:GLN:HG3	1.99	0.43
22:O:130:ASP:OD2	22:O:167:ILE:HA	2.17	0.43
22:O:228:TYR:OH	22:O:283:HIS:HB3	2.18	0.43
22:O:232:GLU:C	22:O:234:LEU:N	2.71	0.43
22:O:240:GLU:HG2	22:O:243:VAL:O	2.17	0.43
22:O:33:TYR:O	22:O:34:GLU:HG3	2.19	0.43
22:O:40:GLN:OE1	22:O:40:GLN:N	2.44	0.43
22:O:48:PHE:HZ	22:O:73:ILE:HG21	1.83	0.43
22:O:73:ILE:HG23	30:W:17:ARG:HH21	1.82	0.43
23:P:143:LEU:CG	23:P:147:LYS:HE3	2.47	0.43
23:P:220:TYR:HE2	23:P:224:LEU:HD22	1.84	0.43
23:P:409:SER:HA	28:U:268:LYS:HZ2	1.80	0.43
23:P:66:LEU:HB3	23:P:70:ASN:HD21	1.82	0.43
23:P:60:ALA:HA	23:P:96:MET:HG3	2.01	0.43
24:Q:157:LEU:O	24:Q:161:LEU:HG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:344:GLU:HG3	24:Q:376:LYS:HE2	2.01	0.43
24:Q:74:LEU:HD12	24:Q:77:PHE:HB3	1.99	0.43
25:R:140:TYR:O	25:R:144:ILE:HG13	2.19	0.43
25:R:154:LEU:HD22	25:R:173:THR:HB	1.98	0.43
25:R:222:ARG:C	25:R:224:PHE:N	2.72	0.43
25:R:241:ILE:O	25:R:244:THR:N	2.44	0.43
25:R:50:VAL:O	25:R:54:ILE:HG12	2.19	0.43
26:S:230:LYS:O	26:S:233:LEU:HB2	2.17	0.43
26:S:291:GLU:HA	26:S:294:ILE:HD12	1.99	0.43
26:S:354:LEU:HD13	26:S:356:ASP:OD2	2.19	0.43
26:S:351:ALA:HB1	26:S:360:PHE:HA	1.99	0.43
27:T:142:LEU:O	27:T:145:PRO:HD2	2.17	0.43
22:O:363:ILE:HG12	28:U:207:VAL:HG11	2.01	0.43
28:U:21:HIS:HD2	29:V:100:ARG:NH2	2.16	0.43
29:V:124:ASN:HA	29:V:127:LYS:HE2	2.00	0.43
31:X:103:GLU:HB3	31:X:105:ASN:ND2	2.33	0.43
33:Z:347:ASN:HB3	33:Z:353:VAL:HG23	2.00	0.43
33:Z:439:TYR:HA	33:Z:442:VAL:HG23	2.01	0.43
33:Z:823:ASN:HA	33:Z:831:LEU:CD1	2.49	0.43
33:Z:848:THR:HA	33:Z:851:ALA:HB3	2.00	0.43
1:1:197:GLU:CD	1:1:197:GLU:H	2.21	0.43
2:2:113:LEU:HB2	2:2:118:GLU:HB2	2.01	0.43
2:2:160:LEU:HG	2:2:175:LEU:HD12	2.01	0.43
2:2:197:ASP:N	2:2:197:ASP:OD1	2.50	0.43
3:3:78:VAL:HG22	3:3:100:VAL:HG12	1.99	0.43
3:3:185:ASP:OD2	3:3:188:SER:OG	2.32	0.43
3:3:38:ARG:HD2	3:3:187:SER:O	2.19	0.43
3:3:71:THR:HA	3:3:74:ILE:HB	2.01	0.43
4:4:70:ILE:C	4:4:71:TRP:CD1	2.92	0.43
1:1:176:LYS:HB2	5:5:173:ASN:OD1	2.18	0.43
5:5:186:VAL:HA	5:5:198:ARG:O	2.19	0.43
5:5:188:TYR:HB3	5:5:195:VAL:HG11	2.00	0.43
6:6:4:ILE:CG1	6:6:47:ALA:HB2	2.48	0.43
7:7:102:ALA:O	1:8:156:ARG:NH1	2.51	0.43
1:8:75:GLY:HA3	1:8:126:VAL:HG12	2.01	0.43
1:8:180:GLU:N	1:8:187:VAL:O	2.41	0.43
1:8:31:ILE:CG2	1:8:61:LYS:HD2	2.49	0.43
2:9:111:ASN:HB3	2:9:114:ALA:HB2	2.00	0.43
2:9:160:LEU:HG	2:9:175:LEU:HD12	2.01	0.43
2:9:234:ASP:N	2:9:238:GLY:O	2.45	0.43
8:A:131:ARG:CZ	8:A:133:TYR:HE1	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:75:ILE:N	8:A:79:ILE:O	2.51	0.43
9:B:186:GLU:O	9:B:190:HIS:N	2.37	0.43
11:D:138:PHE:HB3	11:D:142:ASP:O	2.19	0.43
11:D:96:HIS:O	11:D:100:LEU:N	2.47	0.43
12:E:220:SER:CB	12:E:230:ILE:HA	2.48	0.43
12:E:243:LEU:H	12:E:243:LEU:CD2	2.06	0.43
12:E:24:VAL:O	12:E:28:LEU:HD13	2.19	0.43
13:F:11:VAL:CA	14:G:130:ARG:HB2	2.91	0.43
15:H:167:ASP:HA	15:H:186:PRO:HB3	2.01	0.43
15:H:275:ILE:HB	15:H:278:GLU:CG	2.48	0.43
15:H:305:ILE:HG12	15:H:350:LYS:HB2	2.00	0.43
15:H:341:ASP:O	15:H:346:ARG:NH1	2.49	0.43
15:H:228:PRO:CG	15:H:350:LYS:NZ	2.82	0.43
16:I:112:ILE:HB	16:I:143:PRO:HG3	2.01	0.43
16:I:188:GLU:HA	16:I:191:ILE:HD12	2.01	0.43
17:J:99:ALA:O	17:J:102:ILE:HG12	2.18	0.43
17:J:168:VAL:HG22	17:J:287:ASN:HB3	2.01	0.43
17:J:228:ARG:NH1	17:J:232:GLU:OE2	2.47	0.43
17:J:99:ALA:N	17:J:122:LEU:HB2	2.34	0.43
18:K:191:PRO:O	18:K:310:THR:OG1	2.35	0.43
18:K:212:TYR:O	18:K:339:GLU:HA	2.18	0.43
18:K:393:ARG:O	18:K:397:LYS:N	2.49	0.43
18:K:75:LEU:HA	18:K:75:LEU:HD23	1.80	0.43
19:L:297:ALA:O	19:L:301:ILE:HG12	2.18	0.43
19:L:300:GLU:HG2	19:L:303:ARG:HH12	1.83	0.43
19:L:221:TYR:CG	19:L:330:PRO:HD3	2.54	0.43
20:M:152:SER:OG	20:M:154:LEU:HB2	2.19	0.43
21:N:160:GLY:O	21:N:162:ARG:HG3	2.19	0.43
21:N:307:LYS:HD2	21:N:309:ILE:HD11	1.99	0.43
21:N:360:GLN:HE21	21:N:362:TRP:HB2	1.84	0.43
21:N:463:TYR:O	21:N:467:LYS:N	2.51	0.43
21:N:299:TYR:CD1	21:N:755:PRO:HB3	2.49	0.43
22:O:11:LEU:O	22:O:16:MET:HB3	2.18	0.43
22:O:196:LEU:HD23	22:O:233:LEU:HD21	2.01	0.43
22:O:254:LEU:HD21	22:O:266:PHE:CE1	2.54	0.43
22:O:325:GLU:HB3	23:P:364:ARG:NH2	2.28	0.43
22:O:83:LEU:HD13	22:O:128:LEU:CD1	2.49	0.43
23:P:22:SER:O	23:P:69:ARG:NH2	2.51	0.43
23:P:67:ALA:CA	23:P:75:LEU:HD22	2.49	0.43
24:Q:12:ARG:HB2	24:Q:12:ARG:CZ	2.48	0.43
24:Q:257:LYS:O	24:Q:261:VAL:HG23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:27:TYR:CD1	24:Q:57:SER:HB2	2.53	0.43
24:Q:335:PHE:CD1	24:Q:338:LEU:HD23	2.44	0.43
24:Q:347:LEU:O	24:Q:350:ILE:N	2.52	0.43
24:Q:50:ARG:O	24:Q:54:GLN:HG3	2.18	0.43
24:Q:84:TYR:O	24:Q:87:GLN:HB2	2.18	0.43
25:R:353:MET:HA	25:R:357:PHE:CZ	2.54	0.43
25:R:408:ASP:HB2	26:S:464:ARG:NH1	2.34	0.43
25:R:58:GLU:HB3	25:R:105:LYS:CD	2.45	0.43
25:R:78:ASP:CA	25:R:93:LYS:HA	2.30	0.43
26:S:7:MET:O	26:S:10:VAL:HB	2.18	0.43
26:S:197:SER:O	26:S:200:GLU:O	2.37	0.43
26:S:17:ASP:OD1	26:S:20:HIS:HD2	2.00	0.43
26:S:241:PHE:HA	26:S:245:GLY:N	2.34	0.43
26:S:338:MET:HG3	26:S:344:PRO:CD	2.48	0.43
27:T:174:PHE:CZ	27:T:177:PHE:HB2	2.54	0.43
27:T:50:ILE:O	27:T:55:LEU:N	2.51	0.43
28:U:140:ILE:O	28:U:152:LYS:HG3	2.18	0.43
28:U:104:LEU:CD1	28:U:152:LYS:HZ1	2.32	0.43
28:U:19:LEU:O	28:U:23:GLU:N	2.28	0.43
23:P:421:GLU:HG2	28:U:235:LEU:HB3	2.00	0.43
28:U:274:MET:O	28:U:277:TYR:N	2.50	0.43
28:U:75:ASN:O	28:U:78:GLU:HB2	2.19	0.43
30:W:12:ASN:HA	30:W:16:SER:CB	2.49	0.43
33:Z:103:TYR:OH	33:Z:137:TYR:HA	2.18	0.43
33:Z:449:ALA:HB2	33:Z:484:LYS:O	2.19	0.43
33:Z:536:GLY:HA2	33:Z:575:MET:HB2	1.99	0.43
1:1:213:ARG:HD3	1:1:213:ARG:HA	1.81	0.43
2:2:73:GLU:OE2	2:2:75:LEU:CB	2.64	0.43
4:4:143:HIS:O	4:4:145:HIS:N	2.52	0.43
4:4:212:ASP:HB3	9:B:224:TYR:CA	2.48	0.43
5:5:4:PRO:HG2	5:5:104:PHE:CE1	2.54	0.43
5:5:164:PHE:HA	5:5:167:ILE:HG22	1.99	0.43
6:6:130:TYR:CD1	6:6:144:LEU:HD13	2.54	0.43
6:6:179:VAL:O	6:6:196:GLN:NE2	2.52	0.43
1:8:75:GLY:CA	1:8:126:VAL:HG12	2.48	0.43
1:8:46:THR:HG22	1:8:59:GLU:N	2.34	0.43
2:9:113:LEU:HB2	2:9:118:GLU:HB2	2.01	0.43
8:A:20:SER:H	8:A:24:ARG:H	1.67	0.43
9:B:179:TRP:HB2	10:C:56:LEU:HD21	2.01	0.43
11:D:37:LYS:HB2	11:D:145:PRO:CB	2.48	0.43
11:D:73:LEU:HD21	11:D:133:THR:HB	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D:8:LEU:HD12	11:D:126:VAL:C	2.38	0.43
13:F:172:LEU:HA	13:F:172:LEU:HD23	1.72	0.43
13:F:228:GLU:HA	13:F:231:ALA:HB2	2.01	0.43
14:G:78:TYR:HA	14:G:136:THR:HA	2.00	0.43
18:K:140:HIS:HB2	18:K:144:ASN:N	2.34	0.43
18:K:74:HIS:CD2	21:N:576:VAL:HG12	2.54	0.43
19:L:117:TYR:HB2	19:L:129:VAL:CG2	2.49	0.43
19:L:364:HIS:HB2	19:L:391:ILE:CG2	2.49	0.43
20:M:200:PRO:O	20:M:319:ASP:OD2	2.36	0.43
20:M:276:THR:HG22	20:M:321:VAL:HA	1.99	0.43
21:N:142:GLU:HA	21:N:145:LEU:HD12	2.01	0.43
21:N:24:ALA:O	21:N:28:ILE:N	2.38	0.43
21:N:318:LYS:HD2	21:N:348:PHE:CG	2.53	0.43
21:N:33:ASP:C	26:S:215:MET:HG2	2.39	0.43
21:N:69:TYR:CB	21:N:74:GLU:HB2	2.48	0.43
21:N:80:LYS:HA	21:N:83:LEU:HD12	2.00	0.43
22:O:153:LEU:O	22:O:156:THR:HB	2.19	0.43
22:O:169:ASN:CA	22:O:195:TYR:HE1	2.30	0.43
22:O:189:TYR:CE1	22:O:221:ALA:HB2	2.54	0.43
22:O:57:LEU:C	22:O:59:LEU:N	2.69	0.43
22:O:72:LYS:HG3	22:O:73:ILE:N	2.24	0.43
22:O:4:ASN:O	22:O:7:ILE:N	2.52	0.43
22:O:82:LEU:HA	22:O:86:LEU:HB2	2.00	0.43
23:P:265:VAL:HA	23:P:268:LEU:HD12	2.00	0.43
23:P:91:LEU:HB3	23:P:95:TYR:CZ	2.54	0.43
24:Q:117:VAL:HG22	24:Q:120:LYS:HZ2	1.84	0.43
24:Q:149:LYS:HG2	24:Q:151:TYR:OH	2.18	0.43
25:R:117:ILE:HA	25:R:120:LEU:HB2	1.99	0.43
25:R:171:MET:SD	25:R:206:ARG:HB3	2.59	0.43
25:R:220:ALA:HB2	25:R:321:TYR:CZ	2.54	0.43
25:R:393:PRO:HB2	25:R:397:ASN:HA	1.99	0.43
25:R:97:GLU:O	25:R:101:GLU:N	2.42	0.43
26:S:139:HIS:O	26:S:143:GLN:N	2.42	0.43
26:S:144:LEU:O	26:S:146:LEU:N	2.51	0.43
26:S:386:ASN:N	26:S:389:LYS:NZ	2.66	0.43
26:S:410:LYS:NZ	26:S:413:LEU:CD2	2.82	0.43
26:S:427:ILE:HD13	27:T:196:SER:HA	2.01	0.43
27:T:249:MET:HG3	27:T:256:LYS:HZ2	1.84	0.43
28:U:7:LYS:HB2	28:U:158:PRO:O	2.19	0.43
28:U:30:ASN:OD1	28:U:31:LYS:NZ	2.29	0.43
28:U:62:ASN:HB3	28:U:65:VAL:HB	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:150:ILE:HD13	29:V:45:VAL:HG12	2.01	0.43
30:W:101:ARG:CG	30:W:104:LYS:HG2	2.48	0.43
31:X:85:ARG:HD3	31:X:117:LYS:HB3	2.00	0.43
33:Z:181:GLY:HA2	33:Z:263:ALA:CA	2.48	0.43
33:Z:767:TYR:O	33:Z:773:ARG:NE	2.51	0.43
33:Z:834:LEU:HD22	33:Z:851:ALA:HB1	2.01	0.43
33:Z:354:PRO:HG3	33:Z:922:PRO:CG	2.48	0.43
1:1:75:GLY:CA	1:1:126:VAL:HG12	2.48	0.43
1:1:171:ASN:HB2	5:5:173:ASN:CG	2.39	0.43
1:1:57:ARG:HH22	4:4:193:TRP:C	2.22	0.43
1:1:87:PHE:O	1:1:90:SER:HB3	2.19	0.43
3:3:121:TYR:CE2	3:3:123:ASP:HA	2.54	0.43
3:3:64:ARG:HD2	3:3:71:THR:HB	2.00	0.43
3:3:77:ILE:O	3:3:80:TYR:HB3	2.19	0.43
4:4:127:LEU:HB2	4:4:142:ILE:HB	2.00	0.43
4:4:47:THR:HG22	4:4:203:ASP:OD2	2.19	0.43
5:5:187:VAL:O	5:5:197:LYS:HA	2.18	0.43
7:7:95:ALA:O	7:7:102:ALA:N	2.51	0.43
1:8:27:ASN:O	1:8:49:ILE:CG1	2.56	0.43
1:8:27:ASN:OD1	1:8:77:ALA:N	2.51	0.43
2:9:48:LYS:NZ	2:9:158:GLN:O	2.39	0.43
2:9:262:GLY:O	2:9:264:GLN:N	2.51	0.43
8:A:220:LYS:HD2	8:A:238:ALA:HB1	2.00	0.43
9:B:11:THR:HB	10:C:21:GLN:NE2	2.34	0.43
8:A:166:TYR:CD2	9:B:56:ALA:HA	2.54	0.43
10:C:165:VAL:HA	10:C:169:THR:HG22	2.01	0.43
10:C:184:MET:HE1	10:C:192:LEU:HD13	1.99	0.43
11:D:144:GLU:CD	11:D:146:LYS:HZ3	2.26	0.43
11:D:162:GLN:NE2	11:D:163:THR:N	2.67	0.43
11:D:6:ARG:HA	12:E:125:GLU:OE2	2.18	0.43
12:E:192:THR:H	12:E:195:GLU:CD	2.15	0.43
12:E:91:HIS:NE2	12:E:119:LEU:HD21	2.34	0.43
9:B:4:ARG:HD3	13:F:123:TYR:CD2	2.54	0.43
13:F:168:ALA:CA	13:F:199:GLN:HB2	2.49	0.43
13:F:7:ASP:HB2	13:F:20:PHE:HB2	2.01	0.43
14:G:109:ILE:HG12	14:G:142:ASP:CB	2.49	0.43
14:G:11:SER:HB2	14:G:14:VAL:HG23	2.00	0.43
14:G:151:LEU:HD12	14:G:156:SER:C	2.39	0.43
15:H:145:TYR:C	15:H:168:ILE:HG22	2.38	0.43
15:H:184:GLU:H	15:H:184:GLU:CD	2.21	0.43
15:H:273:ARG:HA	15:H:307:PHE:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:322:GLY:HA2	20:M:253:GLN:CD	2.39	0.43
15:H:381:ASP:O	15:H:385:ARG:HG3	2.19	0.43
15:H:55:ASP:HA	16:I:99:ILE:CD1	2.48	0.43
16:I:115:ASP:C	16:I:117:HIS:H	2.22	0.43
17:J:184:GLY:HA3	17:J:309:ARG:O	2.19	0.43
17:J:327:ILE:HG22	17:J:331:HIS:CD2	2.53	0.43
19:L:252:VAL:HB	19:L:286:ILE:HG22	2.00	0.43
19:L:72:ASP:CA	19:L:75:LYS:NZ	2.81	0.43
15:H:223:GLU:OE2	20:M:403:LEU:HB3	2.17	0.43
21:N:302:PHE:CD1	21:N:306:ASN:ND2	2.87	0.43
21:N:526:TYR:C	21:N:528:ARG:H	2.21	0.43
21:N:324:LYS:HE2	21:N:693:GLY:H	1.82	0.43
21:N:762:ARG:O	21:N:904:VAL:HG13	2.17	0.43
22:O:228:TYR:C	22:O:230:PHE:HD2	2.22	0.43
22:O:383:LYS:HB2	22:O:383:LYS:HE2	1.64	0.43
22:O:40:GLN:HG3	22:O:58:ARG:CD	2.48	0.43
22:O:69:PHE:HB3	22:O:106:PHE:HZ	1.84	0.43
22:O:95:SER:HB3	22:O:135:ARG:NH1	2.33	0.43
23:P:205:LYS:O	23:P:209:LYS:HG3	2.19	0.43
23:P:259:PRO:O	23:P:263:HIS:N	2.45	0.43
23:P:283:LYS:HG2	23:P:286:ASN:HD22	1.83	0.43
23:P:55:SER:OG	23:P:57:GLU:HB3	2.18	0.43
24:Q:98:LYS:HZ2	24:Q:140:LYS:NZ	2.16	0.43
24:Q:171:LYS:O	24:Q:174:LEU:HB3	2.18	0.43
24:Q:178:HIS:CD2	24:Q:200:ALA:HB3	2.54	0.43
24:Q:275:ILE:HD12	24:Q:307:ASN:OD1	2.19	0.43
24:Q:310:SER:O	24:Q:314:PHE:HD2	2.02	0.43
24:Q:370:THR:O	24:Q:373:VAL:HB	2.19	0.43
24:Q:8:LEU:HB3	24:Q:50:ARG:HH12	1.80	0.43
24:Q:27:TYR:HB3	24:Q:61:LEU:HD22	2.01	0.43
25:R:23:ASN:O	25:R:26:VAL:HB	2.19	0.43
25:R:28:GLU:O	25:R:31:PHE:N	2.51	0.43
25:R:259:PHE:HE1	25:R:332:GLU:HB2	1.81	0.43
26:S:170:TYR:HE1	26:S:174:ARG:HH11	1.66	0.43
26:S:385:SER:O	26:S:389:LYS:N	2.32	0.43
25:R:369:GLY:HA3	26:S:395:ILE:HB	1.93	0.43
27:T:197:TYR:O	27:T:235:PHE:CD1	2.72	0.43
27:T:202:LEU:N	27:T:232:LYS:HA	2.34	0.43
27:T:56:MET:O	27:T:59:LYS:HB3	2.19	0.43
28:U:132:LEU:HA	29:V:215:ASN:HD21	1.84	0.43
28:U:15:LEU:HB3	29:V:212:MET:HE1	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:145:GLN:O	29:V:148:LYS:HG2	2.19	0.43
29:V:136:ALA:N	29:V:157:ARG:HD3	2.22	0.43
29:V:231:GLU:O	29:V:234:GLU:N	2.52	0.43
28:U:16:LEU:CB	29:V:32:ILE:HG12	2.41	0.43
30:W:37:PHE:CZ	30:W:67:ALA:C	2.92	0.43
31:X:15:CYS:HB2	31:X:100:TRP:CA	2.48	0.43
33:Z:197:LYS:O	33:Z:201:LEU:HG	2.19	0.43
33:Z:374:LEU:HD21	33:Z:849:ARG:HH22	1.83	0.43
33:Z:396:ASN:O	33:Z:398:LYS:N	2.51	0.43
33:Z:415:MET:O	33:Z:419:VAL:HG23	2.18	0.43
33:Z:392:LEU:HD13	33:Z:424:SER:HB3	2.00	0.43
33:Z:474:LEU:HA	33:Z:477:TYR:HD2	1.83	0.43
33:Z:736:LEU:HA	33:Z:739:ALA:HB3	2.00	0.43
33:Z:794:ASP:CG	33:Z:829:GLN:HB3	2.39	0.43
33:Z:822:THR:OG1	33:Z:826:ARG:NH2	2.51	0.43
1:1:31:ILE:HG23	1:1:74:ASN:HD22	1.84	0.43
1:1:39:PHE:HA	1:1:133:LEU:HD21	2.01	0.43
2:2:198:ILE:N	2:2:199:PRO:HD2	2.34	0.43
2:2:210:ILE:O	2:2:214:MET:HG2	2.19	0.43
2:2:55:ILE:O	2:2:230:LEU:HG	2.18	0.43
2:2:37:PRO:HD3	2:2:144:TRP:CZ2	2.53	0.43
2:2:60:LEU:HD21	2:2:67:LEU:HB3	2.00	0.43
3:3:22:ILE:HG13	3:3:146:ALA:HB3	2.01	0.43
4:4:38:ASN:HD21	4:4:176:THR:HA	1.83	0.43
4:4:186:ASP:N	4:4:186:ASP:OD1	2.51	0.43
5:5:11:ILE:HG22	5:5:141:THR:N	2.34	0.43
5:5:29:LEU:HB2	5:5:40:PHE:CB	2.47	0.43
5:5:45:HIS:HB2	5:5:50:PHE:CD1	2.53	0.43
5:5:88:THR:HG23	5:5:124:PHE:CZ	2.49	0.43
6:6:119:ILE:HA	6:6:124:THR:O	2.19	0.43
2:9:107:ASN:ND2	2:9:120:LEU:HG	2.34	0.43
2:9:133:MET:CE	2:9:165:LEU:HA	2.49	0.43
2:9:74:ARG:HB3	2:9:86:ILE:O	2.19	0.43
8:A:113:PRO:O	8:A:116:VAL:HB	2.19	0.43
8:A:125:SER:O	8:A:128:TYR:N	2.51	0.43
9:B:172:LYS:HA	9:B:175:LEU:HB2	2.01	0.43
9:B:32:VAL:CG1	9:B:63:LYS:HZ1	2.32	0.43
9:B:85:LEU:HD23	9:B:85:LEU:HA	1.83	0.43
11:D:14:ASP:CG	11:D:16:HIS:CD2	2.91	0.43
11:D:175:LEU:HD21	11:D:198:SER:HB3	2.00	0.43
12:E:46:VAL:O	12:E:221:CYS:HA	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:68:VAL:O	12:E:76:CYS:N	2.39	0.43
13:F:33:SER:O	13:F:162:GLY:HA3	2.19	0.43
13:F:26:LEU:O	13:F:29:ILE:HB	2.19	0.43
13:F:65:LYS:NZ	13:F:68:GLU:OE1	2.51	0.43
14:G:53:LEU:HD23	14:G:53:LEU:HA	1.63	0.43
15:H:209:SER:H	15:H:211:VAL:HG23	1.83	0.43
15:H:178:ARG:NH2	15:H:285:GLY:O	2.51	0.43
16:I:384:LYS:NZ	16:I:392:ILE:CG1	2.77	0.43
16:I:403:ALA:HA	16:I:406:GLU:HB2	2.01	0.43
17:J:349:LYS:C	17:J:386:VAL:HG11	2.39	0.43
17:J:44:LEU:HA	17:J:47:GLN:CG	2.48	0.43
18:K:218:GLY:O	18:K:222:LEU:N	2.45	0.43
18:K:224:LYS:O	18:K:228:ASN:N	2.25	0.43
18:K:394:ALA:O	18:K:398:ASN:N	2.52	0.43
19:L:387:ASN:N	19:L:390:ASP:HB2	2.33	0.43
19:L:86:LYS:C	19:L:90:LYS:HZ1	2.22	0.43
21:N:123:PHE:N	21:N:123:PHE:CD1	2.86	0.43
21:N:117:TYR:HB2	21:N:161:TYR:CD2	2.54	0.43
21:N:325:PHE:CD2	29:V:185:ILE:HG12	2.54	0.43
21:N:340:HIS:O	21:N:374:ILE:HA	2.19	0.43
21:N:559:TYR:O	21:N:594:VAL:HA	2.19	0.43
21:N:692:GLU:HB2	21:N:694:LEU:HB2	2.00	0.43
21:N:710:GLY:O	21:N:712:ASN:N	2.52	0.43
21:N:769:PRO:HB3	21:N:914:VAL:O	2.18	0.43
22:O:7:ILE:HA	22:O:11:LEU:H	1.84	0.43
22:O:223:LEU:HA	22:O:223:LEU:HD23	1.88	0.43
22:O:242:ILE:HG13	22:O:243:VAL:H	1.83	0.43
22:O:287:LEU:O	22:O:290:LYS:N	2.52	0.43
22:O:331:ALA:CB	22:O:337:LEU:HB2	2.48	0.43
23:P:311:TRP:HH2	23:P:341:LEU:HB2	1.84	0.43
23:P:42:LEU:CD1	23:P:59:LEU:HB2	2.49	0.43
24:Q:269:LYS:HB2	24:Q:278:VAL:HG22	2.00	0.43
25:R:317:ILE:HA	25:R:323:ASN:OD1	2.18	0.43
26:S:12:SER:OG	26:S:13:SER:N	2.52	0.43
26:S:180:ASN:OD1	26:S:182:LYS:HB3	2.18	0.43
26:S:329:GLU:C	26:S:331:SER:H	2.21	0.43
27:T:265:ASP:O	27:T:268:ILE:HB	2.19	0.43
27:T:34:LEU:O	27:T:38:ASN:N	2.52	0.43
28:U:140:ILE:O	28:U:152:LYS:CG	2.67	0.43
28:U:297:GLN:O	28:U:301:ILE:HG13	2.19	0.43
31:X:27:ILE:HG23	31:X:59:ARG:NH2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:X:10:PHE:HD2	31:X:35:ILE:H	1.63	0.43
31:X:22:ARG:NH1	31:X:98:PHE:CZ	2.87	0.43
33:Z:138:ARG:NH1	33:Z:206:ASP:CG	2.71	0.43
33:Z:506:LEU:HD13	33:Z:542:ILE:HD13	2.01	0.43
33:Z:563:VAL:HG11	33:Z:591:ILE:HG21	2.00	0.43
33:Z:585:LEU:HG	33:Z:603:VAL:HG21	2.00	0.43
33:Z:413:ASP:HB3	33:Z:899:GLN:HB3	2.01	0.43
2:2:136:ARG:HB3	2:2:141:ASN:O	2.18	0.43
3:3:122:ASP:N	3:3:126:LYS:O	2.44	0.43
3:3:31:VAL:N	3:3:197:LEU:O	2.50	0.43
3:3:194:MET:HB2	3:3:205:LEU:HD12	2.00	0.43
4:4:115:HIS:O	4:4:118:LYS:HB3	2.19	0.43
5:5:124:PHE:HE1	5:5:130:ILE:HG23	1.84	0.43
5:5:155:GLU:O	5:5:158:LEU:HG	2.19	0.43
4:4:239:THR:HG21	5:5:164:PHE:CZ	2.53	0.43
5:5:49:VAL:HG22	5:5:84:PRO:HG3	2.01	0.43
6:6:109:LYS:NZ	6:6:186:LYS:CA	2.82	0.43
6:6:2:ASP:HB3	6:6:18:SER:OG	2.19	0.43
7:7:112:ILE:HD12	7:7:116:LEU:HB3	2.01	0.43
1:8:119:LYS:HZ1	1:8:122:PHE:HD2	1.66	0.43
1:8:225:ILE:HD13	1:8:232:ARG:HE	1.83	0.43
1:8:87:PHE:O	1:8:90:SER:HB3	2.19	0.43
3:3:139:HIS:CE1	2:9:94:GLN:HE21	2.36	0.43
9:B:134:LEU:HD23	9:B:134:LEU:HA	1.84	0.43
10:C:110:ILE:HD11	18:K:71:GLU:HG3	217.56	0.43
10:C:208:TYR:CZ	10:C:236:LYS:HD2	2.54	0.43
10:C:39:MET:N	10:C:148:LEU:HD22	2.33	0.43
11:D:18:PHE:HA	11:D:21:GLU:OE1	2.19	0.43
11:D:226:SER:O	11:D:229:ILE:HB	2.19	0.43
11:D:29:ARG:HB2	11:D:29:ARG:CZ	2.49	0.43
12:E:16:SER:HG	12:E:20:ARG:HB2	1.86	0.43
12:E:201:LEU:HD21	12:E:243:LEU:CD2	2.38	0.43
12:E:67:ILE:HG22	12:E:228:PHE:HZ	1.83	0.43
12:E:72:ARG:HH21	12:E:225:GLN:C	2.19	0.43
13:F:123:TYR:CG	13:F:124:GLY:N	2.87	0.43
13:F:221:PRO:O	13:F:223:THR:HG23	2.18	0.43
15:H:226:GLU:HA	15:H:267:THR:CG2	2.48	0.43
15:H:226:GLU:HB2	15:H:263:VAL:HG13	2.01	0.43
15:H:217:GLN:HG3	15:H:375:VAL:HG11	2.00	0.43
16:I:117:HIS:ND1	16:I:131:SER:OG	2.47	0.43
17:J:170:HIS:NE2	17:J:172:GLU:HB3	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:123:LEU:HB3	18:K:126:LEU:H	1.84	0.43
18:K:123:LEU:HD22	18:K:125:THR:HB	2.01	0.43
19:L:115:GLU:N	19:L:137:ARG:HH21	2.15	0.43
19:L:245:PHE:HA	19:L:279:PHE:HB3	2.01	0.43
19:L:403:ILE:HG23	20:M:203:ARG:CD	2.41	0.43
20:M:172:VAL:HG11	20:M:273:LYS:HE3	2.01	0.43
20:M:22:ILE:O	20:M:25:LEU:N	2.52	0.43
20:M:277:ILE:HA	20:M:322:LYS:O	2.19	0.43
19:L:70:TYR:HB3	20:M:8:ASP:HB3	2.01	0.43
21:N:111:GLN:N	21:N:111:GLN:OE1	2.35	0.43
21:N:144:CYS:HB3	21:N:153:ALA:HB2	2.01	0.43
21:N:543:ASP:N	21:N:543:ASP:OD1	2.51	0.43
21:N:308:ASN:CB	21:N:711:ARG:HH11	2.26	0.43
22:O:226:LYS:HG3	22:O:227:ILE:N	2.34	0.43
22:O:266:PHE:CE2	22:O:274:ILE:HG12	2.53	0.43
22:O:311:GLU:C	22:O:315:LYS:NZ	2.72	0.43
22:O:315:LYS:HG2	22:O:320:PRO:HA	2.01	0.43
22:O:4:ASN:HB2	22:O:30:GLU:CD	2.38	0.43
22:O:86:LEU:HA	22:O:86:LEU:HD23	1.77	0.43
23:P:112:LEU:HD22	23:P:115:ARG:NH2	2.33	0.43
23:P:187:SER:HA	23:P:190:LYS:HB3	2.01	0.43
23:P:5:ALA:N	23:P:52:LEU:HD22	2.34	0.43
23:P:79:LEU:HD13	23:P:97:ILE:HG12	2.00	0.43
24:Q:186:HIS:C	24:Q:189:ARG:H	2.23	0.43
25:R:210:TYR:O	25:R:214:TYR:N	2.32	0.43
25:R:25:GLU:O	25:R:29:LYS:N	2.32	0.43
25:R:271:ILE:HG23	25:R:272:ASP:N	2.34	0.43
25:R:79:LEU:HB2	25:R:93:LYS:CE	2.48	0.43
25:R:71:LEU:HD11	25:R:82:ASP:HB3	2.00	0.43
26:S:215:MET:SD	26:S:218:LEU:HD12	2.59	0.43
26:S:278:LYS:HA	26:S:281:ALA:HB2	1.99	0.43
26:S:338:MET:HA	26:S:340:LYS:N	2.34	0.43
26:S:389:LYS:HD2	26:S:426:ALA:HA	2.01	0.43
26:S:394:ILE:O	26:S:396:SER:HB2	2.19	0.43
27:T:202:LEU:H	27:T:231:SER:C	2.19	0.43
27:T:215:LYS:HG2	27:T:218:GLU:OE1	2.19	0.43
28:U:55:PRO:HD2	28:U:72:TYR:CE2	2.54	0.43
21:N:362:TRP:CD1	29:V:165:ILE:C	2.92	0.43
29:V:249:GLU:HA	29:V:252:SER:HB2	2.00	0.43
33:Z:324:GLU:OE2	33:Z:472:LEU:HD11	2.19	0.43
33:Z:394:TYR:CE2	33:Z:858:GLY:HA2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:363:ASP:OD2	33:Z:394:TYR:HB3	2.18	0.43
33:Z:761:PHE:CZ	33:Z:783:VAL:HG11	2.54	0.43
33:Z:914:LEU:HD12	33:Z:960:GLY:H	1.84	0.43
1:1:200:ILE:HD13	1:1:234:GLU:OE2	2.18	0.43
3:3:138:VAL:H	2:9:94:GLN:CD	2.20	0.43
3:3:37:SER:OG	3:3:191:VAL:N	2.37	0.43
4:4:101:ARG:HH22	8:A:115:ASP:CG	2.22	0.43
4:4:137:SER:O	4:4:138:HIS:ND1	2.52	0.43
4:4:178:GLU:HG3	4:4:181:ILE:HD12	2.01	0.43
4:4:44:ALA:HA	4:4:203:ASP:O	2.19	0.43
6:6:20:ALA:HA	6:6:30:ASP:HA	2.00	0.43
7:7:141:HIS:HD2	7:7:149:ILE:HB	1.83	0.43
7:7:87:ILE:HD11	7:7:186:THR:N	2.33	0.43
7:7:243:ASP:OD1	7:7:244:ALA:N	2.52	0.43
7:7:250:VAL:O	7:7:251:ASN:ND2	2.52	0.43
2:9:136:ARG:HB3	2:9:142:PRO:HA	2.01	0.43
2:9:136:ARG:HB3	2:9:141:ASN:O	2.18	0.43
2:9:60:LEU:HD21	2:9:67:LEU:HB3	2.00	0.43
8:A:104:PHE:CG	8:A:108:TYR:HD2	2.37	0.43
9:B:181:ASP:N	9:B:181:ASP:OD1	2.52	0.43
9:B:51:SER:OG	9:B:53:SER:O	2.36	0.43
5:5:69:TYR:OH	10:C:93:ILE:HG23	2.19	0.43
10:C:124:GLN:HG3	11:D:127:ARG:CZ	2.49	0.43
11:D:160:SER:HB2	12:E:58:LEU:CA	2.49	0.43
11:D:31:THR:HG21	11:D:49:ARG:CB	2.48	0.43
12:E:78:MET:HA	12:E:142:LEU:HD23	2.01	0.43
13:F:6:TYR:HB3	13:F:20:PHE:HE1	1.84	0.43
13:F:227:GLY:O	13:F:230:VAL:HG22	2.19	0.43
14:G:237:GLN:HG3	14:G:241:ASP:OD2	2.19	0.43
15:H:224:VAL:HG21	15:H:373:ARG:HG2	2.01	0.43
15:H:432:ARG:HD3	16:I:196:GLU:CD	2.38	0.43
16:I:172:LYS:HD3	16:I:246:ARG:HD3	2.01	0.43
17:J:154:THR:HA	17:J:157:ILE:HD12	2.00	0.43
17:J:336:ASN:OD1	25:R:203:ASP:HB3	2.19	0.43
17:J:41:VAL:HG13	18:K:68:ILE:HD12	2.00	0.43
19:L:121:ALA:HB3	19:L:124:GLY:C	2.39	0.43
21:N:201:LYS:HA	21:N:204:SER:HB2	2.01	0.43
21:N:239:LEU:HA	21:N:242:PHE:HB2	2.01	0.43
21:N:314:LEU:O	21:N:318:LYS:N	2.39	0.43
21:N:605:ILE:O	21:N:608:LEU:HG	2.18	0.43
21:N:907:ASP:OD1	21:N:910:PRO:HG3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:169:ASN:O	22:O:173:SER:OG	2.35	0.43
22:O:207:LEU:O	22:O:210:ARG:N	2.52	0.43
22:O:196:LEU:HD13	22:O:210:ARG:HH12	1.84	0.43
22:O:218:SER:O	22:O:221:ALA:HB3	2.19	0.43
22:O:303:LYS:O	22:O:304:ASN:OD1	2.37	0.43
22:O:58:ARG:CB	22:O:61:LEU:HB2	2.48	0.43
22:O:94:GLU:CG	22:O:95:SER:N	2.82	0.43
23:P:118:VAL:O	23:P:125:VAL:HG21	2.19	0.43
23:P:98:GLN:CD	23:P:135:GLU:HB3	2.39	0.43
23:P:143:LEU:O	23:P:147:LYS:HG3	2.19	0.43
23:P:394:ASN:O	23:P:398:LYS:N	2.52	0.43
23:P:48:GLN:HA	23:P:86:HIS:CB	2.48	0.43
23:P:59:LEU:O	23:P:62:ILE:HB	2.19	0.43
23:P:66:LEU:CB	23:P:75:LEU:HD13	2.49	0.43
24:Q:62:GLY:HA2	24:Q:65:TYR:HD2	1.83	0.43
25:R:141:TYR:CD1	25:R:144:ILE:HD12	2.54	0.43
25:R:192:GLU:OE2	25:R:210:TYR:CZ	2.71	0.43
25:R:216:ILE:HG22	25:R:321:TYR:HE2	1.83	0.43
25:R:36:SER:HA	25:R:42:GLN:CG	2.49	0.43
26:S:1:MET:H3	26:S:4:THR:H	1.66	0.43
26:S:21:SER:C	26:S:22:GLU:CG	2.86	0.43
26:S:344:PRO:HG3	26:S:367:TYR:CE1	2.54	0.43
26:S:390:THR:CG2	26:S:394:ILE:CD1	2.96	0.43
26:S:459:GLN:O	26:S:463:GLU:N	2.33	0.43
26:S:51:ARG:C	26:S:53:ILE:N	2.73	0.43
26:S:368:LYS:HE3	27:T:133:ILE:HD13	2.00	0.43
27:T:264:MET:HA	27:T:267:ALA:HB3	2.01	0.43
27:T:55:LEU:HA	27:T:58:THR:CB	2.46	0.43
28:U:165:GLU:N	29:V:42:ARG:NH1	2.61	0.43
28:U:28:LYS:HE2	28:U:28:LYS:HB2	1.85	0.43
29:V:163:ALA:HB3	29:V:165:ILE:N	2.33	0.43
29:V:282:GLU:HG3	29:V:282:GLU:H	1.54	0.43
30:W:126:ILE:HG22	30:W:130:LYS:HE3	2.00	0.43
30:W:67:ALA:CB	30:W:68:GLU:HA	2.48	0.43
31:X:38:ASN:CA	31:X:47:ASP:H	2.32	0.43
31:X:38:ASN:H	31:X:46:TRP:HA	1.83	0.43
33:Z:138:ARG:NE	33:Z:158:ALA:HB2	2.33	0.43
1:1:223:ILE:N	1:1:234:GLU:O	2.35	0.42
1:1:49:ILE:O	1:1:55:ASN:ND2	2.52	0.42
4:4:242:LEU:HB2	5:5:199:TYR:HB2	2.01	0.42
6:6:108:ASP:N	6:6:113:LYS:O	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:160:LEU:O	6:6:163:LEU:HB3	2.19	0.42
6:6:193:ASP:OD1	6:6:193:ASP:N	2.52	0.42
6:6:60:ILE:HG23	6:6:83:PHE:HE1	1.84	0.42
7:7:110:ILE:HD11	7:7:120:MET:HB2	2.01	0.42
7:7:88:ILE:HA	7:7:253:TYR:O	2.19	0.42
8:A:131:ARG:HH11	9:B:127:VAL:HG13	1.77	0.42
8:A:133:TYR:N	8:A:133:TYR:CD1	2.86	0.42
10:C:213:PHE:CE2	10:C:215:THR:HG23	2.55	0.42
10:C:60:ASP:OD1	10:C:232:PRO:HG2	2.19	0.42
11:D:159:TRP:CZ3	12:E:58:LEU:HB2	2.80	0.42
12:E:222:ILE:HG13	12:E:227:GLY:C	2.40	0.42
13:F:138:ASP:OD1	13:F:140:SER:OG	2.37	0.42
14:G:122:ALA:O	14:G:125:LEU:N	2.40	0.42
14:G:190:ARG:O	14:G:194:LYS:HG3	2.19	0.42
14:G:9:ASP:HB2	14:G:26:TYR:HE2	1.83	0.42
15:H:317:ALA:N	15:H:360:THR:O	2.52	0.42
15:H:363:PRO:O	15:H:367:ARG:HG3	2.19	0.42
16:I:112:ILE:H	16:I:143:PRO:HG3	1.84	0.42
16:I:196:GLU:HA	16:I:200:LEU:CB	2.48	0.42
17:J:109:ALA:O	17:J:110:SER:OG	2.34	0.42
17:J:153:LEU:O	17:J:316:PHE:CZ	2.72	0.42
18:K:353:PHE:HE1	18:K:383:ILE:HG23	1.84	0.42
18:K:74:HIS:CG	21:N:576:VAL:HG12	2.54	0.42
19:L:183:ILE:HG22	19:L:364:HIS:HE1	1.80	0.42
20:M:145:LEU:HB2	20:M:159:LEU:O	2.19	0.42
20:M:383:THR:CG2	20:M:419:ILE:HG12	2.49	0.42
21:N:162:ARG:HB2	21:N:165:ILE:HD12	2.01	0.42
21:N:436:ASP:HB2	21:N:439:VAL:CG2	2.49	0.42
21:N:495:PRO:HB2	21:N:499:HIS:HE1	1.83	0.42
21:N:591:LEU:HB3	21:N:595:LEU:CD1	2.48	0.42
21:N:634:LEU:O	21:N:638:ILE:HG12	2.19	0.42
21:N:717:LEU:HD13	21:N:726:ASP:O	2.19	0.42
22:O:140:LYS:CA	22:O:181:PHE:CZ	2.95	0.42
22:O:41:LEU:HD11	22:O:81:TYR:CB	2.48	0.42
23:P:329:PHE:CZ	23:P:336:HIS:HB3	2.54	0.42
24:Q:274:LEU:O	24:Q:278:VAL:HG23	2.19	0.42
25:R:213:TYR:OH	25:R:238:PHE:HE2	2.00	0.42
25:R:240:SER:HG	25:R:244:THR:N	2.14	0.42
25:R:235:LEU:HB2	25:R:246:TYR:HE1	1.83	0.42
25:R:349:SER:O	25:R:353:MET:N	2.38	0.42
26:S:455:GLU:CD	26:S:455:GLU:H	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:383:LYS:HE2	27:T:262:LYS:HE2	2.01	0.42
29:V:208:LYS:CA	29:V:211:LYS:NZ	2.72	0.42
29:V:259:LYS:O	29:V:261:LEU:N	2.52	0.42
29:V:24:LYS:O	29:V:61:TYR:CD1	2.72	0.42
26:S:353:LYS:HZ1	32:Y:67:VAL:HA	1.81	0.42
32:Y:72:ASP:O	32:Y:75:ASN:HB2	2.19	0.42
33:Z:139:LEU:CD2	33:Z:161:ILE:HG21	2.49	0.42
33:Z:356:ASP:OD2	33:Z:466:GLU:OE2	2.36	0.42
33:Z:847:ILE:O	33:Z:850:LEU:HB2	2.19	0.42
33:Z:453:LEU:HD21	33:Z:902:TYR:HB2	2.01	0.42
33:Z:967:THR:HG23	33:Z:978:GLU:HG3	2.01	0.42
33:Z:916:LEU:HB2	33:Z:982:ILE:HA	2.01	0.42
1:1:75:GLY:HA3	1:1:126:VAL:HG12	2.01	0.42
3:3:82:LEU:O	3:3:86:THR:N	2.23	0.42
3:3:98:ALA:HA	3:3:101:PHE:HD2	1.84	0.42
4:4:135:THR:HG1	4:4:138:HIS:CD2	2.36	0.42
4:4:191:GLY:O	4:4:198:SER:HB2	2.19	0.42
4:4:34:GLY:HA3	4:4:43:ILE:HG22	1.99	0.42
4:4:41:VAL:HG11	4:4:130:ALA:HB1	2.01	0.42
5:5:124:PHE:CE1	5:5:130:ILE:HG23	2.55	0.42
7:7:165:TYR:HB2	7:7:170:LEU:CD1	2.50	0.42
7:7:230:TYR:HD1	7:7:233:LYS:HD3	1.84	0.42
1:8:175:PHE:O	1:8:178:GLN:HB2	2.19	0.42
1:8:49:ILE:O	1:8:55:ASN:ND2	2.52	0.42
2:9:197:ASP:N	2:9:197:ASP:OD1	2.50	0.42
8:A:209:HIS:HA	8:A:212:ASP:CG	2.40	0.42
9:B:101:TYR:O	17:J:89:GLN:HG3	166.10	0.42
9:B:218:ASN:O	9:B:233:PRO:HD2	2.19	0.42
9:B:66:LEU:HD12	9:B:235:PHE:HB3	2.01	0.42
9:B:70:ASP:O	9:B:214:ILE:HD12	2.19	0.42
10:C:179:ASP:HB3	10:C:192:LEU:HD11	2.02	0.42
11:D:169:LYS:HA	11:D:169:LYS:HD2	1.77	0.42
11:D:37:LYS:CB	11:D:42:VAL:HG22	2.50	0.42
11:D:56:ASP:O	11:D:60:THR:OG1	2.23	0.42
11:D:68:ASP:O	11:D:71:VAL:N	2.43	0.42
12:E:156:PHE:HA	12:E:165:TYR:O	2.20	0.42
12:E:236:THR:HG22	12:E:240:ILE:CD1	2.48	0.42
12:E:71:ASP:CG	12:E:73:HIS:HD1	2.22	0.42
13:F:169:LYS:HB2	13:F:169:LYS:HE3	1.74	0.42
13:F:7:ASP:HA	13:F:20:PHE:HD1	1.85	0.42
13:F:7:ASP:O	13:F:21:GLN:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:98:ARG:NH2	14:G:101:LYS:HE2	63.20	0.42
14:G:119:TYR:CE2	14:G:132:PHE:CZ	3.09	0.42
15:H:292:ARG:O	15:H:296:GLU:N	2.35	0.42
15:H:293:GLU:HA	15:H:296:GLU:HB2	2.00	0.42
16:I:132:ILE:CG2	16:I:138:LYS:HZ2	2.32	0.42
16:I:145:CYS:O	16:I:147:VAL:HG13	2.19	0.42
16:I:148:LEU:CG	16:I:160:LEU:HB2	2.47	0.42
17:J:71:TYR:CD2	17:J:115:LEU:HD23	2.49	0.42
17:J:150:VAL:HG13	17:J:197:LEU:HD22	2.01	0.42
17:J:274:GLU:O	17:J:278:GLN:N	2.51	0.42
17:J:273:LEU:HD21	17:J:304:LEU:HB2	2.01	0.42
18:K:366:ALA:HB2	18:K:402:ILE:O	2.19	0.42
19:L:132:ARG:HG2	19:L:133:ASN:ND2	2.30	0.42
19:L:171:THR:HG22	19:L:173:PHE:CE2	2.54	0.42
20:M:162:GLU:OE2	20:M:163:PHE:HD2	2.01	0.42
18:K:49:PHE:CD1	21:N:151:LYS:HB3	2.54	0.42
21:N:263:SER:O	21:N:722:THR:HG21	2.18	0.42
21:N:293:LEU:HD13	21:N:379:LEU:CD1	2.49	0.42
21:N:324:LYS:HE2	21:N:693:GLY:HA3	2.00	0.42
21:N:63:LEU:O	21:N:66:SER:HB2	2.19	0.42
21:N:686:ILE:HA	21:N:696:LYS:HG2	2.01	0.42
21:N:739:PHE:CG	21:N:740:TRP:N	2.87	0.42
21:N:62:ALA:C	21:N:81:TYR:HB3	2.40	0.42
21:N:894:ARG:HE	21:N:897:LYS:HG3	1.84	0.42
22:O:151:ASP:O	22:O:154:GLU:HB3	2.19	0.42
22:O:266:PHE:CE2	22:O:270:ILE:HG22	2.54	0.42
22:O:287:LEU:O	22:O:291:ILE:HG12	2.19	0.42
22:O:344:VAL:HG22	23:P:361:THR:HG22	2.00	0.42
22:O:382:LYS:NZ	22:O:383:LYS:CD	2.81	0.42
22:O:82:LEU:C	22:O:84:ALA:N	2.72	0.42
23:P:105:LYS:C	23:P:107:SER:N	2.73	0.42
18:K:400:TYR:HB3	23:P:201:ARG:NH2	2.34	0.42
23:P:235:LEU:HG	23:P:271:SER:CB	2.49	0.42
23:P:410:GLN:O	23:P:414:GLU:N	2.39	0.42
23:P:441:GLY:O	28:U:213:LYS:NZ	2.35	0.42
23:P:88:GLN:HB2	23:P:92:SER:OG	2.19	0.42
24:Q:104:PHE:O	24:Q:109:ASP:HB2	2.19	0.42
24:Q:75:ARG:HD3	24:Q:113:ASP:OD1	2.19	0.42
24:Q:117:VAL:HA	24:Q:120:LYS:CD	2.48	0.42
24:Q:39:SER:C	24:Q:46:VAL:HG13	2.39	0.42
24:Q:414:GLU:O	24:Q:418:GLN:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:7:LYS:HE3	24:Q:7:LYS:HB2	1.73	0.42
25:R:106:ASN:O	25:R:110:ILE:HG13	2.19	0.42
25:R:109:LYS:HD3	25:R:140:TYR:CG	2.54	0.42
25:R:28:GLU:O	25:R:32:LEU:HG	2.19	0.42
25:R:258:LEU:HD11	25:R:293:THR:HG21	2.00	0.42
25:R:334:ARG:NH2	25:R:364:LEU:HD12	2.34	0.42
25:R:54:ILE:HD13	25:R:63:TYR:CZ	2.53	0.42
26:S:185:PHE:CE2	26:S:239:ARG:NH2	2.87	0.42
26:S:259:TYR:O	26:S:261:HIS:HA	2.20	0.42
26:S:330:LEU:CB	26:S:333:PHE:HB2	2.49	0.42
27:T:257:THR:HA	27:T:260:ILE:HB	2.01	0.42
27:T:30:ILE:HA	27:T:33:GLU:CG	2.49	0.42
29:V:263:GLU:O	29:V:266:LEU:HB3	2.19	0.42
31:X:42:GLU:HG3	31:X:43:LEU:N	2.34	0.42
31:X:85:ARG:H	31:X:116:ALA:HB3	1.84	0.42
33:Z:165:TYR:CE1	33:Z:201:LEU:HA	2.54	0.42
33:Z:374:LEU:CD1	33:Z:379:GLN:HB3	2.48	0.42
33:Z:377:ALA:HA	33:Z:380:ASN:HB2	2.01	0.42
33:Z:824:ASN:H	33:Z:831:LEU:HD12	1.85	0.42
1:1:32:LEU:HB3	1:1:207:PHE:HZ	1.85	0.42
2:2:133:MET:O	2:2:137:ARG:N	2.41	0.42
2:2:189:ARG:HA	2:2:192:VAL:O	2.19	0.42
3:3:23:MET:HA	3:3:145:ILE:HA	2.00	0.42
6:6:19:LYS:HB3	6:6:31:SER:HA	2.01	0.42
6:6:80:VAL:O	6:6:83:PHE:HB3	2.20	0.42
7:7:152:ALA:O	7:7:155:SER:OG	2.37	0.42
7:7:82:ARG:HB3	7:7:200:ASP:HA	1.99	0.42
7:7:226:GLU:O	7:7:230:TYR:N	2.41	0.42
1:8:109:ALA:HA	1:8:144:PHE:CZ	2.54	0.42
