



Full wwPDB EM Validation Report ⓘ

Mar 28, 2023 – 03:19 PM EDT

PDB ID : 3IZO
EMDB ID : EMD-7034
Title : Model of the fiber tail and its interactions with the penton base of human adenovirus by cryo-electron microscopy
Authors : Liu, H.
Deposited on : 2010-11-05
Resolution : 3.60 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev50
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.32.2

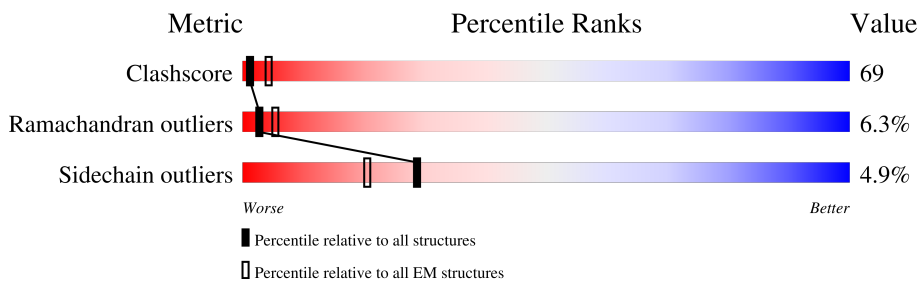
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.60 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	571	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>79%</p> <p>38% 36% 6% 20%</p> </div> </div>
1	B	571	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>78%</p> <p>37% 37% 5% 20%</p> </div> </div>
1	C	571	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>79%</p> <p>37% 37% 5% 20%</p> </div> </div>
1	D	571	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>79%</p> <p>39% 36% 5% 20%</p> </div> </div>
1	E	571	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>78%</p> <p>38% 36% 5% 20%</p> </div> </div>
2	F	581	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>98%</p> <p>98%</p> </div> </div>
2	G	581	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>98%</p> <p>98%</p> </div> </div>
2	H	581	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>98%</p> <p>98%</p> </div> </div>

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 18537 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 Penton protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	455	3642	2308	632	690	12	0	0
1	B	455	3642	2308	632	690	12	0	0
1	C	455	3642	2308	632	690	12	0	0
1	D	455	3642	2308	632	690	12	0	0
1	E	455	3642	2308	632	690	12	0	0

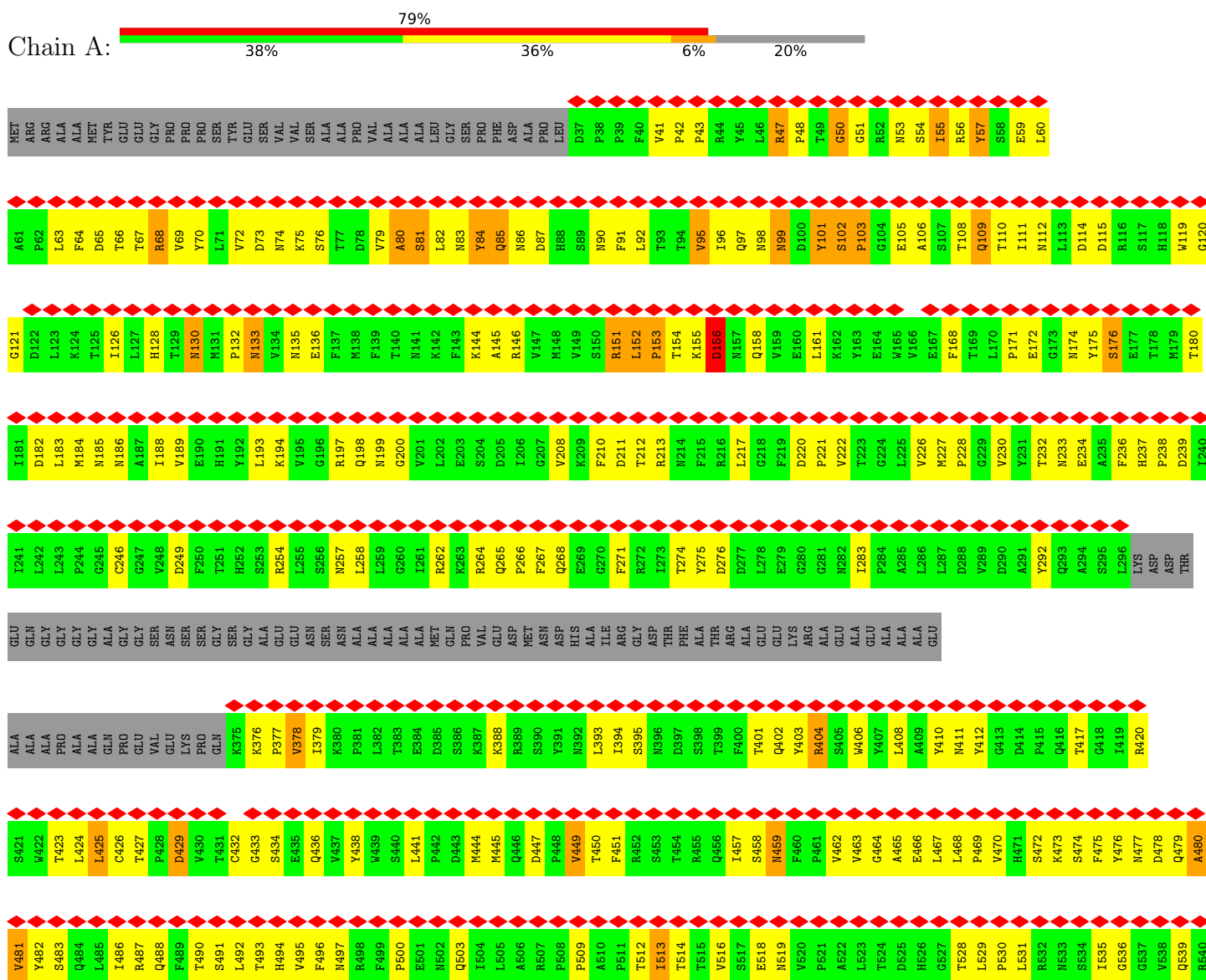
- Molecule 2 is a protein called Fiber.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
2	F	13	109	70	14	25	0	0
2	G	13	109	70	14	25	0	0
2	H	13	109	70	14	25	0	0

3 Residue-property plots

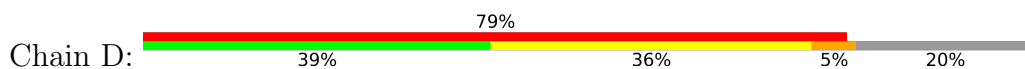
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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: Penton protein



A61	P62	L63	F64	D65	T66	T67	R68	V69	Y70	L71	V72	D73	N74	K75	S76	T77	D78	V79	A80	S81	L82	N83	R84	Q85	N86	D87	H88	S89	N90	F91	L92	T93	T94	V95	I96	Q97	N98	N99	D100	Y101	S102	P103	G104	E105	A106	S107	T108	Q109	T110	I111	M112	L113	D114	D115	R116	H118	W119	G120		
G121	D122	L123	K124	T125	I126	L127	H128	T129	M130	M131	P132	M133	V134	N135	E136	F137	M138	F139	T140	N141	K142	F143	K144	A145	R146	V147	M148	V149	S150	R151	L152	P153	T154	K155	D156	M157	V159	E160	L161	K162	Y163	E164	W165	V166	E167	F168	T169	L170	P171	E172	G173	M174	Y175	S176	E177	T178	M179	T180		
I181	D182	L183	M184	N185	M186	A187	I188	V189	E190	H191	Y192	L193	K194	V195	G196	R197	Q198	N199	G200	V201	L202	E203	S204	D205	I206	G207	V208	K209	F210	D211	T212	R213	N214	F215	R216	L217	G218	F219	D220	P221	V222	T223	G224	L225	V226	M227	P228	G229	V230	Y231	T232	N233	E234	A235	F236	H237	P238	D239	I240	
I241	L242	L243	P244	G245	C246	G247	V248	D249	F250	T251	H252	S253	R254	L255	S256	N257	L258	L259	G260	I261	R262	K263	R264	Q265	P266	F267	Q268	E269	G270	F271	R272	I273	T274	Y275	D276	D277	L278	E279	G280	A281	N282	I283	P284	A285	L286	L287	D288	V289	D290	A291	Y292	Q293	A294	S295	L296	LYS	ASP	THR		
GLU	GLN	GLY	GLY	GLY	ALA	GLY	GLY	SER	ASN	SER	SER	GLY	SER	GLU	GLU	ASN	ASN	ALA	ALA	ALA	ALA	ALA	VAL	GLU	ASP	MET	ASN	ASP	HIS	ALA	LLE	ARG	GLY	THR	PHE	ALA	THR	ALA	GLU	GLY	LYS	ARG	ALA	ALA	ALA	ALA	ALA	GLU												
ALA	ALA	PRO	ALA	ALA	GLN	PRO	VAL	GLU	LYS	PRO	GLN	K375	K376	P377	V378	I379	K380	P381	L382	T383	E384	S386	K387	K388	R389	S390	Y391	N392	L393	I394	S395	N396	D397	S398	T399	F400	T401	Q402	Y403	R404	W406	Y407	L408	A409	Y410	N411	Y412	G413	D414	P415	Q416	G418	I419	R420						
S421	W422	T423	L424	L425	C426	T427	P428	D429	V430	T431	C432	C433	S434	E435	Q436	V437	W438	S440	L441	L442	D443	M444	M445	M446	D447	P448	V449	T450	F451	R452	S453	T454	R455	R456	Q456	L457	S458	M459	F460	V461	V462	V463	C464	D465	A466	E467	L467	L468	P469	V470	H471	S472	K473	S474	F475	Y476	M477	D478	Q479	A480
V481	Y482	S483	Q484	L485	I486	R487	Q488	F489	T490	S491	L492	T493	H494	V495	F496	N497	R498	F499	P500	N501	N502	Q503	I504	L505	V506	A506	B507	P508	P509	A510	P511	T512	I513	T514	T515	V516	S517	E518	N519	V520	P521	A522	L523	T524	D525	H526	G527	T528	L529	P530	L531	R532	N533	S534	I535	G536	G537	V538	Q539	R540
V541	T542	I543	T544	D545	A546	R547	R548	R549	T550	C551	P552	V553	V554	Y555	K556	A557	L558	G559	I560	V561	S562	P563	R564	V565	L566	S567	R568	THR	PHE																															

● Molecule 1: Penton protein



MET	ARG	ARG	ALA	MET	TYR	GLU	GLY	GLY	PRO	PRO	SER	TYR	GLU	SER	VAL	VAL	SER	ALA	PRO	PRO	VAL	VAL	ALA	ALA	ALA	LEU	GLY	SER	PRO	PHE	ASP	ALA	PRO	LEU	D37	P38	P39	F40	V41	P42	P43	R44	L46	Y45	R47	P48	T49	G50	G51	R52	L53	T54	N53	S54	I55	R56	Y57	S58	E59	L60
A61	P62	L63	F64	D65	T66	T67	R68	V69	Y70	L71	V72	D73	N74	K75	S76	T77	D78	V79	A80	S81	L82	N83	R84	Q85	N86	D87	H88	S89	N90	F91	L92	T93	T94	V95	I96	Q97	N98	N99	D100	Y101	S102	P103	G104	E105	A106	S107	T108	Q109	T110	I111	M112	L113	D114	D115	R116	H118	W119	G120		
G121	D122	L123	K124	T125	I126	L127	H128	T129	M130	M131	P132	M133	V134	N135	E136	F137	M138	F139	T140	N141	K142	F143	K144	A145	R146	V147	M148	V149	S150	R151	L152	P153	T154	K155	D156	M157	V159	E160	L161	K162	Y163	E164	W165	V166	E167	F168	T169	L170	P171	E172	G173	M174	Y175	S176	E177	T178	M179	T180		
I181	D182	L183	M184	N185	M186	A187	I188	V189	E190	H191	Y192	L193	K194	V195	G196	R197	Q198	N199	G200	V201	L202	E203	S204	D205	I206	G207	V208	K209	F210	D211	T212	R213	N214	F215	R216	L217	G218	F219	D220	P221	V222	T223	G224	L225	V226	M227	P228	G229	V230	Y231	T232	N233	E234	A235	F236	H237	P238	D239	I240	

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	31815	Depositor
Resolution determination method	Not provided	
CTF correction method	Not provided	
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	20	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	59000	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	16.748	Depositor
Minimum map value	-11.582	Depositor
Average map value	0.004	Depositor
Map value standard deviation	0.876	Depositor
Recommended contour level	3.0	Depositor
Map size (\AA)	1088.0, 1088.0, 1088.0	wwPDB
Map dimensions	1280, 1280, 1280	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	0.85, 0.85, 0.85	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 >5	RMSZ	# Z >5
1	A	0.33	0/3733	0.54	0/5088
1	B	0.33	0/3733	0.55	0/5088
1	C	0.33	0/3733	0.55	0/5088
1	D	0.33	0/3733	0.55	0/5088
1	E	0.33	0/3733	0.54	0/5088
2	F	0.22	0/113	0.39	0/156
2	G	0.22	0/113	0.39	0/156
2	H	0.22	0/113	0.39	0/156
All	All	0.33	0/19004	0.54	0/25908

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2
1	B	0	2
1	C	0	2
1	D	0	2
1	E	0	2
All	All	0	10

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (10) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	47	ARG	Sidechain
1	A	68	ARG	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	B	47	ARG	Sidechain
1	B	68	ARG	Sidechain
1	C	47	ARG	Sidechain
1	C	68	ARG	Sidechain
1	D	47	ARG	Sidechain
1	D	68	ARG	Sidechain
1	E	47	ARG	Sidechain
1	E	68	ARG	Sidechain

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3642	0	3571	777	0
1	B	3642	0	3571	780	0
1	C	3642	0	3571	757	0
1	D	3642	0	3571	735	0
1	E	3642	0	3571	742	0
2	F	109	0	88	55	0
2	G	109	0	88	52	0
2	H	109	0	88	55	0
All	All	18537	0	18119	2535	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 69.