2:9:89:ASP:OD2	2:9:91:SER:OG	2.37	0.42
8:A:16:ILE:HD11	8:A:18:ILE:HD13	2.00	0.42
11:D:192:VAL:O	11:D:196:VAL:HG23	2.20	0.42
14:G:222:SER:OG	14:G:223:GLU:N	2.53	0.42
15:H:449:LYS:O	15:H:453:GLY:N	2.42	0.42
16:I:113:ILE:HG13	16:I:129:TYR:HE1	1.83	0.42
16:I:277:SER:O	16:I:322:VAL:HG13	2.19	0.42
16:I:95:GLN:O	16:I:99:ILE:HG13	2.19	0.42
17:J:113:VAL:HA	17:J:126:LEU:N	2.35	0.42
17:J:40:ASN:O	17:J:43:ARG:HB2	2.19	0.42
18:K:158:ILE:HG22	18:K:159:SER:C	2.38	0.42
18:K:226:VAL:HA	18:K:229:SER:OG	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:371:LEU:HD21	18:K:404:GLN:NE2	2.34	0.42
18:K:49:PHE:O	18:K:51:LEU:N	2.52	0.42
19:L:109:MET:CB	19:L:120:LYS:H	2.30	0.42
19:L:297:ALA:O	19:L:300:GLU:HB2	2.19	0.42
19:L:360:ILE:HG21	19:L:388:GLY:HA2	2.01	0.42
20:M:148:VAL:HG22	20:M:155:ILE:HG12	2.01	0.42
20:M:225:GLY:C	20:M:387:ASN:HB2	2.38	0.42
20:M:75:LEU:HA	20:M:76:PRO:HA	1.75	0.42
21:N:399:PHE:CB	21:N:441:VAL:HG11	2.50	0.42
21:N:602:VAL:HA	21:N:605:ILE:HB	2.00	0.42
21:N:664:LEU:HD23	21:N:667:GLN:OE1	2.20	0.42
21:N:766:GLN:N	21:N:766:GLN:OE1	2.52	0.42
21:N:773:MET:HB3	21:N:884:PHE:CA	2.41	0.42
22:O:301:PHE:CB	22:O:305:ILE:HA	2.48	0.42
22:O:338:LYS:HG3	22:O:352:TRP:O	2.19	0.42
22:O:383:LYS:HZ1	27:T:262:LYS:HZ3	1.66	0.42
22:O:44:SER:HA	22:O:48:PHE:CE1	2.53	0.42
22:O:58:ARG:CG	22:O:61:LEU:HB2	2.49	0.42
22:O:83:LEU:HD23	22:O:98:TYR:HE1	1.82	0.42
23:P:141:LYS:HD3	23:P:179:PHE:CE2	2.55	0.42
23:P:141:LYS:HG3	23:P:142:ASP:N	2.34	0.42
23:P:210:ASN:HB3	23:P:213:TYR:CD2	2.54	0.42
23:P:263:HIS:HE1	23:P:327:LEU:HG	1.84	0.42
23:P:308:LEU:CD2	23:P:346:ILE:HG12	2.49	0.42
23:P:382:ASP:O	23:P:386:GLN:HG2	2.18	0.42
23:P:393:VAL:HB	24:Q:354:PHE:H	1.81	0.42
23:P:46:THR:HA	23:P:50:SER:HA	2.01	0.42
23:P:42:LEU:HD13	23:P:59:LEU:N	2.34	0.42
24:Q:159:ASN:O	24:Q:162:LEU:HB2	2.19	0.42
24:Q:192:ALA:HA	24:Q:195:LYS:HB3	2.01	0.42
24:Q:430:ALA:HB2	28:U:293:GLU:OE2	2.18	0.42
26:S:256:LYS:HG2	26:S:257:LEU:HG	2.01	0.42
26:S:270:ALA:HB2	26:S:300:ALA:HB2	2.01	0.42
26:S:338:MET:HB2	26:S:343:LEU:HB2	2.01	0.42
26:S:418:THR:O	26:S:422:MET:HG3	2.19	0.42
26:S:471:LEU:HD23	26:S:471:LEU:HA	1.79	0.42
27:T:34:LEU:HB2	27:T:40:LEU:HB2	2.01	0.42
28:U:119:LEU:HD11	28:U:136:ALA:HB1	2.02	0.42
28:U:127:GLN:HA	28:U:133:PRO:CB	2.42	0.42
28:U:264:ALA:C	28:U:266:THR:N	2.72	0.42
28:U:9:THR:CB	28:U:47:ARG:HA	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:7:LYS:HZ2	28:U:158:PRO:HD2	1.84	0.42
29:V:116:CYS:HG	29:V:117:TRP:H	1.61	0.42
28:U:169:ILE:HG23	29:V:149:GLY:O	2.19	0.42
29:V:248:ALA:O	29:V:252:SER:N	2.24	0.42
29:V:51:GLY:CA	29:V:71:MET:HG2	2.46	0.42
30:W:4:GLU:HA	30:W:106:GLN:HA	2.01	0.42
30:W:26:PHE:O	30:W:29:GLN:HB2	2.20	0.42
30:W:8:LEU:HD11	30:W:113:PHE:CE2	2.54	0.42
33:Z:228:GLU:HA	33:Z:264:PHE:CZ	2.54	0.42
33:Z:452:LEU:HD21	33:Z:477:TYR:HB3	2.00	0.42
33:Z:776:VAL:HB	33:Z:777:PRO:HD3	2.01	0.42
33:Z:788:PRO:CG	33:Z:826:ARG:HB2	2.49	0.42
33:Z:896:LYS:HD2	33:Z:900:LEU:HD11	2.00	0.42
33:Z:900:LEU:HB3	33:Z:903:MET:HE2	2.01	0.42
33:Z:923:ILE:O	33:Z:925:VAL:HG12	2.19	0.42
1:1:109:ALA:HA	1:1:144:PHE:CZ	2.54	0.42
3:3:126:LYS:HG2	3:3:127:GLY:H	1.83	0.42
3:3:85:TYR:CD1	14:G:103:TYR:CE1	3.07	0.42
5:5:149:MET:HG3	5:5:174:ALA:HB2	2.01	0.42
6:6:19:LYS:HE2	6:6:179:VAL:N	2.35	0.42
1:8:96:PHE:HB3	13:F:89:ARG:HH12	1.74	0.42
2:9:113:LEU:CB	2:9:116:ALA:HB3	2.46	0.42
8:A:54:ILE:HD12	8:A:225:VAL:HG22	2.01	0.42
9:B:94:HIS:HA	9:B:98:LYS:CB	2.40	0.42
10:C:11:THR:O	11:D:127:ARG:HD3	2.19	0.42
13:F:157:TYR:OH	14:G:60:VAL:HG13	2.54	0.42
2:2:127:GLU:HG3	13:F:98:VAL:O	79.62	0.42
14:G:123:HIS:CE1	14:G:132:PHE:CZ	3.08	0.42
14:G:70:VAL:O	14:G:74:ILE:HB	2.20	0.42
15:H:107:LYS:HA	29:V:75:GLY:O	2.19	0.42
15:H:159:LEU:HD23	15:H:159:LEU:HA	1.68	0.42
15:H:238:LEU:HA	20:M:408:SER:O	2.18	0.42
16:I:115:ASP:HB3	16:I:117:HIS:HD2	1.83	0.42
16:I:186:GLY:H	16:I:360:LYS:HB3	1.84	0.42
16:I:320:GLY:HA2	16:I:323:LYS:CE	2.48	0.42
16:I:97:GLU:OE2	16:I:100:ARG:HD3	2.19	0.42
17:J:245:ILE:N	17:J:289:LYS:O	2.52	0.42
17:J:321:VAL:HG22	17:J:347:ALA:O	2.20	0.42
17:J:41:VAL:HG21	18:K:65:GLU:HG2	2.00	0.42
19:L:281:ASP:HA	19:L:326:ALA:HB3	2.01	0.42
20:M:231:LEU:HD12	20:M:349:PHE:CE2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:360:ILE:HA	20:M:363:ILE:HD12	2.01	0.42
20:M:401:ILE:CG2	20:M:414:ASP:HA	2.49	0.42
21:N:111:GLN:N	21:N:111:GLN:CD	2.72	0.42
21:N:109:TYR:CD1	21:N:129:ILE:HG21	2.54	0.42
21:N:287:LEU:O	21:N:290:LEU:HB2	2.20	0.42
21:N:372:GLY:HA3	21:N:407:GLY:O	2.20	0.42
21:N:486:GLY:HA3	21:N:523:LEU:HD12	2.00	0.42
21:N:615:ALA:HB1	21:N:652:VAL:CG2	2.49	0.42
22:O:127:LEU:HA	22:O:130:ASP:CG	2.40	0.42
22:O:310:PHE:CD2	22:O:346:GLU:HA	2.53	0.42
22:O:41:LEU:HD12	22:O:51:ASP:C	2.39	0.42
22:O:68:LYS:CB	22:O:72:LYS:HB2	2.48	0.42
23:P:131:PHE:C	23:P:133:GLU:H	2.23	0.42
23:P:184:MET:HE2	23:P:196:ALA:HB1	2.02	0.42
23:P:240:TYR:O	23:P:243:GLU:HB3	2.20	0.42
23:P:319:GLU:HA	23:P:323:ASN:H	1.84	0.42
23:P:321:VAL:HA	23:P:324:GLU:O	2.20	0.42
25:R:141:TYR:CD2	25:R:150:ALA:HB2	2.54	0.42
25:R:259:PHE:CE1	25:R:329:PHE:HA	2.54	0.42
25:R:398:ALA:CA	25:R:401:HIS:HB3	2.45	0.42
25:R:50:VAL:O	25:R:54:ILE:HG23	2.19	0.42
25:R:80:GLU:CB	25:R:94:PHE:HD2	2.30	0.42
26:S:236:LEU:HG	26:S:240:ASP:OD2	2.19	0.42
26:S:363:THR:HG23	26:S:367:TYR:CD2	2.54	0.42
27:T:24:GLU:HA	27:T:27:LEU:HD12	2.01	0.42
28:U:92:TRP:CE2	28:U:120:LEU:HA	2.54	0.42
28:U:195:LYS:HD3	29:V:233:LYS:CB	2.50	0.42
29:V:119:SER:O	29:V:123:VAL:HG23	2.19	0.42
30:W:140:ASP:CG	30:W:170:HIS:HB3	2.40	0.42
30:W:51:LEU:HD12	30:W:52:ILE:H	1.85	0.42
33:Z:208:VAL:HG21	33:Z:231:ASP:HB3	2.00	0.42
33:Z:345:GLU:HB3	33:Z:349:THR:OG1	2.19	0.42
33:Z:449:ALA:HA	33:Z:452:LEU:HD12	2.01	0.42
33:Z:453:LEU:O	33:Z:457:ILE:HG13	2.20	0.42
33:Z:788:PRO:HG3	33:Z:826:ARG:HD2	2.02	0.42
33:Z:806:GLU:HG2	33:Z:809:MET:SD	2.59	0.42
1:1:164:LEU:O	5:5:148:GLY:HA3	2.19	0.42
2:2:46:SER:HB3	2:2:55:ILE:HG13	2.02	0.42
2:2:74:ARG:HB3	2:2:86:ILE:O	2.19	0.42
3:3:23:MET:O	3:3:34:GLY:N	2.49	0.42
3:3:38:ARG:NH2	3:3:189:GLY:HA3	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:116:LEU:HB3	4:4:144:ALA:O	2.20	0.42
4:4:37:PHE:HD2	4:4:38:ASN:OD1	2.02	0.42
6:6:19:LYS:HE3	6:6:177:LYS:O	2.19	0.42
6:6:52:ASP:N	7:7:166:LYS:HZ2	2.17	0.42
7:7:269:GLY:O	7:7:272:PHE:HB3	2.19	0.42
1:8:54:ILE:HD13	1:8:219:ASP:OD2	2.19	0.42
2:9:152:VAL:HG11	2:9:235:LYS:CA	2.50	0.42
2:9:210:ILE:O	2:9:214:MET:HG2	2.19	0.42
8:A:174:LYS:HD2	8:A:214:LEU:HD22	2.01	0.42
8:A:223:LEU:HA	8:A:223:LEU:HD23	1.86	0.42
8:A:69:VAL:HA	14:G:158:TRP:CE3	2.51	0.42
9:B:68:THR:HB	9:B:69:PRO:HD2	2.01	0.42
9:B:98:LYS:NZ	9:B:104:TYR:CZ	2.87	0.42
10:C:73:ILE:HG12	10:C:108:VAL:HG22	2.01	0.42
10:C:135:PHE:O	10:C:150:THR:OG1	2.33	0.42
10:C:180:TYR:OH	10:C:182:ASP:HA	2.19	0.42
10:C:190:ILE:HG21	10:C:238:ILE:HG12	2.02	0.42
12:E:203:ILE:HA	12:E:206:GLN:HB3	2.02	0.42
3:3:96:THR:HG23	14:G:103:TYR:O	2.19	0.42
14:G:158:TRP:HB2	14:G:160:TYR:CZ	2.54	0.42
14:G:169:ARG:HH21	14:G:170:GLN:HE22	1.66	0.42
14:G:189:ALA:O	14:G:193:VAL:N	2.28	0.42
14:G:179:LEU:HD21	14:G:195:GLN:NE2	2.34	0.42
13:F:15:PRO:O	14:G:29:LYS:HG3	2.19	0.42
14:G:9:ASP:O	14:G:23:GLN:HG2	2.19	0.42
15:H:145:TYR:CE1	20:M:75:LEU:HD12	2.54	0.42
15:H:200:VAL:HA	15:H:272:ILE:HA	2.01	0.42
15:H:247:LEU:O	15:H:375:VAL:N	2.30	0.42
15:H:353:PHE:CD2	15:H:371:ILE:HD11	2.55	0.42
16:I:114:ASP:C	16:I:116:ASP:N	2.73	0.42
16:I:195:LYS:HG3	16:I:199:GLU:OE1	2.19	0.42
16:I:335:ASP:HB2	16:I:338:LEU:CB	2.49	0.42
17:J:320:SER:O	17:J:323:ALA:N	2.52	0.42
18:K:135:MET:O	18:K:137:VAL:HG13	2.19	0.42
18:K:218:GLY:O	18:K:222:LEU:HG	2.20	0.42
18:K:214:PRO:HD2	18:K:340:PHE:HD2	1.84	0.42
19:L:114:GLU:O	19:L:117:TYR:CZ	2.70	0.42
19:L:110:LYS:CE	19:L:118:ILE:HD12	2.42	0.42
19:L:360:ILE:HG23	19:L:364:HIS:CG	2.55	0.42
19:L:415:LEU:O	19:L:418:ALA:N	2.52	0.42
20:M:16:ASP:HB3	20:M:20:GLN:NE2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:198:VAL:HG22	20:M:239:THR:CG2	2.49	0.42
21:N:124:TYR:CB	21:N:162:ARG:NH1	2.81	0.42
21:N:244:LYS:O	21:N:248:GLU:HG2	2.19	0.42
21:N:242:PHE:CA	21:N:245:LEU:HB3	2.48	0.42
21:N:36:TRP:O	21:N:40:SER:OG	2.34	0.42
21:N:422:TYR:CZ	21:N:426:ILE:HD11	2.54	0.42
21:N:468:GLU:N	21:N:468:GLU:OE1	2.48	0.42
21:N:451:GLY:HA3	21:N:484:GLY:HA2	2.02	0.42
21:N:612:SER:H	21:N:618:ARG:HH21	1.66	0.42
21:N:617:VAL:O	21:N:621:THR:HG23	2.19	0.42
21:N:897:LYS:HG2	21:N:899:ASN:HD22	1.84	0.42
22:O:301:PHE:HB2	22:O:305:ILE:CG1	2.43	0.42
22:O:75:GLN:HE21	30:W:82:GLU:CD	2.22	0.42
23:P:120:GLU:HA	23:P:123:ARG:NH1	2.34	0.42
23:P:125:VAL:HG23	23:P:126:THR:H	1.85	0.42
23:P:204:LEU:O	23:P:217:LYS:NZ	2.50	0.42
23:P:235:LEU:HD11	23:P:273:TYR:O	2.19	0.42
23:P:365:LEU:O	23:P:368:LEU:N	2.52	0.42
23:P:379:TYR:CD1	23:P:382:ASP:OD2	2.72	0.42
24:Q:272:LEU:HG	24:Q:274:LEU:HG	2.02	0.42
25:R:139:GLU:O	25:R:142:ALA:HB3	2.19	0.42
25:R:238:PHE:O	25:R:239:THR:HG22	2.20	0.42
25:R:422:ARG:HH12	28:U:299:LYS:HG2	1.84	0.42
25:R:75:GLY:HA3	25:R:92:ILE:HD13	2.02	0.42
26:S:20:HIS:CE1	26:S:131:THR:HB	2.53	0.42
26:S:467:PHE:O	26:S:470:GLN:HB2	2.19	0.42
27:T:123:HIS:O	27:T:126:LEU:HB3	2.18	0.42
27:T:258:ASN:HA	27:T:261:GLU:HB2	2.01	0.42
28:U:32:ARG:NH1	28:U:98:LYS:O	2.48	0.42
29:V:122:ASP:O	29:V:125:THR:HB	2.19	0.42
29:V:136:ALA:O	29:V:157:ARG:HD3	2.18	0.42
29:V:112:PRO:HA	29:V:142:ASP:OD1	2.19	0.42
30:W:140:ASP:OD1	30:W:170:HIS:N	2.48	0.42
30:W:154:LEU:O	30:W:158:ILE:HG12	2.20	0.42
30:W:2:VAL:C	30:W:44:ASN:HD22	2.19	0.42
30:W:49:VAL:O	30:W:71:LYS:HE2	2.19	0.42
31:X:32:GLU:O	31:X:50:TRP:HA	2.19	0.42
32:Y:72:ASP:OD1	32:Y:72:ASP:N	2.51	0.42
33:Z:342:LEU:HG	33:Z:345:GLU:CD	2.39	0.42
33:Z:524:ALA:HA	33:Z:562:TRP:CE3	2.54	0.42
33:Z:588:ILE:HG21	33:Z:599:ILE:HG21	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:175:PHE:O	1:1:178:GLN:HB2	2.19	0.42
3:3:116:ILE:O	3:3:132:ILE:N	2.34	0.42
3:3:25:VAL:C	3:3:31:VAL:HG23	2.39	0.42
5:5:98:ARG:HG3	5:5:103:TYR:CD2	2.54	0.42
5:5:205:ASP:N	5:5:205:ASP:OD1	2.53	0.42
5:5:4:PRO:HG2	5:5:104:PHE:CD1	2.54	0.42
5:5:50:PHE:HB2	5:5:110:ALA:HB3	2.00	0.42
6:6:158:LEU:HB3	6:6:198:GLN:HE22	1.84	0.42
6:6:96:ARG:NH2	7:7:163:TYR:O	2.53	0.42
6:6:96:ARG:NE	7:7:166:LYS:O	2.52	0.42
7:7:211:ALA:O	7:7:215:LEU:N	2.25	0.42
2:9:46:SER:HB3	2:9:55:ILE:HG13	2.02	0.42
2:9:53:VAL:O	2:9:232:ILE:HG23	2.19	0.42
8:A:112:MET:HE3	8:A:117:LEU:HB2	2.06	0.42
8:A:126:GLN:O	8:A:129:THR:HB	2.20	0.42
8:A:141:LEU:O	8:A:157:THR:N	2.34	0.42
8:A:141:LEU:HB2	8:A:157:THR:OG1	2.20	0.42
8:A:194:ILE:HA	8:A:194:ILE:HD13	1.80	0.42
10:C:106:ILE:HG12	10:C:107:PRO:O	2.20	0.42
10:C:14:SER:O	11:D:22:TYR:HB3	2.20	0.42
10:C:33:GLY:HA3	10:C:51:LYS:HB2	2.01	0.42
11:D:117:GLN:HG2	11:D:129:PHE:HD2	1.85	0.42
12:E:240:ILE:O	12:E:243:LEU:HB2	3.23	0.42
12:E:87:SER:OG	12:E:88:MET:N	2.52	0.42
13:F:33:SER:HB3	13:F:62:LYS:NZ	2.30	0.42
14:G:109:ILE:HG12	14:G:142:ASP:OD2	2.19	0.42
14:G:39:GLY:HA3	14:G:137:ILE:HG21	2.02	0.42
14:G:51:GLU:CD	14:G:204:HIS:HD1	2.21	0.42
15:H:318:ARG:NE	15:H:326:ASP:OD2	2.42	0.42
15:H:402:ILE:CG2	15:H:440:GLU:HB2	2.49	0.42
16:I:109:LEU:HA	16:I:120:VAL:HA	2.00	0.42
17:J:195:LYS:HB3	17:J:253:ILE:HB	2.01	0.42
17:J:319:PRO:HB2	17:J:323:ALA:CB	2.48	0.42
18:K:68:ILE:O	18:K:71:GLU:HB3	2.19	0.42
19:L:112:LEU:N	19:L:116:LYS:O	2.52	0.42
19:L:195:GLU:HA	19:L:199:LEU:HD12	2.00	0.42
19:L:345:ARG:NH1	19:L:346:LYS:C	2.70	0.42
20:M:7:LEU:O	20:M:11:THR:HG23	2.20	0.42
21:N:176:GLN:HB3	21:N:218:PRO:HG2	2.00	0.42
21:N:230:VAL:HG21	21:N:264:SER:CB	2.39	0.42
21:N:398:ARG:NH1	21:N:438:ASP:HB3	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:772:GLN:OE1	21:N:868:VAL:HG12	2.20	0.42
21:N:889:ARG:HA	21:N:909:GLU:OE1	2.20	0.42
22:O:178:TYR:O	22:O:181:PHE:HB2	2.19	0.42
22:O:226:LYS:HG3	22:O:227:ILE:O	2.20	0.42
22:O:245:ASP:O	22:O:248:TYR:HD2	2.03	0.42
23:P:131:PHE:CG	23:P:131:PHE:O	2.72	0.42
23:P:179:PHE:HA	23:P:182:GLU:HB2	2.01	0.42
23:P:210:ASN:O	23:P:212:LYS:N	2.53	0.42
23:P:305:THR:C	23:P:310:ARG:NH2	2.71	0.42
23:P:329:PHE:HD2	23:P:337:HIS:CD2	2.37	0.42
23:P:433:ILE:CG2	28:U:206:ASP:OD2	2.68	0.42
24:Q:245:SER:O	24:Q:248:ASN:N	2.53	0.42
24:Q:355:GLU:HG2	24:Q:397:LEU:HG	2.01	0.42
24:Q:355:GLU:OE2	24:Q:397:LEU:HD21	2.19	0.42
25:R:175:ALA:HB1	25:R:243:LEU:HD13	2.01	0.42
25:R:258:LEU:O	25:R:266:LEU:HD11	2.20	0.42
25:R:301:TYR:CD2	25:R:302:ALA:N	2.88	0.42
25:R:33:LEU:HD13	25:R:47:ALA:CB	2.49	0.42
25:R:62:TYR:CE1	25:R:65:TYR:HD2	2.36	0.42
26:S:228:GLU:H	26:S:228:GLU:CD	2.23	0.42
26:S:234:ILE:HG22	26:S:238:LEU:CG	2.49	0.42
26:S:402:ILE:HG22	26:S:403:SER:H	1.84	0.42
26:S:48:LEU:O	26:S:51:ARG:N	2.53	0.42
27:T:71:GLN:OE1	27:T:173:GLU:HG2	2.20	0.42
27:T:253:GLU:CG	27:T:254:ASP:H	2.21	0.42
27:T:250:MET:H	27:T:256:LYS:HD2	1.82	0.42
21:N:17:GLN:OE1	27:T:32:ILE:HD11	2.19	0.42
27:T:55:LEU:O	27:T:55:LEU:HD23	2.19	0.42
27:T:83:ASN:O	27:T:87:PRO:HD3	2.19	0.42
28:U:94:HIS:HE1	28:U:122:ILE:HG12	1.83	0.42
28:U:268:LYS:O	28:U:272:GLU:HG3	2.20	0.42
29:V:119:SER:HB3	29:V:121:VAL:HB	2.02	0.42
29:V:241:THR:HG22	29:V:241:THR:O	2.20	0.42
29:V:257:GLU:OE1	29:V:287:THR:CG2	2.67	0.42
29:V:41:GLY:HA2	29:V:49:VAL:HG11	2.00	0.42
33:Z:183:LYS:NZ	33:Z:292:ASP:CB	2.83	0.42
33:Z:471:LEU:O	33:Z:474:LEU:HB3	2.20	0.42
33:Z:811:SER:O	33:Z:815:MET:HG3	2.20	0.42
1:1:200:ILE:O	1:1:203:VAL:HB	2.19	0.42
1:1:31:ILE:CG2	1:1:61:LYS:HD2	2.49	0.42
2:2:111:ASN:HB3	2:2:114:ALA:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:89:ASP:OD2	2:2:91:SER:OG	2.37	0.42
5:5:21:VAL:HG23	5:5:190:ILE:HB	2.02	0.42
6:6:46:PHE:HA	6:6:102:VAL:HG12	2.01	0.42
6:6:117:TYR:CE2	6:6:127:GLU:HB2	2.54	0.42
6:6:166:GLN:HA	6:6:169:GLU:OE1	2.20	0.42
2:9:210:ILE:O	2:9:214:MET:N	2.36	0.42
8:A:192:ASP:OD1	8:A:193:HIS:N	2.52	0.42
9:B:172:LYS:HA	9:B:175:LEU:HD12	2.02	0.42
9:B:180:ASN:O	9:B:183:LEU:HG	2.19	0.42
9:B:74:VAL:HG22	9:B:75:TYR:N	2.35	0.42
10:C:99:LEU:HG	10:C:100:LYS:N	2.34	0.42
10:C:26:LEU:HA	10:C:29:ILE:HD12	2.01	0.42
11:D:119:ARG:O	11:D:123:SER:N	2.53	0.42
11:D:216:LYS:HB2	11:D:220:ASP:CB	2.50	0.42
11:D:227:GLU:N	11:D:227:GLU:OE1	2.31	0.42
11:D:24:LEU:HB2	11:D:28:LYS:NZ	2.35	0.42
12:E:208:MET:SD	12:E:212:LEU:HD12	2.60	0.42
12:E:48:LEU:HB2	12:E:220:SER:OG	2.20	0.42
13:F:132:LEU:HD23	13:F:132:LEU:HA	1.80	0.42
13:F:175:THR:HG22	13:F:178:THR:HB	2.02	0.42
13:F:49:LEU:CD1	13:F:210:ASN:HB3	2.50	0.42
13:F:215:ILE:HG23	13:F:220:THR:HG21	2.01	0.42
14:G:129:VAL:HG23	14:G:130:ARG:N	2.34	0.42
14:G:12:ASN:HD22	14:G:130:ARG:N	2.17	0.42
14:G:67:ILE:H	14:G:215:GLU:CD	2.22	0.42
15:H:169:GLU:N	15:H:174:VAL:HG13	2.34	0.42
15:H:229:LEU:HB2	15:H:267:THR:HG21	2.02	0.42
15:H:244:LYS:HA	15:H:346:ARG:HB3	2.02	0.42
15:H:178:ARG:NE	15:H:284:VAL:O	2.42	0.42
15:H:288:ALA:CB	15:H:335:GLU:HG2	2.50	0.42
17:J:174:PHE:O	17:J:178:GLY:N	2.53	0.42
17:J:250:ILE:CG2	17:J:251:ASP:N	2.83	0.42
17:J:276:LEU:HB3	17:J:309:ARG:CG	2.49	0.42
17:J:56:ARG:HG3	17:J:57:PHE:N	2.35	0.42
18:K:82:ALA:O	18:K:86:VAL:HG23	2.20	0.42
19:L:373:GLU:C	19:L:412:PRO:HD3	2.40	0.42
19:L:66:GLU:OE1	20:M:5:GLU:HB3	2.20	0.42
19:L:291:PHE:HD1	20:M:294:GLU:HB3	1.84	0.42
20:M:353:SER:O	20:M:357:ARG:HG3	2.18	0.42
21:N:180:SER:O	21:N:184:LYS:N	2.50	0.42
21:N:223:LEU:HB3	21:N:894:ARG:NH2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:246:LYS:HZ2	21:N:280:GLN:CB	2.33	0.42
21:N:398:ARG:CZ	21:N:438:ASP:HB3	2.50	0.42
21:N:436:ASP:HB2	21:N:439:VAL:HG23	2.01	0.42
21:N:436:ASP:HB2	21:N:439:VAL:HB	2.02	0.42
21:N:539:MET:HG2	21:N:547:LEU:HB3	2.02	0.42
21:N:889:ARG:HG3	21:N:913:PRO:O	2.19	0.42
22:O:154:GLU:O	22:O:157:LEU:HB3	2.20	0.42
22:O:224:GLY:O	22:O:225:ASP:OD1	2.36	0.42
22:O:254:LEU:HA	22:O:254:LEU:HD23	1.73	0.42
22:O:301:PHE:HZ	22:O:308:LEU:H	1.67	0.42
22:O:369:ARG:O	22:O:372:GLU:N	2.49	0.42
22:O:381:GLY:HA2	22:O:384:MET:HE3	2.01	0.42
23:P:76:ASN:CG	23:P:118:VAL:HG22	2.40	0.42
23:P:144:VAL:HG22	23:P:156:ALA:HA	2.01	0.42
23:P:207:THR:HG23	23:P:216:LEU:HB2	2.00	0.42
23:P:56:LYS:HZ3	23:P:91:LEU:CB	2.32	0.42
24:Q:8:LEU:HA	24:Q:30:LEU:HD11	2.02	0.42
24:Q:20:TYR:HE1	24:Q:68:MET:HB2	1.79	0.42
24:Q:65:TYR:C	24:Q:71:LYS:H	2.23	0.42
24:Q:75:ARG:NH1	24:Q:116:PHE:HE2	2.17	0.42
25:R:154:LEU:HA	25:R:157:SER:HB2	2.02	0.42
25:R:294:ILE:HA	25:R:297:TYR:CB	2.38	0.42
24:Q:384:LYS:HZ1	25:R:343:GLU:HB3	1.85	0.42
25:R:349:SER:OG	25:R:351:LYS:HB3	2.19	0.42
24:Q:416:VAL:O	25:R:410:LEU:HD21	2.19	0.42
26:S:274:PHE:O	26:S:277:SER:HB2	2.20	0.42
26:S:368:LYS:O	26:S:371:LEU:HB2	2.19	0.42
17:J:43:ARG:HH21	26:S:480:ARG:CZ	2.33	0.42
28:U:53:ALA:HA	28:U:93:TYR:OH	2.19	0.42
29:V:256:GLU:HG3	29:V:260:GLU:OE2	2.20	0.42
29:V:264:GLU:O	29:V:276:PRO:HA	2.19	0.42
30:W:68:GLU:OE2	30:W:69:PHE:HB3	2.20	0.42
30:W:86:HIS:HB2	30:W:90:ALA:HB2	2.00	0.42
31:X:66:LEU:HD23	31:X:99:PHE:CZ	2.55	0.42
32:Y:85:LYS:O	32:Y:89:GLN:HG2	2.19	0.42
33:Z:427:GLN:HA	33:Z:457:ILE:O	2.19	0.42
33:Z:512:ILE:HG12	33:Z:521:GLU:OE1	2.20	0.42
33:Z:858:GLY:HA3	33:Z:862:MET:HG2	2.01	0.42
1:1:144:PHE:N	1:1:144:PHE:CD1	2.87	0.42
1:1:204:ARG:O	1:1:208:THR:HG23	2.19	0.42
1:1:89:ASN:ND2	13:F:97:LEU:HD11	86.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:119:TYR:O	4:4:122:HIS:CD2	2.73	0.42
4:4:69:LYS:HE2	4:4:211:LYS:O	2.20	0.42
5:5:29:LEU:HB3	5:5:37:SER:H	1.85	0.42
1:8:196:VAL:O	1:8:200:ILE:HG13	2.19	0.42
1:8:200:ILE:O	1:8:203:VAL:HB	2.19	0.42
1:8:31:ILE:HG23	1:8:74:ASN:HD22	1.84	0.42
2:9:189:ARG:HA	2:9:192:VAL:O	2.19	0.42
2:9:198:ILE:N	2:9:199:PRO:HD2	2.34	0.42
2:9:198:ILE:O	2:9:201:THR:N	2.45	0.42
2:9:216:VAL:O	2:9:219:TYR:HB2	2.20	0.42
8:A:191:ILE:CD1	8:A:195:ASN:HB2	2.50	0.42
8:A:53:VAL:O	8:A:54:ILE:HD13	2.19	0.42
9:B:34:SER:O	9:B:164:ILE:N	2.35	0.42
9:B:95:THR:HA	9:B:99:ARG:HD2	2.02	0.42
4:4:86:GLN:NE2	9:B:99:ARG:HA	2.35	0.42
11:D:150:THR:HG22	11:D:156:TYR:HB3	2.02	0.42
11:D:47:GLU:HB3	11:D:203:VAL:HG22	2.02	0.42
12:E:192:THR:HG23	12:E:195:GLU:CD	2.40	0.42
12:E:38:ILE:HG12	12:E:171:ALA:CB	2.49	0.42
13:F:171:TYR:CA	13:F:174:ARG:HB3	2.50	0.42
13:F:198:SER:HA	13:F:201:LEU:CD1	2.46	0.42
13:F:35:THR:OG1	13:F:48:ALA:HA	2.20	0.42
14:G:126:TYR:O	14:G:129:VAL:HG23	2.39	0.42
14:G:141:VAL:HG11	14:G:226:GLY:HA2	2.02	0.42
14:G:194:LYS:HB3	14:G:242:PHE:CG	2.55	0.42
16:I:264:CYS:O	16:I:267:ILE:HB	2.19	0.42
16:I:193:GLU:OE1	16:I:348:ILE:HG12	2.20	0.42
15:H:51:GLN:NE2	16:I:91:GLU:HB3	2.35	0.42
17:J:71:TYR:CD2	17:J:117:SER:HA	2.55	0.42
18:K:247:LEU:HD11	18:K:290:ARG:HD2	2.01	0.42
18:K:291:GLU:HA	18:K:294:ARG:CZ	2.50	0.42
18:K:355:THR:O	18:K:358:SER:HB2	2.19	0.42
18:K:61:LEU:O	18:K:65:GLU:HG3	2.20	0.42
18:K:138:ALA:HA	19:L:128:ILE:CD1	2.50	0.42
19:L:286:ILE:C	19:L:301:ILE:HG23	2.39	0.42
19:L:380:VAL:HA	19:L:383:SER:HB2	2.02	0.42
19:L:88:TYR:CD1	20:M:33:ARG:NH2	2.87	0.42
20:M:242:THR:N	20:M:275:PRO:O	2.30	0.42
20:M:334:ASP:OD1	20:M:335:PRO:HD2	2.20	0.42
20:M:356:SER:O	20:M:359:GLN:HB3	2.20	0.42
20:M:391:LEU:O	20:M:394:VAL:HB	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:140:MET:CE	21:N:143:LYS:HD3	2.50	0.42
21:N:445:GLY:O	21:N:448:LEU:HB2	2.19	0.42
21:N:585:ARG:NH2	21:N:616:HIS:CD2	2.88	0.42
21:N:715:ILE:O	21:N:716:GLN:NE2	2.52	0.42
22:O:102:LEU:O	22:O:105:GLN:N	2.42	0.42
22:O:188:PHE:O	22:O:191:THR:HB	2.20	0.42
22:O:190:TYR:OH	22:O:194:LEU:HD21	2.19	0.42
22:O:5:HIS:NE2	22:O:35:GLU:HG2	2.34	0.42
23:P:12:ILE:O	23:P:61:LYS:NZ	2.39	0.42
23:P:273:TYR:HA	23:P:344:ARG:NH2	2.34	0.42
23:P:326:ASP:N	23:P:326:ASP:OD1	2.47	0.42
23:P:363:LEU:O	23:P:366:ASN:N	2.53	0.42
23:P:373:GLU:OE2	23:P:377:GLU:OE2	2.38	0.42
23:P:422:LEU:HD23	23:P:422:LEU:HA	1.68	0.42
24:Q:259:CYS:O	24:Q:262:LEU:HB3	2.19	0.42
24:Q:310:SER:HB3	24:Q:313:ASP:OD2	2.20	0.42
24:Q:420:ASN:HB2	24:Q:424:ASP:OD2	2.19	0.42
25:R:61:PRO:CG	25:R:144:ILE:HG22	2.47	0.42
25:R:304:TYR:O	25:R:307:TYR:N	2.53	0.42
25:R:397:ASN:HB2	25:R:399:GLN:H	1.85	0.42
25:R:406:GLN:O	25:R:410:LEU:HG	2.19	0.42
26:S:171:TYR:HB3	26:S:175:SER:CB	2.48	0.42
26:S:210:LEU:O	26:S:214:MET:N	2.29	0.42
26:S:213:THR:O	26:S:216:LYS:HB2	2.20	0.42
26:S:280:ASN:CA	26:S:283:GLN:HB2	2.30	0.42
26:S:387:VAL:O	26:S:390:THR:HB	2.20	0.42
21:N:23:TYR:CG	27:T:35:ILE:HG21	2.54	0.42
27:T:7:LEU:O	27:T:30:ILE:HD11	2.20	0.42
28:U:210:TYR:CE1	28:U:223:HIS:CD2	3.07	0.42
29:V:44:GLY:O	29:V:47:MET:HG2	2.20	0.42
29:V:69:PHE:HZ	29:V:88:GLN:HA	1.85	0.42
29:V:95:LEU:HD22	29:V:100:ARG:HG2	2.01	0.42
30:W:15:TYR:OH	30:W:149:GLN:NE2	2.52	0.42
31:X:48:PHE:CD2	31:X:66:LEU:HD23	2.55	0.42
31:X:48:PHE:HB2	31:X:66:LEU:HB3	2.01	0.42
31:X:36:LYS:HD3	31:X:49:GLU:HB2	2.02	0.42
33:Z:157:LEU:HD23	33:Z:157:LEU:HA	1.88	0.42
33:Z:574:TYR:CD1	33:Z:575:MET:HA	2.55	0.42
3:3:100:VAL:HG22	14:G:102:LEU:HD11	2.02	0.42
3:3:37:SER:HA	3:3:50:THR:O	2.20	0.42
5:5:191:LYS:N	5:5:194:GLU:O	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:190:VAL:HG22	7:7:196:ARG:HG3	2.02	0.42
7:7:221:TRP:HD1	7:7:222:ASP:OD1	2.03	0.42
7:7:82:ARG:HH21	7:7:185:PRO:HD2	1.85	0.42
7:7:81:PHE:CZ	7:7:88:ILE:HB	2.55	0.42
1:8:204:ARG:O	1:8:208:THR:HG23	2.19	0.42
2:9:116:ALA:O	2:9:119:ALA:N	2.38	0.42
8:A:144:VAL:HG12	8:A:154:ILE:HG12	2.02	0.42
8:A:92:ASN:HD22	8:A:137:LEU:HD11	1.85	0.42
9:B:45:ILE:HD11	9:B:64:VAL:HG13	2.01	0.42
10:C:160:TRP:HA	11:D:56:ASP:H	1.85	0.42
11:D:175:LEU:HA	11:D:175:LEU:HD23	1.91	0.42
11:D:193:LYS:O	11:D:197:ARG:HG3	2.20	0.42
11:D:216:LYS:HB3	11:D:217:PRO:HD2	2.01	0.42
13:F:11:VAL:HG23	14:G:130:ARG:HB2	1.94	0.42
15:H:244:LYS:HB3	15:H:346:ARG:CD	2.49	0.42
15:H:407:ILE:HG21	15:H:422:VAL:HG13	2.02	0.42
17:J:57:PHE:O	17:J:60:ASP:HB2	2.20	0.42
19:L:147:THR:CB	19:L:157:ARG:HB3	2.49	0.42
19:L:288:GLY:HA2	19:L:333:LEU:HA	2.01	0.42
19:L:303:ARG:HG2	19:L:307:GLU:HG3	2.02	0.42
19:L:398:ALA:HB1	19:L:414:ASP:HB3	2.02	0.42
20:M:154:LEU:HD22	20:M:156:LEU:HD23	2.02	0.42
20:M:159:LEU:HA	20:M:160:PRO:HD3	1.80	0.42
21:N:123:PHE:HA	21:N:126:LYS:CE	2.50	0.42
21:N:211:PHE:HD2	21:N:212:ASP:OD1	2.03	0.42
21:N:9:LEU:HD13	21:N:28:ILE:HA	2.01	0.42
21:N:327:LEU:HD21	29:V:164:LEU:HD21	2.02	0.42
21:N:441:VAL:O	21:N:444:HIS:N	2.53	0.42
21:N:669:GLU:O	21:N:671:LEU:N	2.47	0.42
21:N:376:LYS:NZ	21:N:750:SER:C	2.73	0.42
21:N:85:ALA:C	21:N:87:ASP:H	2.22	0.42
21:N:90:ASP:HB3	21:N:93:GLU:CG	2.46	0.42
22:O:190:TYR:HD1	22:O:193:LEU:HD23	1.85	0.42
22:O:234:LEU:O	22:O:239:MET:HG2	2.20	0.42
22:O:267:ASP:HA	22:O:270:ILE:CG2	2.49	0.42
22:O:289:GLN:HG2	22:O:293:LEU:HD22	2.01	0.42
22:O:311:GLU:HB3	22:O:315:LYS:HZ1	1.80	0.42
22:O:369:ARG:CZ	22:O:373:TRP:NE1	2.83	0.42
22:O:78:VAL:HG12	22:O:83:LEU:HD12	2.01	0.42
23:P:116:ILE:HG12	23:P:143:LEU:HD21	2.02	0.42
23:P:228:SER:HA	23:P:231:LYS:CD	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:263:HIS:C	23:P:266:TYR:HB3	2.40	0.42
23:P:303:PHE:HB3	23:P:348:HIS:NE2	2.34	0.42
23:P:419:VAL:HG12	23:P:423:LEU:HG	2.01	0.42
23:P:72:TRP:CZ3	23:P:103:TYR:HB2	2.55	0.42
24:Q:264:TYR:O	24:Q:268:SER:OG	2.29	0.42
24:Q:404:ASN:HD21	25:R:393:PRO:HG2	1.85	0.42
24:Q:40:ALA:CA	24:Q:46:VAL:HA	2.42	0.42
25:R:171:MET:CE	25:R:206:ARG:HB3	2.50	0.42
25:R:205:GLU:HA	25:R:208:ASN:ND2	2.34	0.42
25:R:336:LYS:O	25:R:339:ALA:N	2.50	0.42
26:S:21:SER:C	26:S:22:GLU:HG2	2.39	0.42
26:S:15:VAL:HG11	26:S:30:GLN:CB	2.50	0.42
26:S:474:GLU:HA	26:S:477:VAL:HB	2.01	0.42
28:U:120:LEU:HD21	28:U:122:ILE:HG13	2.02	0.42
30:W:109:ARG:HA	30:W:138:ALA:O	2.20	0.42
30:W:172:LEU:HD22	30:W:188:SER:HB3	2.02	0.42
31:X:8:ILE:HG22	31:X:10:PHE:CZ	2.55	0.42
31:X:48:PHE:HZ	31:X:68:LEU:HD22	1.85	0.42
33:Z:113:SER:CB	33:Z:143:VAL:HB	2.49	0.42
33:Z:233:LEU:HD23	33:Z:268:ALA:CB	2.49	0.42
1:1:168:PHE:CD2	1:1:169:LEU:HD12	2.48	0.42
1:1:196:VAL:O	1:1:200:ILE:HG13	2.19	0.42
1:1:54:ILE:HD13	1:1:219:ASP:OD2	2.19	0.42
1:1:75:GLY:HA3	1:1:126:VAL:HA	2.02	0.42
2:2:136:ARG:HB3	2:2:142:PRO:HA	2.01	0.42
2:2:152:VAL:HG11	2:2:235:LYS:CA	2.50	0.42
4:4:189:GLN:O	4:4:193:TRP:CD1	2.73	0.42
5:5:101:GLY:O	6:6:93:ARG:NH1	2.52	0.42
5:5:193:ASP:N	5:5:193:ASP:OD1	2.52	0.42
6:6:7:ILE:HA	6:6:130:TYR:HA	2.01	0.42
6:6:158:LEU:HB3	6:6:198:GLN:NE2	2.35	0.42
1:8:30:THR:HA	1:8:74:ASN:HD21	1.72	0.42
1:8:93:TRP:O	1:8:97:ASP:N	2.41	0.42
1:8:22:ASN:O	2:9:166:LEU:HD21	2.19	0.42
8:A:52:VAL:HG11	8:A:203:VAL:HG22	2.01	0.42
8:A:81:MET:HB2	8:A:143:PHE:CD1	2.55	0.42
10:C:24:TYR:HA	10:C:27:GLU:CB	2.47	0.42
5:5:73:LEU:HD21	10:C:96:GLN:HG3	2.02	0.42
11:D:31:THR:HG22	11:D:166:ARG:CZ	2.50	0.42
12:E:118:ASP:O	12:E:122:ARG:NE	2.53	0.42
12:E:165:TYR:HE1	13:F:60:GLN:HB2	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:167:TYR:CG	12:E:170:LYS:HB2	2.55	0.42
12:E:40:ILE:O	12:E:47:VAL:N	2.53	0.42
12:E:61:SER:HA	12:E:64:ILE:HD12	2.02	0.42
13:F:11:VAL:HA	14:G:130:ARG:HB2	2.65	0.42
13:F:126:ARG:HH12	13:F:128:TYR:HA	1.85	0.42
13:F:134:ILE:O	13:F:145:LEU:N	2.34	0.42
15:H:220:LYS:HD2	15:H:375:VAL:HG22	2.02	0.42
15:H:225:VAL:HG12	15:H:229:LEU:HD12	2.01	0.42
15:H:317:ALA:CB	15:H:363:PRO:HD3	2.41	0.42
15:H:420:ARG:HB3	15:H:424:THR:OG1	2.20	0.42
16:I:250:SER:HA	16:I:253:ILE:HB	2.01	0.42
17:J:164:ILE:O	17:J:168:VAL:N	2.44	0.42
17:J:180:ALA:HB1	17:J:183:LYS:HZ1	1.80	0.42
17:J:46:ALA:CA	17:J:49:ASN:HD22	2.29	0.42
18:K:259:ARG:O	18:K:263:GLU:HG3	2.20	0.42
18:K:369:ASP:O	18:K:372:ILE:HG22	2.20	0.42
18:K:71:GLU:OE2	21:N:609:LEU:HD21	2.20	0.42
19:L:199:LEU:HD23	19:L:199:LEU:HA	1.79	0.42
19:L:236:ALA:HA	19:L:277:ILE:HG13	2.02	0.42
19:L:249:SER:HB2	20:M:303:ARG:HE	1.85	0.42
19:L:258:GLU:OE1	19:L:261:ARG:NH2	2.52	0.42
19:L:370:LYS:HD3	19:L:374:PHE:CE1	2.54	0.42
19:L:67:HIS:HA	19:L:70:TYR:CD2	2.54	0.42
15:H:155:PHE:HZ	20:M:78:LEU:HG	1.84	0.42
21:N:202:PHE:O	21:N:205:SER:HB2	2.19	0.42
21:N:381:GLU:HA	21:N:384:LYS:HZ3	1.85	0.42
21:N:391:PRO:HG3	21:N:405:LEU:HD21	2.02	0.42
21:N:36:TRP:CB	21:N:68:VAL:HG22	2.49	0.42
21:N:666:GLN:NE2	21:N:712:ASN:HA	2.34	0.42
22:O:150:LEU:HA	22:O:153:LEU:HB3	2.02	0.42
22:O:311:GLU:HB3	22:O:315:LYS:HZ2	1.79	0.42
22:O:384:MET:HG3	22:O:385:GLU:N	2.35	0.42
22:O:3:ASN:HA	22:O:6:GLU:OE1	2.19	0.42
23:P:258:LYS:HZ2	23:P:290:LEU:CD1	2.24	0.42
23:P:343:LYS:HG2	23:P:379:TYR:CE1	2.55	0.42
23:P:426:ILE:HG21	29:V:233:LYS:CD	2.50	0.42
23:P:91:LEU:HD22	23:P:95:TYR:OH	2.20	0.42
24:Q:140:LYS:O	24:Q:144:LEU:HG	2.19	0.42
24:Q:230:LYS:O	24:Q:231:ASP:HB2	2.19	0.42
24:Q:305:ALA:HA	24:Q:308:ASN:HB2	2.02	0.42
23:P:385:ASN:ND2	24:Q:349:LYS:HE3	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:384:LYS:HD2	24:Q:384:LYS:N	2.35	0.42
24:Q:77:PHE:O	24:Q:81:SER:N	2.36	0.42
25:R:323:ASN:O	25:R:326:ALA:N	2.53	0.42
25:R:325:HIS:CG	25:R:326:ALA:N	2.87	0.42
26:S:181:ALA:HA	26:S:184:TRP:HB2	2.01	0.42
27:T:63:GLU:HG2	27:T:105:LEU:HD11	2.02	0.42
27:T:11:LEU:O	27:T:15:PHE:N	2.44	0.42
27:T:146:ILE:HG23	27:T:147:LYS:N	2.34	0.42
26:S:438:HIS:CD2	27:T:197:TYR:HH	2.36	0.42
28:U:124:ASP:HB3	28:U:133:PRO:HB2	2.00	0.42
28:U:15:LEU:O	28:U:18:ALA:HB3	2.19	0.42
28:U:163:ALA:CA	28:U:164:GLU:HB2	2.50	0.42
28:U:29:GLU:OE2	28:U:126:LYS:NZ	2.52	0.42
28:U:19:LEU:HD12	29:V:209:GLU:OE2	2.19	0.42
31:X:17:TYR:OH	31:X:62:ASP:HA	2.19	0.42
33:Z:124:MET:SD	33:Z:129:ASN:HA	2.59	0.42
33:Z:446:GLU:O	33:Z:450:GLY:N	2.52	0.42
33:Z:490:ILE:HG23	33:Z:529:ALA:CB	2.50	0.42
33:Z:535:VAL:HG11	33:Z:875:LYS:O	2.19	0.42
33:Z:925:VAL:HA	33:Z:993:GLU:HA	2.02	0.42
1:1:119:LYS:CB	1:1:123:PRO:HA	2.48	0.41
1:1:145:ASP:OD2	1:1:147:VAL:HG22	2.20	0.41
1:1:156:ARG:NH1	1:1:166:MET:HE2	2.35	0.41
1:1:218:GLY:HA2	1:1:238:LEU:CB	2.49	0.41
1:1:46:THR:HG22	1:1:59:GLU:N	2.34	0.41
2:2:136:ARG:HD2	2:2:136:ARG:HA	1.80	0.41
3:3:180:GLN:NE2	3:3:184:TRP:HE1	2.17	0.41
4:4:178:GLU:HA	4:4:181:ILE:HD12	2.02	0.41
2:2:186:PRO:HB3	4:4:194:ASN:OD1	2.20	0.41
4:4:242:LEU:HG	5:5:201:LYS:N	2.35	0.41
5:5:89:GLN:HG3	9:B:101:TYR:O	2.20	0.41
6:6:119:ILE:HG12	6:6:125:LYS:HG3	2.01	0.41
6:6:36:ARG:HG2	6:6:46:PHE:CE2	2.53	0.41
6:6:87:GLU:O	6:6:90:LYS:HB2	2.20	0.41
1:8:75:GLY:HA3	1:8:126:VAL:HA	2.02	0.41
1:8:153:GLU:OE1	1:8:156:ARG:HB2	2.20	0.41
1:8:32:LEU:HB3	1:8:207:PHE:HZ	1.85	0.41
1:8:39:PHE:HA	1:8:133:LEU:HD21	2.01	0.41
2:9:124:TYR:CD1	13:F:99:PHE:O	2.73	0.41
2:9:179:PHE:CD2	2:9:217:LEU:HD22	2.55	0.41
2:9:43:SER:C	2:9:74:ARG:HH12	2.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:191:ILE:HD11	8:A:195:ASN:HB2	2.02	0.41
8:A:30:TYR:O	14:G:19:GLY:HA3	2.20	0.41
8:A:93:ALA:O	8:A:96:ARG:HB2	2.20	0.41
9:B:77:GLY:CA	9:B:132:VAL:HG12	2.51	0.41
10:C:168:ASN:HB3	10:C:171:ALA:HB3	2.02	0.41
10:C:218:LYS:HE3	10:C:223:GLY:CA	2.46	0.41
12:E:98:THR:HG22	12:E:102:TYR:CE2	2.55	0.41
12:E:165:TYR:HB3	13:F:57:SER:HB2	2.00	0.41
12:E:15:PHE:HA	12:E:21:LEU:HD23	2.02	0.41
12:E:239:LEU:O	12:E:242:GLU:HB3	3.28	0.41
12:E:244:LYS:NZ	12:E:244:LYS:CB	2.82	0.41
13:F:182:ILE:HG22	13:F:189:LEU:HG	2.02	0.41
14:G:135:SER:HA	14:G:151:LEU:O	2.20	0.41
14:G:35:THR:HG21	14:G:66:LYS:HZ3	1.85	0.41
13:F:157:TYR:CZ	14:G:60:VAL:HA	2.54	0.41
15:H:321:ASP:OD2	15:H:330:GLN:HG2	2.20	0.41
15:H:445:LYS:HA	15:H:448:ASP:HB2	2.01	0.41
16:I:122:SER:HG	16:I:124:THR:HG1	1.59	0.41
18:K:100:LEU:HD21	18:K:111:SER:OG	2.20	0.41
18:K:128:ARG:HE	29:V:272:GLY:H	1.66	0.41
19:L:239:ILE:HD12	19:L:277:ILE:HD11	2.00	0.41
19:L:163:THR:OG1	19:L:265:GLU:OE1	2.38	0.41
19:L:391:ILE:O	19:L:394:CYS:N	2.53	0.41
19:L:398:ALA:N	19:L:418:ALA:HB2	2.35	0.41
20:M:243:PHE:CE2	20:M:245:LYS:HB2	2.55	0.41
20:M:371:ASP:OD2	20:M:411:LYS:HB3	2.20	0.41
21:N:211:PHE:CD1	21:N:225:LEU:HD13	2.55	0.41
21:N:226:ASN:O	21:N:230:VAL:HG23	2.20	0.41