All (2535) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:410:TYR:CE2	1:D:425:LEU:HD12	1.34	1.62
1:D:425:LEU:HD13	1:E:172:GLU:CB	1.27	1.59
1:A:267:PHE:CZ	1:B:80:ALA:HA	1.34	1.58
1:C:450:THR:HG23	1:D:57:TYR:CE1	1.41	1.54
1:A:450:THR:HG23	1:B:57:TYR:CE1	1.45	1.51
1:A:57:TYR:CD1	1:E:450:THR:HG22	1.46	1.51
1:A:172:GLU:CB	1:E:425:LEU:HD13	1.41	1.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:57:TYR:CE2	1:D:60:LEU:HD13	1.47	1.48
1:A:60:LEU:CD2	1:E:452:ARG:HG2	1.41	1.47
1:D:450:THR:HG23	1:E:57:TYR:CE1	1.49	1.46
1:B:450:THR:HG23	1:C:57:TYR:CE1	1.48	1.43
1:A:60:LEU:HD21	1:E:452:ARG:CG	1.48	1.42
1:B:228:PRO:HG3	2:G:15:TYR:CE1	1.56	1.41
1:A:267:PHE:HZ	1:B:80:ALA:CA	1.32	1.40
1:A:228:PRO:HG3	2:F:15:TYR:CE1	1.56	1.40
1:A:57:TYR:HD1	1:E:450:THR:CG2	1.34	1.39
1:D:228:PRO:HG3	2:H:15:TYR:CE1	1.56	1.38
1:A:126:ILE:HD12	1:E:436:GLN:NE2	1.37	1.36
1:B:267:PHE:CE1	1:C:76:SER:HB2	1.59	1.35
1:D:436:GLN:NE2	1:E:126:ILE:HD12	1.37	1.33
1:D:292:TYR:CE1	1:D:376:LYS:HD3	1.63	1.33
1:B:267:PHE:HE1	1:C:76:SER:CB	1.41	1.33
1:A:450:THR:HG23	1:B:57:TYR:CD1	1.63	1.32
1:C:452:ARG:CG	1:D:60:LEU:HD21	1.57	1.32
1:A:292:TYR:CE1	1:A:376:LYS:HD3	1.63	1.31
1:C:425:LEU:HD13	1:D:172:GLU:CB	1.57	1.31
1:B:292:TYR:CE1	1:B:376:LYS:HD3	1.63	1.31
1:B:450:THR:HG23	1:C:57:TYR:CD1	1.63	1.31
1:D:425:LEU:CD1	1:E:172:GLU:HB2	1.62	1.30
1:C:228:PRO:HB3	1:D:493:THR:CG2	1.63	1.28
1:A:172:GLU:HB2	1:E:425:LEU:CD1	1.64	1.28
1:D:410:TYR:CD2	1:D:425:LEU:HD12	1.69	1.27
1:E:410:TYR:CD2	1:E:425:LEU:HD12	1.70	1.27
1:A:493:THR:CG2	1:E:228:PRO:HB3	1.64	1.26
1:C:436:GLN:NE2	1:D:126:ILE:HD12	1.51	1.25
1:A:57:TYR:CE2	1:A:60:LEU:HG	1.72	1.25
1:C:452:ARG:CD	1:D:60:LEU:HD11	1.64	1.25
1:A:60:LEU:HD21	1:E:452:ARG:CD	1.66	1.23
1:D:267:PHE:CE2	1:E:76:SER:HB3	1.73	1.23
1:C:267:PHE:CE2	1:D:76:SER:HB3	1.74	1.22
1:A:493:THR:HG21	1:E:228:PRO:CB	1.70	1.22
1:C:425:LEU:CD1	1:D:172:GLU:HB2	1.70	1.21
1:C:452:ARG:HG2	1:D:60:LEU:CG	1.71	1.21
1:B:410:TYR:CE2	1:C:172:GLU:HG3	1.76	1.20
1:C:228:PRO:CB	1:D:493:THR:HG21	1.70	1.20
1:C:267:PHE:CE2	1:D:76:SER:CB	2.24	1.20
1:C:410:TYR:CE2	1:D:172:GLU:HG3	1.76	1.19
1:A:172:GLU:HG3	1:E:410:TYR:CE2	1.77	1.19

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:410:TYR:HE2	1:E:172:GLU:HG3	1.06	1.19
1:A:410:TYR:CE2	1:B:172:GLU:HG3	1.78	1.18
1:D:267:PHE:CE2	1:E:76:SER:CB	2.24	1.18
1:D:57:TYR:CE2	1:D:60:LEU:CD1	2.27	1.18
1:E:410:TYR:CE2	1:E:425:LEU:HD12	1.77	1.18
1:A:436:GLN:HE21	1:A:465:ALA:HB1	1.07	1.18
1:B:63:LEU:HD22	1:B:67:THR:HG22	1.22	1.17
1:D:410:TYR:CE2	1:E:172:GLU:HG3	1.79	1.17
1:C:452:ARG:HG2	1:D:60:LEU:CD2	1.74	1.17
1:B:425:LEU:HD22	1:C:172:GLU:CB	1.73	1.17
1:B:436:GLN:HE21	1:B:465:ALA:HB1	1.08	1.17
1:A:425:LEU:HD22	1:B:172:GLU:CB	1.73	1.17
1:A:83:ASN:HB3	1:E:267:PHE:CD1	1.79	1.16
1:A:436:GLN:OE1	1:B:126:ILE:HD12	1.43	1.16
1:D:57:TYR:HE2	1:D:60:LEU:CD1	1.58	1.16
1:D:410:TYR:CD2	1:D:425:LEU:CD1	2.27	1.16
1:C:68:ARG:HD3	1:C:70:TYR:CE2	1.80	1.16
1:B:425:LEU:HD22	1:C:172:GLU:HB3	1.24	1.16
1:D:410:TYR:CE2	1:D:425:LEU:CD1	2.28	1.16
1:C:436:GLN:HE22	1:D:558:LEU:HD11	1.04	1.15
1:D:63:LEU:HD22	1:D:67:THR:HG22	1.22	1.15
1:B:410:TYR:HE2	1:C:172:GLU:HG3	1.05	1.15
1:A:60:LEU:HD11	1:E:452:ARG:CG	1.75	1.15
1:A:493:THR:HG21	1:E:228:PRO:HB3	1.15	1.14
1:A:68:ARG:CD	1:A:70:TYR:CE2	2.31	1.14
1:C:68:ARG:CD	1:C:70:TYR:CE2	2.30	1.14
1:C:233:ASN:HB3	1:D:491:SER:HA	1.29	1.14
1:A:410:TYR:HE2	1:B:172:GLU:HG3	1.04	1.14
1:E:68:ARG:CD	1:E:70:TYR:CE2	2.31	1.13
1:B:68:ARG:CD	1:B:70:TYR:CE2	2.31	1.13
1:C:63:LEU:HD22	1:C:67:THR:HG22	1.22	1.13
1:D:228:PRO:CG	2:H:15:TYR:HE1	1.62	1.13
1:A:83:ASN:ND2	1:A:91:PHE:HB2	1.63	1.12
1:B:436:GLN:OE1	1:C:126:ILE:HD12	1.44	1.13
1:A:228:PRO:CG	2:F:15:TYR:HE1	1.62	1.12
1:A:433:GLY:HA2	1:B:555:TYR:CE2	1.84	1.12
1:B:433:GLY:HA2	1:C:555:TYR:CE2	1.84	1.12
1:D:68:ARG:CD	1:D:70:TYR:CE2	2.31	1.12
1:D:376:LYS:HD2	1:D:378:VAL:CG1	1.80	1.12
1:C:436:GLN:NE2	1:D:558:LEU:HD11	1.64	1.12
1:E:83:ASN:ND2	1:E:91:PHE:HB2	1.63	1.12

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:376:LYS:HD2	1:A:378:VAL:CG1	1.80	1.12
1:B:83:ASN:ND2	1:B:91:PHE:HB2	1.63	1.12
1:D:556:LYS:HE2	1:D:558:LEU:HD23	1.29	1.12
1:A:63:LEU:HD22	1:A:67:THR:HG22	1.22	1.11
1:A:172:GLU:HG3	1:E:410:TYR:HE2	1.06	1.11
1:B:480:ALA:O	1:B:481:VAL:HG22	1.50	1.11
1:A:47:ARG:HB2	1:E:569:ARG:CA	1.80	1.11
1:B:267:PHE:CE1	1:C:76:SER:CB	2.25	1.11
1:C:83:ASN:ND2	1:C:91:PHE:HB2	1.63	1.11
1:E:63:LEU:HD22	1:E:67:THR:HG22	1.22	1.11
1:E:556:LYS:HE2	1:E:558:LEU:HD23	1.29	1.11
1:A:480:ALA:O	1:A:481:VAL:HG22	1.51	1.11
1:B:228:PRO:CG	2:G:15:TYR:HE1	1.62	1.11
1:C:155:LYS:O	1:C:156:ASP:HB2	1.51	1.11
1:A:569:ARG:CA	1:B:47:ARG:HB2	1.81	1.11
1:D:433:GLY:HA2	1:E:555:TYR:CE2	1.86	1.11
1:B:569:ARG:CA	1:C:47:ARG:HB2	1.80	1.10
1:C:450:THR:CG2	1:D:57:TYR:CE1	2.33	1.10
1:C:452:ARG:HG3	1:D:60:LEU:HD21	1.29	1.10
1:A:486:ILE:CG2	1:E:482:TYR:CE1	2.35	1.10
1:B:376:LYS:HD2	1:B:378:VAL:CG1	1.80	1.10
1:D:83:ASN:ND2	1:D:91:PHE:HB2	1.63	1.10
1:C:410:TYR:HE2	1:D:172:GLU:HG3	1.03	1.10
1:B:155:LYS:O	1:B:156:ASP:HB2	1.51	1.10
1:A:68:ARG:HD3	1:A:70:TYR:CE2	1.83	1.10
1:A:227:MET:HB3	2:F:17:TYR:OH	1.51	1.09
1:A:556:LYS:HE2	1:A:558:LEU:HD23	1.18	1.09
1:D:227:MET:HB3	2:H:17:TYR:OH	1.51	1.09
1:D:569:ARG:CA	1:E:47:ARG:HB2	1.82	1.09
1:B:68:ARG:HD3	1:B:70:TYR:CE2	1.86	1.09
1:B:227:MET:HB3	2:G:17:TYR:OH	1.52	1.09
1:B:436:GLN:HE21	1:B:465:ALA:CB	1.65	1.09
1:D:57:TYR:CE2	1:D:60:LEU:HD22	1.87	1.09
1:A:491:SER:HA	1:E:233:ASN:HB3	1.33	1.09
1:E:473:LYS:HD2	1:E:475:PHE:HE1	1.13	1.09
1:A:60:LEU:HD11	1:E:452:ARG:HG3	1.20	1.08
1:A:473:LYS:HD2	1:A:475:PHE:HE1	1.13	1.08
1:B:459:ASN:HB2	1:C:99:ASN:HB3	1.34	1.08
1:D:155:LYS:O	1:D:156:ASP:HB2	1.51	1.08
1:D:473:LYS:HD2	1:D:475:PHE:HE1	1.13	1.08
1:E:68:ARG:HD3	1:E:70:TYR:CE2	1.86	1.08

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:556:LYS:HE2	1:B:558:LEU:HD23	1.29	1.08
1:A:155:LYS:O	1:A:156:ASP:HB2	1.51	1.08
1:D:47:ARG:HG3	1:D:48:PRO:HD2	1.35	1.08
1:E:473:LYS:HD2	1:E:475:PHE:CE1	1.89	1.07
1:A:233:ASN:HB3	1:B:491:SER:HA	1.30	1.07
1:D:233:ASN:HB3	1:E:491:SER:HA	1.33	1.07
1:D:376:LYS:HD2	1:D:378:VAL:HG13	1.26	1.07
1:B:376:LYS:HD2	1:B:378:VAL:HG13	1.26	1.07
1:C:569:ARG:CA	1:D:47:ARG:HB2	1.84	1.07
1:C:473:LYS:HD2	1:C:475:PHE:CE1	1.89	1.07
1:B:425:LEU:HD13	1:C:172:GLU:HB2	1.36	1.07
1:D:473:LYS:HD2	1:D:475:PHE:CE1	1.89	1.07
1:D:68:ARG:HD3	1:D:70:TYR:CE2	1.87	1.06
1:C:228:PRO:HB3	1:D:493:THR:HG21	1.17	1.06
1:C:473:LYS:HD2	1:C:475:PHE:HE1	1.13	1.06
1:A:376:LYS:HD2	1:A:378:VAL:HG13	1.26	1.06
1:A:425:LEU:HD22	1:B:172:GLU:HB3	1.33	1.06
1:B:473:LYS:HD2	1:B:475:PHE:CE1	1.90	1.06
2:H:8:GLU:O	2:H:9:ASP:HB2	1.52	1.06
1:A:473:LYS:HD2	1:A:475:PHE:CE1	1.89	1.06
1:B:473:LYS:HD2	1:B:475:PHE:HE1	1.13	1.06
1:A:558:LEU:HD11	1:E:436:GLN:HE22	1.17	1.05
1:B:436:GLN:OE1	1:C:558:LEU:HD11	1.56	1.05
1:A:436:GLN:HE21	1:A:465:ALA:CB	1.69	1.05
1:A:450:THR:CG2	1:B:57:TYR:CE1	2.38	1.05
1:B:57:TYR:CD2	1:B:60:LEU:HB3	1.90	1.05
1:B:233:ASN:HB3	1:C:491:SER:HA	1.32	1.05
2:G:8:GLU:O	2:G:9:ASP:HB2	1.52	1.05
1:C:57:TYR:CD2	1:C:60:LEU:HB3	1.90	1.05
1:C:433:GLY:HA2	1:D:555:TYR:CE2	1.91	1.05
1:D:450:THR:HG23	1:E:57:TYR:CD1	1.91	1.05
2:F:8:GLU:O	2:F:9:ASP:HB2	1.52	1.05
2:G:8:GLU:HG3	2:G:9:ASP:H	1.22	1.05
1:C:450:THR:HG23	1:D:57:TYR:CD1	1.90	1.05
1:C:482:TYR:CE1	1:D:486:ILE:CG2	2.40	1.05
1:C:436:GLN:HG3	1:C:466:GLU:O	1.57	1.04
1:C:452:ARG:HD2	1:D:60:LEU:HD11	1.06	1.04
1:B:450:THR:CG2	1:C:57:TYR:CE1	2.40	1.04
1:D:436:GLN:HG3	1:D:466:GLU:O	1.56	1.04
1:E:47:ARG:HG3	1:E:48:PRO:HD2	1.35	1.04
1:B:436:GLN:HG3	1:B:466:GLU:O	1.58	1.04

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:556:LYS:HE2	1:C:558:LEU:HD23	1.29	1.04
1:A:47:ARG:HG3	1:A:48:PRO:HD2	1.35	1.03
1:A:410:TYR:CD2	1:A:425:LEU:CD1	2.41	1.03
1:D:425:LEU:CD1	1:E:172:GLU:CB	2.24	1.03
2:F:8:GLU:HG3	2:F:9:ASP:H	1.22	1.03
1:B:47:ARG:HG3	1:B:48:PRO:HD2	1.36	1.03
1:E:436:GLN:HG3	1:E:466:GLU:O	1.58	1.03
1:A:558:LEU:HD11	1:E:436:GLN:NE2	1.71	1.03
2:G:14:VAL:HG13	1:C:203:GLU:OE2	1.59	1.03
1:C:481:VAL:HG12	1:D:490:THR:HB	1.41	1.03
1:D:459:ASN:HB2	1:E:99:ASN:HB3	1.37	1.03
1:A:433:GLY:HA2	1:B:555:TYR:HE2	1.21	1.03
1:A:436:GLN:HG3	1:A:466:GLU:O	1.57	1.03
1:D:47:ARG:CG	1:D:48:PRO:HD2	1.89	1.03
1:D:265:GLN:NE2	1:E:85:GLN:HA	1.72	1.03
1:C:265:GLN:NE2	1:D:85:GLN:HA	1.73	1.02
1:E:155:LYS:O	1:E:156:ASP:HB2	1.51	1.02
1:C:47:ARG:CG	1:C:48:PRO:HD2	1.89	1.02
1:E:47:ARG:CG	1:E:48:PRO:HD2	1.89	1.02
1:A:60:LEU:CG	1:E:452:ARG:HG2	1.90	1.02
1:D:436:GLN:HE22	1:E:126:ILE:HD12	0.88	1.02
1:A:47:ARG:CG	1:A:48:PRO:HD2	1.89	1.02
1:A:292:TYR:HE1	1:A:376:LYS:CD	1.72	1.02
1:A:476:TYR:HE2	1:B:477:ASN:HB3	1.23	1.02
1:D:482:TYR:CE1	1:E:486:ILE:CG2	2.42	1.02
1:B:292:TYR:HE1	1:B:376:LYS:CD	1.72	1.01
1:A:60:LEU:CD1	1:E:452:ARG:HG2	1.89	1.01
1:A:265:GLN:NE2	1:B:85:GLN:HA	1.73	1.01
1:A:490:THR:HB	1:E:481:VAL:HG12	1.41	1.01
1:A:556:LYS:NZ	1:E:436:GLN:HB2	1.75	1.01
1:B:47:ARG:CG	1:B:48:PRO:HD2	1.89	1.01
1:D:292:TYR:HE1	1:D:376:LYS:CD	1.72	1.01
1:A:57:TYR:CE2	1:A:60:LEU:CG	2.44	1.01
1:A:85:GLN:HA	1:E:265:GLN:NE2	1.75	1.01
2:F:14:VAL:HG13	1:B:203:GLU:OE2	1.60	1.01
1:B:174:ASN:ND2	1:B:183:LEU:CD1	2.23	1.01
1:D:436:GLN:NE2	1:E:126:ILE:CD1	2.23	1.01
1:D:450:THR:CG2	1:E:57:TYR:CE1	2.42	1.01
1:A:174:ASN:ND2	1:A:183:LEU:CD1	2.23	1.01
1:C:47:ARG:HG3	1:C:48:PRO:HD2	1.36	1.01
1:C:174:ASN:ND2	1:C:183:LEU:CD1	2.23	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:174:ASN:ND2	1:D:183:LEU:CD1	2.23	1.01
2:H:8:GLU:HG3	2:H:9:ASP:H	1.22	1.01
1:A:47:ARG:HB2	1:E:569:ARG:O	1.61	1.01
1:B:434:SER:HB2	1:C:128:HIS:ND1	1.75	1.01
2:H:13:PRO:HA	1:E:197:ARG:HH12	1.24	1.01
1:D:292:TYR:HE1	1:D:376:LYS:HD3	0.84	1.00
1:D:436:GLN:HE22	1:E:558:LEU:HD11	1.25	1.00
1:A:57:TYR:HE2	1:A:60:LEU:HG	1.20	1.00
1:B:436:GLN:N	1:C:556:LYS:HZ1	1.59	1.00
2:H:14:VAL:HG13	1:E:203:GLU:OE2	1.61	1.00
1:E:410:TYR:CD2	1:E:425:LEU:CD1	2.43	1.00
1:D:481:VAL:HG12	1:E:490:THR:HB	1.44	1.00
2:H:12:ASN:O	2:H:14:VAL:HG23	1.62	1.00
1:E:174:ASN:ND2	1:E:183:LEU:CD1	2.23	1.00
1:C:459:ASN:HB2	1:D:99:ASN:HB3	1.38	1.00
1:B:265:GLN:NE2	1:C:85:GLN:HA	1.75	0.99
2:G:12:ASN:O	2:G:14:VAL:HG23	1.62	0.99
1:C:267:PHE:HE2	1:D:76:SER:CB	1.69	0.99
1:A:292:TYR:HE1	1:A:376:LYS:HD3	0.84	0.99
2:F:12:ASN:O	2:F:14:VAL:HG23	1.62	0.99
1:B:476:TYR:HE2	1:C:477:ASN:HB3	1.28	0.99
1:E:84:TYR:O	1:E:85:GLN:HG3	1.63	0.99
1:D:569:ARG:O	1:E:47:ARG:HB2	1.61	0.99
1:D:84:TYR:O	1:D:85:GLN:HG3	1.63	0.99
1:C:452:ARG:CG	1:D:60:LEU:CD2	2.35	0.99
1:C:452:ARG:CG	1:D:60:LEU:HD11	1.93	0.99
1:B:569:ARG:O	1:C:47:ARG:HB2	1.63	0.98
1:C:452:ARG:HG2	1:D:60:LEU:HD21	1.32	0.98
1:B:84:TYR:O	1:B:85:GLN:HG3	1.63	0.98
1:D:267:PHE:HE2	1:E:76:SER:CB	1.68	0.98
1:A:126:ILE:CD1	1:E:436:GLN:NE2	2.25	0.98
1:C:569:ARG:O	1:D:47:ARG:HB2	1.64	0.98
1:D:434:SER:HB3	1:E:556:LYS:HB2	1.45	0.98
1:A:267:PHE:HE2	1:B:84:TYR:CD1	1.81	0.98
1:A:569:ARG:O	1:B:47:ARG:HB2	1.62	0.98
2:G:13:PRO:HA	1:C:197:ARG:HH12	1.23	0.98
1:B:292:TYR:HE1	1:B:376:LYS:HD3	0.84	0.97
1:D:433:GLY:HA2	1:E:555:TYR:HE2	1.23	0.97
1:C:267:PHE:HE2	1:D:76:SER:HB2	1.29	0.97
1:C:434:SER:HB2	1:D:128:HIS:ND1	1.78	0.97
1:D:434:SER:HB2	1:E:128:HIS:ND1	1.79	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:82:LEU:HD13	1:A:92:LEU:HD13	1.46	0.97
1:D:436:GLN:HB2	1:E:556:LYS:NZ	1.80	0.97
1:A:60:LEU:CD1	1:E:452:ARG:CG	2.42	0.97
1:D:228:PRO:CG	2:H:15:TYR:CE1	2.42	0.97
1:D:267:PHE:HE2	1:E:76:SER:HB2	1.29	0.97
1:D:476:TYR:HE2	1:E:477:ASN:HB3	1.28	0.97
1:B:434:SER:HB3	1:C:556:LYS:HB2	1.43	0.97
1:C:410:TYR:CD2	1:C:425:LEU:HD12	1.99	0.97
1:A:228:PRO:CG	2:F:15:TYR:CE1	2.42	0.97
1:A:434:SER:HB2	1:B:128:HIS:ND1	1.78	0.97
2:F:13:PRO:HA	1:B:197:ARG:HH12	1.27	0.97
1:D:425:LEU:HD13	1:E:172:GLU:CG	1.93	0.97
1:E:82:LEU:HD13	1:E:92:LEU:HD13	1.46	0.96
1:A:436:GLN:HB2	1:B:556:LYS:NZ	1.80	0.96
1:C:82:LEU:HD13	1:C:92:LEU:HD13	1.46	0.96
1:A:84:TYR:O	1:A:85:GLN:HG3	1.63	0.96
1:B:433:GLY:CA	1:C:555:TYR:HE2	1.78	0.96
1:A:464:GLY:HA3	1:B:68:ARG:NH1	1.80	0.96
1:B:82:LEU:HD13	1:B:92:LEU:HD13	1.46	0.96
1:B:436:GLN:HB2	1:C:556:LYS:NZ	1.79	0.96
1:C:230:VAL:HG11	1:D:492:LEU:CB	1.96	0.96
1:A:436:GLN:OE1	1:B:558:LEU:HD11	1.66	0.96
1:A:569:ARG:HA	1:B:47:ARG:HB2	1.47	0.96
1:A:476:TYR:CE2	1:B:477:ASN:HB3	2.01	0.95
1:A:556:LYS:HZ1	1:E:436:GLN:N	1.63	0.95
1:D:436:GLN:NE2	1:E:558:LEU:HD11	1.80	0.95
1:E:57:TYR:CD1	1:E:57:TYR:O	2.19	0.95
1:C:433:GLY:HA2	1:D:555:TYR:HE2	1.29	0.95
1:D:57:TYR:CD1	1:D:57:TYR:O	2.19	0.95
1:C:434:SER:HB3	1:D:556:LYS:HB2	1.46	0.95
1:C:436:GLN:HE22	1:D:126:ILE:HD12	1.16	0.95
1:A:230:VAL:HG11	1:B:492:LEU:CB	1.97	0.95
1:C:84:TYR:O	1:C:85:GLN:HG3	1.63	0.95
1:C:569:ARG:HA	1:D:47:ARG:HB2	1.49	0.95
1:A:126:ILE:HD12	1:E:436:GLN:HE22	0.96	0.95
1:A:433:GLY:CA	1:B:555:TYR:HE2	1.78	0.95
1:B:434:SER:O	1:C:556:LYS:HD3	1.65	0.95
1:C:228:PRO:CG	1:D:493:THR:HG21	1.96	0.95
1:A:172:GLU:CG	1:E:425:LEU:HD13	1.95	0.94
1:A:434:SER:HB3	1:B:556:LYS:HB2	1.45	0.94
1:A:492:LEU:CB	1:E:230:VAL:HG11	1.97	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:450:THR:CG2	1:C:57:TYR:CD1	2.50	0.94
1:A:450:THR:CG2	1:B:57:TYR:CD1	2.50	0.94
1:B:433:GLY:HA2	1:C:555:TYR:HE2	1.24	0.94
1:C:425:LEU:HD13	1:D:172:GLU:HB2	0.95	0.94
1:A:464:GLY:CA	1:B:68:ARG:NH1	2.30	0.94
1:B:376:LYS:CD	1:B:378:VAL:HG13	1.98	0.94
1:D:569:ARG:HA	1:E:47:ARG:HB2	1.47	0.94
1:C:436:GLN:HB2	1:D:556:LYS:NZ	1.82	0.94
1:D:82:LEU:HD13	1:D:92:LEU:HD13	1.46	0.94
1:D:376:LYS:CD	1:D:378:VAL:HG13	1.98	0.94
1:D:433:GLY:CA	1:E:555:TYR:HE2	1.81	0.94
1:C:154:THR:O	1:C:155:LYS:HB2	1.68	0.94
1:A:555:TYR:CE2	1:E:433:GLY:HA2	2.03	0.94
1:B:230:VAL:HG11	1:C:492:LEU:CB	1.97	0.94
2:G:15:TYR:HB2	1:C:498:ARG:NH1	1.82	0.94
1:D:434:SER:O	1:E:556:LYS:HD3	1.67	0.94
1:C:452:ARG:HD2	1:D:60:LEU:CD1	1.96	0.94
1:D:57:TYR:HE2	1:D:60:LEU:CD2	1.81	0.94
1:E:174:ASN:ND2	1:E:183:LEU:HD11	1.84	0.93
1:B:57:TYR:CE2	1:B:60:LEU:CB	2.51	0.93
1:C:174:ASN:ND2	1:C:183:LEU:HD11	1.83	0.93
1:A:556:LYS:HE2	1:A:558:LEU:CD2	1.97	0.93
1:B:450:THR:HG23	1:C:57:TYR:HE1	1.23	0.93
1:C:436:GLN:N	1:D:556:LYS:HZ1	1.66	0.93
1:A:60:LEU:CD2	1:E:452:ARG:CG	2.23	0.93
1:A:63:LEU:HD22	1:A:67:THR:CG2	1.98	0.93
1:A:556:LYS:CE	1:A:558:LEU:HD23	1.97	0.93
1:C:57:TYR:CE2	1:C:60:LEU:CB	2.51	0.93
1:A:154:THR:O	1:A:155:LYS:HB2	1.68	0.93
1:A:228:PRO:HG3	2:F:15:TYR:HE1	0.93	0.93
1:A:172:GLU:CB	1:E:425:LEU:CD1	2.35	0.93
1:A:60:LEU:HD21	1:E:452:ARG:HG2	1.04	0.93
1:E:63:LEU:HD22	1:E:67:THR:CG2	1.98	0.93
1:B:569:ARG:HA	1:C:47:ARG:HB2	1.47	0.93
1:A:86:ASN:O	1:E:267:PHE:CE1	2.22	0.92
1:B:63:LEU:HD22	1:B:67:THR:CG2	1.98	0.92
1:A:47:ARG:HB2	1:E:569:ARG:HA	1.46	0.92
1:C:63:LEU:HD22	1:C:67:THR:CG2	1.98	0.92
1:A:556:LYS:HZ1	1:E:436:GLN:CB	1.82	0.92
1:A:47:ARG:HB2	1:E:569:ARG:C	1.90	0.92
1:A:436:GLN:N	1:B:556:LYS:HZ1	1.67	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:529:LEU:HD21	1:C:68:ARG:HH11	1.34	0.92
1:D:174:ASN:ND2	1:D:183:LEU:HD11	1.84	0.92
1:B:154:THR:O	1:B:155:LYS:HB2	1.68	0.92
1:E:154:THR:O	1:E:155:LYS:HB2	1.68	0.92
1:A:376:LYS:CD	1:A:378:VAL:HG13	1.98	0.92
1:A:434:SER:O	1:B:556:LYS:HD3	1.68	0.92
1:E:68:ARG:HD2	1:E:70:TYR:CE2	2.04	0.92
1:B:144:LYS:HB2	1:B:249:ASP:HB3	1.52	0.92
1:A:490:THR:HG21	1:E:482:TYR:HB2	1.50	0.91
1:C:434:SER:O	1:D:556:LYS:HD3	1.69	0.91
2:G:13:PRO:HA	1:C:197:ARG:NH1	1.85	0.91
1:C:144:LYS:HB2	1:C:249:ASP:HB3	1.52	0.91
1:D:63:LEU:HD22	1:D:67:THR:CG2	1.98	0.91
1:D:476:TYR:CE2	1:E:477:ASN:HB3	2.05	0.91
2:H:15:TYR:HB2	1:E:498:ARG:NH1	1.83	0.91
1:A:68:ARG:NH1	1:E:464:GLY:HA3	1.86	0.91
1:A:144:LYS:HB2	1:A:249:ASP:HB3	1.52	0.91
1:B:267:PHE:CE2	1:C:86:ASN:O	2.24	0.91
1:A:128:HIS:ND1	1:E:434:SER:HB2	1.85	0.91
1:C:410:TYR:HE2	1:D:172:GLU:CG	1.83	0.91
1:C:450:THR:HG23	1:D:57:TYR:CZ	2.05	0.91
2:F:15:TYR:HB2	1:B:498:ARG:NH1	1.86	0.91
1:A:450:THR:HG23	1:B:57:TYR:HE1	1.21	0.91
1:D:230:VAL:HG11	1:E:492:LEU:CB	2.00	0.91
1:E:47:ARG:CZ	1:E:53:ASN:HD22	1.83	0.91
1:B:221:PRO:HG3	1:C:194:LYS:HB2	1.53	0.91
1:C:267:PHE:CD1	1:D:83:ASN:HB3	2.06	0.91
1:A:267:PHE:CE1	1:B:76:SER:O	2.23	0.91
1:B:174:ASN:ND2	1:B:183:LEU:HD11	1.84	0.91
1:A:569:ARG:C	1:B:47:ARG:HB2	1.92	0.91
1:B:47:ARG:CZ	1:B:53:ASN:HD22	1.84	0.91
1:B:233:ASN:HB3	1:C:491:SER:CA	2.01	0.90
1:B:425:LEU:CD1	1:C:172:GLU:HB2	2.00	0.90
1:C:47:ARG:CZ	1:C:53:ASN:HD22	1.84	0.90
1:D:47:ARG:CZ	1:D:53:ASN:HD22	1.83	0.90
2:H:15:TYR:OH	1:E:493:THR:HB	1.69	0.90
1:E:144:LYS:HB2	1:E:249:ASP:HB3	1.52	0.90