21:N:293:LEU:HA	21:N:296:CYS:SG	2.60	0.41
21:N:473:ASP:HA	21:N:513:ILE:HD13	2.01	0.41
21:N:568:VAL:O	21:N:571:LEU:HB2	2.20	0.41
21:N:338:PHE:CE2	21:N:701:VAL:HG13	2.55	0.41
21:N:871:MET:HB3	21:N:872:THR:H	1.60	0.41
21:N:60:MET:SD	21:N:88:ARG:HD2	2.60	0.41
22:O:219:ILE:O	22:O:222:LEU:N	2.52	0.41
22:O:185:PHE:HB2	22:O:223:LEU:C	2.40	0.41
22:O:252:PHE:O	22:O:255:LEU:HB3	2.19	0.41
23:P:184:MET:HE3	23:P:200:SER:HB3	2.01	0.41
23:P:220:TYR:HA	23:P:223:LEU:HD12	2.02	0.41
23:P:255:ALA:HA	23:P:258:LYS:CE	2.46	0.41
23:P:432:LEU:HD23	23:P:435:LYS:HD3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:71:LYS:CB	23:P:74:ASP:H	2.33	0.41
23:P:94:GLN:HA	23:P:97:ILE:HD12	2.02	0.41
24:Q:11:ALA:O	24:Q:23:ALA:HB1	2.20	0.41
25:R:382:ASP:OD2	25:R:385:ASN:HB3	2.20	0.41
25:R:64:LYS:HA	25:R:94:PHE:CE2	2.54	0.41
26:S:56:SER:CB	26:S:129:GLU:CB	2.98	0.41
26:S:423:VAL:HG11	26:S:436:ILE:CD1	2.50	0.41
27:T:70:ILE:HB	27:T:78:PHE:CD1	2.54	0.41
28:U:78:GLU:O	28:U:82:LYS:HG3	2.19	0.41
29:V:232:GLU:C	29:V:235:GLU:H	2.23	0.41
29:V:250:GLN:O	29:V:254:ARG:HG3	2.20	0.41
29:V:260:GLU:HA	29:V:263:GLU:CD	2.41	0.41
30:W:98:LEU:HD11	30:W:109:ARG:O	2.20	0.41
30:W:67:ALA:N	30:W:68:GLU:HB2	2.35	0.41
30:W:6:THR:O	30:W:50:GLY:N	2.53	0.41
33:Z:208:VAL:HB	33:Z:209:PRO:HD3	2.00	0.41
33:Z:292:ASP:HA	33:Z:295:ARG:HD2	2.02	0.41
33:Z:436:LEU:HB3	33:Z:451:ALA:HB1	2.02	0.41
33:Z:510:LEU:HA	33:Z:513:ALA:HB3	2.01	0.41
33:Z:823:ASN:HA	33:Z:831:LEU:HD12	2.01	0.41
2:2:145:ASN:H	2:2:165:LEU:HB3	1.85	0.41
2:2:179:PHE:CD2	2:2:217:LEU:HD22	2.55	0.41
2:2:216:VAL:O	2:2:219:TYR:HB2	2.20	0.41
2:2:221:ASP:OD2	2:2:223:ARG:HB2	2.19	0.41
2:2:53:VAL:O	2:2:232:ILE:HG23	2.19	0.41
2:2:226:ARG:HG2	2:2:246:GLN:CG	2.50	0.41
2:2:59:ASN:O	2:2:72:VAL:N	2.47	0.41
3:3:108:ASN:C	3:3:112:LEU:HG	2.40	0.41
3:3:80:TYR:CD1	8:A:106:TYR:HB2	2.55	0.41
4:4:185:SER:O	4:4:189:GLN:HG3	2.20	0.41
5:5:113:ASN:OD1	5:5:115:LYS:N	2.53	0.41
5:5:14:ALA:HA	5:5:22:ALA:O	2.19	0.41
5:5:46:TYR:CG	5:5:71:THR:HG21	2.55	0.41
6:6:22:THR:HG23	6:6:26:SER:O	2.21	0.41
6:6:49:GLU:O	6:6:53:THR:HG22	2.20	0.41
7:7:130:TRP:NE1	1:8:117:TYR:OH	2.52	0.41
7:7:119:THR:HG1	7:7:175:MET:N	2.15	0.41
2:9:152:VAL:HG22	2:9:158:GLN:HA	2.02	0.41
2:9:95:HIS:CE1	2:9:99:LEU:HD21	2.55	0.41
8:A:26:TYR:HB3	8:A:30:TYR:CE2	2.56	0.41
9:B:109:LEU:O	9:B:113:GLU:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:42:GLY:HA2	9:B:145:PHE:CZ	2.56	0.41
9:B:79:GLY:O	9:B:83:ARG:N	2.54	0.41
9:B:92:VAL:HA	9:B:95:THR:OG1	2.20	0.41
10:C:231:LYS:HE3	10:C:231:LYS:HB3	1.82	0.41
12:E:232:ASP:HB2	12:E:234:GLU:OE1	2.20	0.41
13:F:171:TYR:HB3	13:F:199:GLN:HG3	2.02	0.41
13:F:28:ALA:HA	13:F:31:GLN:HB3	2.01	0.41
14:G:113:ALA:O	14:G:116:LEU:N	2.53	0.41
14:G:67:ILE:HG21	14:G:217:SER:OG	2.20	0.41
15:H:99:VAL:HB	15:H:149:LEU:O	2.20	0.41
15:H:223:GLU:HB3	20:M:404:ARG:NH2	2.34	0.41
15:H:197:MET:HG3	15:H:278:GLU:CG	2.50	0.41
15:H:173:ARG:CZ	16:I:127:ASP:O	2.68	0.41
17:J:142:VAL:HA	17:J:208:CYS:O	2.21	0.41
17:J:211:ILE:HB	17:J:245:ILE:HA	2.01	0.41
17:J:297:LEU:HD22	17:J:305:LEU:HD11	2.01	0.41
18:K:236:ARG:HA	18:K:270:PHE:HB3	2.01	0.41
18:K:386:ILE:HA	18:K:389:GLU:HB3	2.01	0.41
18:K:56:LYS:HZ3	21:N:196:THR:CG2	2.34	0.41
19:L:164:ASP:HB3	19:L:265:GLU:HG2	2.02	0.41
19:L:357:ARG:HD3	19:L:386:PHE:N	2.29	0.41
19:L:371:THR:CG2	19:L:409:HIS:HD2	2.33	0.41
20:M:319:ASP:O	20:M:322:LYS:HE2	2.20	0.41
20:M:29:GLU:HA	20:M:32:THR:OG1	2.20	0.41
20:M:333:LEU:HD11	20:M:346:LYS:NZ	2.35	0.41
21:N:111:GLN:HA	21:N:114:SER:HB3	2.02	0.41
21:N:223:LEU:HD12	21:N:226:ASN:HB3	2.02	0.41
21:N:237:LEU:HA	21:N:240:GLN:OE1	2.20	0.41
21:N:253:LEU:HD23	21:N:257:ILE:HD12	2.02	0.41
21:N:381:GLU:N	21:N:381:GLU:OE1	2.32	0.41
21:N:62:ALA:HB1	21:N:81:TYR:HB3	2.02	0.41
22:O:179:PHE:HA	22:O:182:LYS:HB2	2.02	0.41
22:O:330:ARG:HG3	22:O:334:LEU:CD2	2.50	0.41
22:O:377:VAL:O	22:O:380:LEU:N	2.53	0.41
23:P:112:LEU:O	23:P:116:ILE:HG13	2.19	0.41
23:P:160:LEU:HD23	23:P:186:LEU:HD12	2.02	0.41
23:P:235:LEU:HA	23:P:268:LEU:HD23	2.01	0.41
24:Q:9:GLU:O	24:Q:12:ARG:HB3	2.20	0.41
24:Q:358:GLU:HG3	24:Q:395:GLY:O	2.19	0.41
24:Q:396:TRP:N	24:Q:396:TRP:CD1	2.87	0.41
24:Q:405:GLN:NE2	25:R:394:ASP:C	2.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:273:SER:HB2	25:R:276:LEU:H	1.85	0.41
25:R:350:LEU:HB2	25:R:388:VAL:HG23	2.02	0.41
25:R:95:ASP:CG	25:R:97:GLU:HB2	2.41	0.41
26:S:238:LEU:O	26:S:241:PHE:HB2	2.20	0.41
26:S:248:ASP:O	26:S:251:SER:N	2.47	0.41
26:S:329:GLU:C	26:S:331:SER:N	2.71	0.41
28:U:197:LEU:HD11	28:U:201:GLN:HB2	2.01	0.41
29:V:109:HIS:O	29:V:141:VAL:HB	2.19	0.41
29:V:195:HIS:CG	29:V:196:TYR:N	2.88	0.41
29:V:249:GLU:O	29:V:252:SER:N	2.52	0.41
29:V:29:ILE:HB	29:V:203:TYR:CB	2.50	0.41
29:V:34:LEU:O	29:V:38:LEU:HG	2.20	0.41
28:U:57:GLU:CB	30:W:100:HIS:HE2	2.31	0.41
30:W:104:LYS:C	30:W:106:GLN:H	2.23	0.41
30:W:85:LEU:CD1	30:W:118:ILE:HA	2.51	0.41
30:W:154:LEU:HD23	30:W:154:LEU:HA	1.87	0.41
31:X:121:ILE:HA	31:X:124:LYS:HB2	2.01	0.41
31:X:59:ARG:HH21	31:X:61:LEU:HD21	1.85	0.41
33:Z:307:HIS:HA	33:Z:310:LEU:HB3	2.02	0.41
33:Z:416:THR:CA	33:Z:450:GLY:HA2	2.43	0.41
33:Z:758:LEU:HD13	33:Z:787:ASP:CG	2.40	0.41
1:1:119:LYS:HZ1	1:1:122:PHE:HD2	1.65	0.41
1:1:145:ASP:CG	1:1:147:VAL:HG22	2.40	0.41
1:1:215:ILE:HG13	1:1:216:GLN:HG3	2.03	0.41
3:3:151:THR:HA	3:3:154:TYR:CD2	2.55	0.41
3:3:37:SER:OG	3:3:190:GLY:HA3	2.20	0.41
4:4:164:MET:SD	4:4:168:GLU:HG2	2.60	0.41
5:5:73:LEU:CD2	10:C:96:GLN:HG3	2.50	0.41
6:6:172:MET:HA	6:6:173:PRO:HD3	1.92	0.41
1:8:108:ALA:O	1:8:112:ILE:HG13	2.20	0.41
2:9:84:VAL:HG12	2:9:86:ILE:HG13	2.03	0.41
8:A:156:LYS:HB3	8:A:166:TYR:CE1	2.56	0.41
8:A:36:ASN:HB3	8:A:173:PRO:HG3	2.02	0.41
4:4:90:SER:OG	9:B:94:HIS:CD2	2.72	0.41
10:C:207:THR:O	10:C:210:ARG:N	2.52	0.41
11:D:119:ARG:HB2	11:D:119:ARG:NH1	2.35	0.41
11:D:11:PHE:N	12:E:23:GLN:NE2	2.68	0.41
11:D:66:LYS:HG3	11:D:68:ASP:O	2.20	0.41
12:E:15:PHE:HB2	13:F:24:TYR:CB	2.51	0.41
12:E:44:GLU:HB2	12:E:193:LEU:HB2	2.02	0.41
12:E:211:LYS:C	12:E:216:ASN:HD21	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:215:ILE:O	13:F:223:THR:N	2.52	0.41
14:G:87:HIS:NE2	14:G:119:TYR:OH	2.53	0.41
8:A:63:LEU:HD22	14:G:176:LEU:HB3	2.02	0.41
14:G:85:GLY:O	14:G:89:VAL:HG23	2.20	0.41
15:H:147:ILE:HD13	15:H:156:VAL:HA	2.03	0.41
15:H:77:ALA:CB	15:H:170:GLU:HB3	2.49	0.41
15:H:185:LEU:HB2	15:H:186:PRO:HD3	2.02	0.41
15:H:407:ILE:HD13	15:H:440:GLU:OE2	2.21	0.41
16:I:400:GLY:O	16:I:404:LEU:HG	2.20	0.41
17:J:31:GLU:O	17:J:35:ARG:N	2.27	0.41
17:J:153:LEU:HD11	17:J:327:ILE:HD11	2.02	0.41
18:K:116:MET:HB3	18:K:118:TYR:CE2	2.56	0.41
18:K:281:ARG:NH2	18:K:284:ALA:HA	2.35	0.41
18:K:247:LEU:HD21	18:K:290:ARG:HD3	2.03	0.41
18:K:270:PHE:CZ	18:K:317:ALA:HB2	2.53	0.41
18:K:353:PHE:HB3	18:K:368:LEU:HB3	2.02	0.41
18:K:371:LEU:HD11	18:K:407:LEU:HD13	2.03	0.41
19:L:135:VAL:HG12	19:L:155:ILE:HG21	2.02	0.41
18:K:155:ASP:CB	19:L:142:LYS:NZ	2.82	0.41
19:L:246:SER:HB2	19:L:266:MET:SD	2.60	0.41
19:L:182:GLY:CA	19:L:363:ILE:HG21	2.51	0.41
19:L:363:ILE:HG23	19:L:367:LYS:HZ1	1.82	0.41
20:M:201:MET:HA	20:M:319:ASP:CG	2.41	0.41
20:M:236:ALA:HA	20:M:277:ILE:HD12	2.02	0.41
20:M:258:GLU:O	20:M:262:LEU:HG	2.20	0.41
21:N:423:LEU:O	21:N:427:ILE:N	2.34	0.41
21:N:495:PRO:HB2	21:N:499:HIS:CE1	2.55	0.41
21:N:504:TYR:CA	21:N:507:GLU:HB3	2.47	0.41
21:N:575:ALA:HB2	21:N:587:ALA:HB3	2.02	0.41
21:N:769:PRO:HG3	21:N:890:PHE:HE2	1.79	0.41
22:O:302:VAL:HG13	22:O:303:LYS:N	2.34	0.41
23:P:193:TYR:O	23:P:196:ALA:HB3	2.20	0.41
23:P:210:ASN:HB3	23:P:213:TYR:CE2	2.55	0.41
24:Q:131:VAL:HA	24:Q:134:LYS:CE	2.50	0.41
24:Q:212:THR:HG22	24:Q:245:SER:HB3	2.02	0.41
24:Q:275:ILE:HD13	24:Q:303:ALA:HB1	2.01	0.41
24:Q:279:LYS:O	24:Q:282:LEU:N	2.53	0.41
24:Q:380:MET:HG3	24:Q:385:ILE:HB	2.02	0.41
24:Q:53:GLU:O	24:Q:56:THR:HB	2.19	0.41
24:Q:75:ARG:C	24:Q:120:LYS:NZ	2.74	0.41
24:Q:98:LYS:HG2	24:Q:102:GLU:CD	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:439:GLU:CD	27:T:201:PRO:HD3	2.41	0.41
26:S:451:ILE:HG13	26:S:453:ASP:CG	2.40	0.41
26:S:471:LEU:HD22	28:U:292:ILE:HD12	1.72	0.41
27:T:111:LEU:HB3	27:T:174:PHE:CE1	2.55	0.41
27:T:179:ASP:O	27:T:182:LYS:HB2	2.21	0.41
22:O:384:MET:SD	28:U:190:LEU:HD13	2.60	0.41
28:U:265:LEU:O	28:U:268:LYS:HB2	2.20	0.41
28:U:291:LEU:HD13	28:U:295:LYS:HE3	2.02	0.41
30:W:15:TYR:CD2	30:W:115:CYS:HA	2.55	0.41
30:W:1:MET:HB2	30:W:43:SER:HB3	2.02	0.41
30:W:23:ARG:HE	30:W:27:GLU:CG	2.29	0.41
33:Z:497:PHE:HD1	33:Z:500:SER:HB2	1.85	0.41
33:Z:765:MET:N	33:Z:776:VAL:HG21	2.34	0.41
33:Z:848:THR:O	33:Z:852:GLN:N	2.29	0.41
33:Z:389:PHE:O	33:Z:857:LEU:HG	2.20	0.41
1:1:153:GLU:OE1	1:1:156:ARG:HB2	2.20	0.41
1:1:175:PHE:CD2	1:1:191:LEU:HD23	2.55	0.41
1:1:185:GLY:HA3	4:4:240:ALA:CB	2.48	0.41
2:2:43:SER:C	2:2:74:ARG:HH12	2.24	0.41
3:3:103:GLU:OE2	3:3:107:GLU:HG3	2.20	0.41
3:3:162:ARG:NH2	3:3:169:GLU:HB3	2.35	0.41
4:4:141:SER:O	4:4:148:THR:HA	2.21	0.41
4:4:225:ARG:HH22	5:5:152:SER:HA	1.85	0.41
5:5:16:THR:HG23	5:5:121:ILE:HD13	2.03	0.41
4:4:245:SER:N	5:5:197:LYS:O	2.42	0.41
6:6:39:SER:OG	6:6:42:THR:N	2.54	0.41
8:A:79:ILE:HA	8:A:145:SER:HB3	2.03	0.41
9:B:16:GLY:HA3	10:C:28:SER:HB2	2.01	0.41
9:B:216:ASP:O	9:B:234:ARG:HA	2.20	0.41
11:D:135:ILE:N	11:D:148:TYR:O	2.54	0.41
11:D:149:GLN:O	11:D:156:TYR:HA	2.20	0.41
12:E:157:HIS:CE1	12:E:159:GLU:HG2	2.56	0.41
13:F:156:LEU:HA	14:G:58:LEU:O	2.21	0.41
13:F:204:GLU:HG3	13:F:205:SER:O	2.21	0.41
13:F:63:ILE:HA	13:F:73:SER:HA	2.02	0.41
8:A:66:PRO:HD3	14:G:161:LYS:HE3	2.01	0.41
14:G:232:LYS:HA	14:G:236:LEU:HD22	2.02	0.41
16:I:172:LYS:HZ1	16:I:234:LYS:HZ2	1.69	0.41
16:I:249:GLY:O	16:I:253:ILE:N	2.53	0.41
16:I:355:LEU:HD23	16:I:358:LYS:NZ	2.35	0.41
17:J:114:CYS:CB	17:J:123:HIS:HB3	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:210:PHE:CE1	17:J:246:PHE:HB2	2.56	0.41
17:J:26:LYS:HB2	17:J:26:LYS:HE3	1.69	0.41
17:J:331:HIS:HD2	17:J:358:VAL:HG12	1.85	0.41
18:K:356:ILE:HG21	18:K:387:MET:HB3	2.01	0.41
19:L:147:THR:HB	19:L:157:ARG:N	2.35	0.41
20:M:357:ARG:NH2	20:M:385:GLU:H	2.18	0.41
20:M:368:MET:HB3	20:M:410:VAL:CG2	2.51	0.41
20:M:401:ILE:HD13	20:M:417:GLU:CB	2.50	0.41
21:N:209:LYS:O	21:N:213:PHE:N	2.39	0.41
21:N:277:LEU:HG	21:N:282:TYR:HB3	2.01	0.41
21:N:9:LEU:HD13	21:N:28:ILE:HG12	2.03	0.41
21:N:372:GLY:O	21:N:376:LYS:N	2.54	0.41
21:N:464:GLU:O	21:N:465:ALA:C	2.58	0.41
21:N:526:TYR:H	21:N:528:ARG:HG3	1.85	0.41
21:N:731:VAL:HB	21:N:751:LEU:CD1	2.50	0.41
22:O:273:GLN:O	22:O:276:LYS:HE2	2.19	0.41
22:O:30:GLU:HG3	22:O:40:GLN:OE1	2.20	0.41
23:P:168:TYR:OH	23:P:175:GLU:HG2	2.21	0.41
23:P:214:GLU:O	23:P:217:LYS:HB2	2.20	0.41
23:P:217:LYS:HA	23:P:217:LYS:HD3	1.90	0.41
23:P:223:LEU:O	23:P:227:ILE:HG13	2.21	0.41
23:P:430:GLY:O	23:P:433:ILE:N	2.37	0.41
23:P:53:ALA:O	23:P:54:SER:OG	2.30	0.41
24:Q:155:LEU:HD11	24:Q:188:LEU:CD1	2.50	0.41
24:Q:277:ASP:O	24:Q:281:ILE:HG13	2.20	0.41
24:Q:97:LEU:HD21	24:Q:121:SER:HB3	2.01	0.41
25:R:109:LYS:HB3	25:R:140:TYR:CE2	2.56	0.41
25:R:57:GLU:OE1	25:R:143:GLN:HB3	2.19	0.41
25:R:163:SER:OG	25:R:166:ALA:N	2.41	0.41
25:R:331:ARG:NH1	25:R:370:LYS:HD2	2.33	0.41
25:R:351:LYS:N	25:R:386:GLY:O	2.33	0.41
25:R:66:LEU:HD12	25:R:69:GLU:CB	2.50	0.41
26:S:356:ASP:CB	26:S:359:LYS:HE3	2.45	0.41
27:T:131:LYS:HB2	27:T:135:ASN:ND2	2.35	0.41
22:O:367:LYS:NZ	28:U:201:GLN:OE1	2.39	0.41
28:U:205:LYS:O	28:U:209:GLU:HG3	2.21	0.41
28:U:37:ILE:HA	28:U:51:SER:CB	2.50	0.41
28:U:67:PHE:CE1	30:W:97:THR:HA	2.55	0.41
28:U:75:ASN:HA	28:U:78:GLU:CD	2.41	0.41
29:V:194:ARG:O	29:V:195:HIS:HB2	2.21	0.41
29:V:256:GLU:OE1	29:V:256:GLU:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:281:SER:C	29:V:283:THR:N	2.73	0.41
30:W:6:THR:HA	30:W:109:ARG:HB3	2.01	0.41
30:W:52:ILE:HA	30:W:62:LEU:H	1.85	0.41
30:W:56:GLY:CA	30:W:83:GLY:HA3	2.51	0.41
33:Z:130:GLY:O	33:Z:157:LEU:HD21	2.20	0.41
33:Z:202:ARG:O	33:Z:206:ASP:N	2.54	0.41
33:Z:225:LEU:HD13	33:Z:257:PRO:HG3	2.03	0.41
33:Z:516:THR:HG23	33:Z:562:TRP:CG	2.55	0.41
33:Z:539:ASN:HB3	33:Z:542:ILE:CG2	2.48	0.41
33:Z:557:GLU:OE1	33:Z:562:TRP:CD1	2.74	0.41
33:Z:537:THR:N	33:Z:573:LEU:O	2.54	0.41
1:1:206:SER:HA	1:1:209:SER:HB2	2.02	0.41
2:2:60:LEU:HB2	2:2:70:ASN:ND2	2.36	0.41
3:3:22:ILE:HD12	3:3:63:CYS:HB3	2.03	0.41
5:5:11:ILE:N	5:5:26:ASP:OD1	2.38	0.41
6:6:193:ASP:OD1	6:6:194:ASP:N	2.54	0.41
6:6:34:LYS:HE2	6:6:34:LYS:HB2	1.91	0.41
6:6:66:LEU:CD2	6:6:70:ARG:HH22	2.33	0.41
7:7:82:ARG:HA	7:7:87:ILE:HG12	2.02	0.41
7:7:128:GLN:NE2	1:8:150:TYR:O	2.51	0.41
1:8:220:GLY:O	1:8:238:LEU:HD12	2.21	0.41
2:9:207:GLU:O	2:9:210:ILE:HB	2.20	0.41
2:9:254:PHE:CA	2:9:256:LYS:NZ	2.82	0.41
8:A:104:PHE:CD2	8:A:108:TYR:CD2	3.08	0.41
8:A:130:GLN:HG3	9:B:128:ARG:HG3	2.03	0.41
9:B:166:LYS:HE3	9:B:166:LYS:HB3	1.81	0.41
9:B:64:VAL:HG11	9:B:212:ALA:HB3	2.03	0.41
8:A:123:ASN:ND2	9:B:83:ARG:HE	2.20	0.41
10:C:186:VAL:HG12	10:C:190:ILE:HG13	2.03	0.41
11:D:15:GLY:HA3	12:E:26:TYR:O	2.21	0.41
11:D:190:GLU:HG3	11:D:191:CYS:N	2.36	0.41
11:D:46:CYS:O	11:D:211:GLU:HG2	2.21	0.41
11:D:67:ILE:HB	11:D:71:VAL:HG12	2.02	0.41
12:E:47:VAL:HG11	12:E:197:GLU:HA	2.02	0.41
13:F:158:GLY:O	13:F:159:THR:HB	2.20	0.41
14:G:109:ILE:HB	14:G:110:PRO:HD3	2.03	0.41
14:G:12:ASN:HD22	14:G:130:ARG:H	1.69	0.41
14:G:209:GLU:OE2	14:G:210:LYS:NZ	2.53	0.41
14:G:220:SER:N	14:G:224:THR:OG1	2.47	0.41
14:G:88:LEU:CA	14:G:91:ARG:HB3	2.49	0.41
15:H:406:LEU:N	15:H:409:ARG:NH1	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:246:ARG:HA	16:I:280:PHE:CD2	2.55	0.41
18:K:216:GLY:H	18:K:220:THR:CB	2.33	0.41
18:K:253:MET:SD	18:K:256:ASP:HB2	2.60	0.41
18:K:83:GLN:O	18:K:86:VAL:HB	2.21	0.41
20:M:174:GLU:OE1	20:M:242:THR:HG23	2.20	0.41
20:M:260:ALA:HB1	20:M:264:ARG:NH1	2.36	0.41
20:M:411:LYS:HG2	20:M:414:ASP:CG	2.41	0.41
21:N:109:TYR:CA	21:N:133:LEU:HD21	2.49	0.41
21:N:293:LEU:HA	21:N:296:CYS:HB2	2.02	0.41
21:N:387:ALA:O	21:N:393:SER:OG	2.37	0.41
21:N:716:GLN:HB3	21:N:719:ASN:OD1	2.21	0.41
21:N:772:GLN:HG2	21:N:870:ASN:N	2.35	0.41
22:O:248:TYR:HA	22:O:251:LEU:HD12	2.02	0.41
22:O:229:ASN:O	22:O:258:LEU:HD22	2.21	0.41
22:O:8:ASP:CB	22:O:26:PHE:HE2	2.33	0.41
22:O:340:SER:N	22:O:349:THR:HB	2.35	0.41
22:O:338:LYS:O	22:O:350:ILE:HA	2.20	0.41
23:P:112:LEU:HD22	23:P:115:ARG:NH1	2.36	0.41
23:P:123:ARG:HG2	23:P:129:LYS:HE3	2.01	0.41
23:P:177:ILE:O	23:P:180:ILE:HB	2.19	0.41
23:P:407:ASN:O	23:P:409:SER:N	2.54	0.41
23:P:420:ASP:HA	23:P:423:LEU:HD12	2.01	0.41
24:Q:313:ASP:O	24:Q:316:THR:HB	2.21	0.41
24:Q:347:LEU:HD23	24:Q:350:ILE:HD12	2.01	0.41
24:Q:387:TYR:HB3	24:Q:400:TYR:CD2	2.55	0.41
24:Q:31:LEU:HB3	24:Q:42:ALA:O	2.20	0.41
24:Q:79:PRO:O	24:Q:82:THR:HB	2.21	0.41
25:R:107:GLU:OE2	25:R:111:LYS:HB2	2.21	0.41
25:R:413:LYS:HG2	25:R:416:LYS:NZ	2.35	0.41
26:S:239:ARG:HG2	26:S:239:ARG:NH1	2.35	0.41
26:S:315:LYS:HG2	26:S:345:TYR:HE2	1.86	0.41
26:S:351:ALA:CB	26:S:360:PHE:HA	2.50	0.41
26:S:453:ASP:OD1	26:S:453:ASP:N	2.53	0.41
27:T:104:LYS:O	27:T:107:SER:HB2	2.19	0.41
27:T:55:LEU:CA	27:T:58:THR:HB	2.48	0.41
23:P:435:LYS:HZ1	28:U:155:LEU:HD12	1.84	0.41
29:V:106:GLY:HA3	29:V:137:VAL:HG22	2.02	0.41
29:V:296:LEU:HD12	29:V:296:LEU:HA	1.92	0.41
30:W:46:GLU:HG2	30:W:46:GLU:O	2.19	0.41
30:W:56:GLY:N	30:W:83:GLY:HA3	2.35	0.41
31:X:85:ARG:O	31:X:101:LEU:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:X:90:VAL:HG13	31:X:93:SER:HA	2.02	0.41
33:Z:224:LEU:HA	33:Z:227:ILE:HB	2.03	0.41
33:Z:257:PRO:HA	33:Z:258:PRO:HD3	1.96	0.41
33:Z:327:GLN:NE2	33:Z:331:GLY:HA3	2.36	0.41
33:Z:475:GLN:CD	33:Z:497:PHE:HZ	2.23	0.41
33:Z:920:GLY:CA	33:Z:982:ILE:HD13	2.50	0.41
2:2:84:VAL:HG12	2:2:86:ILE:HG13	2.03	0.41
4:4:61:ALA:HA	4:4:217:ARG:NH1	2.35	0.41
7:7:134:LEU:HD12	7:7:134:LEU:HA	1.84	0.41
7:7:162:VAL:O	7:7:165:TYR:N	2.54	0.41
1:8:145:ASP:OD2	1:8:147:VAL:HG22	2.20	0.41
1:8:170:ASP:O	1:8:176:LYS:N	2.31	0.41
1:8:175:PHE:CD2	1:8:191:LEU:HD23	2.55	0.41
2:9:241:PHE:HE2	2:9:243:LYS:HG2	1.84	0.41
8:A:130:GLN:HE21	9:B:121:ALA:HB1	1.86	0.41
8:A:167:LYS:HG3	9:B:57:MET:HG2	2.02	0.41
8:A:54:ILE:HB	8:A:210:MET:HE3	2.02	0.41
8:A:80:GLY:HA3	8:A:233:PHE:CG	2.55	0.41
9:B:76:SER:OG	9:B:164:ILE:HG13	2.21	0.41
9:B:20:GLN:HA	9:B:23:TYR:CD2	2.56	0.41
10:C:15:PRO:O	11:D:25:GLU:HG3	2.21	0.41
10:C:186:VAL:O	10:C:190:ILE:HG13	2.20	0.41
10:C:208:TYR:CG	10:C:209:ASP:N	2.89	0.41
10:C:50:ARG:HG3	10:C:211:LEU:C	2.41	0.41
10:C:4:ARG:O	11:D:6:ARG:NH2	2.52	0.41
10:C:31:HIS:O	10:C:51:LYS:HE3	2.20	0.41
11:D:132:SER:HB3	11:D:150:THR:O	2.20	0.41
11:D:44:LEU:HD21	11:D:136:ALA:HB2	2.02	0.41
13:F:114:ASP:OD2	14:G:90:ASN:OD1	2.38	0.41
13:F:201:LEU:HD13	13:F:205:SER:HA	2.03	0.41
13:F:3:ARG:HH21	13:F:20:PHE:HB3	1.86	0.41
15:H:104:LYS:N	15:H:144:LYS:HE3	2.32	0.41
15:H:162:ARG:NH2	15:H:169:GLU:HB3	15.69	0.41
15:H:399:GLU:HG2	15:H:401:GLY:H	1.85	0.41
16:I:102:ASN:HA	16:I:103:PRO:C	2.41	0.41
16:I:198:VAL:HG13	16:I:323:LYS:HG3	2.03	0.41
16:I:89:GLN:HA	16:I:92:GLU:CG	2.51	0.41
17:J:115:LEU:HD12	17:J:122:LEU:HD23	2.03	0.41
17:J:174:PHE:HD2	17:J:181:GLN:HB2	1.85	0.41
18:K:273:GLU:HA	18:K:317:ALA:O	2.21	0.41
18:K:62:THR:O	18:K:65:GLU:HB2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:79:LEU:HG	18:K:83:GLN:HB2	2.03	0.41
19:L:131:VAL:HB	19:L:135:VAL:HG21	2.03	0.41
19:L:147:THR:OG1	19:L:159:LEU:HD21	2.20	0.41
19:L:187:THR:HA	19:L:190:ILE:HB	2.03	0.41
19:L:365:THR:HG23	19:L:391:ILE:CG2	2.51	0.41
19:L:411:ASN:H	19:L:414:ASP:HB2	1.85	0.41
20:M:227:GLY:O	20:M:231:LEU:HG	2.19	0.41
20:M:22:ILE:HG12	20:M:25:LEU:HD12	2.02	0.41
21:N:239:LEU:HD21	21:N:276:GLU:HB3	2.03	0.41
21:N:344:THR:HG1	21:N:378:ASN:HD21	1.55	0.41
21:N:581:ASP:HB3	21:N:616:HIS:CG	2.55	0.41
21:N:615:ALA:O	21:N:618:ARG:N	2.54	0.41
21:N:762:ARG:HD3	21:N:766:GLN:HA	2.03	0.41
22:O:167:ILE:CG2	22:O:168:THR:H	2.28	0.41
22:O:185:PHE:CE2	22:O:223:LEU:HB3	2.56	0.41
22:O:33:TYR:CZ	22:O:57:LEU:HB2	2.56	0.41
23:P:123:ARG:HD2	23:P:127:GLU:CD	2.41	0.41
23:P:177:ILE:HB	23:P:203:ILE:CD1	2.48	0.41
23:P:276:LEU:HD23	23:P:276:LEU:HA	1.87	0.41
23:P:341:LEU:CA	23:P:344:ARG:HB3	2.45	0.41
24:Q:63:GLN:HE21	24:Q:103:LYS:HB3	1.86	0.41
24:Q:138:SER:CB	24:Q:161:LEU:HD21	2.50	0.41
24:Q:236:PHE:HB2	24:Q:268:SER:CB	2.51	0.41
24:Q:286:TYR:C	24:Q:289:GLU:H	2.23	0.41
25:R:266:LEU:CB	25:R:270:VAL:HG22	2.51	0.41
25:R:335:ARG:CZ	25:R:371:PHE:HB3	2.50	0.41
25:R:33:LEU:HD11	25:R:89:ASN:ND2	2.35	0.41
25:R:53:LYS:O	25:R:56:GLU:HB3	2.21	0.41
26:S:399:TYR:CD2	26:S:401:LYS:HB2	2.55	0.41
27:T:113:LEU:HA	27:T:116:GLN:HB2	2.01	0.41
27:T:148:LEU:O	27:T:152:LEU:HG	2.21	0.41
27:T:169:GLN:C	27:T:172:SER:H	2.24	0.41
27:T:188:GLU:O	27:T:191:LYS:N	2.54	0.41
27:T:200:LEU:HA	27:T:200:LEU:HD12	1.95	0.41
28:U:132:LEU:H	29:V:215:ASN:ND2	2.12	0.41
28:U:195:LYS:O	28:U:196:SER:C	2.59	0.41
29:V:101:ASP:O	29:V:102:GLN:NE2	2.53	0.41
29:V:60:ASP:C	29:V:62:THR:H	2.24	0.41
31:X:14:VAL:HG23	31:X:50:TRP:CG	2.55	0.41
33:Z:377:ALA:HB1	33:Z:409:LYS:O	2.21	0.41
33:Z:366:LYS:HD2	33:Z:859:LYS:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:61:LYS:O	1:1:72:SER:OG	2.33	0.41
2:2:152:VAL:HG22	2:2:158:GLN:HA	2.02	0.41
2:2:243:LYS:HB3	2:2:243:LYS:HE3	1.84	0.41
3:3:156:TYR:HE2	3:3:177:SER:OG	2.03	0.41
3:3:198:THR:OG1	3:3:200:ALA:HB3	2.21	0.41
4:4:89:GLY:HA2	4:4:92:ILE:HB	2.03	0.41
4:4:241:VAL:HG13	5:5:198:ARG:HB3	2.03	0.41
6:6:122:LEU:HD23	6:6:122:LEU:HA	1.82	0.41
6:6:118:GLN:HE21	6:6:133:HIS:CE1	2.38	0.41
6:6:148:TYR:O	6:6:149:ARG:HD3	2.19	0.41
7:7:133:TRP:HD1	12:E:101:LEU:HD21	1.85	0.41
7:7:87:ILE:HB	7:7:255:VAL:HB	2.01	0.41
1:8:113:GLN:HB2	1:8:150:TYR:CE2	2.47	0.41
1:8:22:ASN:OD1	1:8:24:TYR:N	2.40	0.41
2:9:221:ASP:OD2	2:9:223:ARG:HB2	2.19	0.41
8:A:201:LYS:HD3	8:A:201:LYS:HA	1.91	0.41
8:A:41:ASN:H	8:A:56:GLN:CD	2.19	0.41
9:B:38:LYS:HB3	9:B:38:LYS:HE2	1.87	0.41
10:C:80:LEU:H	10:C:133:VAL:HG22	1.82	0.41
10:C:38:ILE:HD12	10:C:189:ALA:HB1	2.03	0.41
13:F:133:LEU:HD21	13:F:161:ILE:HG23	2.03	0.41
15:H:392:HIS:HB2	15:H:423:CYS:SG	2.61	0.41
16:I:112:ILE:HA	16:I:118:ALA:CB	2.50	0.41
19:L:194:ARG:HH12	19:L:199:LEU:HD11	1.86	0.41
19:L:259:SER:OG	19:L:307:GLU:OE1	2.15	0.41
19:L:361:PHE:O	19:L:365:THR:N	2.42	0.41
19:L:373:GLU:O	19:L:412:PRO:HB3	2.21	0.41
19:L:361:PHE:HA	19:L:391:ILE:HG23	2.02	0.41
19:L:76:GLN:HB3	19:L:80:ASN:ND2	2.35	0.41
20:M:23:LEU:HD23	20:M:23:LEU:HA	1.83	0.41
20:M:36:LEU:O	20:M:70:LYS:HB2	2.20	0.41
21:N:132:LYS:O	21:N:136:ILE:HG12	2.21	0.41
21:N:223:LEU:CD1	21:N:226:ASN:HD22	2.33	0.41
21:N:287:LEU:HA	21:N:290:LEU:CD1	2.49	0.41
21:N:330:THR:O	21:N:334:VAL:HG23	2.20	0.41
21:N:340:HIS:HA	21:N:343:THR:HB	2.02	0.41
21:N:450:ILE:HD11	21:N:462:VAL:HA	2.02	0.41
21:N:653:ARG:HA	21:N:656:ALA:HB3	2.02	0.41
21:N:656:ALA:O	21:N:660:LEU:HG	2.21	0.41
21:N:549:TYR:OH	21:N:738:GLN:HG3	2.20	0.41
23:P:122:ILE:HG23	23:P:129:LYS:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:173:MET:O	23:P:176:LYS:N	2.54	0.41
23:P:267:PHE:HE1	23:P:329:PHE:CD1	2.39	0.41
23:P:419:VAL:O	23:P:423:LEU:HG	2.21	0.41
24:Q:130:ARG:HH22	24:Q:137:LEU:HD11	1.85	0.41
24:Q:14:LEU:HG	24:Q:17:GLU:OE1	2.19	0.41
24:Q:310:SER:O	24:Q:314:PHE:CD2	2.74	0.41
25:R:175:ALA:O	25:R:179:PHE:HD2	2.03	0.41
25:R:182:ASN:ND2	25:R:320:LYS:HD2	2.35	0.41
25:R:215:GLY:O	25:R:219:LEU:HB2	2.20	0.41
25:R:266:LEU:HB3	25:R:270:VAL:CG2	2.50	0.41
25:R:297:TYR:C	25:R:299:SER:N	2.73	0.41
25:R:297:TYR:O	25:R:297:TYR:CG	2.73	0.41
25:R:34:THR:HA	25:R:70:TYR:HB2	2.02	0.41
25:R:63:TYR:CE2	25:R:94:PHE:CD1	3.09	0.41
26:S:319:CYS:O	26:S:323:LEU:HG	2.20	0.41
27:T:76:ASP:O	27:T:77:SER:C	2.59	0.41
27:T:95:LYS:HA	27:T:98:GLU:OE2	2.20	0.41
28:U:92:TRP:HZ2	28:U:107:ASN:OD1	2.03	0.41
28:U:234:ASN:O	28:U:261:LEU:HD21	2.20	0.41
29:V:29:ILE:HG22	29:V:30:SER:O	2.20	0.41
29:V:68:VAL:O	29:V:69:PHE:HB3	2.21	0.41
31:X:36:LYS:HG3	31:X:38:ASN:O	2.21	0.41
31:X:57:VAL:O	31:X:57:VAL:HG12	2.20	0.41
33:Z:145:ASP:HB2	33:Z:154:ILE:HD11	2.02	0.41
33:Z:108:ASP:O	33:Z:202:ARG:HD2	2.21	0.41
33:Z:225:LEU:O	33:Z:228:GLU:HB2	2.20	0.41
33:Z:253:VAL:HG12	33:Z:261:ASP:O	2.19	0.41
33:Z:530:LEU:O	33:Z:573:LEU:HD21	2.20	0.41
33:Z:791:LYS:O	33:Z:794:ASP:N	2.47	0.41
33:Z:966:GLU:H	33:Z:979:GLY:H	1.68	0.41
33:Z:914:LEU:H	33:Z:980:VAL:HG22	1.85	0.41
1:1:108:ALA:O	1:1:112:ILE:HG13	2.20	0.41
1:1:168:PHE:HA	5:5:149:MET:SD	2.60	0.41
1:1:133:LEU:HG	1:1:226:VAL:HG12	2.02	0.41
2:2:99:LEU:H	2:2:99:LEU:HG	1.71	0.41
4:4:42:VAL:CG2	4:4:206:VAL:HG22	2.51	0.41
4:4:78:ALA:HA	4:4:81:THR:OG1	2.20	0.41
5:5:56:LEU:HB3	5:5:59:ASP:OD2	2.20	0.41
6:6:35:THR:O	6:6:36:ARG:HD3	2.21	0.41
6:6:52:ASP:OD1	7:7:163:TYR:OH	2.24	0.41
1:8:215:ILE:HG13	1:8:216:GLN:HG3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:125:ILE:O	2:9:129:LEU:HG	2.20	0.41
2:9:60:LEU:HB2	2:9:70:ASN:ND2	2.36	0.41
8:A:198:SER:HB2	8:A:200:GLU:OE1	2.21	0.41
8:A:78:THR:O	8:A:233:PHE:HB2	2.21	0.41
9:B:61:LEU:HD23	9:B:62:SER:N	2.35	0.41
12:E:143:LEU:HD23	12:E:143:LEU:HA	1.80	0.41
13:F:11:VAL:CG2	14:G:128:SER:C	2.56	0.41
13:F:168:ALA:N	13:F:199:GLN:HB2	2.35	0.41
14:G:74:ILE:HG21	14:G:112:PHE:CE2	2.56	0.41
14:G:201:TYR:HA	14:G:204:HIS:HB3	2.03	0.41
15:H:197:MET:HG3	15:H:278:GLU:HG2	2.03	0.41
15:H:56:LEU:HB3	15:H:60:GLU:OE2	2.21	0.41
16:I:244:PHE:CE2	16:I:246:ARG:HB2	2.55	0.41
16:I:94:LYS:O	16:I:97:GLU:HB3	2.21	0.41
18:K:178:ASP:O	18:K:182:GLN:N	2.28	0.41
18:K:187:ALA:O	18:K:313:LYS:NZ	2.54	0.41
18:K:212:TYR:HB3	18:K:339:GLU:HA	2.01	0.41
18:K:344:ARG:CZ	18:K:380:GLY:H	2.34	0.41
18:K:393:ARG:HB3	18:K:409:GLU:OE1	2.20	0.41
18:K:49:PHE:O	18:K:50:LYS:C	2.57	0.41
19:L:361:PHE:HA	19:L:391:ILE:CG2	2.50	0.41
20:M:257:GLY:N	20:M:300:GLU:OE2	2.46	0.41
20:M:377:GLN:HG3	20:M:378:GLU:N	2.36	0.41
21:N:123:PHE:CZ	21:N:161:TYR:HB2	2.44	0.41
18:K:56:LYS:NZ	21:N:196:THR:CG2	2.83	0.41
21:N:458:ALA:HA	21:N:488:CYS:SG	2.61	0.41
21:N:606:VAL:HG21	21:N:625:LEU:HD22	2.01	0.41
21:N:581:ASP:HB3	21:N:616:HIS:HB2	2.02	0.41
21:N:861:TYR:CE2	21:N:863:SER:HB2	2.56	0.41
22:O:138:LEU:CD1	22:O:177:GLN:HE22	2.18	0.41
22:O:217:LEU:O	22:O:221:ALA:N	2.53	0.41
22:O:232:GLU:HG2	22:O:233:LEU:N	2.19	0.41
22:O:57:LEU:C	22:O:59:LEU:H	2.23	0.41
23:P:131:PHE:HE2	23:P:171:MET:SD	2.44	0.41
23:P:392:LYS:NZ	24:Q:356:CYS:CB	2.84	0.41
23:P:74:ASP:O	23:P:78:GLN:HG3	2.19	0.41
24:Q:232:TYR:HA	24:Q:235:ALA:HB3	2.02	0.41
24:Q:271:MET:HG2	24:Q:338:LEU:HD22	2.03	0.41
25:R:413:LYS:HG2	25:R:416:LYS:HZ3	1.86	0.41
26:S:343:LEU:O	26:S:346:TYR:HB3	2.21	0.41
26:S:357:LEU:CD1	26:S:384:ARG:HD3	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:157:TYR:OH	27:T:188:GLU:OE1	2.35	0.41
21:N:23:TYR:CD2	27:T:35:ILE:HG21	2.56	0.41
27:T:59:LYS:HZ1	27:T:102:LYS:HD2	1.84	0.41
26:S:475:TYR:HB2	28:U:291:LEU:HB3	2.02	0.41
29:V:101:ASP:OD1	29:V:102:GLN:N	2.54	0.41
29:V:109:HIS:HB2	29:V:111:HIS:CE1	2.56	0.41
29:V:232:GLU:HG3	29:V:236:SER:OG	2.19	0.41
29:V:252:SER:O	29:V:256:GLU:N	2.45	0.41
31:X:17:TYR:CG	31:X:97:TYR:HD1	2.38	0.41
31:X:16:GLU:H	31:X:27:ILE:HG21	1.86	0.41
33:Z:165:TYR:CE1	33:Z:201:LEU:HD23	2.29	0.41
33:Z:395:CYS:HA	33:Z:425:ILE:HG23	2.03	0.41
33:Z:429:ASN:OD1	33:Z:430:LEU:N	2.54	0.41
33:Z:479:THR:O	33:Z:480:ASN:HB2	2.21	0.41
33:Z:506:LEU:HB2	33:Z:530:LEU:HD22	2.03	0.41
33:Z:532:HIS:HE2	33:Z:906:ALA:HB2	1.85	0.41
33:Z:599:ILE:HG12	33:Z:602:LEU:HD12	2.02	0.41
33:Z:741:LEU:HB2	33:Z:775:MET:CE	2.45	0.41
33:Z:858:GLY:HA3	33:Z:862:MET:CG	2.51	0.41
3:3:207:PHE:O	3:3:212:TYR:HE2	2.03	0.41
4:4:126:TYR:CD1	4:4:143:HIS:HA	2.56	0.41
4:4:218:ASN:HB3	4:4:221:THR:CG2	2.51	0.41
4:4:236:ARG:HH22	5:5:159:GLU:HB3	1.86	0.41
5:5:23:ILE:CG2	5:5:188:TYR:HB2	2.50	0.41
5:5:72:ASN:HD22	10:C:96:GLN:HE22	1.69	0.41
6:6:8:ARG:HG2	6:6:129:PRO:O	2.19	0.41
6:6:56:PHE:O	6:6:59:TYR:HB3	2.21	0.41
1:8:133:LEU:HG	1:8:226:VAL:HG12	2.02	0.41
2:9:113:LEU:O	2:9:116:ALA:N	2.54	0.41
2:9:47:MET:HA	2:9:160:LEU:HD22	2.02	0.41
2:9:183:MET:C	2:9:186:PRO:HD2	2.41	0.41
8:A:115:ASP:OD1	8:A:115:ASP:N	2.53	0.41
9:B:190:HIS:NE2	9:B:194:LEU:HD11	2.36	0.41
10:C:209:ASP:OD1	10:C:210:ARG:N	2.54	0.41
10:C:35:ALA:HB3	10:C:165:VAL:HG23	2.03	0.41
11:D:144:GLU:CD	11:D:146:LYS:NZ	2.74	0.41
11:D:174:PHE:CZ	11:D:197:ARG:HB3	2.56	0.41
11:D:34:VAL:HG22	11:D:35:GLY:N	2.36	0.41
12:E:201:LEU:HD11	12:E:212:LEU:HD21	2.03	0.41
12:E:52:LYS:HB2	12:E:216:ASN:HA	2.03	0.41
12:E:235:LYS:HA	12:E:238:GLU:OE1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:37:ALA:HB3	12:E:172:ILE:HG13	2.03	0.41
13:F:29:ILE:HD11	13:F:149:PRO:HD2	2.03	0.41
13:F:11:VAL:C	14:G:130:ARG:HD3	2.40	0.41
14:G:67:ILE:HB	14:G:215:GLU:OE2	2.21	0.41
15:H:188:PRO:HA	15:H:189:PRO:HD2	1.97	0.41
15:H:430:ALA:O	15:H:435:ARG:N	2.54	0.41
15:H:99:VAL:HG21	15:H:150:LYS:HB2	2.02	0.41
16:I:105:SER:N	16:I:149:LEU:O	2.48	0.41
16:I:317:ASP:OD1	16:I:318:ASP:N	2.53	0.41
17:J:71:TYR:CE1	17:J:117:SER:HB2	2.56	0.41
17:J:181:GLN:O	17:J:311:ASP:OD2	2.39	0.41
17:J:215:GLY:H	17:J:249:GLU:HB2	1.86	0.41
19:L:106:GLY:HA2	19:L:122:SER:HB3	2.03	0.41
19:L:181:ASP:N	19:L:181:ASP:OD1	2.53	0.41
19:L:254:LYS:HE3	20:M:256:ILE:HD11	2.02	0.41
19:L:220:LEU:HD23	19:L:347:VAL:HG21	2.01	0.41
19:L:371:THR:HG23	19:L:409:HIS:HD2	1.86	0.41
19:L:92:GLU:HB2	20:M:29:GLU:CD	2.41	0.41
20:M:121:THR:OG1	20:M:124:ARG:N	2.54	0.41
20:M:177:THR:HA	20:M:237:ALA:CB	2.47	0.41
20:M:270:ALA:O	20:M:274:ALA:N	2.54	0.41
20:M:365:SER:OG	20:M:376:TRP:NE1	2.54	0.41
18:K:49:PHE:CE2	21:N:151:LYS:HD3	2.55	0.41
21:N:203:ARG:HA	21:N:206:ILE:CG1	2.51	0.41
21:N:300:ASN:HA	21:N:303:LEU:HB2	2.03	0.41
21:N:329:HIS:CE1	21:N:355:TRP:CD2	3.08	0.41
21:N:349:ILE:HD11	21:N:374:ILE:HD13	2.03	0.41
21:N:387:ALA:HB3	21:N:388:PRO:HD3	2.03	0.41
21:N:884:PHE:CD1	21:N:905:LEU:HD13	2.56	0.41
22:O:166:ARG:NH1	22:O:170:SER:CA	2.84	0.41
22:O:32:PHE:CD2	22:O:33:TYR:CE1	3.09	0.41
22:O:33:TYR:CE2	22:O:57:LEU:HB2	2.56	0.41
22:O:40:GLN:HG3	22:O:58:ARG:HD2	2.02	0.41
22:O:7:ILE:HG13	22:O:46:THR:CG2	2.51	0.41
23:P:124:VAL:CG1	23:P:129:LYS:HB2	2.51	0.41
23:P:131:PHE:HA	23:P:136:ARG:CZ	2.51	0.41
23:P:218:LEU:HD23	23:P:221:TYR:CD2	2.56	0.41
23:P:221:TYR:CA	23:P:224:LEU:HB3	2.51	0.41
23:P:253:ASP:CG	23:P:256:LYS:H	2.24	0.41
23:P:394:ASN:OD1	23:P:396:PRO:HD2	2.21	0.41
23:P:435:LYS:NZ	28:U:156:HIS:CB	2.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:135:HIS:O	24:Q:139:ILE:HG13	2.20	0.41
24:Q:165:PHE:C	24:Q:167:LYS:H	2.24	0.41
24:Q:165:PHE:HE1	24:Q:169:ASP:OD2	2.03	0.41
24:Q:382:LEU:HG	25:R:263:ARG:NH1	2.36	0.41
25:R:130:GLN:O	25:R:134:TRP:HD1	2.03	0.41
25:R:366:ASN:O	25:R:370:LYS:N	2.54	0.41
25:R:57:GLU:O	25:R:59:MET:HG3	2.20	0.41
26:S:143:GLN:O	26:S:148:ASP:HB3	2.21	0.41
26:S:180:ASN:O	26:S:184:TRP:CD1	2.74	0.41
26:S:207:ASN:O	26:S:211:ARG:N	2.29	0.41
26:S:364:ILE:O	26:S:368:LYS:N	2.54	0.41
26:S:478:SER:O	26:S:481:TYR:HD2	2.04	0.41
27:T:151:TRP:HZ2	27:T:159:LYS:CE	2.33	0.41
28:U:120:LEU:HB3	28:U:137:TYR:HB2	2.03	0.41
28:U:190:LEU:O	28:U:194:LEU:HG	2.20	0.41
28:U:41:ALA:HB2	28:U:90:ILE:HG22	2.01	0.41
29:V:113:GLY:H	29:V:142:ASP:CG	2.24	0.41
29:V:277:LYS:HA	29:V:280:LEU:HD11	2.02	0.41
27:T:257:THR:HG22	29:V:295:VAL:HG11	2.00	0.41
29:V:44:GLY:O	29:V:47:MET:N	2.54	0.41
30:W:20:ASP:H	30:W:25:ARG:CB	2.31	0.41
30:W:66:THR:OG1	30:W:68:GLU:CB	2.68	0.41
31:X:13:GLY:O	31:X:99:PHE:HB3	2.20	0.41
2:2:80:ASP:OD1	2:2:80:ASP:N	2.54	0.41
3:3:151:THR:HA	3:3:154:TYR:CE2	2.56	0.41
1:1:52:TYR:HA	4:4:196:LEU:HD12	2.03	0.41
4:4:45:ALA:HA	4:4:188:ILE:HD12	2.03	0.41
5:5:24:ALA:C	5:5:43:ILE:HD11	2.41	0.41
5:5:63:LEU:HD21	5:5:103:TYR:CE2	2.56	0.41
5:5:67:PHE:O	5:5:71:THR:HG23	2.20	0.41
5:5:78:GLU:O	9:B:108:LYS:NZ	2.53	0.41
6:6:73:TYR:HB2	10:C:143:ARG:NH1	2.36	0.41
6:6:88:LEU:HA	6:6:91:SER:OG	2.20	0.41
1:8:145:ASP:CG	1:8:147:VAL:HG22	2.40	0.41
1:8:218:GLY:HA2	1:8:238:LEU:CB	2.49	0.41
8:A:128:TYR:HB2	8:A:136:PRO:HG3	2.03	0.41
9:B:180:ASN:OD1	9:B:182:GLU:N	2.54	0.41
10:C:121:GLY:O	10:C:125:HIS:CE1	2.74	0.41
10:C:208:TYR:HA	10:C:211:LEU:HB2	2.02	0.41
10:C:219:GLY:H	10:C:222:ASP:CG	2.24	0.41
11:D:106:VAL:HG23	11:D:139:ASP:OD1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D:75:PHE:HB2	11:D:131:VAL:CG1	2.51	0.41
10:C:12:ILE:CA	11:D:19:GLN:HE22	2.34	0.41
12:E:198:LEU:HD21	12:E:242:GLU:HG2	4.60	0.41
12:E:49:GLY:HA2	12:E:218:GLN:O	2.21	0.41
13:F:22:VAL:O	13:F:26:LEU:HD13	2.21	0.41
13:F:85:SER:O	13:F:89:ARG:HG3	2.21	0.41
14:G:169:ARG:HB3	14:G:173:LYS:HE3	2.02	0.41
14:G:231:VAL:HG12	14:G:236:LEU:HB2	2.02	0.41
14:G:54:ILE:HA	14:G:59:LEU:CD2	2.51	0.41
17:J:189:GLY:N	17:J:295:ASN:OD1	2.54	0.41
17:J:190:PRO:HG2	17:J:319:PRO:CD	2.50	0.41
16:I:106:ILE:CD1	17:J:85:LEU:HG	2.45	0.41
18:K:120:VAL:C	18:K:121:ARG:NH1	2.72	0.41
18:K:260:LEU:HG	18:K:264:ASN:ND2	2.35	0.41
19:L:139:LYS:O	19:L:144:VAL:HG21	2.20	0.41
20:M:198:VAL:HG22	20:M:239:THR:HG23	2.02	0.41
20:M:289:LYS:HA	20:M:302:GLN:HB2	2.03	0.41
20:M:339:ARG:N	20:M:344:ASP:HA	2.36	0.41
21:N:143:LYS:N	21:N:146:LYS:NZ	2.69	0.41
21:N:235:ALA:HA	21:N:273:LEU:HD21	2.02	0.41
21:N:731:VAL:HG12	21:N:735:MET:CG	2.51	0.41
21:N:775:CYS:HB2	21:N:883:SER:N	2.36	0.41
21:N:80:LYS:O	21:N:83:LEU:HB2	2.21	0.41
21:N:85:ALA:HB1	21:N:89:PHE:H	1.85	0.41
22:O:206:THR:O	22:O:210:ARG:N	2.40	0.41
22:O:302:VAL:HB	22:O:365:LYS:NZ	2.36	0.41
22:O:338:LYS:HZ3	22:O:352:TRP:C	2.22	0.41
22:O:383:LYS:HB3	22:O:387:ARG:HB3	2.00	0.41
22:O:76:LEU:O	22:O:78:VAL:N	2.54	0.41
23:P:204:LEU:HD12	23:P:204:LEU:HA	1.82	0.41
23:P:210:ASN:ND2	23:P:213:TYR:HD2	2.18	0.41
23:P:440:HIS:CE1	23:P:442:LEU:HD12	2.56	0.41
24:Q:213:GLN:HA	24:Q:249:LEU:CD1	2.51	0.41
24:Q:293:SER:O	24:Q:296:ILE:HB	2.20	0.41
25:R:121:GLU:HG2	25:R:130:GLN:NE2	2.36	0.41
25:R:350:LEU:HD21	25:R:365:ASP:CG	2.41	0.41
24:Q:420:ASN:HD22	25:R:413:LYS:NZ	2.16	0.41
25:R:79:LEU:H	25:R:94:PHE:H	1.68	0.41
25:R:44:LYS:O	25:R:91:TRP:HZ3	2.04	0.41
26:S:179:ILE:HD12	26:S:184:TRP:CH2	2.55	0.41
26:S:22:GLU:CD	26:S:22:GLU:N	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:368:LYS:HG3	26:S:377:TYR:CE1	2.55	0.41
26:S:407:ILE:HD12	26:S:443:ILE:HB	2.01	0.41
27:T:107:SER:OG	27:T:139:ASP:OD2	2.38	0.41
27:T:164:LEU:HD23	27:T:164:LEU:HA	1.72	0.41
27:T:188:GLU:HA	27:T:191:LYS:HZ1	1.84	0.41
28:U:21:HIS:CD2	29:V:100:ARG:NH2	2.89	0.41
28:U:270:ASN:O	28:U:274:MET:HG3	2.21	0.41
29:V:251:TYR:O	29:V:254:ARG:N	2.53	0.41
29:V:67:ASP:OD1	29:V:68:VAL:N	2.54	0.41
29:V:88:GLN:CG	29:V:89:ALA:H	2.33	0.41
29:V:94:MET:O	29:V:97:GLN:HB2	2.21	0.41
30:W:109:ARG:HG2	30:W:110:ILE:N	2.36	0.41
30:W:13:SER:H	30:W:16:SER:HB2	1.86	0.41
30:W:172:LEU:HB3	30:W:190:ILE:HD12	2.03	0.41
30:W:33:VAL:O	30:W:36:ILE:HB	2.21	0.41
33:Z:151:HIS:CG	33:Z:152:GLU:N	2.89	0.41
33:Z:221:VAL:O	33:Z:225:LEU:HG	2.20	0.41
33:Z:321:PHE:O	33:Z:327:GLN:HB2	2.21	0.41
33:Z:330:ILE:O	33:Z:341:TYR:CD1	2.74	0.41
33:Z:347:ASN:HB3	33:Z:353:VAL:CG2	2.51	0.41
33:Z:431:ASP:HB2	33:Z:468:GLU:OE1	2.21	0.41
33:Z:538:CYS:HB2	33:Z:577:GLN:HG3	2.02	0.41
33:Z:804:ASP:OD1	33:Z:806:GLU:N	2.34	0.41
33:Z:886:VAL:CG1	33:Z:896:LYS:HZ1	2.34	0.41
33:Z:348:LEU:CD1	33:Z:921:GLU:HB2	2.46	0.41
1:1:179:TYR:CE1	1:1:188:LYS:HG2	2.56	0.41
1:1:179:TYR:CB	1:1:185:GLY:HA2	2.51	0.41
1:1:22:ASN:CG	1:1:24:TYR:H	2.21	0.41
1:1:91:VAL:HG12	1:1:95:HIS:HD2	1.86	0.41
2:2:125:ILE:O	2:2:129:LEU:HG	2.20	0.41
2:2:47:MET:HA	2:2:160:LEU:HD22	2.02	0.41
2:2:192:VAL:O	2:2:192:VAL:HG23	2.21	0.41
2:2:198:ILE:O	2:2:201:THR:N	2.45	0.41
2:2:221:ASP:OD1	2:2:223:ARG:N	2.39	0.41
2:2:95:HIS:CE1	2:2:99:LEU:HD21	2.55	0.41
3:3:162:ARG:O	3:3:165:MET:HG3	2.21	0.41
4:4:36:LYS:HZ3	4:4:138:HIS:HA	1.83	0.41
1:1:171:ASN:HD21	5:5:169:GLN:HB3	1.86	0.41
5:5:27:LEU:HD21	5:5:186:VAL:CG1	2.49	0.41
7:7:256:THR:H	7:7:259:GLY:C	2.21	0.41
1:8:40:ALA:HB2	1:8:139:GLY:HA3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:14:ARG:O	8:A:27:GLN:HG2	2.21	0.41
8:A:34:ALA:HA	8:A:37:GLN:HB2	2.02	0.41
9:B:114:VAL:HA	9:B:117:ILE:CD1	2.49	0.41
9:B:201:GLU:OE1	9:B:201:GLU:N	2.51	0.41
9:B:80:PRO:HA	9:B:83:ARG:NH1	2.36	0.41
10:C:75:VAL:CG1	10:C:137:TYR:HD1	2.35	0.41
11:D:175:LEU:O	11:D:179:TYR:N	2.41	0.41
13:F:74:LEU:HB2	13:F:130:VAL:HG21	2.03	0.41
13:F:86:ASN:HA	13:F:89:ARG:HD2	2.03	0.41
8:A:91:ARG:HB3	14:G:114:ASP:OD1	2.20	0.41
14:G:38:ILE:CG1	14:G:49:ALA:HB3	2.51	0.41
14:G:41:LYS:HB3	14:G:161:LYS:O	2.21	0.41
14:G:67:ILE:HD12	14:G:215:GLU:HG2	2.04	0.41
15:H:72:SER:HB3	15:H:172:MET:SD	2.61	0.41
15:H:281:GLN:HB2	15:H:286:GLU:CD	2.41	0.41
17:J:115:LEU:CD2	17:J:120:TYR:HA	2.50	0.41
17:J:245:ILE:HB	17:J:290:ILE:HA	2.02	0.41
18:K:128:ARG:CG	18:K:129:GLU:H	2.29	0.41
18:K:356:ILE:CG2	18:K:387:MET:HB3	2.51	0.41
19:L:105:ILE:HG13	20:M:118:VAL:HG11	2.03	0.41
19:L:145:ARG:HH21	19:L:162:GLU:H	1.69	0.41
19:L:375:ASP:CG	19:L:378:ALA:HB3	2.40	0.41
20:M:178:GLU:O	20:M:234:ALA:HA	2.20	0.41
20:M:84:GLU:CD	20:M:116:ALA:HB3	2.42	0.41
21:N:225:LEU:HD23	21:N:225:LEU:HA	1.78	0.41
21:N:550:GLY:HA2	21:N:553:PHE:HD2	1.86	0.41
21:N:612:SER:HB3	21:N:617:VAL:HG11	2.03	0.41
21:N:623:PHE:O	21:N:626:GLY:N	2.54	0.41
21:N:890:PHE:HE1	21:N:909:GLU:O	2.03	0.41
21:N:890:PHE:CZ	21:N:914:VAL:HG11	2.55	0.41
22:O:189:TYR:HD1	22:O:220:SER:HG	1.68	0.41
23:P:218:LEU:HA	23:P:218:LEU:HD23	1.84	0.41
23:P:228:SER:CA	23:P:231:LYS:HB3	2.49	0.41
23:P:364:ARG:HA	23:P:367:GLU:HB2	2.01	0.41
23:P:409:SER:HB2	23:P:412:LEU:HG	2.01	0.41
24:Q:136:SER:O	24:Q:140:LYS:NZ	2.51	0.41
24:Q:19:GLN:NE2	24:Q:21:ASN:HB3	2.36	0.41
24:Q:270:ILE:CD1	24:Q:299:MET:HB3	2.51	0.41
24:Q:311:LEU:CD2	24:Q:368:LEU:HB2	2.51	0.41
24:Q:75:ARG:NH1	24:Q:75:ARG:CB	2.84	0.41
25:R:363:PHE:CD1	32:Y:78:LYS:NZ	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:48:GLU:HB2	25:R:91:TRP:CZ3	2.56	0.41
26:S:141:LEU:HA	26:S:144:LEU:HD12	2.02	0.41
26:S:151:GLU:OE2	26:S:153:GLU:CB	2.69	0.41
26:S:215:MET:HA	26:S:218:LEU:CG	2.51	0.41
26:S:330:LEU:O	26:S:333:PHE:N	2.54	0.41
26:S:394:ILE:C	26:S:396:SER:N	2.73	0.41
27:T:119:THR:HG22	27:T:123:HIS:HD2	1.86	0.41
27:T:227:PRO:HG2	27:T:234:TYR:C	2.41	0.41
27:T:255:GLN:OE1	27:T:255:GLN:N	2.46	0.41
27:T:264:MET:O	27:T:268:ILE:HG13	2.21	0.41
28:U:195:LYS:HZ2	29:V:233:LYS:HB3	1.86	0.41
28:U:300:LYS:O	28:U:304:GLN:HB2	2.20	0.41
29:V:206:THR:CG2	29:V:209:GLU:H	2.34	0.41
29:V:207:ALA:O	29:V:211:LYS:NZ	2.54	0.41
29:V:281:SER:O	29:V:283:THR:N	2.54	0.41
29:V:58:VAL:HG23	29:V:64:ASN:HD21	1.85	0.41
29:V:52:LEU:HD21	29:V:88:GLN:HB2	2.02	0.41
30:W:30:ILE:O	30:W:33:VAL:N	2.54	0.41
31:X:109:LEU:HB2	31:X:118:ASP:CG	2.40	0.41
33:Z:208:VAL:HB	33:Z:209:PRO:CD	2.51	0.41
33:Z:366:LYS:HE2	33:Z:859:LYS:HD2	2.03	0.41
33:Z:549:ASN:HA	33:Z:554:THR:HG23	2.03	0.41
1:1:220:GLY:O	1:1:238:LEU:HD12	2.21	0.40
1:1:48:ASN:OD1	1:1:49:ILE:N	2.54	0.40
2:2:110:ASP:CG	14:G:93:ARG:HH12	102.93	0.40
2:2:207:GLU:O	2:2:210:ILE:HB	2.21	0.40
3:3:112:LEU:HD23	3:3:112:LEU:HA	1.85	0.40
3:3:162:ARG:NE	3:3:165:MET:HG2	2.36	0.40
3:3:191:VAL:HB	3:3:207:PHE:O	2.20	0.40
5:5:98:ARG:HG3	5:5:103:TYR:CE2	2.57	0.40
6:6:139:TYR:CE1	6:6:171:ARG:HB3	2.57	0.40
6:6:18:SER:HA	6:6:179:VAL:HA	2.02	0.40
7:7:243:ASP:CG	7:7:246:SER:H	2.24	0.40
2:9:145:ASN:H	2:9:165:LEU:HB3	1.85	0.40
2:9:226:ARG:HG2	2:9:246:GLN:CG	2.50	0.40
4:4:98:TYR:HA	8:A:119:LYS:HZ3	1.84	0.40
8:A:128:TYR:HD2	8:A:136:PRO:HA	1.86	0.40
8:A:41:ASN:CG	8:A:174:LYS:H	2.20	0.40
8:A:199:TRP:O	8:A:203:VAL:N	2.34	0.40
8:A:34:ALA:HA	8:A:37:GLN:OE1	2.21	0.40
8:A:78:THR:OG1	8:A:79:ILE:HG13	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:149:GLN:OE1	9:B:159:TRP:NE1	2.54	0.40
9:B:205:ASN:HA	9:B:247:LEU:HD11	2.02	0.40
9:B:203:GLU:HG3	9:B:208:THR:HG21	2.03	0.40
10:C:15:PRO:HA	11:D:22:TYR:CD2	2.56	0.40
10:C:213:PHE:HE2	10:C:215:THR:HG23	1.86	0.40
11:D:138:PHE:N	11:D:138:PHE:CD1	2.89	0.40
11:D:18:PHE:HD1	11:D:21:GLU:OE1	2.04	0.40
10:C:17:GLY:O	11:D:29:ARG:NH1	2.55	0.40
10:C:162:ALA:HB3	11:D:54:LEU:HD21	2.04	0.40
12:E:168:ASN:HB2	13:F:56:LEU:HG	2.02	0.40
12:E:205:LYS:HB2	12:E:212:LEU:HD13	2.02	0.40
12:E:48:LEU:HD11	12:E:145:ALA:CB	2.51	0.40
12:E:52:LYS:HB2	12:E:216:ASN:C	2.42	0.40
13:F:144:LEU:C	13:F:145:LEU:HD12	2.41	0.40
13:F:132:LEU:O	13:F:146:GLU:HA	2.21	0.40
13:F:198:SER:HA	13:F:201:LEU:HB2	2.03	0.40
13:F:38:LEU:O	13:F:45:VAL:N	2.28	0.40
13:F:50:LYS:O	13:F:210:ASN:HA	2.21	0.40
8:A:91:ARG:CB	14:G:118:GLN:NE2	2.83	0.40
14:G:188:SER:OG	14:G:191:GLU:HG2	2.20	0.40
14:G:218:TRP:N	14:G:218:TRP:CD1	2.90	0.40
14:G:46:VAL:HG11	14:G:148:LEU:HB2	2.03	0.40
15:H:105:ILE:HD13	15:H:169:GLU:CD	2.42	0.40
16:I:172:LYS:CE	16:I:234:LYS:HZ1	2.33	0.40
16:I:95:GLN:HA	16:I:98:GLU:HB2	2.01	0.40
17:J:246:PHE:CE1	17:J:251:ASP:OD2	2.73	0.40
17:J:328:LEU:HB2	17:J:350:MET:HE1	2.03	0.40
18:K:238:ASN:CB	18:K:241:GLU:HG2	2.48	0.40
18:K:275:ASP:HB2	18:K:323:THR:OG1	2.21	0.40
18:K:404:GLN:O	18:K:408:GLU:HG2	2.21	0.40
18:K:79:LEU:HD11	18:K:83:GLN:OE1	2.22	0.40
18:K:85:GLU:HB2	18:K:88:ARG:NH2	2.36	0.40
19:L:239:ILE:CD1	19:L:277:ILE:HD11	2.51	0.40
20:M:245:LYS:NZ	20:M:281:ASP:HB2	2.29	0.40
21:N:293:LEU:N	21:N:294:PRO:HD2	2.36	0.40
21:N:360:GLN:HE22	29:V:164:LEU:HD12	1.86	0.40
21:N:342:GLY:N	21:N:373:VAL:O	2.48	0.40
21:N:379:LEU:HD23	21:N:379:LEU:HA	1.78	0.40
21:N:470:LEU:HD22	21:N:485:MET:HE1	2.02	0.40
21:N:572:LEU:O	21:N:576:VAL:HG23	2.22	0.40
21:N:560:ALA:HA	21:N:594:VAL:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:921:ARG:CA	21:N:925:ASP:HB3	2.48	0.40
22:O:250:TRP:O	22:O:254:LEU:HG	2.21	0.40
22:O:289:GLN:OE1	22:O:334:LEU:HD21	2.21	0.40
22:O:339:GLY:HA3	22:O:349:THR:O	2.21	0.40
22:O:363:ILE:HA	22:O:366:MET:HE3	2.03	0.40
23:P:255:ALA:O	23:P:259:PRO:HD3	2.21	0.40
23:P:343:LYS:O	23:P:344:ARG:C	2.60	0.40
23:P:71:LYS:HD3	23:P:73:ASP:HB2	2.04	0.40
24:Q:326:MET:HG3	24:Q:332:ARG:CD	2.51	0.40
24:Q:30:LEU:HB3	24:Q:54:GLN:HG2	2.03	0.40
24:Q:72:ASP:HB3	24:Q:75:ARG:HH21	1.86	0.40
25:R:240:SER:CB	25:R:243:LEU:HB2	2.51	0.40
25:R:302:ALA:O	25:R:305:PHE:HB3	2.20	0.40
25:R:337:VAL:HG22	25:R:341:LEU:HG	2.03	0.40
25:R:61:PRO:HD2	25:R:144:ILE:O	2.20	0.40
25:R:68:GLU:HA	25:R:71:LEU:HB2	2.03	0.40
26:S:290:ASN:OD1	26:S:317:HIS:ND1	2.54	0.40
26:S:387:VAL:HA	26:S:390:THR:CB	2.48	0.40
26:S:465:ILE:HD13	27:T:260:ILE:CG2	2.51	0.40
26:S:475:TYR:CG	26:S:476:LEU:N	2.89	0.40
27:T:148:LEU:C	27:T:152:LEU:HG	2.41	0.40
26:S:425:ARG:CD	27:T:156:SER:H	2.34	0.40
27:T:87:PRO:HA	27:T:90:PHE:O	2.21	0.40
29:V:57:PHE:CE1	29:V:63:VAL:HG22	2.56	0.40
30:W:13:SER:OG	30:W:14:GLU:N	2.52	0.40
30:W:38:GLN:NE2	30:W:42:ASN:OD1	2.50	0.40
31:X:14:VAL:HG21	31:X:62:ASP:CB	2.50	0.40
33:Z:138:ARG:NH1	33:Z:206:ASP:OD2	2.54	0.40
33:Z:208:VAL:CG1	33:Z:235:GLN:HB3	2.47	0.40
33:Z:529:ALA:O	33:Z:532:HIS:N	2.54	0.40
33:Z:853:GLY:O	33:Z:857:LEU:N	2.54	0.40
1:1:107:SER:OG	12:E:103:TYR:O	91.60	0.40
2:2:35:GLN:HE21	2:2:144:TRP:HE3	1.69	0.40
3:3:106:TYR:CE2	2:9:95:HIS:CG	3.09	0.40
3:3:38:ARG:NH1	3:3:188:SER:O	2.54	0.40
4:4:214:GLU:HA	9:B:225:THR:OG1	2.20	0.40
4:4:48:ARG:NH2	4:4:199:GLY:HA3	2.36	0.40
5:5:176:ASP:OD2	5:5:203:ARG:HD3	2.22	0.40
5:5:3:ASP:O	5:5:7:ILE:HG13	2.20	0.40
5:5:58:THR:HG21	6:6:122:LEU:O	2.21	0.40
6:6:165:VAL:HG21	6:6:195:PHE:CZ	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:8:ARG:O	6:6:8:ARG:HG3	2.21	0.40
7:7:100:TRP:CH2	1:8:163:SER:HA	2.56	0.40
1:8:179:TYR:CE1	1:8:188:LYS:HG2	2.56	0.40
8:A:81:MET:SD	8:A:141:LEU:HB3	2.61	0.40
8:A:214:LEU:HD23	8:A:214:LEU:HA	1.85	0.40
8:A:203:VAL:CG1	8:A:244:ARG:HG3	2.50	0.40
10:C:189:ALA:O	10:C:193:ALA:N	2.38	0.40
10:C:195:LYS:HZ3	10:C:244:ILE:N	2.20	0.40
9:B:12:PHE:CB	10:C:24:TYR:HB2	2.52	0.40
10:C:36:ILE:HG12	10:C:164:SER:CB	2.51	0.40
10:C:46:LEU:HA	10:C:46:LEU:HD23	1.88	0.40
11:D:120:TYR:HB2	11:D:128:PRO:HA	2.03	0.40
11:D:17:ILE:O	11:D:20:VAL:HB	2.22	0.40
11:D:24:LEU:CB	11:D:28:LYS:HZ2	2.33	0.40
1:1:114:HIS:CE1	12:E:102:TYR:HD1	77.60	0.40
12:E:109:VAL:HB	12:E:154:GLN:OE1	2.22	0.40
11:D:11:PHE:CE2	12:E:136:ARG:HB2	2.74	0.40
12:E:84:ASP:OD2	12:E:138:PHE:HA	2.21	0.40
12:E:15:PHE:CZ	13:F:126:ARG:NH1	3.33	0.40
13:F:3:ARG:HH22	13:F:24:TYR:HE1	1.68	0.40
13:F:62:LYS:HE3	13:F:74:LEU:O	2.21	0.40
13:F:85:SER:OG	13:F:86:ASN:N	2.54	0.40
14:G:218:TRP:CD1	14:G:231:VAL:CG2	3.05	0.40
15:H:148:ASN:O	15:H:154:LYS:HG3	2.21	0.40
15:H:295:PHE:CE2	15:H:339:GLN:HB3	2.56	0.40
15:H:385:ARG:NH2	15:H:408:SER:O	2.45	0.40
16:I:259:ASP:C	16:I:263:LEU:HG	2.42	0.40
16:I:268:PHE:CE2	16:I:312:GLN:HB2	2.56	0.40
17:J:167:PRO:HA	17:J:181:GLN:OE1	2.22	0.40
17:J:208:CYS:HB3	17:J:244:ILE:N	2.36	0.40
17:J:251:ASP:O	17:J:257:ARG:HA	2.20	0.40
18:K:260:LEU:HA	18:K:263:GLU:OE1	2.22	0.40
18:K:352:ILE:HG21	18:K:383:ILE:HG22	2.03	0.40
19:L:190:ILE:HG22	19:L:191:ARG:N	2.35	0.40
19:L:228:LYS:NZ	19:L:328:ASN:HA	2.36	0.40
19:L:198:GLU:HG3	19:L:239:ILE:HA	2.02	0.40
19:L:260:ALA:N	19:L:307:GLU:OE2	2.52	0.40
19:L:263:ILE:HA	19:L:266:MET:CE	2.51	0.40
20:M:135:VAL:HA	20:M:158:THR:HG23	2.03	0.40
20:M:19:ASP:O	20:M:23:LEU:N	2.38	0.40
19:L:92:GLU:OE1	20:M:29:GLU:OE2	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:358:ALA:HB2	20:M:380:ALA:HB2	2.04	0.40
20:M:83:VAL:HG23	20:M:84:GLU:N	2.30	0.40
21:N:297:ASP:CG	21:N:921:ARG:HB2	2.42	0.40
21:N:370:SER:O	21:N:373:VAL:HB	2.21	0.40
21:N:373:VAL:HG23	21:N:410:LEU:HD13	2.02	0.40
21:N:381:GLU:O	21:N:385:VAL:HG23	2.21	0.40
21:N:444:HIS:HB2	21:N:477:SER:HA	2.03	0.40
21:N:520:GLY:O	21:N:524:ILE:HG12	2.20	0.40
21:N:535:LEU:HA	21:N:538:LYS:HD2	2.03	0.40
21:N:527:GLY:HA2	21:N:558:ALA:O	2.21	0.40
21:N:599:TYR:CD1	21:N:632:LYS:NZ	2.73	0.40
21:N:612:SER:O	21:N:618:ARG:CZ	2.69	0.40
21:N:886:LYS:HG3	21:N:887:ASP:OD1	2.22	0.40
21:N:763:GLY:N	21:N:906:ARG:HA	2.36	0.40
22:O:166:ARG:NH1	22:O:170:SER:N	2.69	0.40
22:O:30:GLU:HB2	22:O:40:GLN:NE2	2.36	0.40
22:O:93:ASP:CB	22:O:97:LYS:HE3	2.51	0.40
23:P:178:GLN:O	23:P:182:GLU:HG3	2.21	0.40
23:P:208:PHE:CB	23:P:217:LYS:HZ1	2.24	0.40
23:P:224:LEU:HG	23:P:240:TYR:HB3	2.03	0.40
23:P:302:LEU:HB3	23:P:310:ARG:NH1	2.36	0.40
23:P:394:ASN:HA	24:Q:357:VAL:HG12	2.03	0.40
24:Q:130:ARG:HG3	24:Q:132:PHE:H	1.86	0.40
24:Q:60:GLU:O	24:Q:64:LEU:N	2.42	0.40
25:R:109:LYS:O	25:R:112:GLU:HB2	2.20	0.40
25:R:216:ILE:CG2	25:R:321:TYR:HE2	2.34	0.40
25:R:331:ARG:CA	25:R:334:ARG:HB3	2.50	0.40
25:R:342:LEU:HD11	25:R:390:THR:OG1	2.22	0.40
25:R:72:VAL:O	25:R:72:VAL:HG12	2.22	0.40
25:R:76:GLN:CB	25:R:84:LYS:HB3	2.49	0.40
26:S:344:PRO:HG2	26:S:370:LEU:CD2	2.49	0.40
27:T:229:VAL:HG22	27:T:234:TYR:CZ	2.56	0.40
28:U:141:GLU:C	28:U:151:GLU:O	2.60	0.40
28:U:24:ARG:CZ	29:V:100:ARG:HD3	2.51	0.40
29:V:135:ARG:HB2	29:V:157:ARG:CD	2.52	0.40
29:V:294:SER:O	29:V:297:THR:OG1	2.34	0.40
30:W:15:TYR:O	30:W:18:ASN:O	2.40	0.40
30:W:3:LEU:HD12	30:W:3:LEU:HA	1.85	0.40
33:Z:103:TYR:CE1	33:Z:137:TYR:HD1	2.39	0.40
33:Z:327:GLN:NE2	33:Z:463:HIS:CE1	2.90	0.40
33:Z:557:GLU:CB	33:Z:562:TRP:HD1	2.27	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:113:LEU:O	2:2:116:ALA:N	2.54	0.40
2:2:213:ALA:O	2:2:217:LEU:HG	2.22	0.40
2:2:259:LYS:CE	2:2:265:LYS:HA	2.52	0.40
3:3:162:ARG:HB2	3:3:165:MET:CG	2.52	0.40
3:3:121:TYR:CE2	3:3:199:ALA:HA	2.56	0.40
1:1:52:TYR:HA	4:4:196:LEU:HB2	2.03	0.40
4:4:225:ARG:HG2	4:4:226:GLU:O	2.21	0.40
4:4:37:PHE:HZ	4:4:208:GLU:HB2	1.87	0.40
5:5:182:GLY:HA2	5:5:202:MET:CE	2.50	0.40
5:5:188:TYR:HA	5:5:196:VAL:O	2.21	0.40
6:6:139:TYR:HB3	6:6:167:GLU:HG3	2.02	0.40
6:6:32:ASP:OD2	6:6:33:ASP:O	2.39	0.40
7:7:177:CYS:SG	7:7:187:ILE:HG23	2.61	0.40
1:8:144:PHE:N	1:8:144:PHE:CD1	2.87	0.40
1:8:206:SER:HA	1:8:209:SER:HB2	2.02	0.40
1:8:30:THR:CG2	1:8:31:ILE:N	2.85	0.40
2:9:63:TYR:O	2:9:66:LEU:HB3	2.21	0.40
8:A:242:GLU:HA	8:A:242:GLU:OE1	2.21	0.40
8:A:65:ASP:O	8:A:68:THR:OG1	2.34	0.40
8:A:130:GLN:HG3	9:B:128:ARG:CG	2.59	0.40
9:B:12:PHE:HB3	9:B:16:GLY:HA2	2.03	0.40
9:B:75:TYR:HA	9:B:133:SER:O	2.22	0.40
10:C:78:ALA:N	10:C:134:SER:O	2.44	0.40
10:C:175:LEU:O	10:C:179:ASP:N	2.26	0.40
10:C:183:ASP:N	10:C:183:ASP:OD1	2.54	0.40
11:D:103:PRO:HG2	11:D:140:PRO:HG3	2.03	0.40
11:D:159:TRP:HB3	11:D:161:ALA:O	2.21	0.40
11:D:215:VAL:HA	11:D:221:ILE:HG12	2.03	0.40
12:E:144:ILE:O	12:E:155:LEU:HD12	2.21	0.40
12:E:165:TYR:HB2	12:E:167:TYR:CE1	2.57	0.40
13:F:147:PHE:CG	13:F:148:GLN:N	2.90	0.40
13:F:80:ASP:HB2	13:F:130:VAL:HG12	2.04	0.40
14:G:207:ASN:O	14:G:209:GLU:N	2.54	0.40
14:G:48:PHE:HB2	14:G:217:SER:OG	2.22	0.40
14:G:67:ILE:HG23	14:G:76:CYS:O	2.22	0.40
15:H:169:GLU:O	15:H:174:VAL:HA	2.21	0.40
16:I:112:ILE:O	16:I:113:ILE:HD13	2.21	0.40
17:J:156:GLN:HE22	17:J:314:ILE:HG21	1.85	0.40
17:J:35:ARG:HA	17:J:35:ARG:HD2	1.70	0.40
18:K:300:LEU:HD23	18:K:300:LEU:HA	1.84	0.40
18:K:51:LEU:CA	18:K:55:GLU:H	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:322:LYS:HD3	19:L:322:LYS:HA	1.77	0.40
19:L:65:LEU:CB	19:L:69:ARG:HH12	2.34	0.40
20:M:362:GLN:O	20:M:366:ARG:HB2	2.21	0.40
21:N:117:TYR:HD1	21:N:123:PHE:HE1	1.70	0.40
21:N:154:LEU:HD13	21:N:189:LEU:HB2	2.02	0.40
21:N:203:ARG:O	21:N:207:LEU:HG	2.22	0.40
21:N:262:VAL:HB	21:N:289:ILE:HG22	2.03	0.40
21:N:309:ILE:HG22	21:N:311:ILE:N	2.36	0.40
21:N:329:HIS:NE2	21:N:355:TRP:CE3	2.90	0.40
21:N:406:TYR:HA	21:N:449:GLY:HA3	2.02	0.40
21:N:585:ARG:CZ	21:N:651:PHE:HE2	2.34	0.40
21:N:761:ILE:HG13	21:N:903:VAL:CG2	2.52	0.40
21:N:60:MET:HE2	21:N:88:ARG:HE	1.86	0.40
22:O:338:LYS:HB3	22:O:351:SER:HB2	2.02	0.40
22:O:369:ARG:C	22:O:372:GLU:H	2.24	0.40
22:O:83:LEU:HA	22:O:98:TYR:HE1	1.86	0.40
23:P:158:ASP:HA	23:P:161:CYS:HB2	2.04	0.40
23:P:232:ARG:HB3	23:P:234:TYR:OH	2.22	0.40
23:P:261:LEU:O	23:P:264:ILE:N	2.55	0.40
23:P:272:PRO:O	23:P:347:GLU:OE2	2.39	0.40
23:P:292:LYS:HA	23:P:294:GLU:N	2.36	0.40
23:P:65:LEU:O	23:P:69:ARG:HB3	2.21	0.40
24:Q:21:ASN:O	24:Q:24:GLU:HB3	2.21	0.40
24:Q:239:PHE:HA	24:Q:242:SER:OG	2.22	0.40
24:Q:259:CYS:O	24:Q:263:LYS:HG3	2.20	0.40
24:Q:294:ARG:HB3	24:Q:321:TYR:CD1	2.52	0.40
24:Q:361:HIS:O	24:Q:365:ILE:HG13	2.21	0.40
24:Q:362:ILE:HA	24:Q:365:ILE:HD12	2.03	0.40
24:Q:410:ASP:OD1	24:Q:410:ASP:N	2.50	0.40
24:Q:47:ASP:CG	24:Q:51:ARG:HB2	2.42	0.40
24:Q:41:ALA:HB1	24:Q:84:TYR:HB3	2.03	0.40
25:R:58:GLU:CD	25:R:144:ILE:HG12	2.41	0.40
25:R:335:ARG:O	25:R:336:LYS:C	2.60	0.40
25:R:336:LYS:O	25:R:340:GLN:OE1	2.38	0.40
25:R:60:ALA:O	25:R:61:PRO:C	2.59	0.40
26:S:144:LEU:O	26:S:152:LEU:HD21	2.21	0.40
26:S:306:SER:HA	26:S:310:LEU:HB2	2.01	0.40
26:S:402:ILE:HB	26:S:407:ILE:CG1	2.37	0.40
26:S:454:SER:O	26:S:457:PRO:HD2	2.22	0.40
27:T:69:SER:HA	27:T:72:THR:OG1	2.20	0.40
27:T:96:LEU:H	27:T:96:LEU:HG	1.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:140:ILE:C	28:U:153:THR:CB	2.82	0.40
28:U:64:ASP:O	28:U:66:TRP:CD1	2.75	0.40
29:V:206:THR:HG23	29:V:209:GLU:H	1.85	0.40
29:V:36:LYS:NZ	29:V:67:ASP:OD1	2.52	0.40
31:X:38:ASN:OD1	31:X:47:ASP:OD2	2.39	0.40
31:X:47:ASP:HB3	31:X:65:SER:HG	1.85	0.40
31:X:78:ILE:O	31:X:78:ILE:HG22	2.21	0.40
33:Z:138:ARG:HG3	33:Z:203:LEU:CD1	2.52	0.40
33:Z:208:VAL:HG22	33:Z:232:LYS:CG	2.51	0.40
33:Z:384:SER:O	33:Z:387:ASN:HB2	2.20	0.40
33:Z:433:LEU:HB3	33:Z:437:ASP:CG	2.42	0.40
33:Z:440:LEU:HB2	33:Z:451:ALA:CB	2.51	0.40
33:Z:553:ARG:NH1	33:Z:557:GLU:O	2.52	0.40
33:Z:286:VAL:HB	33:Z:872:VAL:HG13	2.03	0.40
1:1:32:LEU:HD13	1:1:157:ALA:HB2	2.04	0.40
2:2:108:ALA:HA	2:2:114:ALA:CB	2.52	0.40
2:2:63:TYR:O	2:2:66:LEU:HB3	2.21	0.40
2:2:83:VAL:O	2:2:150:ALA:N	2.55	0.40
4:4:177:LYS:NZ	4:4:211:LYS:HZ3	2.18	0.40
4:4:47:THR:HG21	4:4:201:ASN:HB2	2.02	0.40
5:5:38:ASN:HB3	5:5:183:TRP:CE3	2.56	0.40
5:5:51:LEU:HD22	5:5:87:PHE:HZ	1.87	0.40
6:6:33:ASP:HA	6:6:180:ILE:HD12	2.03	0.40
7:7:120:MET:HG3	7:7:127:CYS:HB2	2.02	0.40
7:7:152:ALA:HA	7:7:196:ARG:NH2	2.36	0.40
1:8:110:ARG:HG3	12:E:102:TYR:O	2.21	0.40
1:8:180:GLU:O	1:8:183:THR:OG1	2.23	0.40
1:8:97:ASP:HB2	1:8:98:HIS:ND1	2.36	0.40
2:9:114:ALA:O	2:9:119:ALA:HA	2.22	0.40
2:9:177:THR:C	2:9:181:ALA:H	2.25	0.40
8:A:45:VAL:HA	8:A:168:ALA:HB1	2.03	0.40
8:A:48:LYS:HA	8:A:193:HIS:ND1	2.37	0.40
9:B:21:ILE:HD11	9:B:122:THR:HG23	2.03	0.40
9:B:23:TYR:O	9:B:26:THR:HB	2.22	0.40
10:C:98:TYR:CD1	10:C:106:ILE:HA	2.56	0.40
10:C:211:LEU:HD23	10:C:211:LEU:HA	1.92	0.40
10:C:231:LYS:N	10:C:234:GLU:OE1	2.47	0.40
11:D:115:GLY:CA	11:D:118:GLN:HB3	2.46	0.40
12:E:135:SER:OG	12:E:136:ARG:HG2	2.22	0.40
12:E:85:ALA:O	12:E:86:ARG:C	2.60	0.40
14:G:122:ALA:HA	14:G:125:LEU:CD1	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:13:PHE:CZ	14:G:131:PRO:O	2.65	0.40
15:H:252:PRO:O	15:H:254:THR:HG23	2.22	0.40
15:H:400:ARG:O	15:H:403:ARG:NH1	2.55	0.40
16:I:380:LEU:O	16:I:384:LYS:HG3	2.21	0.40
17:J:39:GLU:CB	26:S:480:ARG:CZ	2.99	0.40
18:K:185:ARG:HG3	18:K:189:GLU:HB3	2.03	0.40
18:K:154:SER:HA	18:K:253:MET:CE	2.51	0.40
19:L:111:GLU:HG3	19:L:113:SER:O	2.21	0.40
19:L:395:ALA:O	19:L:399:GLY:N	2.54	0.40
19:L:401:PHE:CD1	19:L:404:ARG:HD3	2.57	0.40
19:L:77:ARG:O	19:L:81:ILE:HG13	2.21	0.40
20:M:185:GLY:HA3	20:M:356:SER:HB3	2.04	0.40
20:M:354:GLU:O	20:M:380:ALA:HB1	2.20	0.40
21:N:130:ASP:OD2	21:N:132:LYS:HD2	2.22	0.40
21:N:135:SER:O	21:N:139:ARG:HG3	2.21	0.40
21:N:312:GLY:HA2	21:N:315:ASN:HD22	1.86	0.40
21:N:348:PHE:CD1	21:N:351:ALA:HB3	2.57	0.40
21:N:505:SER:HA	21:N:517:LEU:HD12	2.03	0.40
21:N:602:VAL:HG12	21:N:625:LEU:HD13	2.04	0.40
21:N:775:CYS:HB2	21:N:882:ILE:CA	2.46	0.40
21:N:69:TYR:CE2	21:N:81:TYR:HD2	2.26	0.40
21:N:897:LYS:HG2	21:N:899:ASN:HD21	1.86	0.40
22:O:11:LEU:HD22	22:O:14:LEU:HB3	2.01	0.40
22:O:222:LEU:O	22:O:225:ASP:OD2	2.40	0.40
22:O:283:HIS:HA	22:O:286:PHE:HB2	2.04	0.40
22:O:302:VAL:HA	22:O:305:ILE:HD11	2.02	0.40
22:O:366:MET:O	22:O:370:LEU:HG	2.22	0.40
22:O:41:LEU:HD11	22:O:81:TYR:CG	2.56	0.40
22:O:75:GLN:HG3	22:O:76:LEU:H	1.87	0.40
22:O:51:ASP:HA	22:O:81:TYR:CE1	2.57	0.40
23:P:314:VAL:HA	23:P:317:THR:CB	2.51	0.40
23:P:267:PHE:HE1	23:P:329:PHE:HD1	1.69	0.40
23:P:415:TRP:HE1	29:V:297:THR:HB	1.87	0.40
24:Q:130:ARG:HH22	24:Q:137:LEU:CD1	2.34	0.40
24:Q:151:TYR:HB3	24:Q:184:VAL:HG13	2.03	0.40
24:Q:235:ALA:O	24:Q:238:TYR:HB2	2.22	0.40
24:Q:246:TYR:HA	24:Q:249:LEU:HD12	2.03	0.40
24:Q:285:LYS:HG2	24:Q:288:LYS:CE	2.51	0.40
24:Q:26:VAL:HA	24:Q:29:SER:HB2	2.02	0.40
24:Q:42:ALA:HB2	24:Q:47:ASP:CG	2.42	0.40
24:Q:7:LYS:HZ1	24:Q:34:ASP:CB	2.27	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:156:LYS:HA	25:R:159:SER:HB2	2.03	0.40
25:R:147:LYS:HB2	25:R:181:TYR:OH	2.22	0.40
24:Q:390:LEU:HG	25:R:344:SER:O	2.21	0.40
25:R:36:SER:HA	25:R:42:GLN:HG2	2.04	0.40
25:R:401:HIS:HA	26:S:452:TYR:OH	2.21	0.40
26:S:156:VAL:HA	26:S:159:ASN:ND2	2.36	0.40
26:S:404:LEU:HB2	26:S:441:GLY:C	2.42	0.40
26:S:471:LEU:HD13	28:U:292:ILE:HD12	2.03	0.40
26:S:51:ARG:C	26:S:53:ILE:H	2.24	0.40
26:S:9:ASP:O	26:S:12:SER:OG	2.19	0.40
27:T:106:ILE:CD1	27:T:109:TYR:HD2	2.32	0.40
27:T:145:PRO:O	27:T:148:LEU:HB2	2.22	0.40
27:T:161:TRP:HE3	27:T:162:ASP:OD1	2.04	0.40
27:T:232:LYS:HB3	27:T:234:TYR:CE1	2.56	0.40
27:T:62:LEU:HD13	27:T:85:LEU:HA	2.03	0.40
28:U:212:ASP:HA	28:U:215:ILE:CB	2.48	0.40
28:U:259:ASN:HB3	28:U:260:ASN:H	1.54	0.40
30:W:180:LEU:HD13	30:W:182:TYR:OH	2.21	0.40
32:Y:84:TYR:HA	32:Y:87:GLU:CD	2.40	0.40
33:Z:336:SER:O	33:Z:340:LEU:HG	2.21	0.40
33:Z:505:VAL:HG22	33:Z:509:LEU:CD1	2.51	0.40
33:Z:530:LEU:HD23	33:Z:533:VAL:HG21	2.03	0.40
33:Z:535:VAL:HG13	33:Z:572:ILE:HG22	2.03	0.40
2:2:254:PHE:H	4:4:173:GLN:NE2	2.20	0.40
2:2:35:GLN:NE2	2:2:142:PRO:HG2	2.36	0.40
3:3:128:GLU:HB3	3:3:130:TYR:CE2	2.56	0.40
3:3:162:ARG:HH21	3:3:165:MET:CE	2.35	0.40
3:3:161:PHE:CG	3:3:162:ARG:N	2.89	0.40
3:3:121:TYR:CZ	3:3:199:ALA:N	2.90	0.40
4:4:82:GLU:O	4:4:85:THR:HB	2.21	0.40
5:5:135:ASP:CG	5:5:136:PHE:N	2.75	0.40
4:4:236:ARG:NE	5:5:161:GLU:HB2	2.36	0.40
6:6:120:ASP:CG	6:6:122:LEU:HB2	2.41	0.40
6:6:153:THR:H	6:6:156:GLU:CD	2.25	0.40
6:6:91:SER:O	6:6:94:SER:HB3	2.22	0.40
7:7:113:ASN:O	7:7:260:TRP:NE1	2.54	0.40
7:7:189:TYR:HE2	7:7:191:ASP:HB3	1.87	0.40
7:7:261:ILE:O	7:7:263:HIS:CD2	2.75	0.40
7:7:79:LEU:HD21	7:7:236:ILE:HG12	2.02	0.40
7:7:88:ILE:HG13	7:7:228:ALA:CB	2.51	0.40
1:8:91:VAL:HG12	1:8:95:HIS:HD2	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:108:ALA:HA	2:9:114:ALA:CB	2.52	0.40
2:9:152:VAL:HB	2:9:233:ILE:HG22	2.03	0.40
2:9:192:VAL:O	2:9:192:VAL:HG23	2.21	0.40
2:9:213:ALA:O	2:9:217:LEU:HG	2.22	0.40
8:A:135:ARG:NE	14:G:125:LEU:HD23	2.36	0.40
8:A:20:SER:HB3	8:A:26:TYR:HE1	1.87	0.40
8:A:228:ALA:HB2	8:A:233:PHE:HD1	1.87	0.40
9:B:64:VAL:HB	9:B:210:GLU:OE2	2.21	0.40
10:C:119:LYS:HB2	10:C:155:GLY:HA2	2.04	0.40
10:C:119:LYS:NZ	10:C:152:ASN:N	2.70	0.40
10:C:25:ALA:O	10:C:29:ILE:HG13	2.21	0.40
10:C:7:ASP:OD2	11:D:6:ARG:CD	2.68	0.40
11:D:137:GLY:C	11:D:138:PHE:HD1	2.25	0.40
12:E:208:MET:SD	12:E:212:LEU:HB2	2.62	0.40
14:G:116:LEU:O	14:G:119:TYR:HB3	2.22	0.40
14:G:12:ASN:HB3	14:G:127:ASN:CA	2.49	0.40
14:G:179:LEU:HD23	14:G:179:LEU:HA	1.80	0.40
14:G:201:TYR:O	14:G:205:GLU:N	2.55	0.40
15:H:217:GLN:HE21	15:H:248:LEU:CD2	2.34	0.40
15:H:311:ILE:HG21	15:H:353:PHE:HB3	2.04	0.40
15:H:365:LEU:HA	15:H:370:ARG:HD3	2.03	0.40
15:H:387:ASN:HA	15:H:390:ARG:HH11	1.84	0.40
16:I:261:PRO:O	16:I:265:ARG:HG3	2.22	0.40
16:I:307:LEU:HD23	16:I:335:ASP:OD2	2.21	0.40
18:K:183:GLU:O	18:K:336:ARG:NH2	2.47	0.40
19:L:364:HIS:HB2	19:L:391:ILE:HG22	2.04	0.40
19:L:375:ASP:O	19:L:415:LEU:HD21	2.22	0.40
20:M:135:VAL:HG12	20:M:158:THR:HG23	2.02	0.40
20:M:260:ALA:N	20:M:304:THR:HG22	2.36	0.40
20:M:422:VAL:HG12	20:M:424:ALA:H	1.86	0.40
15:H:145:TYR:N	20:M:75:LEU:O	2.54	0.40
21:N:299:TYR:CE2	21:N:303:LEU:HD11	2.56	0.40
21:N:350:LYS:HB2	21:N:350:LYS:HE2	1.87	0.40
21:N:464:GLU:O	21:N:468:GLU:OE1	2.40	0.40
21:N:223:LEU:HB3	21:N:894:ARG:HH22	1.87	0.40
21:N:763:GLY:HA3	21:N:907:ASP:H	1.86	0.40
21:N:919:THR:CG2	21:N:921:ARG:HB3	2.45	0.40
22:O:255:LEU:O	22:O:258:LEU:HB2	2.21	0.40
22:O:270:ILE:HG13	22:O:270:ILE:O	2.21	0.40
22:O:298:GLU:OE2	22:O:358:ILE:HG21	2.22	0.40
22:O:45:LEU:HA	22:O:48:PHE:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:46:THR:O	22:O:49:PHE:HB3	2.21	0.40
22:O:5:HIS:CE1	22:O:31:LYS:CG	2.93	0.40
23:P:147:LYS:HZ1	23:P:159:ILE:HG21	1.81	0.40
23:P:170:SER:HA	23:P:176:LYS:HD2	2.04	0.40
23:P:221:TYR:CE1	23:P:241:LEU:HA	2.56	0.40
24:Q:151:TYR:CD1	24:Q:184:VAL:HG13	2.55	0.40
24:Q:158:ILE:O	24:Q:161:LEU:HB2	2.22	0.40
24:Q:14:LEU:CB	24:Q:23:ALA:HB2	2.49	0.40
24:Q:257:LYS:HA	24:Q:260:GLN:CD	2.42	0.40
24:Q:275:ILE:HG22	24:Q:279:LYS:HZ3	1.86	0.40
25:R:395:ASN:O	25:R:400:TYR:HD2	2.04	0.40
25:R:64:LYS:C	25:R:81:HIS:NE2	2.74	0.40
26:S:180:ASN:HB3	26:S:183:LEU:HB2	2.03	0.40
26:S:324:MET:HB2	26:S:326:ASP:OD2	2.21	0.40
26:S:366:LYS:HD3	26:S:367:TYR:CE2	2.56	0.40
26:S:396:SER:C	26:S:398:THR:H	2.25	0.40
26:S:423:VAL:HG13	26:S:424:SER:N	2.36	0.40
26:S:456:ASP:N	26:S:457:PRO:HD2	2.35	0.40
26:S:470:GLN:O	26:S:474:GLU:HB2	2.22	0.40
26:S:438:HIS:CD2	27:T:197:TYR:OH	2.75	0.40
27:T:216:GLU:O	27:T:220:PHE:CD2	2.75	0.40
22:O:380:LEU:HD22	27:T:258:ASN:HB2	2.02	0.40
28:U:167:GLU:O	28:U:169:ILE:N	2.55	0.40
29:V:50:MET:HA	29:V:109:HIS:CE1	2.56	0.40
29:V:120:SER:O	29:V:124:ASN:N	2.28	0.40
29:V:232:GLU:CA	29:V:235:GLU:HB3	2.47	0.40
30:W:65:PHE:CZ	30:W:101:ARG:HA	2.56	0.40
30:W:113:PHE:CD1	30:W:142:ILE:HG21	2.57	0.40
30:W:127:ARG:O	30:W:130:LYS:HB2	2.21	0.40
30:W:131:THR:CA	30:W:134:LYS:HD2	2.49	0.40
31:X:77:PRO:O	31:X:113:GLU:HB3	2.22	0.40
33:Z:145:ASP:HB2	33:Z:154:ILE:CD1	2.51	0.40
33:Z:593:HIS:HB3	33:Z:594:PRO:HD2	2.03	0.40
33:Z:762:GLY:CA	33:Z:792:VAL:HG21	2.47	0.40
33:Z:868:ASN:HB3	33:Z:909:ARG:NH1	2.30	0.40
33:Z:738:TYR:CE1	33:Z:885:ALA:HB1	2.57	0.40
33:Z:970:TYR:HB2	33:Z:983:LEU:HD22	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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	1	220/241 (91%)	202 (92%)	17 (8%)	1 (0%)	32	74
1	8	220/241 (91%)	202 (92%)	17 (8%)	1 (0%)	32	74
2	2	231/266 (87%)	210 (91%)	21 (9%)	0	100	100
2	9	231/266 (87%)	210 (91%)	21 (9%)	0	100	100
3	3	203/215 (94%)	180 (89%)	22 (11%)	1 (0%)	32	74
3	h	203/215 (94%)	179 (88%)	23 (11%)	1 (0%)	32	74
4	4	220/261 (84%)	206 (94%)	14 (6%)	0	100	100
4	i	220/261 (84%)	206 (94%)	14 (6%)	0	100	100
5	5	202/205 (98%)	185 (92%)	16 (8%)	1 (0%)	32	74
5	j	202/205 (98%)	185 (92%)	16 (8%)	1 (0%)	32	74
6	6	196/198 (99%)	175 (89%)	19 (10%)	2 (1%)	18	61
6	k	196/198 (99%)	174 (89%)	19 (10%)	3 (2%)	12	53
7	7	210/287 (73%)	188 (90%)	20 (10%)	2 (1%)	18	61
7	l	210/287 (73%)	190 (90%)	19 (9%)	1 (0%)	32	74
8	A	241/252 (96%)	220 (91%)	21 (9%)	0	100	100
8	a	241/252 (96%)	220 (91%)	21 (9%)	0	100	100
9	B	248/250 (99%)	225 (91%)	23 (9%)	0	100	100
9	b	248/250 (99%)	225 (91%)	23 (9%)	0	100	100
10	C	242/258 (94%)	220 (91%)	19 (8%)	3 (1%)	15	58
10	c	242/258 (94%)	220 (91%)	19 (8%)	3 (1%)	15	58
11	D	239/254 (94%)	215 (90%)	24 (10%)	0	100	100
11	d	239/254 (94%)	215 (90%)	24 (10%)	0	100	100
12	E	240/260 (92%)	215 (90%)	23 (10%)	2 (1%)	22	66
12	e	240/260 (92%)	215 (90%)	23 (10%)	2 (1%)	22	66
13	F	231/234 (99%)	210 (91%)	19 (8%)	2 (1%)	20	63