1:B:68:ARG:HD2	1:B:70:TYR:CE2	2.04	0.90
1:C:452:ARG:HG2	1:D:60:LEU:HG	1.52	0.90
1:A:57:TYR:CD1	1:E:450:THR:HA	2.07	0.90
1:A:493:THR:HG21	1:E:228:PRO:CG	2.01	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:267:PHE:CD1	1:E:83:ASN:HB3	2.05	0.90
1:B:410:TYR:HE2	1:C:172:GLU:CG	1.84	0.90
1:B:476:TYR:CE2	1:C:477:ASN:HB3	2.05	0.90
1:C:82:LEU:HB3	1:C:92:LEU:HD12	1.54	0.90
1:D:68:ARG:HD2	1:D:70:TYR:CE2	2.04	0.90
1:A:425:LEU:HD13	1:B:172:GLU:HB2	1.53	0.90
1:D:154:THR:O	1:D:155:LYS:HB2	1.68	0.90
1:E:174:ASN:HD21	1:E:183:LEU:HD13	1.36	0.90
1:A:491:SER:CA	1:E:233:ASN:HB3	2.02	0.90
1:B:228:PRO:CG	2:G:15:TYR:CE1	2.42	0.90
1:C:476:TYR:HE2	1:D:477:ASN:HB3	1.37	0.90
1:D:174:ASN:HD21	1:D:183:LEU:HD13	1.36	0.90
1:C:174:ASN:HD21	1:C:183:LEU:HD13	1.35	0.90
1:D:228:PRO:HG3	2:H:15:TYR:HE1	0.94	0.90
1:A:410:TYR:HE2	1:B:172:GLU:CG	1.85	0.90
1:B:425:LEU:HD13	1:C:172:GLU:CB	2.00	0.90
1:B:450:THR:HG21	1:C:96:ILE:HG23	1.54	0.90
1:A:47:ARG:CZ	1:A:53:ASN:HD22	1.84	0.89
1:A:174:ASN:ND2	1:A:183:LEU:HD11	1.84	0.89
1:B:556:LYS:CE	1:B:558:LEU:HD23	2.03	0.89
1:A:68:ARG:HD2	1:A:70:TYR:CE2	2.05	0.89
1:A:83:ASN:HB3	1:E:267:PHE:CE1	2.06	0.89
1:D:144:LYS:HB2	1:D:249:ASP:HB3	1.52	0.89
1:A:172:GLU:CG	1:E:410:TYR:HE2	1.85	0.89
1:A:194:LYS:HB2	1:E:221:PRO:HG3	1.51	0.89
1:B:174:ASN:HD21	1:B:183:LEU:HD13	1.36	0.89
1:B:434:SER:O	1:C:556:LYS:CD	2.20	0.89
1:D:57:TYR:CE2	1:D:60:LEU:CD2	2.54	0.89
1:D:482:TYR:HB2	1:E:490:THR:HG21	1.53	0.89
2:F:15:TYR:OH	1:B:493:THR:HB	1.70	0.89
1:C:68:ARG:HD2	1:C:70:TYR:CZ	2.08	0.89
1:D:569:ARG:C	1:E:47:ARG:HB2	1.92	0.89
1:E:410:TYR:CE2	1:E:425:LEU:CD1	2.55	0.89
1:B:267:PHE:CD1	1:C:76:SER:HB2	2.07	0.89
1:C:233:ASN:HB3	1:D:491:SER:CA	2.01	0.89
1:A:60:LEU:HD21	1:E:452:ARG:NE	1.85	0.89
1:C:57:TYR:CE2	1:C:60:LEU:HB2	2.08	0.89
1:A:99:ASN:HB3	1:E:459:ASN:HB3	1.55	0.88
1:B:57:TYR:CE2	1:B:60:LEU:HB2	2.08	0.88
1:D:436:GLN:HE22	1:E:126:ILE:CD1	1.82	0.88
1:D:436:GLN:N	1:E:556:LYS:HZ1	1.72	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:555:TYR:OH	1:E:257:ASN:CB	2.21	0.88
1:B:267:PHE:HE1	1:C:76:SER:HB2	0.98	0.88
1:B:569:ARG:C	1:C:47:ARG:HB2	1.92	0.88
1:C:556:LYS:CE	1:C:558:LEU:HD23	2.02	0.88
1:A:83:ASN:HD21	1:A:91:PHE:HB2	1.35	0.88
1:A:233:ASN:HB3	1:B:491:SER:CA	2.02	0.88
1:A:482:TYR:CE1	1:B:486:ILE:CG2	2.55	0.88
1:E:556:LYS:CE	1:E:558:LEU:HD23	2.03	0.88
1:A:82:LEU:HB3	1:A:92:LEU:HD12	1.54	0.88
1:A:174:ASN:HD21	1:A:183:LEU:HD13	1.36	0.88
1:D:82:LEU:HB3	1:D:92:LEU:HD12	1.54	0.88
1:A:68:ARG:NH1	1:E:464:GLY:CA	2.37	0.88
1:D:425:LEU:HD13	1:E:172:GLU:HB3	1.54	0.88
1:A:198:GLN:NE2	1:E:222:VAL:HG21	1.89	0.88
1:C:267:PHE:CE1	1:D:86:ASN:O	2.27	0.88
1:E:82:LEU:HB3	1:E:92:LEU:HD12	1.54	0.88
1:C:433:GLY:CA	1:D:555:TYR:HE2	1.85	0.88
1:C:68:ARG:HD2	1:C:70:TYR:CE2	2.07	0.87
1:C:221:PRO:HG3	1:D:194:LYS:HB2	1.55	0.87
1:D:556:LYS:CE	1:D:558:LEU:HD23	2.03	0.87
2:H:13:PRO:HA	1:E:197:ARG:NH1	1.88	0.87
1:E:83:ASN:HD21	1:E:91:PHE:HB2	1.35	0.87
1:D:221:PRO:HG3	1:E:194:LYS:HB2	1.56	0.87
1:A:556:LYS:HD3	1:E:434:SER:O	1.74	0.87
1:C:569:ARG:C	1:D:47:ARG:HB2	1.95	0.87
1:D:267:PHE:CE1	1:E:86:ASN:O	2.26	0.87
1:A:267:PHE:HE1	1:B:76:SER:O	1.58	0.87
1:B:82:LEU:HB3	1:B:92:LEU:HD12	1.54	0.87
1:C:83:ASN:HD21	1:C:91:PHE:HB2	1.36	0.87
1:A:57:TYR:CD1	1:E:450:THR:CB	2.57	0.87
1:B:228:PRO:HG3	2:G:15:TYR:CD1	2.10	0.87
1:C:482:TYR:HB2	1:D:490:THR:HG21	1.56	0.87
1:B:227:MET:O	2:G:17:TYR:CE2	2.28	0.87
1:C:174:ASN:ND2	1:C:183:LEU:HD13	1.90	0.87
1:C:233:ASN:CB	1:D:491:SER:HA	2.05	0.87
1:A:68:ARG:HD3	1:A:70:TYR:HE2	1.39	0.86
1:A:172:GLU:HB2	1:E:425:LEU:HD13	0.88	0.86
1:A:174:ASN:ND2	1:A:183:LEU:HD13	1.90	0.86
1:A:228:PRO:HG3	2:F:15:TYR:CD1	2.10	0.86
1:A:477:ASN:HB3	1:E:476:TYR:HE2	1.39	0.86
1:B:68:ARG:HD3	1:B:70:TYR:HE2	1.40	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:230:VAL:HG13	1:B:503:GLN:HE22	1.40	0.86
2:G:15:TYR:OH	1:C:493:THR:HB	1.74	0.86
1:D:57:TYR:HE2	1:D:60:LEU:CG	1.88	0.86
2:H:13:PRO:HB2	2:H:17:TYR:HE1	1.40	0.86
1:A:76:SER:HB3	1:E:267:PHE:CE2	2.10	0.86
1:A:230:VAL:HG13	1:A:503:GLN:HE22	1.40	0.86
1:A:410:TYR:CE2	1:A:425:LEU:HD13	2.10	0.86
1:E:68:ARG:HD3	1:E:70:TYR:HE2	1.40	0.86
1:A:76:SER:CB	1:E:267:PHE:CE2	2.57	0.86
1:B:266:PRO:HD3	1:C:87:ASP:HB3	1.57	0.86
1:D:83:ASN:HD21	1:D:91:PHE:HB2	1.35	0.86
1:D:230:VAL:HG13	1:D:503:GLN:HE22	1.40	0.86
1:D:436:GLN:CB	1:E:556:LYS:HZ1	1.88	0.86
1:A:221:PRO:HG3	1:B:194:LYS:HB2	1.58	0.86
1:A:227:MET:O	2:F:17:TYR:HE2	1.57	0.86
2:F:13:PRO:HA	1:B:197:ARG:NH1	1.91	0.86
1:D:57:TYR:CZ	1:D:60:LEU:HD13	2.09	0.86
1:D:233:ASN:HB3	1:E:491:SER:CA	2.04	0.86
1:A:450:THR:HG21	1:B:96:ILE:HG23	1.56	0.86
1:B:434:SER:HB3	1:C:556:LYS:CB	2.04	0.86
1:A:227:MET:O	2:F:17:TYR:CE2	2.28	0.86
1:B:227:MET:O	2:G:17:TYR:HE2	1.57	0.86
1:D:227:MET:O	2:H:17:TYR:CE2	2.28	0.86
1:D:228:PRO:HG3	2:H:15:TYR:CD1	2.10	0.86
1:A:233:ASN:CB	1:B:491:SER:HA	2.06	0.86
1:E:230:VAL:HG13	1:E:503:GLN:HE22	1.40	0.86
1:B:482:TYR:HB2	1:C:490:THR:HG21	1.55	0.85
1:D:410:TYR:HE2	1:E:172:GLU:CG	1.86	0.85
1:B:222:VAL:HG21	1:C:198:GLN:NE2	1.91	0.85
1:D:434:SER:O	1:E:556:LYS:CD	2.23	0.85
1:A:459:ASN:HB3	1:B:99:ASN:HB3	1.58	0.85
1:E:60:LEU:HG	1:E:61:ALA:H	1.42	0.85
1:E:152:LEU:HB3	1:E:153:PRO:HD2	1.59	0.85
1:A:410:TYR:CD2	1:A:425:LEU:HD13	2.12	0.85
1:C:434:SER:O	1:D:556:LYS:CD	2.24	0.85
1:C:152:LEU:HB3	1:C:153:PRO:HD2	1.59	0.85
1:C:230:VAL:HG13	1:C:503:GLN:HE22	1.40	0.85
1:D:434:SER:HB3	1:E:556:LYS:CB	2.07	0.85
1:A:434:SER:O	1:B:556:LYS:CD	2.23	0.85
1:D:152:LEU:HB3	1:D:153:PRO:HD2	1.59	0.85
1:A:491:SER:HA	1:E:233:ASN:CB	2.06	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:152:LEU:HB3	1:B:153:PRO:HD2	1.59	0.85
2:G:13:PRO:HB2	2:G:17:TYR:HE1	1.40	0.85
1:D:410:TYR:CD2	1:D:425:LEU:HD11	2.10	0.85
1:B:60:LEU:HG	1:B:61:ALA:H	1.42	0.84
1:B:233:ASN:CB	1:C:491:SER:HA	2.05	0.84
1:B:410:TYR:CD2	1:B:425:LEU:CD1	2.59	0.84
1:C:436:GLN:NE2	1:D:126:ILE:CD1	2.40	0.84
1:A:57:TYR:HD1	1:E:450:THR:CB	1.90	0.84
1:C:60:LEU:HG	1:C:61:ALA:H	1.42	0.84
1:D:227:MET:O	2:H:17:TYR:HE2	1.57	0.84
1:D:450:THR:HG21	1:E:96:ILE:HG23	1.57	0.84
1:E:174:ASN:ND2	1:E:183:LEU:HD13	1.90	0.84
1:A:152:LEU:HB3	1:A:153:PRO:HD2	1.59	0.84
1:A:87:ASP:HB3	1:E:266:PRO:HD3	1.57	0.84
1:B:449:VAL:HG13	1:C:55:ILE:HD13	1.58	0.84
1:B:459:ASN:HB2	1:C:99:ASN:CB	2.07	0.84
1:B:482:TYR:CE1	1:C:486:ILE:CG2	2.60	0.84
1:C:425:LEU:O	1:D:132:PRO:HG2	1.77	0.84
1:C:436:GLN:CB	1:D:556:LYS:HZ1	1.90	0.84
1:C:556:LYS:HE2	1:C:558:LEU:CD2	2.07	0.84
2:F:13:PRO:HB2	2:F:17:TYR:HE1	1.40	0.84
1:B:425:LEU:O	1:C:132:PRO:HG2	1.77	0.84
1:A:68:ARG:HD2	1:A:70:TYR:CZ	2.12	0.84
1:A:555:TYR:HE2	1:E:433:GLY:CA	1.90	0.84
1:C:266:PRO:HD3	1:D:87:ASP:HB3	1.59	0.84
1:C:268:GLN:HE21	1:D:84:TYR:HD2	1.26	0.84
1:B:83:ASN:HD21	1:B:91:PHE:HB2	1.35	0.84
1:D:436:GLN:HB2	1:E:556:LYS:HZ1	1.39	0.84
1:C:450:THR:HG21	1:D:96:ILE:HG23	1.58	0.84
1:D:222:VAL:HG21	1:E:198:GLN:NE2	1.93	0.84
2:H:9:ASP:O	2:H:10:THR:HB	1.79	0.83
1:A:434:SER:HB3	1:B:556:LYS:CB	2.07	0.83
1:A:556:LYS:HZ1	1:E:436:GLN:HB2	1.36	0.83
1:B:174:ASN:ND2	1:B:183:LEU:HD13	1.90	0.83
1:A:486:ILE:HG23	1:E:482:TYR:CE1	2.11	0.83
1:B:425:LEU:CD2	1:C:172:GLU:HB3	2.08	0.83
1:C:434:SER:HB3	1:D:556:LYS:CB	2.07	0.83
1:D:266:PRO:HD3	1:E:87:ASP:HB3	1.60	0.83
1:E:556:LYS:HE2	1:E:558:LEU:CD2	2.08	0.83
1:B:436:GLN:NE2	1:B:465:ALA:CB	2.40	0.83
1:D:233:ASN:CB	1:E:491:SER:HA	2.08	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:556:LYS:HE2	1:D:558:LEU:CD2	2.08	0.83
1:C:449:VAL:HG13	1:D:55:ILE:HD13	1.58	0.83
1:D:57:TYR:CD2	1:D:60:LEU:HB2	2.14	0.83
1:D:68:ARG:HD3	1:D:70:TYR:HE2	1.40	0.83
1:E:57:TYR:CD2	1:E:60:LEU:HB3	2.13	0.83
1:A:55:ILE:HD13	1:E:449:VAL:HG13	1.60	0.83
1:A:555:TYR:CE1	1:E:262:ARG:HD2	2.14	0.83
1:A:410:TYR:CD2	1:A:425:LEU:HD12	2.10	0.83
1:A:132:PRO:HG2	1:E:425:LEU:O	1.78	0.82
1:B:266:PRO:CD	1:C:87:ASP:CB	2.57	0.82
1:C:476:TYR:CE2	1:D:477:ASN:HB3	2.13	0.82
1:A:555:TYR:CE2	1:E:433:GLY:CA	2.62	0.82
1:E:82:LEU:HD13	1:E:92:LEU:CD1	2.09	0.82
1:A:436:GLN:NE2	1:A:465:ALA:CB	2.41	0.82
1:C:47:ARG:NH2	1:C:53:ASN:ND2	2.28	0.82
1:A:477:ASN:HB3	1:E:476:TYR:CE2	2.15	0.82
1:A:425:LEU:O	1:B:132:PRO:HG2	1.79	0.82
1:B:230:VAL:HG11	1:C:492:LEU:HB3	1.62	0.82
1:C:68:ARG:HD3	1:C:70:TYR:HE2	1.39	0.82
1:B:425:LEU:CD2	1:C:172:GLU:CB	2.56	0.82
1:D:174:ASN:ND2	1:D:183:LEU:HD13	1.90	0.82
1:B:556:LYS:HE2	1:B:558:LEU:CD2	2.08	0.82
1:C:82:LEU:HD13	1:C:92:LEU:CD1	2.09	0.82
1:C:436:GLN:HB2	1:D:556:LYS:HZ1	1.44	0.82
1:A:198:GLN:NE2	1:E:222:VAL:CG2	2.43	0.81
1:C:222:VAL:HG21	1:D:198:GLN:NE2	1.95	0.81
1:C:267:PHE:CD1	1:D:86:ASN:O	2.33	0.81
1:D:82:LEU:HD13	1:D:92:LEU:CD1	2.09	0.81
1:E:51:GLY:O	1:E:114:ASP:CB	2.28	0.81
1:A:47:ARG:CB	1:E:569:ARG:O	2.29	0.81
1:A:222:VAL:HG21	1:B:198:GLN:NE2	1.96	0.81
1:A:492:LEU:HB3	1:E:230:VAL:HG11	1.62	0.81