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
13	f	231/234 (99%)	210 (91%)	19 (8%)	2 (1%)	20	63
14	G	242/288 (84%)	216 (89%)	25 (10%)	1 (0%)	38	77
14	g	242/288 (84%)	216 (89%)	24 (10%)	2 (1%)	22	66
15	H	350/467 (75%)	286 (82%)	56 (16%)	8 (2%)	7	44
16	I	321/437 (74%)	286 (89%)	33 (10%)	2 (1%)	28	70
17	J	371/405 (92%)	332 (90%)	31 (8%)	8 (2%)	8	45
18	K	357/428 (83%)	306 (86%)	45 (13%)	6 (2%)	11	51
19	L	354/437 (81%)	302 (85%)	51 (14%)	1 (0%)	44	81
20	M	349/434 (80%)	306 (88%)	40 (12%)	3 (1%)	20	63
21	N	843/945 (89%)	656 (78%)	174 (21%)	13 (2%)	12	53
22	O	372/393 (95%)	250 (67%)	103 (28%)	19 (5%)	2	27
23	P	427/445 (96%)	305 (71%)	99 (23%)	23 (5%)	2	26
24	Q	429/434 (99%)	350 (82%)	76 (18%)	3 (1%)	25	68
25	R	398/429 (93%)	281 (71%)	94 (24%)	23 (6%)	2	24
26	S	435/523 (83%)	313 (72%)	103 (24%)	19 (4%)	3	30
27	T	265/274 (97%)	190 (72%)	74 (28%)	1 (0%)	38	77
28	U	244/338 (72%)	198 (81%)	39 (16%)	7 (3%)	5	39
29	V	237/306 (78%)	176 (74%)	53 (22%)	8 (3%)	4	36
30	W	195/268 (73%)	157 (80%)	30 (15%)	8 (4%)	3	31
31	X	125/156 (80%)	94 (75%)	26 (21%)	5 (4%)	3	32
32	Y	32/89 (36%)	21 (66%)	9 (28%)	2 (6%)	1	23
33	Z	757/993 (76%)	665 (88%)	80 (11%)	12 (2%)	11	52
All	All	13191/15139 (87%)	11208 (85%)	1781 (14%)	202 (2%)	17	53