1:B:82:LEU:HD13	1:B:92:LEU:CD1	2.09	0.81
1:B:264:ARG:NE	1:B:424:LEU:HD21	1.95	0.81
1:C:51:GLY:O	1:C:114:ASP:CB	2.28	0.81
1:A:264:ARG:NE	1:A:424:LEU:HD21	1.96	0.81
1:B:57:TYR:CE2	1:B:60:LEU:HB3	2.14	0.81
1:D:449:VAL:HG13	1:E:55:ILE:HD13	1.61	0.81
1:A:82:LEU:HD13	1:A:92:LEU:CD1	2.09	0.81
2:F:9:ASP:O	2:F:10:THR:HB	1.79	0.81
1:D:264:ARG:NE	1:D:424:LEU:HD21	1.96	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:449:VAL:HG13	1:B:55:ILE:HD13	1.61	0.81
1:A:51:GLY:O	1:A:114:ASP:CB	2.29	0.81
1:A:57:TYR:HD1	1:E:450:THR:HG22	0.65	0.81
1:A:266:PRO:HD3	1:B:87:ASP:HB3	1.61	0.81
1:B:51:GLY:O	1:B:114:ASP:CB	2.28	0.81
1:D:51:GLY:O	1:D:114:ASP:CB	2.28	0.81
1:A:450:THR:HG21	1:B:96:ILE:CG2	2.11	0.81
1:B:450:THR:HG21	1:C:96:ILE:CG2	2.10	0.81
1:C:459:ASN:HB2	1:D:99:ASN:CB	2.10	0.81
1:A:87:ASP:CB	1:E:266:PRO:CD	2.58	0.81
1:C:264:ARG:NE	1:C:424:LEU:HD21	1.96	0.81
1:D:267:PHE:CD1	1:E:86:ASN:O	2.34	0.81
1:D:459:ASN:HB2	1:E:99:ASN:CB	2.10	0.81
1:E:264:ARG:NE	1:E:424:LEU:HD21	1.96	0.80
1:A:267:PHE:CE2	1:B:84:TYR:CD1	2.69	0.80
1:A:425:LEU:CD2	1:B:172:GLU:CB	2.59	0.80
1:A:436:GLN:NE2	1:A:465:ALA:HB1	1.92	0.80
1:A:475:PHE:HD2	1:E:476:TYR:CD1	1.99	0.80
1:B:474:SER:HB3	1:C:473:LYS:HG3	1.63	0.80
1:C:228:PRO:HB3	1:D:493:THR:HG23	1.60	0.80
1:D:410:TYR:CZ	1:D:425:LEU:HD12	2.11	0.80
1:B:222:VAL:CG2	1:C:198:GLN:NE2	2.45	0.80
1:C:57:TYR:CE2	1:C:60:LEU:HB3	2.13	0.80
1:C:257:ASN:CB	1:D:555:TYR:OH	2.29	0.80
1:C:476:TYR:CD1	1:D:475:PHE:HD2	1.99	0.80
1:D:569:ARG:O	1:E:47:ARG:CB	2.30	0.80
1:A:436:GLN:HB2	1:B:556:LYS:HZ1	1.46	0.80
1:C:234:GLU:HG3	1:D:487:ARG:HH21	1.46	0.80
1:A:410:TYR:CE2	1:A:425:LEU:CD1	2.65	0.80
1:C:425:LEU:HD22	1:D:172:GLU:HB3	1.64	0.80
1:D:268:GLN:HE21	1:E:84:TYR:HD2	1.26	0.80
1:D:425:LEU:O	1:E:132:PRO:HG2	1.80	0.80
1:A:480:ALA:O	1:A:481:VAL:CG2	2.30	0.80
1:A:493:THR:HG23	1:E:228:PRO:HB3	1.60	0.80
1:A:555:TYR:CD2	1:E:433:GLY:HA2	2.16	0.80
1:C:411:ASN:ND2	1:D:172:GLU:H	1.79	0.80
1:A:84:TYR:HD2	1:E:268:GLN:HE21	1.27	0.80
1:A:268:GLN:HE21	1:B:84:TYR:HD2	1.28	0.80
1:B:436:GLN:HG3	1:B:466:GLU:C	2.02	0.80
1:C:217:LEU:HD12	1:C:232:THR:HG21	1.64	0.80
1:C:266:PRO:CD	1:D:87:ASP:CB	2.60	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:425:LEU:HD22	1:B:172:GLU:HB2	1.63	0.80
1:A:436:GLN:CB	1:B:556:LYS:HZ1	1.94	0.80
1:B:68:ARG:HD2	1:B:70:TYR:CZ	2.17	0.80
1:B:480:ALA:O	1:B:481:VAL:CG2	2.30	0.80
1:C:436:GLN:HG3	1:C:466:GLU:C	2.02	0.80
1:D:436:GLN:HG3	1:D:466:GLU:C	2.02	0.80
1:B:268:GLN:HE21	1:C:84:TYR:HD2	1.27	0.79
1:C:452:ARG:CG	1:D:60:LEU:CD1	2.60	0.79
1:B:436:GLN:CB	1:C:556:LYS:HZ1	1.95	0.79
1:A:86:ASN:O	1:E:267:PHE:CD1	2.34	0.79
1:A:410:TYR:CG	1:A:425:LEU:HD12	2.16	0.79
1:B:476:TYR:HB2	1:C:475:PHE:CD2	2.18	0.79
1:B:217:LEU:HD12	1:B:232:THR:HG21	1.64	0.79
1:C:482:TYR:CE1	1:D:486:ILE:HG23	2.16	0.79
1:D:217:LEU:HD12	1:D:232:THR:HG21	1.64	0.79
1:D:450:THR:HG21	1:E:96:ILE:CG2	2.11	0.79
2:G:9:ASP:O	2:G:10:THR:HB	1.79	0.79
1:A:57:TYR:CD1	1:E:450:THR:CA	2.65	0.79
1:A:555:TYR:HE1	1:E:262:ARG:HD2	1.45	0.79
1:A:87:ASP:HB3	1:E:266:PRO:CD	2.13	0.79
1:A:436:GLN:HG3	1:A:466:GLU:C	2.03	0.79
1:A:486:ILE:CG2	1:E:482:TYR:CD1	2.65	0.79
1:C:474:SER:HB3	1:D:473:LYS:HG3	1.65	0.79
1:D:230:VAL:HG11	1:E:492:LEU:HB3	1.65	0.79
1:D:47:ARG:CZ	1:D:53:ASN:ND2	2.45	0.79
1:E:47:ARG:CZ	1:E:53:ASN:ND2	2.45	0.79
1:E:217:LEU:HD12	1:E:232:THR:HG21	1.64	0.79
1:A:57:TYR:CD2	1:A:60:LEU:HB2	2.17	0.79
1:A:464:GLY:HA2	1:B:68:ARG:NH1	1.98	0.79
1:A:569:ARG:O	1:B:47:ARG:CB	2.30	0.79
1:B:47:ARG:CZ	1:B:53:ASN:ND2	2.46	0.79
1:B:569:ARG:O	1:C:47:ARG:CB	2.31	0.79
1:A:411:ASN:ND2	1:B:172:GLU:H	1.81	0.78
1:A:464:GLY:HA3	1:B:68:ARG:HH12	1.45	0.78
1:B:266:PRO:CD	1:C:87:ASP:HB3	2.13	0.78
1:A:486:ILE:HG22	1:E:482:TYR:CD1	2.18	0.78
1:B:234:GLU:HG3	1:C:487:ARG:HH21	1.48	0.78
1:B:436:GLN:HB2	1:C:556:LYS:HZ3	1.46	0.78
1:D:266:PRO:CD	1:E:87:ASP:CB	2.62	0.78
1:E:68:ARG:HD2	1:E:70:TYR:CZ	2.17	0.78
1:A:47:ARG:CZ	1:A:53:ASN:ND2	2.46	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:228:PRO:HG3	2:G:15:TYR:HE1	0.93	0.78
1:C:230:VAL:HG11	1:D:492:LEU:HB3	1.61	0.78
1:C:450:THR:HG21	1:D:96:ILE:CG2	2.13	0.78
1:D:497:ASN:HD21	1:D:500:PRO:HB3	1.49	0.78
1:A:217:LEU:HD12	1:A:232:THR:HG21	1.64	0.78
1:C:464:GLY:HA3	1:D:68:ARG:NH1	1.98	0.78
1:D:464:GLY:HA3	1:E:68:ARG:NH1	1.98	0.78
1:E:431:THR:O	1:E:432:CYS:HB2	1.81	0.78
1:A:473:LYS:HG3	1:E:474:SER:HB3	1.64	0.78
1:B:266:PRO:HD3	1:C:87:ASP:CB	2.14	0.78
1:C:47:ARG:CZ	1:C:53:ASN:ND2	2.46	0.78
1:C:410:TYR:CD2	1:C:425:LEU:CD1	2.66	0.78
1:C:257:ASN:OD1	1:C:432:CYS:HA	1.83	0.78
1:D:425:LEU:CD1	1:E:172:GLU:CG	2.59	0.78
1:A:230:VAL:HG11	1:B:492:LEU:HB3	1.62	0.78
1:D:47:ARG:NH2	1:D:53:ASN:ND2	2.32	0.78
1:D:425:LEU:HD13	1:E:172:GLU:HB2	0.78	0.78
1:A:126:ILE:CD1	1:E:436:GLN:HE22	1.88	0.78
1:B:497:ASN:HD21	1:B:500:PRO:HB3	1.49	0.78
1:A:482:TYR:HB2	1:B:490:THR:HG21	1.65	0.77
2:F:8:GLU:O	2:F:9:ASP:CB	2.32	0.77
1:E:80:ALA:O	1:E:81:SER:HB3	1.84	0.77
1:E:436:GLN:HG3	1:E:466:GLU:C	2.02	0.77
1:A:172:GLU:CG	1:E:410:TYR:CE2	2.63	0.77
1:B:433:GLY:HA2	1:C:555:TYR:CD2	2.20	0.77
1:A:234:GLU:HG3	1:B:487:ARG:HH21	1.47	0.77
1:A:425:LEU:HD13	1:B:172:GLU:CB	2.13	0.77
1:A:475:PHE:CD2	1:E:476:TYR:HB2	2.19	0.77
1:A:482:TYR:CD1	1:B:486:ILE:CG2	2.68	0.77
1:C:57:TYR:HE2	1:C:60:LEU:HB2	1.48	0.77
1:D:482:TYR:CE1	1:E:486:ILE:HG23	2.18	0.77
1:E:497:ASN:HD21	1:E:500:PRO:HB3	1.49	0.77
2:G:10:THR:HG22	2:G:10:THR:O	1.84	0.77
1:D:68:ARG:HD2	1:D:70:TYR:CZ	2.19	0.77
1:D:257:ASN:CB	1:E:555:TYR:OH	2.33	0.77
1:A:87:ASP:CB	1:E:266:PRO:HD3	2.15	0.77
1:D:274:THR:HG22	1:D:275:TYR:H	1.50	0.77
1:D:411:ASN:ND2	1:E:172:GLU:H	1.82	0.77
1:D:474:SER:HG	1:E:475:PHE:HZ	1.33	0.77
1:A:274:THR:HG22	1:A:275:TYR:H	1.50	0.77
1:A:474:SER:HB3	1:B:473:LYS:HG3	1.67	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:8:GLU:O	2:H:9:ASP:CB	2.32	0.77
2:F:10:THR:O	2:F:10:THR:HG22	1.84	0.77
1:A:266:PRO:CD	1:B:87:ASP:CB	2.62	0.77
1:A:486:ILE:HG21	1:E:482:TYR:CE1	2.19	0.77
1:A:497:ASN:HD21	1:A:500:PRO:HB3	1.49	0.77
1:B:257:ASN:CB	1:C:555:TYR:OH	2.33	0.77
1:C:57:TYR:HD2	1:C:60:LEU:HB3	1.48	0.77
1:C:452:ARG:CG	1:D:60:LEU:CG	2.56	0.77
1:D:80:ALA:O	1:D:81:SER:HB3	1.84	0.77
1:A:425:LEU:CD1	1:B:172:GLU:HB2	2.15	0.77
1:D:222:VAL:CG2	1:E:198:GLN:NE2	2.48	0.77
1:B:80:ALA:O	1:B:81:SER:HB3	1.84	0.76
1:B:227:MET:CB	2:G:17:TYR:OH	2.32	0.76
1:A:410:TYR:CE2	1:B:172:GLU:CG	2.64	0.76
1:C:497:ASN:HD21	1:C:500:PRO:HB3	1.49	0.76
1:C:569:ARG:O	1:D:47:ARG:CB	2.32	0.76
2:H:10:THR:O	2:H:10:THR:HG22	1.84	0.76
1:C:425:LEU:HD13	1:D:172:GLU:CG	2.14	0.76
1:D:234:GLU:HG3	1:E:487:ARG:HH21	1.49	0.76
1:A:60:LEU:CD2	1:E:452:ARG:CD	2.59	0.76
1:B:57:TYR:HD2	1:B:60:LEU:HB3	1.48	0.76
1:B:410:TYR:CD2	1:B:425:LEU:HD12	2.21	0.76
1:C:80:ALA:O	1:C:81:SER:HB3	1.84	0.76
1:D:227:MET:CB	2:H:17:TYR:OH	2.32	0.76
1:A:172:GLU:H	1:E:411:ASN:ND2	1.84	0.76
1:A:227:MET:C	2:F:17:TYR:HE2	1.89	0.76
1:D:68:ARG:CD	1:D:70:TYR:HE2	1.94	0.76
1:E:274:THR:HG22	1:E:275:TYR:H	1.50	0.76
1:A:47:ARG:CB	1:E:569:ARG:HA	2.14	0.76
1:B:57:TYR:HE2	1:B:60:LEU:HB2	1.49	0.76
1:B:411:ASN:ND2	1:C:172:GLU:H	1.83	0.76
1:C:464:GLY:CA	1:D:68:ARG:NH1	2.49	0.76
1:D:57:TYR:CD2	1:D:60:LEU:HD22	2.20	0.76
1:B:569:ARG:HA	1:C:47:ARG:HD2	1.68	0.76
1:C:262:ARG:HD2	1:D:555:TYR:CE1	2.21	0.76
1:E:68:ARG:CD	1:E:70:TYR:HE2	1.95	0.76
1:A:569:ARG:HA	1:B:47:ARG:CB	2.15	0.75
1:B:274:THR:HG22	1:B:275:TYR:H	1.49	0.75
1:B:463:VAL:C	1:C:70:TYR:OH	2.25	0.75
1:A:555:TYR:CE2	1:E:432:CYS:O	2.39	0.75
1:C:436:GLN:NE2	1:D:558:LEU:HD21	2.00	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:9:ASP:O	2:H:10:THR:CB	2.34	0.75
1:A:227:MET:CB	2:F:17:TYR:OH	2.32	0.75
2:G:9:ASP:O	2:G:10:THR:CB	2.34	0.75
1:A:80:ALA:O	1:A:81:SER:HB3	1.84	0.75
1:C:266:PRO:HD3	1:D:87:ASP:CB	2.15	0.75
1:A:47:ARG:HD2	1:E:568:SER:O	1.87	0.75
1:A:222:VAL:CG2	1:B:198:GLN:NE2	2.49	0.75
1:A:487:ARG:HH21	1:E:234:GLU:HG3	1.48	0.75
1:B:425:LEU:HD22	1:C:172:GLU:C	2.06	0.75
1:C:51:GLY:O	1:C:114:ASP:HB3	1.87	0.75
1:C:265:GLN:NE2	1:D:85:GLN:CA	2.50	0.75
1:C:482:TYR:CD1	1:D:486:ILE:CG2	2.69	0.75
1:A:68:ARG:CD	1:A:70:TYR:HE2	1.97	0.75
1:A:476:TYR:HB2	1:B:475:PHE:CD2	2.21	0.75
2:F:8:GLU:HG3	2:F:9:ASP:N	2.01	0.75
1:C:222:VAL:CG2	1:D:198:GLN:NE2	2.49	0.75
2:H:8:GLU:HG3	2:H:9:ASP:N	2.01	0.75
1:B:227:MET:C	2:G:17:TYR:HE2	1.89	0.75
1:B:410:TYR:CE2	1:C:172:GLU:CG	2.62	0.75
1:D:265:GLN:NE2	1:E:85:GLN:CA	2.50	0.75
1:D:464:GLY:CA	1:E:68:ARG:NH1	2.50	0.75
1:A:60:LEU:HD22	1:E:452:ARG:HG2	1.64	0.75
2:F:9:ASP:O	2:F:10:THR:CB	2.34	0.75
1:C:267:PHE:CD2	1:D:76:SER:HB3	2.21	0.75
1:D:474:SER:HB3	1:E:473:LYS:HG3	1.69	0.75
1:A:51:GLY:O	1:A:114:ASP:HB3	1.87	0.75
1:B:530:PRO:HD3	1:C:66:THR:O	1.87	0.75
1:A:490:THR:CG2	1:E:482:TYR:HD1	2.00	0.74
1:A:556:LYS:HZ1	1:E:436:GLN:CA	1.99	0.74
1:D:51:GLY:O	1:D:114:ASP:HB3	1.87	0.74
1:D:227:MET:C	2:H:17:TYR:HE2	1.89	0.74
1:B:476:TYR:CD1	1:C:475:PHE:HD2	2.05	0.74
1:D:410:TYR:CE2	1:E:172:GLU:CG	2.65	0.74
1:B:569:ARG:HA	1:C:47:ARG:CB	2.15	0.74
1:D:155:LYS:HB2	1:D:158:GLN:HB2	1.69	0.74
1:C:266:PRO:CD	1:D:87:ASP:HB3	2.16	0.74
1:E:434:SER:OG	1:E:467:LEU:HD11	1.87	0.74
1:A:98:ASN:OD1	1:E:452:ARG:HD3	1.88	0.74
1:B:267:PHE:CD2	1:C:86:ASN:O	2.40	0.74
1:C:452:ARG:CD	1:D:60:LEU:CD1	2.56	0.74
1:B:452:ARG:HD3	1:C:98:ASN:OD1	1.87	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:8:GLU:HG3	2:G:9:ASP:N	2.01	0.74
1:D:267:PHE:CD2	1:E:76:SER:HB3	2.22	0.74
1:C:155:LYS:HB2	1:C:158:GLN:HB2	1.69	0.74
1:A:257:ASN:CB	1:B:555:TYR:OH	2.36	0.74
1:B:51:GLY:O	1:B:114:ASP:HB3	1.87	0.74
1:A:492:LEU:HB2	1:E:230:VAL:HG11	1.70	0.74
1:A:556:LYS:CD	1:E:434:SER:O	2.35	0.74
1:A:66:THR:O	1:E:530:PRO:HD3	1.88	0.73
1:A:265:GLN:NE2	1:B:85:GLN:CA	2.51	0.73
1:A:266:PRO:CD	1:B:87:ASP:HB3	2.18	0.73
1:A:474:SER:HG	1:B:475:PHE:HZ	1.35	0.73
1:C:410:TYR:CE2	1:D:172:GLU:CG	2.62	0.73
1:C:452:ARG:HG2	1:D:60:LEU:CD1	2.18	0.73
1:C:482:TYR:CD1	1:D:486:ILE:HG22	2.23	0.73
2:H:10:THR:O	2:H:11:PHE:HB2	1.88	0.73
1:B:155:LYS:HB2	1:B:158:GLN:HB2	1.69	0.73
1:C:482:TYR:CE1	1:D:486:ILE:HG21	2.23	0.73
1:D:84:TYR:O	1:D:85:GLN:CG	2.36	0.73
1:A:555:TYR:OH	1:E:257:ASN:ND2	2.21	0.73
1:B:230:VAL:HG11	1:C:492:LEU:HB2	1.70	0.73
1:B:568:SER:O	1:C:47:ARG:HD2	1.88	0.73
2:G:8:GLU:O	2:G:9:ASP:CB	2.32	0.73
1:D:266:PRO:CD	1:E:87:ASP:HB3	2.17	0.73
1:D:433:GLY:HA2	1:E:555:TYR:CD2	2.24	0.73
1:D:476:TYR:HB2	1:E:475:PHE:CD2	2.22	0.73
1:A:475:PHE:CZ	1:E:475:PHE:O	2.42	0.73
1:D:450:THR:HG23	1:E:57:TYR:CZ	2.22	0.73
1:D:569:ARG:HA	1:E:47:ARG:CB	2.16	0.73
1:E:51:GLY:O	1:E:114:ASP:HB3	1.87	0.73
1:A:47:ARG:HD2	1:E:569:ARG:HA	1.70	0.73
1:A:155:LYS:HB2	1:A:158:GLN:HB2	1.69	0.73
1:A:495:VAL:HG21	1:E:232:THR:OG1	1.88	0.73
1:A:516:VAL:HG21	1:E:513:ILE:HG12	1.70	0.73
1:A:84:TYR:O	1:A:85:GLN:CG	2.36	0.73
1:B:233:ASN:ND2	1:C:490:THR:O	2.22	0.73
1:B:475:PHE:O	1:C:475:PHE:CZ	2.42	0.73
1:C:274:THR:HG22	1:C:275:TYR:H	1.49	0.73
1:C:436:GLN:NE2	1:D:558:LEU:CD1	2.49	0.73
1:A:433:GLY:HA2	1:B:555:TYR:CD2	2.24	0.73
1:A:475:PHE:CD2	1:E:476:TYR:CD1	2.77	0.73
2:F:10:THR:O	2:F:11:PHE:HB2	1.88	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:14:VAL:HG21	1:C:192:TYR:HE2	1.54	0.73
1:C:476:TYR:HB2	1:D:475:PHE:CD2	2.23	0.73
1:D:266:PRO:HD3	1:E:87:ASP:CB	2.17	0.73
1:A:257:ASN:OD1	1:A:432:CYS:HA	1.89	0.73
1:B:513:ILE:HG12	1:C:516:VAL:HG21	1.71	0.73
1:D:257:ASN:ND2	1:D:432:CYS:O	2.22	0.72
1:E:84:TYR:O	1:E:85:GLN:CG	2.36	0.72
1:A:436:GLN:HB2	1:B:556:LYS:HZ3	1.51	0.72
1:A:568:SER:O	1:B:47:ARG:HD2	1.88	0.72
1:B:436:GLN:CB	1:C:558:LEU:HD21	2.19	0.72
1:D:57:TYR:CE2	1:D:60:LEU:CG	2.69	0.72
1:C:84:TYR:O	1:C:85:GLN:CG	2.37	0.72
1:C:476:TYR:CD1	1:D:475:PHE:CD2	2.76	0.72
1:C:569:ARG:HA	1:D:47:ARG:CB	2.18	0.72
1:C:569:ARG:HA	1:D:47:ARG:HD2	1.72	0.72
1:D:482:TYR:HD1	1:E:490:THR:CG2	2.02	0.72
1:A:475:PHE:CE2	1:E:475:PHE:O	2.43	0.72
1:B:376:LYS:HD2	1:B:378:VAL:HG11	1.70	0.72
1:C:230:VAL:HG11	1:D:492:LEU:HB2	1.70	0.72
1:C:529:LEU:HD21	1:D:68:ARG:HH21	1.55	0.72
1:D:482:TYR:CD1	1:E:486:ILE:CG2	2.72	0.72
1:A:99:ASN:HB3	1:E:459:ASN:CB	2.18	0.72
1:A:266:PRO:HD3	1:B:87:ASP:CB	2.18	0.72
2:F:15:TYR:O	2:F:17:TYR:CD1	2.42	0.72
1:C:433:GLY:HA2	1:D:555:TYR:CD2	2.25	0.72
1:D:262:ARG:HD2	1:E:555:TYR:CE1	2.25	0.72
1:E:155:LYS:HB2	1:E:158:GLN:HB2	1.69	0.72
1:E:83:ASN:OD1	1:E:91:PHE:HA	1.90	0.72
1:D:454:THR:HG21	1:D:459:ASN:OD1	1.90	0.72
1:A:450:THR:CG2	1:B:57:TYR:HE1	1.92	0.71
1:A:556:LYS:NZ	1:E:436:GLN:N	2.38	0.71
1:C:452:ARG:HD3	1:D:98:ASN:OD1	1.89	0.71
1:D:267:PHE:HE1	1:E:86:ASN:O	1.73	0.71
2:H:15:TYR:O	2:H:17:TYR:CD1	2.42	0.71
1:E:47:ARG:NH2	1:E:53:ASN:ND2	2.37	0.71
1:A:87:ASP:CB	1:E:266:PRO:HD2	2.20	0.71
1:A:556:LYS:NZ	1:E:434:SER:O	2.21	0.71
1:A:556:LYS:HB2	1:E:434:SER:HB3	1.71	0.71
1:B:84:TYR:O	1:B:85:GLN:CG	2.36	0.71
1:B:454:THR:HG21	1:B:459:ASN:OD1	1.90	0.71
1:B:232:THR:OG1	1:C:495:VAL:HG21	1.90	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:10:THR:O	2:G:11:PHE:HB2	1.88	0.71
1:A:376:LYS:HD2	1:A:378:VAL:HG11	1.70	0.71
1:B:265:GLN:NE2	1:C:85:GLN:CA	2.52	0.71
1:C:83:ASN:OD1	1:C:91:PHE:HA	1.90	0.71
1:D:463:VAL:HB	1:D:529:LEU:HD13	1.72	0.71
1:D:482:TYR:CD1	1:E:486:ILE:HG22	2.25	0.71
2:G:15:TYR:O	2:G:17:TYR:CD1	2.42	0.71
1:C:264:ARG:O	1:D:87:ASP:HB3	1.91	0.71
1:C:454:THR:HG21	1:C:459:ASN:OD1	1.90	0.71
1:C:463:VAL:HB	1:C:529:LEU:HD13	1.73	0.71
1:A:68:ARG:HH12	1:E:464:GLY:HA3	1.53	0.71
1:A:569:ARG:HA	1:B:47:ARG:HD2	1.71	0.71
1:B:463:VAL:HB	1:B:529:LEU:HD13	1.72	0.71
1:B:475:PHE:O	1:C:475:PHE:CE2	2.43	0.71
1:C:425:LEU:CD1	1:D:172:GLU:CB	2.46	0.71
1:C:530:PRO:HD3	1:D:66:THR:O	1.91	0.71
1:B:266:PRO:CD	1:C:87:ASP:HB2	2.21	0.71
1:B:266:PRO:HD2	1:C:87:ASP:CB	2.19	0.71
1:C:449:VAL:CG1	1:D:55:ILE:HD13	2.20	0.71
1:D:83:ASN:OD1	1:D:91:PHE:HA	1.90	0.71
1:D:568:SER:O	1:E:47:ARG:HD2	1.89	0.71
1:A:530:PRO:HD3	1:B:66:THR:O	1.90	0.71
1:B:57:TYR:HE2	1:B:60:LEU:CB	2.00	0.71
1:C:482:TYR:HD1	1:D:490:THR:CG2	2.04	0.71
1:A:496:PHE:CE1	1:E:234:GLU:OE1	2.44	0.71
1:A:496:PHE:HE1	1:E:234:GLU:OE1	1.74	0.71
1:B:83:ASN:OD1	1:B:91:PHE:HA	1.90	0.71
1:B:474:SER:HG	1:C:475:PHE:HZ	1.39	0.71
1:A:47:ARG:NH2	1:A:53:ASN:ND2	2.39	0.70
1:A:230:VAL:HG11	1:B:492:LEU:HB2	1.72	0.70
1:A:558:LEU:HD21	1:E:436:GLN:CB	2.20	0.70
1:B:482:TYR:CD1	1:C:486:ILE:CG2	2.74	0.70
1:C:568:SER:O	1:D:47:ARG:HD2	1.91	0.70
1:D:425:LEU:CD1	1:E:172:GLU:HG3	2.19	0.70
1:E:60:LEU:HG	1:E:61:ALA:N	2.06	0.70
1:A:482:TYR:CE1	1:B:486:ILE:HG23	2.25	0.70
1:B:450:THR:HG23	1:C:57:TYR:HD1	1.50	0.70
1:D:530:PRO:HD3	1:E:66:THR:O	1.91	0.70
1:E:57:TYR:HD2	1:E:60:LEU:HB3	1.52	0.70
1:C:425:LEU:HD22	1:D:172:GLU:CB	2.22	0.70
1:D:569:ARG:HA	1:E:47:ARG:HD2	1.73	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:463:VAL:HB	1:E:529:LEU:HD13	1.72	0.70
1:D:230:VAL:HG11	1:E:492:LEU:HB2	1.73	0.70
1:A:70:TYR:OH	1:E:463:VAL:C	2.30	0.70
1:A:83:ASN:OD1	1:A:91:PHE:HA	1.90	0.70
1:A:87:ASP:HB2	1:E:266:PRO:CD	2.22	0.70
1:A:459:ASN:CB	1:B:99:ASN:HB3	2.20	0.70
1:A:464:GLY:HA2	1:B:68:ARG:HH11	1.57	0.70
1:A:476:TYR:CD1	1:B:475:PHE:HD2	2.10	0.70
1:B:234:GLU:OE1	1:C:496:PHE:HE1	1.74	0.70
1:B:449:VAL:CG1	1:C:55:ILE:HD13	2.21	0.70
1:B:454:THR:CG2	1:B:459:ASN:OD1	2.40	0.70
1:B:459:ASN:CB	1:C:99:ASN:HB3	2.17	0.70
1:A:171:PRO:HA	1:E:411:ASN:ND2	2.06	0.70
1:B:411:ASN:ND2	1:C:171:PRO:HA	2.06	0.70
1:A:425:LEU:HD22	1:B:172:GLU:C	2.11	0.70
1:A:463:VAL:HB	1:A:529:LEU:HD13	1.72	0.70
1:A:556:LYS:HZ3	1:E:436:GLN:HB2	1.54	0.70
1:D:454:THR:CG2	1:D:459:ASN:OD1	2.40	0.70
2:H:13:PRO:CA	1:E:197:ARG:HH12	2.04	0.70
1:A:262:ARG:HD2	1:B:555:TYR:CE1	2.27	0.70
1:C:233:ASN:ND2	1:D:490:THR:O	2.24	0.70
1:C:454:THR:CG2	1:C:459:ASN:OD1	2.40	0.70
1:D:452:ARG:HD3	1:E:98:ASN:OD1	1.90	0.70
1:A:194:LYS:CB	1:E:221:PRO:HG3	2.19	0.70
1:B:60:LEU:HG	1:B:61:ALA:N	2.06	0.70
1:B:234:GLU:OE1	1:C:496:PHE:CE1	2.45	0.70
1:C:267:PHE:CE2	1:D:76:SER:HB2	2.10	0.70
1:C:474:SER:HG	1:D:475:PHE:HZ	1.39	0.70
1:A:186:ASN:HD21	1:E:217:LEU:HD22	1.57	0.70
1:B:436:GLN:CG	1:B:466:GLU:O	2.39	0.70
1:A:482:TYR:CD1	1:B:486:ILE:HG22	2.27	0.69
1:C:254:ARG:O	1:C:257:ASN:ND2	2.25	0.69
1:A:51:GLY:O	1:A:114:ASP:CG	2.31	0.69
1:C:266:PRO:CD	1:D:87:ASP:HB2	2.22	0.69
1:C:411:ASN:ND2	1:D:171:PRO:HA	2.06	0.69
1:D:376:LYS:HD2	1:D:378:VAL:HG11	1.70	0.69
1:D:476:TYR:CD1	1:E:475:PHE:HD2	2.09	0.69
1:A:85:GLN:CA	1:E:265:GLN:NE2	2.52	0.69
1:A:264:ARG:O	1:B:87:ASP:HB3	1.92	0.69
1:B:410:TYR:CD2	1:B:425:LEU:HD13	2.27	0.69
1:B:434:SER:O	1:C:556:LYS:NZ	2.24	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:436:GLN:N	1:C:556:LYS:NZ	2.39	0.69
1:B:436:GLN:NE2	1:B:465:ALA:HB1	1.93	0.69
1:C:266:PRO:HD2	1:D:87:ASP:CB	2.22	0.69
1:D:51:GLY:O	1:D:114:ASP:CG	2.31	0.69
1:A:228:PRO:HB2	1:B:493:THR:HG21	1.73	0.69
1:A:476:TYR:HE2	1:B:477:ASN:CB	2.03	0.69
1:B:221:PRO:CG	1:C:193:LEU:O	2.40	0.69
2:H:14:VAL:HG21	1:E:192:TYR:HE2	1.58	0.69
1:A:193:LEU:O	1:E:221:PRO:CG	2.41	0.69
1:A:436:GLN:OE1	1:B:126:ILE:CD1	2.33	0.69
1:A:475:PHE:O	1:B:475:PHE:CZ	2.46	0.69
1:C:436:GLN:CG	1:C:466:GLU:O	2.39	0.69
1:B:217:LEU:HD22	1:C:186:ASN:HD21	1.58	0.69
1:C:475:PHE:O	1:D:475:PHE:CZ	2.45	0.69
1:B:262:ARG:HD2	1:C:555:TYR:CE1	2.28	0.69
1:B:529:LEU:HD11	1:C:68:ARG:NH1	2.07	0.69
1:C:60:LEU:HG	1:C:61:ALA:N	2.06	0.69
1:A:449:VAL:CG1	1:B:55:ILE:HD13	2.23	0.69
1:C:436:GLN:CB	1:D:558:LEU:HD21	2.23	0.69
1:A:434:SER:O	1:B:556:LYS:NZ	2.23	0.69
1:B:51:GLY:O	1:B:114:ASP:CG	2.31	0.69
1:B:436:GLN:CD	1:C:558:LEU:HD11	2.12	0.69
1:C:51:GLY:O	1:C:114:ASP:CG	2.31	0.69
1:C:68:ARG:CD	1:C:70:TYR:HE2	1.99	0.69
1:C:264:ARG:O	1:D:87:ASP:CG	2.31	0.69
1:C:410:TYR:CE2	1:C:425:LEU:HD12	2.27	0.69
1:C:436:GLN:HE22	1:D:558:LEU:CD1	1.95	0.69