All (202) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
16	I	253	ILE
17	J	321	VAL
18	K	342	SER
18	K	344	ARG
25	R	239	THR
25	R	284	ALA
25	R	285	ALA

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Mol	Chain	Res	Type
25	R	286	LEU
26	S	25	TYR
26	S	40	GLU
26	S	44	THR
26	S	55	ARG
26	S	201	ILE
26	S	301	PRO
26	S	431	VAL
28	U	139	ALA
28	U	140	ILE
30	W	67	ALA
30	W	105	VAL
31	X	64	ILE
31	X	78	ILE
6	k	2	ASP
6	k	3	ILE
10	C	222	ASP
18	K	158	ILE
18	K	160	VAL
21	N	761	ILE
22	O	16	MET
22	O	302	VAL
23	P	108	LYS
23	P	109	SER
23	P	425	HIS
25	R	289	ILE
26	S	57	LEU
26	S	73	THR
29	V	68	VAL
29	V	159	ILE
29	V	290	ASN
31	X	24	CYS
33	Z	368	VAL
33	Z	370	SER
10	c	222	ASP
14	g	129	VAL
6	6	2	ASP
20	M	163	PHE
21	N	741	TYR
21	N	874	ILE
22	O	15	ARG
22	O	92	PHE

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Mol	Chain	Res	Type
22	O	93	ASP
22	O	226	LYS
22	O	233	LEU
22	O	303	LYS
22	O	352	TRP
22	O	366	MET
23	P	85	LYS
23	P	411	LEU
25	R	353	MET
26	S	470	GLN
28	U	209	GLU
29	V	163	ALA
33	Z	466	GLU
7	7	129	PHE
14	G	43	ASN
15	H	454	TYR
17	J	135	SER
17	J	318	PRO
17	J	319	PRO
18	K	159	SER
21	N	572	LEU
21	N	903	VAL
22	O	18	ALA
22	O	44	SER
22	O	65	PHE
22	O	70	TYR
22	O	289	GLN
23	P	243	GLU
23	P	288	ASN
23	P	412	LEU
25	R	64	LYS
25	R	223	ASN
25	R	241	ILE
25	R	287	GLN
25	R	420	ALA
25	R	421	VAL
26	S	177	ASN
26	S	230	LYS
27	T	251	HIS
28	U	130	VAL
28	U	305	ARG
29	V	240	ALA

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Mol	Chain	Res	Type
30	W	68	GLU
30	W	79	THR
30	W	147	ILE
31	X	29	VAL
32	Y	67	VAL
33	Z	277	GLU
33	Z	483	THR
33	Z	802	ASP
14	g	43	ASN
7	7	152	ALA
10	C	99	LEU
15	H	186	PRO
15	H	190	ARG
15	H	194	SER
17	J	317	PRO
21	N	179	THR
21	N	476	THR
21	N	913	PRO
22	O	210	ARG
23	P	132	VAL
23	P	167	THR
23	P	382	ASP
23	P	436	GLU
25	R	197	MET
25	R	210	TYR
25	R	320	LYS
25	R	399	GLN
26	S	69	LEU
26	S	74	LEU
10	c	99	LEU
7	l	152	ALA
1	1	79	ASP
3	3	77	ILE
1	8	79	ASP
12	E	204	LEU
13	F	113	CYS
20	M	33	ARG
21	N	85	ALA
22	O	83	LEU
22	O	353	VAL
23	P	41	VAL
23	P	255	ALA

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Mol	Chain	Res	Type
23	P	296	GLN
24	Q	114	GLN
24	Q	128	GLU
25	R	114	ASN
25	R	258	LEU
26	S	225	HIS
26	S	342	LEU
26	S	404	LEU
26	S	447	GLU
29	V	282	GLU
30	W	78	ASP
33	Z	232	LYS
33	Z	243	GLN
33	Z	434	GLN
12	e	204	LEU
13	f	113	CYS
15	H	192	ASP
16	I	302	ILE
17	J	55	VAL
17	J	134	VAL
21	N	450	ILE
21	N	914	VAL
23	P	237	VAL
23	P	320	PRO
25	R	72	VAL
25	R	384	VAL
28	U	132	LEU
28	U	133	PRO
30	W	30	ILE
31	X	28	PRO
33	Z	925	VAL
3	h	77	ILE
10	C	86	ILE
15	H	168	ILE
19	L	81	ILE
20	M	167	VAL
21	N	617	VAL
23	P	119	ILE
23	P	281	ILE
26	S	187	ILE
32	Y	69	VAL
10	c	86	ILE