1:E:436:GLN:CG	1:E:466:GLU:O	2.39	0.69
1:A:267:PHE:CE2	1:B:80:ALA:HA	2.18	0.68
1:B:450:THR:CG2	1:C:57:TYR:HE1	1.95	0.68
1:D:152:LEU:HD21	1:D:199:ASN:O	1.94	0.68
1:E:51:GLY:O	1:E:114:ASP:CG	2.31	0.68
1:D:482:TYR:CE1	1:E:486:ILE:HG21	2.26	0.68
1:A:68:ARG:NH1	1:E:464:GLY:HA2	2.05	0.68
1:A:411:ASN:ND2	1:B:171:PRO:HA	2.08	0.68
1:C:513:ILE:HG12	1:D:516:VAL:HG21	1.75	0.68
1:D:449:VAL:CG1	1:E:55:ILE:HD13	2.23	0.68
1:A:152:LEU:HD21	1:A:199:ASN:O	1.94	0.68
1:B:221:PRO:HG3	1:C:194:LYS:CB	2.21	0.68
1:A:228:PRO:CB	1:B:493:THR:HG21	2.23	0.68
2:G:13:PRO:CA	1:C:197:ARG:NH1	2.57	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:482:TYR:HD1	1:E:490:THR:HG22	1.58	0.68
1:E:152:LEU:HD21	1:E:199:ASN:O	1.93	0.68
1:C:267:PHE:HE1	1:D:86:ASN:O	1.75	0.68
1:A:558:LEU:HD11	1:E:436:GLN:CD	2.13	0.68
1:C:221:PRO:CG	1:D:193:LEU:O	2.41	0.68
1:C:234:GLU:OE1	1:D:496:PHE:HE1	1.77	0.68
1:D:264:ARG:O	1:E:87:ASP:HB3	1.92	0.68
1:D:436:GLN:HB2	1:E:556:LYS:HZ3	1.58	0.68
1:B:152:LEU:HD21	1:B:199:ASN:O	1.94	0.68
1:B:267:PHE:HE2	1:C:87:ASP:HA	1.59	0.68
1:C:475:PHE:O	1:D:475:PHE:CE2	2.47	0.68
1:A:55:ILE:HD13	1:E:449:VAL:CG1	2.23	0.68
1:C:436:GLN:N	1:D:556:LYS:NZ	2.42	0.67
1:D:266:PRO:CD	1:E:87:ASP:HB2	2.24	0.67
1:B:135:ASN:HA	1:B:172:GLU:OE1	1.95	0.67
1:B:476:TYR:HE2	1:C:477:ASN:CB	2.06	0.67
1:C:152:LEU:HD21	1:C:199:ASN:O	1.94	0.67
1:C:436:GLN:HB2	1:D:556:LYS:HZ3	1.57	0.67
1:D:436:GLN:CG	1:D:466:GLU:O	2.38	0.67
1:A:135:ASN:HA	1:A:172:GLU:OE1	1.95	0.67
1:A:221:PRO:CG	1:B:193:LEU:O	2.42	0.67
1:D:475:PHE:O	1:E:475:PHE:CZ	2.47	0.67
1:A:266:PRO:CD	1:B:87:ASP:HB2	2.25	0.67
1:B:436:GLN:HB2	1:C:556:LYS:HZ1	1.50	0.67
1:B:436:GLN:CA	1:C:556:LYS:HZ1	2.06	0.67
1:B:482:TYR:CE1	1:C:486:ILE:HG23	2.29	0.67
1:D:411:ASN:ND2	1:E:171:PRO:HA	2.09	0.67
1:D:425:LEU:HD12	1:E:172:GLU:HG3	1.75	0.67
1:A:99:ASN:CB	1:E:459:ASN:HB3	2.24	0.67
1:A:234:GLU:OE1	1:B:496:PHE:HE1	1.78	0.67
1:A:450:THR:HG23	1:B:57:TYR:HD1	1.53	0.67
1:B:267:PHE:CE1	1:C:76:SER:OG	2.48	0.67
1:B:410:TYR:CE2	1:B:425:LEU:HD13	2.29	0.67
1:D:101:TYR:CD2	1:D:105:GLU:HG2	2.29	0.67
1:D:376:LYS:CD	1:D:378:VAL:CG1	2.66	0.67
1:E:101:TYR:CD2	1:E:105:GLU:HG2	2.29	0.67
1:B:230:VAL:O	1:C:493:THR:HG21	1.95	0.67
1:B:264:ARG:O	1:C:87:ASP:HB3	1.95	0.67
1:C:68:ARG:CD	1:C:70:TYR:CZ	2.73	0.67
1:A:513:ILE:HG12	1:B:516:VAL:HG21	1.76	0.67
1:C:459:ASN:CB	1:D:99:ASN:HB3	2.20	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:267:PHE:CE1	1:E:83:ASN:HB3	2.29	0.67
1:D:513:ILE:HG12	1:E:516:VAL:HG21	1.76	0.67
1:E:135:ASN:HA	1:E:172:GLU:OE1	1.94	0.67
2:F:7:SER:O	2:F:8:GLU:C	2.33	0.67
1:C:434:SER:O	1:D:556:LYS:NZ	2.23	0.67
1:D:266:PRO:HD2	1:E:87:ASP:CB	2.24	0.67
1:A:228:PRO:HB3	1:B:493:THR:CG2	2.25	0.67
1:A:436:GLN:CG	1:A:466:GLU:O	2.38	0.67
1:A:556:LYS:CB	1:E:434:SER:HB3	2.24	0.67
1:B:410:TYR:CG	1:B:425:LEU:HD12	2.29	0.67
1:D:232:THR:OG1	1:E:495:VAL:HG21	1.94	0.67
1:A:232:THR:OG1	1:B:495:VAL:HG21	1.95	0.67
1:A:266:PRO:HD2	1:B:87:ASP:CB	2.24	0.67
1:C:57:TYR:HE2	1:C:60:LEU:CB	2.00	0.67
1:D:228:PRO:HB2	1:E:493:THR:HG21	1.76	0.67
1:D:434:SER:O	1:E:556:LYS:NZ	2.24	0.67
1:E:56:ARG:HB2	1:E:112:ASN:HB2	1.77	0.67
1:A:101:TYR:CD2	1:A:105:GLU:HG2	2.29	0.66
2:G:7:SER:O	2:G:8:GLU:C	2.33	0.66
1:C:101:TYR:CD2	1:C:105:GLU:HG2	2.29	0.66
1:C:234:GLU:OE1	1:D:496:PHE:CE1	2.48	0.66
1:B:264:ARG:O	1:C:87:ASP:CG	2.33	0.66
1:B:476:TYR:CD1	1:C:475:PHE:CD2	2.83	0.66
1:A:47:ARG:CB	1:E:569:ARG:CA	2.67	0.66
1:A:475:PHE:HZ	1:E:474:SER:HG	1.41	0.66
2:G:13:PRO:HB2	2:G:17:TYR:CE1	2.29	0.66
1:D:135:ASN:HA	1:D:172:GLU:OE1	1.94	0.66
1:D:459:ASN:CB	1:E:99:ASN:HB3	2.20	0.66
1:D:529:LEU:HD21	1:E:68:ARG:HH21	1.59	0.66
1:B:56:ARG:HB2	1:B:112:ASN:HB2	1.78	0.66
1:B:101:TYR:CD2	1:B:105:GLU:HG2	2.29	0.66
1:C:152:LEU:HB3	1:C:153:PRO:CD	2.26	0.66
1:D:56:ARG:HB2	1:D:112:ASN:HB2	1.78	0.66
1:D:221:PRO:HG3	1:E:194:LYS:CB	2.25	0.66
1:D:264:ARG:O	1:E:87:ASP:CG	2.34	0.66
2:H:13:PRO:CA	1:E:197:ARG:NH1	2.58	0.66
1:A:264:ARG:O	1:B:87:ASP:CG	2.34	0.66
1:B:264:ARG:CZ	1:B:424:LEU:HD21	2.26	0.66
1:C:436:GLN:CA	1:D:556:LYS:HZ1	2.09	0.66
1:D:152:LEU:HB3	1:D:153:PRO:CD	2.26	0.66
1:B:393:LEU:HD23	1:B:401:THR:HG22	1.78	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:481:VAL:HG23	1:C:490:THR:CB	2.25	0.66
1:D:221:PRO:CG	1:E:193:LEU:O	2.44	0.66
1:D:234:GLU:OE1	1:E:496:PHE:HE1	1.78	0.66
1:A:57:TYR:CD1	1:E:450:THR:CG2	2.26	0.66
1:A:425:LEU:CD2	1:B:172:GLU:HB2	2.22	0.66
2:F:14:VAL:HG21	1:B:192:TYR:HE2	1.60	0.66
1:C:264:ARG:CZ	1:C:424:LEU:HD21	2.26	0.66
2:H:7:SER:O	2:H:8:GLU:C	2.33	0.66
1:E:264:ARG:CZ	1:E:424:LEU:HD21	2.26	0.66
1:A:56:ARG:HB2	1:A:112:ASN:HB2	1.77	0.66
1:B:436:GLN:OE1	1:C:126:ILE:CD1	2.36	0.66
1:A:155:LYS:HG3	1:A:158:GLN:OE1	1.96	0.66
1:A:264:ARG:CZ	1:A:424:LEU:HD21	2.26	0.66
1:A:475:PHE:O	1:B:475:PHE:CE2	2.48	0.66
1:C:135:ASN:HA	1:C:172:GLU:OE1	1.95	0.66
1:B:230:VAL:CG1	1:C:492:LEU:HB2	2.26	0.66
1:D:228:PRO:CB	1:E:493:THR:HG21	2.25	0.66
1:D:234:GLU:OE1	1:E:496:PHE:CE1	2.49	0.66
1:C:56:ARG:HB2	1:C:112:ASN:HB2	1.78	0.65
1:C:155:LYS:HG3	1:C:158:GLN:OE1	1.96	0.65
1:C:232:THR:OG1	1:D:495:VAL:HG21	1.95	0.65
1:D:57:TYR:OH	1:D:98:ASN:ND2	2.30	0.65
1:D:98:ASN:O	1:D:99:ASN:HB2	1.96	0.65
1:A:152:LEU:HB3	1:A:153:PRO:CD	2.26	0.65
1:B:152:LEU:HB3	1:B:153:PRO:CD	2.26	0.65
1:B:482:TYR:CD1	1:C:486:ILE:HG22	2.30	0.65
1:D:264:ARG:CZ	1:D:424:LEU:HD21	2.26	0.65
1:A:490:THR:O	1:E:233:ASN:ND2	2.29	0.65
1:B:228:PRO:HB2	1:C:493:THR:HG21	1.78	0.65
1:C:230:VAL:CG1	1:D:492:LEU:HB2	2.25	0.65
1:A:87:ASP:CG	1:E:264:ARG:O	2.34	0.65
1:A:172:GLU:HB3	1:E:425:LEU:HD13	1.70	0.65
1:B:257:ASN:OD1	1:B:432:CYS:HA	1.97	0.65
1:B:292:TYR:CE1	1:B:376:LYS:CD	2.58	0.65
1:C:221:PRO:HG3	1:D:194:LYS:CB	2.25	0.65
1:C:450:THR:O	1:C:450:THR:HG22	1.97	0.65
1:D:475:PHE:O	1:E:475:PHE:CE2	2.49	0.65
1:D:476:TYR:HE2	1:E:477:ASN:CB	2.07	0.65
1:A:425:LEU:CD2	1:B:172:GLU:HB3	2.18	0.65
1:A:459:ASN:HB3	1:B:99:ASN:CB	2.27	0.65
1:A:490:THR:HG22	1:E:482:TYR:HD1	1.60	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:436:GLN:CB	1:E:558:LEU:HD21	2.27	0.65
1:A:87:ASP:HB3	1:E:264:ARG:O	1.95	0.65
1:A:234:GLU:OE1	1:B:496:PHE:CE1	2.49	0.65
2:F:13:PRO:CA	1:B:197:ARG:HH12	2.07	0.65
1:C:98:ASN:O	1:C:99:ASN:HB2	1.96	0.65
1:C:267:PHE:CE1	1:D:83:ASN:HB3	2.32	0.65
1:C:452:ARG:HG3	1:D:60:LEU:CD2	2.15	0.65
1:C:482:TYR:HD1	1:D:490:THR:HG22	1.62	0.65
1:E:155:LYS:HG3	1:E:158:GLN:OE1	1.96	0.65
1:C:68:ARG:HD2	1:C:70:TYR:OH	1.96	0.65
1:E:154:THR:O	1:E:155:LYS:CB	2.45	0.65
1:A:492:LEU:HB2	1:E:230:VAL:CG1	2.27	0.65
1:A:514:THR:HB	1:E:476:TYR:CE1	2.31	0.65
2:F:12:ASN:O	2:F:14:VAL:N	2.30	0.65
1:A:393:LEU:HD23	1:A:401:THR:HG22	1.78	0.65
1:C:154:THR:O	1:C:155:LYS:CB	2.45	0.65
1:B:155:LYS:HG3	1:B:158:GLN:OE1	1.96	0.64
2:G:12:ASN:O	2:G:14:VAL:N	2.30	0.64
1:D:155:LYS:HG3	1:D:158:GLN:OE1	1.96	0.64
1:A:86:ASN:O	1:E:267:PHE:HE1	1.78	0.64
1:A:230:VAL:O	1:B:493:THR:HG21	1.97	0.64
1:A:436:GLN:CB	1:B:558:LEU:HD21	2.26	0.64
1:C:436:GLN:CD	1:D:558:LEU:HD11	2.16	0.64
1:D:228:PRO:HB3	1:E:493:THR:CG2	2.28	0.64
1:E:393:LEU:HD23	1:E:401:THR:HG22	1.78	0.64
1:A:450:THR:HG22	1:A:450:THR:O	1.97	0.64
1:C:217:LEU:HD22	1:D:186:ASN:HD21	1.61	0.64
1:A:98:ASN:O	1:A:99:ASN:HB2	1.96	0.64
1:E:90:ASN:HD22	1:E:457:ILE:HG21	1.63	0.64
1:A:376:LYS:CD	1:A:378:VAL:CG1	2.66	0.64
1:B:47:ARG:HG2	1:B:48:PRO:HD2	1.78	0.64
1:B:425:LEU:CD2	1:C:172:GLU:HB2	2.28	0.64
1:C:90:ASN:HD22	1:C:457:ILE:HG21	1.63	0.64
1:E:98:ASN:O	1:E:99:ASN:HB2	1.96	0.64
1:E:152:LEU:HB3	1:E:153:PRO:CD	2.26	0.64
1:B:63:LEU:HD23	1:B:64:PHE:O	1.98	0.64
1:D:393:LEU:HD23	1:D:401:THR:HG22	1.78	0.64
1:C:393:LEU:HD23	1:C:401:THR:HG22	1.78	0.64
2:H:12:ASN:O	2:H:14:VAL:N	2.30	0.64
1:A:217:LEU:HD22	1:B:186:ASN:HD21	1.62	0.64
1:A:230:VAL:CG1	1:B:492:LEU:HB2	2.27	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:63:LEU:HD23	1:C:64:PHE:O	1.98	0.64
1:D:267:PHE:CE2	1:E:76:SER:HB2	2.11	0.64
2:H:13:PRO:HB2	2:H:17:TYR:CE1	2.29	0.64
1:A:63:LEU:HD23	1:A:64:PHE:O	1.98	0.64
1:A:90:ASN:HD22	1:A:457:ILE:HG21	1.63	0.64
1:B:425:LEU:CD2	1:C:172:GLU:C	2.66	0.64
1:C:265:GLN:HE21	1:D:85:GLN:C	2.01	0.64
1:D:476:TYR:CD1	1:E:475:PHE:CD2	2.86	0.64
1:E:63:LEU:HD23	1:E:64:PHE:O	1.98	0.64
1:A:436:GLN:N	1:B:556:LYS:NZ	2.46	0.63
1:B:425:LEU:HD21	1:C:172:GLU:O	1.98	0.63
1:A:230:VAL:HG11	1:B:492:LEU:CD1	2.28	0.63
1:B:426:CYS:SG	1:C:553:TYR:HD2	2.21	0.63
1:D:450:THR:CG2	1:E:57:TYR:CD1	2.77	0.63
1:D:450:THR:HG22	1:D:450:THR:O	1.97	0.63
1:A:50:GLY:HA2	1:A:54:SER:HB3	1.81	0.63
1:A:490:THR:CG2	1:E:482:TYR:CD1	2.81	0.63
1:C:262:ARG:HD2	1:D:555:TYR:HE1	1.60	0.63
2:F:13:PRO:HB2	2:F:17:TYR:CE1	2.29	0.63
1:B:450:THR:O	1:B:450:THR:HG22	1.97	0.63
1:C:47:ARG:HG2	1:C:48:PRO:HD2	1.78	0.63
1:D:63:LEU:HD23	1:D:64:PHE:O	1.98	0.63
1:A:267:PHE:CZ	1:B:80:ALA:CA	2.24	0.63