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Mol	Chain	Res	Type
15	H	191	ILE
17	J	41	VAL
21	N	583	VAL
23	P	260	VAL
23	P	264	ILE
23	P	433	ILE
25	R	330	VAL
25	R	361	VAL
29	V	32	ILE
29	V	144	ILE
30	W	118	ILE
33	Z	286	VAL
5	5	105	VAL
6	6	9	VAL
13	F	29	ILE
18	K	223	VAL
22	O	363	ILE
23	P	380	ILE
24	Q	281	ILE
25	R	110	ILE
33	Z	480	ASN
13	f	29	ILE
5	j	105	VAL
6	k	9	VAL
12	E	89	ILE
15	H	96	PRO
12	e	89	ILE

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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	1	185/201 (92%)	185 (100%)	0	100	100
1	8	185/201 (92%)	185 (100%)	0	100	100
2	2	199/224 (89%)	198 (100%)	1 (0%)	91	95

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	9	199/224 (89%)	198 (100%)	1 (0%)	91	95
3	3	168/178 (94%)	167 (99%)	1 (1%)	89	94
3	h	168/178 (94%)	168 (100%)	0	100	100
4	4	181/214 (85%)	181 (100%)	0	100	100
4	i	181/214 (85%)	181 (100%)	0	100	100
5	5	172/173 (99%)	172 (100%)	0	100	100
5	j	172/173 (99%)	172 (100%)	0	100	100
6	6	175/175 (100%)	174 (99%)	1 (1%)	89	94
6	k	175/175 (100%)	174 (99%)	1 (1%)	89	94
7	7	169/235 (72%)	169 (100%)	0	100	100
7	l	169/235 (72%)	168 (99%)	1 (1%)	89	94
8	A	207/210 (99%)	207 (100%)	0	100	100
8	a	207/210 (99%)	207 (100%)	0	100	100
9	B	209/209 (100%)	209 (100%)	0	100	100
9	b	209/209 (100%)	209 (100%)	0	100	100
10	C	203/216 (94%)	203 (100%)	0	100	100
10	c	203/216 (94%)	203 (100%)	0	100	100
11	D	213/226 (94%)	213 (100%)	0	100	100
11	d	213/226 (94%)	213 (100%)	0	100	100
12	E	198/215 (92%)	196 (99%)	2 (1%)	80	90
12	e	198/215 (92%)	198 (100%)	0	100	100
13	F	192/193 (100%)	192 (100%)	0	100	100
13	f	192/193 (100%)	192 (100%)	0	100	100
14	G	201/239 (84%)	201 (100%)	0	100	100
14	g	201/239 (84%)	201 (100%)	0	100	100
15	H	301/399 (75%)	300 (100%)	1 (0%)	94	96
16	I	284/385 (74%)	282 (99%)	2 (1%)	87	93
17	J	325/352 (92%)	324 (100%)	1 (0%)	94	96
18	K	316/374 (84%)	315 (100%)	1 (0%)	94	96
19	L	306/377 (81%)	306 (100%)	0	100	100
20	M	303/375 (81%)	303 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
21	N	713/797 (90%)	713 (100%)	0	100	100
22	O	350/368 (95%)	347 (99%)	3 (1%)	82	91
23	P	384/415 (92%)	381 (99%)	3 (1%)	85	92
24	Q	388/391 (99%)	387 (100%)	1 (0%)	94	96
25	R	351/379 (93%)	348 (99%)	3 (1%)	82	91
26	S	342/489 (70%)	336 (98%)	6 (2%)	64	84
27	T	250/256 (98%)	250 (100%)	0	100	100
28	U	228/308 (74%)	225 (99%)	3 (1%)	73	87
29	V	211/268 (79%)	204 (97%)	7 (3%)	43	71
30	W	171/230 (74%)	171 (100%)	0	100	100
31	X	116/144 (81%)	116 (100%)	0	100	100
32	Y	18/81 (22%)	18 (100%)	0	100	100
33	Z	645/850 (76%)	643 (100%)	2 (0%)	94	96
All	All	11346/13054 (87%)	11305 (100%)	41 (0%)	93	95

All (41) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	2	197	ASP
3	3	18	LEU
6	6	1	MET
2	9	197	ASP
12	E	243	LEU
12	E	244	LYS
15	H	95	HIS
16	I	252	LEU
16	I	253	ILE
17	J	258	VAL
18	K	343	LEU
22	O	4	ASN
22	O	14	LEU
22	O	138	LEU
23	P	106	SER
23	P	108	LYS
23	P	337	HIS
24	Q	389	VAL
25	R	148	ASP

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Mol	Chain	Res	Type
25	R	406	GLN
25	R	417	TYR
26	S	22	GLU
26	S	179	ILE
26	S	297	ILE
26	S	396	SER
26	S	464	ARG
26	S	475	TYR
28	U	189	ARG
28	U	291	LEU
28	U	297	GLN
29	V	37	MET
29	V	53	MET
29	V	108	TYR
29	V	258	GLU
29	V	281	SER
29	V	288	LEU
29	V	289	GLU
33	Z	367	SER
33	Z	369	PHE
6	k	2	ASP
7	l	131	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (275) such sidechains are listed below:

Mol	Chain	Res	Type
1	1	113	GLN
1	1	154	GLN
2	2	35	GLN
2	2	36	GLN
2	2	51	ASN
2	2	70	ASN
2	2	95	HIS
2	2	227	ASN
2	2	246	GLN
3	3	164	ASN
3	3	176	HIS
3	3	180	GLN
4	4	86	GLN
4	4	91	ASN
4	4	110	GLN
4	4	115	HIS

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Mol	Chain	Res	Type
4	4	122	HIS
4	4	173	GLN
5	5	72	ASN
5	5	89	GLN
6	6	37	GLN
6	6	112	ASN
6	6	118	GLN
6	6	146	HIS
6	6	198	GLN
7	7	141	HIS
7	7	251	ASN
1	8	113	GLN
1	8	154	GLN
2	9	35	GLN
2	9	36	GLN
2	9	51	ASN
2	9	70	ASN
2	9	94	GLN
2	9	95	HIS
2	9	227	ASN
2	9	246	GLN
8	A	123	ASN
8	A	130	GLN
8	A	175	GLN
8	A	176	GLN
8	A	181	ASN
10	C	21	GLN
10	C	31	HIS
10	C	59	GLN
10	C	94	HIS
10	C	96	GLN
10	C	124	GLN
10	C	173	GLN
10	C	177	GLN
11	D	16	HIS
11	D	19	GLN
11	D	70	HIS
11	D	94	GLN
11	D	162	GLN
11	D	204	GLN
11	D	235	GLN
12	E	23	GLN

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Mol	Chain	Res	Type
12	E	91	HIS
12	E	114	GLN
12	E	147	HIS
12	E	233	ASN
13	F	69	HIS
13	F	93	ASN
13	F	119	ASN
13	F	121	GLN
13	F	148	GLN
13	F	199	GLN
14	G	23	GLN
14	G	90	ASN
14	G	170	GLN
14	G	195	GLN
14	G	237	GLN
15	H	265	ASN
15	H	339	GLN
16	I	274	ASN
16	I	295	ASN
16	I	303	GLN
17	J	47	GLN
17	J	49	ASN
17	J	52	ASN
17	J	111	GLN
17	J	128	ASN
17	J	156	GLN
17	J	205	HIS
17	J	331	HIS
17	J	379	GLN
17	J	393	ASN
18	K	182	GLN
18	K	264	ASN
18	K	285	GLN
18	K	302	GLN
18	K	375	ASN
18	K	404	GLN
19	L	67	HIS
19	L	80	ASN
19	L	103	GLN
19	L	133	ASN
20	M	71	ASN
20	M	74	GLN

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Mol	Chain	Res	Type
20	M	311	GLN
20	M	359	GLN
20	M	364	HIS
20	M	375	ASN
20	M	405	ASN
21	N	182	ASN
21	N	226	ASN
21	N	231	ASN
21	N	300	ASN
21	N	305	ASN
21	N	308	ASN
21	N	340	HIS
21	N	378	ASN
21	N	666	GLN
21	N	688	ASN
21	N	716	GLN
21	N	870	ASN
21	N	899	ASN
21	N	922	GLN
22	O	4	ASN
22	O	5	HIS
22	O	75	GLN
22	O	107	GLN
22	O	212	GLN
22	O	236	HIS
22	O	244	ASN
22	O	304	ASN
22	O	323	ASN
22	O	362	GLN
22	O	374	ASN
23	P	38	GLN
23	P	88	GLN
23	P	210	ASN
23	P	242	GLN
23	P	288	ASN
23	P	296	GLN
23	P	342	GLN
23	P	349	ASN
23	P	440	HIS
24	Q	19	GLN
24	Q	63	GLN
24	Q	114	GLN

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Mol	Chain	Res	Type
24	Q	186	HIS
24	Q	226	HIS
24	Q	253	ASN
24	Q	283	ASN
24	Q	308	ASN
24	Q	336	ASN
24	Q	361	HIS
24	Q	379	GLN
24	Q	420	ASN
25	R	23	ASN
25	R	100	ASN
25	R	114	ASN
25	R	136	ASN
25	R	340	GLN
25	R	366	ASN
25	R	399	GLN
26	S	20	HIS
26	S	159	ASN
26	S	177	ASN
26	S	235	ASN
26	S	243	ASN
26	S	280	ASN
26	S	314	ASN
26	S	339	GLN
26	S	458	GLN
27	T	17	ASN
27	T	37	ASN
27	T	94	HIS
27	T	123	HIS
27	T	127	GLN
27	T	135	ASN
27	T	204	ASN
27	T	238	GLN
27	T	258	ASN
27	T	272	ASN
28	U	26	GLN
28	U	192	ASN
28	U	223	HIS
28	U	230	GLN
28	U	259	ASN
28	U	260	ASN
28	U	280	ASN

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Mol	Chain	Res	Type
28	U	298	ASN
28	U	302	GLN
29	V	64	ASN
29	V	102	GLN
29	V	111	HIS
29	V	184	ASN
29	V	190	HIS
29	V	193	ASN
29	V	215	ASN
29	V	217	HIS
29	V	250	GLN
29	V	291	ASN
30	W	29	GLN
30	W	38	GLN
30	W	42	ASN
30	W	92	GLN
30	W	95	GLN
30	W	106	GLN
30	W	143	ASN
30	W	149	GLN
31	X	105	ASN
32	Y	88	ASN
33	Z	132	HIS
33	Z	156	HIS
33	Z	235	GLN
33	Z	317	GLN
33	Z	327	GLN
33	Z	364	ASN
33	Z	380	ASN
33	Z	396	ASN
33	Z	435	GLN
33	Z	475	GLN
33	Z	760	HIS
33	Z	789	GLN
33	Z	801	HIS
33	Z	833	GLN
33	Z	856	HIS
33	Z	897	HIS
8	a	175	GLN
8	a	176	GLN
8	a	181	ASN
9	b	119	GLN

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Mol	Chain	Res	Type
10	c	21	GLN
10	c	31	HIS
10	c	94	HIS
10	c	96	GLN
10	c	173	GLN
10	c	177	GLN
11	d	16	HIS
11	d	19	GLN
11	d	70	HIS
11	d	94	GLN
11	d	162	GLN
11	d	204	GLN
11	d	235	GLN
12	e	91	HIS
12	e	114	GLN
12	e	147	HIS
12	e	233	ASN
13	f	69	HIS
13	f	93	ASN
13	f	117	GLN
13	f	119	ASN
13	f	148	GLN
13	f	199	GLN
14	g	23	GLN
14	g	90	ASN
14	g	170	GLN
14	g	195	GLN
14	g	237	GLN
3	h	160	ASN
3	h	164	ASN
3	h	176	HIS
3	h	180	GLN
4	i	86	GLN
4	i	91	ASN
4	i	115	HIS
4	i	122	HIS
4	i	173	GLN
4	i	194	ASN
5	j	72	ASN
5	j	89	GLN
6	k	37	GLN
6	k	55	GLN

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Mol	Chain	Res	Type
6	k	112	ASN
6	k	118	GLN
6	k	146	HIS
6	k	198	GLN
7	l	141	HIS
7	l	251	ASN
7	l	283	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

There are no ligands in this entry.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.