1:B:98:ASN:O	1:B:99:ASN:HB2	1.96	0.63
1:A:221:PRO:HG3	1:B:194:LYS:CB	2.27	0.63
1:A:555:TYR:OH	1:E:257:ASN:HB3	1.95	0.63
1:C:425:LEU:HD22	1:D:172:GLU:C	2.18	0.63
1:B:378:VAL:HG23	1:B:379:ILE:H	1.64	0.63
1:C:476:TYR:CE1	1:D:514:THR:HB	2.34	0.63
1:E:378:VAL:HG23	1:E:379:ILE:H	1.64	0.63
1:A:254:ARG:O	1:A:257:ASN:ND2	2.32	0.63
1:D:57:TYR:HD2	1:D:60:LEU:HB2	1.63	0.63
1:D:90:ASN:HD22	1:D:457:ILE:HG21	1.63	0.63
1:D:217:LEU:HD22	1:E:186:ASN:HD21	1.63	0.63
1:A:553:TYR:HD2	1:E:426:CYS:SG	2.22	0.63
1:B:425:LEU:HD22	1:C:172:GLU:HB2	1.75	0.63
1:B:480:ALA:O	1:B:482:TYR:N	2.30	0.63
1:D:436:GLN:CA	1:E:556:LYS:HZ1	2.10	0.63
1:D:50:GLY:HA2	1:D:54:SER:HB3	1.81	0.62
1:D:230:VAL:CG1	1:E:492:LEU:HB2	2.29	0.62
1:E:128:HIS:HB3	1:E:556:LYS:HB3	1.81	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:227:MET:HB3	2:F:17:TYR:CZ	2.34	0.62
1:A:426:CYS:HG	1:B:553:TYR:HD2	1.43	0.62
1:B:68:ARG:CD	1:B:70:TYR:HE2	1.95	0.62
1:C:50:GLY:HA2	1:C:54:SER:HB3	1.81	0.62
1:D:378:VAL:HG23	1:D:379:ILE:H	1.64	0.62
1:E:57:TYR:OH	1:E:98:ASN:ND2	2.33	0.62
1:A:47:ARG:CD	1:E:569:ARG:HA	2.29	0.62
1:D:265:GLN:HE21	1:E:85:GLN:C	2.02	0.62
1:A:436:GLN:CD	1:B:558:LEU:HD11	2.19	0.62
1:B:449:VAL:HG13	1:C:55:ILE:CD1	2.30	0.62
1:B:569:ARG:HA	1:C:47:ARG:CD	2.28	0.62
2:G:13:PRO:CA	1:C:197:ARG:HH12	2.04	0.62
1:C:474:SER:O	1:D:473:LYS:NZ	2.32	0.62
1:D:426:CYS:HG	1:E:553:TYR:HD2	1.46	0.62
2:H:15:TYR:HD2	2:H:16:PRO:HD2	1.65	0.62
1:A:186:ASN:ND2	1:E:217:LEU:HD22	2.14	0.62
1:A:463:VAL:C	1:B:70:TYR:OH	2.38	0.62
1:A:495:VAL:CG2	1:E:232:THR:OG1	2.47	0.62
1:B:228:PRO:CB	1:C:493:THR:HG21	2.29	0.62
1:B:476:TYR:CE1	1:C:514:THR:HB	2.35	0.62
1:C:410:TYR:CG	1:C:425:LEU:HD12	2.34	0.62
1:A:476:TYR:CD1	1:B:475:PHE:CD2	2.87	0.62
1:A:292:TYR:CE1	1:A:376:LYS:CD	2.57	0.62
1:A:473:LYS:NZ	1:E:474:SER:O	2.33	0.62
1:B:227:MET:HB3	2:G:17:TYR:CZ	2.34	0.62
1:C:378:VAL:HG23	1:C:379:ILE:H	1.64	0.62
1:E:47:ARG:HG2	1:E:48:PRO:HD2	1.78	0.62
1:A:47:ARG:HG2	1:A:48:PRO:HD2	1.78	0.62
1:A:83:ASN:O	1:E:267:PHE:HD1	1.82	0.62
1:A:97:GLN:OE1	1:E:451:PHE:HZ	1.83	0.62
1:A:198:GLN:HE21	1:E:222:VAL:HG21	1.65	0.62
1:A:436:GLN:CA	1:B:556:LYS:HZ1	2.11	0.62
1:A:459:ASN:OD1	1:B:99:ASN:HB3	1.99	0.62
1:A:378:VAL:HG23	1:A:379:ILE:H	1.64	0.62
1:B:482:TYR:HD1	1:C:490:THR:CG2	2.11	0.62
1:C:230:VAL:HG11	1:D:492:LEU:CD1	2.30	0.62
1:D:482:TYR:CD1	1:E:490:THR:CG2	2.83	0.62
1:B:90:ASN:HD22	1:B:457:ILE:HG21	1.63	0.62
1:B:128:HIS:HB3	1:B:556:LYS:HB3	1.81	0.62
1:D:436:GLN:CD	1:E:558:LEU:HD11	2.20	0.62
1:B:50:GLY:HA2	1:B:54:SER:HB3	1.81	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:451:PHE:CZ	1:C:97:GLN:OE1	2.52	0.61
2:H:14:VAL:O	2:H:14:VAL:HG12	2.00	0.61
1:E:57:TYR:CE2	1:E:60:LEU:HB2	2.34	0.61
1:A:76:SER:HB2	1:E:267:PHE:CE2	2.36	0.61
1:A:97:GLN:OE1	1:E:451:PHE:CZ	2.53	0.61
1:B:265:GLN:HE21	1:C:85:GLN:C	2.03	0.61
2:G:16:PRO:HD3	1:C:498:ARG:O	2.00	0.61
1:D:230:VAL:O	1:E:493:THR:HG21	1.99	0.61
1:D:569:ARG:CA	1:E:47:ARG:CB	2.70	0.61
1:E:50:GLY:HA2	1:E:54:SER:HB3	1.81	0.61
1:E:257:ASN:ND2	1:E:432:CYS:O	2.33	0.61
1:A:99:ASN:HB3	1:E:459:ASN:CG	2.21	0.61
2:F:14:VAL:O	2:F:14:VAL:HG12	1.99	0.61
2:F:15:TYR:HD2	2:F:16:PRO:HD2	1.65	0.61
1:B:232:THR:OG1	1:C:495:VAL:CG2	2.48	0.61
1:B:451:PHE:HZ	1:C:97:GLN:OE1	1.82	0.61
1:B:482:TYR:HB2	1:C:490:THR:CG2	2.29	0.61
2:G:15:TYR:HD2	2:G:16:PRO:HD2	1.64	0.61
1:C:72:VAL:HG22	1:C:74:ASN:H	1.66	0.61
1:D:227:MET:HB3	2:H:17:TYR:CZ	2.34	0.61
1:D:463:VAL:C	1:E:70:TYR:OH	2.38	0.61
1:A:72:VAL:HG22	1:A:74:ASN:H	1.66	0.61
1:A:99:ASN:HB3	1:E:459:ASN:OD1	2.01	0.61
1:B:217:LEU:HD22	1:C:186:ASN:ND2	2.15	0.61
1:D:230:VAL:HG11	1:E:492:LEU:CD1	2.31	0.61
1:E:57:TYR:HE2	1:E:60:LEU:HB2	1.65	0.61
1:A:60:LEU:CD2	1:E:452:ARG:NE	2.62	0.61
1:D:83:ASN:CG	1:D:91:PHE:HB2	2.21	0.61
1:E:72:VAL:HG22	1:E:74:ASN:H	1.66	0.61
1:E:410:TYR:CG	1:E:425:LEU:HD12	2.30	0.61
1:A:265:GLN:HE21	1:B:85:GLN:C	2.03	0.61
1:B:410:TYR:CE2	1:B:425:LEU:CD1	2.83	0.61
1:C:426:CYS:SG	1:D:553:TYR:HD2	2.24	0.61
1:A:66:THR:O	1:E:530:PRO:CD	2.49	0.61
1:A:183:LEU:HD21	1:E:236:PHE:CE2	2.35	0.61
1:B:530:PRO:CD	1:C:66:THR:O	2.48	0.61
2:G:14:VAL:O	2:G:14:VAL:HG12	1.99	0.61
1:D:264:ARG:HG2	1:D:424:LEU:HD11	1.83	0.61
1:D:436:GLN:N	1:E:556:LYS:NZ	2.46	0.61
1:D:233:ASN:ND2	1:E:490:THR:O	2.34	0.61
1:B:267:PHE:CE2	1:C:87:ASP:HA	2.35	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:474:SER:O	1:C:473:LYS:NZ	2.32	0.61
1:C:83:ASN:CG	1:C:91:PHE:HB2	2.21	0.61
1:B:228:PRO:HB3	1:C:493:THR:CG2	2.31	0.60
1:C:450:THR:CG2	1:D:57:TYR:CD1	2.75	0.60
1:D:128:HIS:HB3	1:D:556:LYS:HB3	1.82	0.60
1:A:459:ASN:CG	1:B:99:ASN:HB3	2.21	0.60
1:C:128:HIS:HB3	1:C:556:LYS:HB3	1.81	0.60
1:C:264:ARG:O	1:D:87:ASP:CB	2.49	0.60
1:C:410:TYR:CE2	1:C:425:LEU:CD1	2.84	0.60
1:C:464:GLY:HA3	1:D:68:ARG:HH12	1.66	0.60
2:F:13:PRO:CA	1:B:197:ARG:NH1	2.62	0.60
1:B:236:PHE:CE2	1:C:183:LEU:HD21	2.36	0.60
1:D:264:ARG:CG	1:D:424:LEU:HD21	2.32	0.60
1:D:376:LYS:HG2	1:D:377:PRO:HD2	1.84	0.60
1:A:63:LEU:HD21	1:E:530:PRO:HG2	1.83	0.60
1:A:495:VAL:HG21	1:E:232:THR:CB	2.31	0.60
1:A:558:LEU:HD21	1:E:436:GLN:HB2	1.83	0.60
1:B:436:GLN:HB2	1:C:558:LEU:HD21	1.82	0.60
1:C:80:ALA:O	1:C:81:SER:CB	2.50	0.60
1:D:411:ASN:HD21	1:E:172:GLU:H	1.49	0.60
1:A:569:ARG:HA	1:B:47:ARG:CD	2.31	0.60
1:B:257:ASN:ND2	1:B:432:CYS:O	2.35	0.60
1:A:85:GLN:C	1:E:265:GLN:HE21	2.04	0.60
1:A:474:SER:O	1:B:473:LYS:NZ	2.34	0.60
1:A:555:TYR:OH	1:E:257:ASN:CG	2.39	0.60
1:B:80:ALA:O	1:B:81:SER:CB	2.50	0.60
1:B:436:GLN:NE2	1:B:465:ALA:HB3	2.15	0.60
1:B:459:ASN:O	1:C:99:ASN:ND2	2.34	0.60
1:A:264:ARG:CG	1:A:424:LEU:HD21	2.32	0.60
1:B:482:TYR:HD1	1:C:490:THR:HG22	1.66	0.60
2:G:14:VAL:CG1	1:C:203:GLU:OE2	2.45	0.60
1:D:47:ARG:HG2	1:D:48:PRO:HD2	1.78	0.60
1:A:486:ILE:HG21	1:E:482:TYR:CZ	2.36	0.60
1:A:518:GLU:OE2	1:E:472:SER:O	2.20	0.60
1:A:530:PRO:HG2	1:B:63:LEU:HD21	1.84	0.60
1:D:72:VAL:HG22	1:D:74:ASN:H	1.66	0.60
1:B:436:GLN:OE1	1:C:558:LEU:CD1	2.43	0.60
1:C:464:GLY:HA2	1:D:68:ARG:NH1	2.15	0.60
1:A:490:THR:HG22	1:E:482:TYR:CD1	2.37	0.60
1:B:264:ARG:CG	1:B:424:LEU:HD21	2.32	0.60
1:A:99:ASN:ND2	1:E:459:ASN:O	2.35	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:451:PHE:O	1:B:60:LEU:CD2	2.50	0.59
1:B:72:VAL:HG22	1:B:74:ASN:H	1.66	0.59
1:D:451:PHE:O	1:E:60:LEU:CD2	2.50	0.59
1:D:464:GLY:HA2	1:E:68:ARG:NH1	2.17	0.59
1:D:482:TYR:CD1	1:E:490:THR:HG22	2.36	0.59
1:A:496:PHE:HE1	1:E:234:GLU:CD	2.04	0.59
1:B:154:THR:O	1:B:155:LYS:CB	2.45	0.59
1:B:222:VAL:HG21	1:C:198:GLN:HE21	1.66	0.59
1:B:472:SER:O	1:C:518:GLU:OE2	2.20	0.59
1:C:569:ARG:HA	1:D:47:ARG:CD	2.33	0.59
1:A:490:THR:HG22	1:E:482:TYR:HA	1.84	0.59
1:C:57:TYR:O	1:C:57:TYR:CG	2.54	0.59
1:D:530:PRO:HG2	1:E:63:LEU:HD21	1.84	0.59
1:A:172:GLU:H	1:E:411:ASN:HD21	1.50	0.59
1:A:569:ARG:CA	1:B:47:ARG:CB	2.68	0.59
1:B:232:THR:CB	1:C:495:VAL:HG21	2.32	0.59
1:B:451:PHE:O	1:C:60:LEU:CD2	2.49	0.59
1:B:530:PRO:HG2	1:C:63:LEU:HD21	1.84	0.59
1:C:264:ARG:CG	1:C:424:LEU:HD21	2.32	0.59
1:D:262:ARG:HD2	1:E:555:TYR:HE1	1.63	0.59
1:D:569:ARG:HA	1:E:47:ARG:CD	2.33	0.59
1:E:80:ALA:O	1:E:81:SER:CB	2.50	0.59
1:E:264:ARG:HG2	1:E:424:LEU:HD11	1.83	0.59
1:A:68:ARG:HD2	1:A:70:TYR:OH	2.01	0.59
1:A:262:ARG:HD2	1:B:555:TYR:HE1	1.66	0.59
1:A:436:GLN:NE2	1:A:465:ALA:HB3	2.16	0.59
1:C:264:ARG:HG2	1:C:424:LEU:HD11	1.83	0.59
1:A:193:LEU:O	1:E:221:PRO:HG2	2.03	0.59
1:A:451:PHE:CZ	1:B:97:GLN:OE1	2.56	0.59
1:B:57:TYR:CG	1:B:57:TYR:O	2.54	0.59
1:B:233:ASN:HB3	1:C:491:SER:CB	2.33	0.59
1:B:234:GLU:CD	1:C:496:PHE:HE1	2.06	0.59
1:B:433:GLY:CA	1:C:555:TYR:CE2	2.61	0.59
1:C:411:ASN:HD21	1:D:172:GLU:H	1.47	0.59
1:D:264:ARG:O	1:E:87:ASP:CB	2.51	0.59
1:B:155:LYS:O	1:B:156:ASP:CB	2.37	0.59
1:B:264:ARG:HG2	1:B:424:LEU:HD11	1.83	0.59
1:B:426:CYS:HG	1:C:553:TYR:HD2	1.47	0.59
1:C:221:PRO:HG2	1:D:193:LEU:O	2.02	0.59
1:C:451:PHE:HZ	1:D:97:GLN:OE1	1.86	0.59
1:D:451:PHE:HZ	1:E:97:GLN:OE1	1.86	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:264:ARG:CG	1:E:424:LEU:HD21	2.32	0.59
1:A:480:ALA:O	1:A:482:TYR:N	2.30	0.59
1:A:482:TYR:CE1	1:B:486:ILE:HG21	2.38	0.59
1:A:555:TYR:HE2	1:E:433:GLY:HA3	1.65	0.59
1:B:411:ASN:HD21	1:C:172:GLU:H	1.50	0.59
1:B:569:ARG:CB	1:C:47:ARG:HB2	2.31	0.59
1:C:79:VAL:O	1:C:79:VAL:HG12	2.03	0.59
1:D:474:SER:O	1:E:473:LYS:NZ	2.36	0.59
1:A:55:ILE:CD1	1:E:449:VAL:HG13	2.32	0.59
1:A:264:ARG:O	1:B:87:ASP:CB	2.50	0.59
1:A:411:ASN:HD21	1:B:172:GLU:H	1.49	0.59
1:A:490:THR:HG21	1:E:482:TYR:CB	2.28	0.59
1:A:555:TYR:HE2	1:E:432:CYS:O	1.82	0.59
1:B:376:LYS:HG2	1:B:377:PRO:HD2	1.84	0.59
1:B:566:LEU:HB3	1:C:65:ASP:OD2	2.03	0.59
1:D:80:ALA:O	1:D:81:SER:CB	2.50	0.59
1:D:185:ASN:HD21	1:D:210:PHE:HB2	1.68	0.59
1:A:376:LYS:HG2	1:A:377:PRO:HD2	1.84	0.58
1:A:530:PRO:CD	1:B:66:THR:O	2.51	0.58
1:B:47:ARG:NH1	1:B:53:ASN:ND2	2.51	0.58
1:C:474:SER:OG	1:D:475:PHE:HZ	1.86	0.58
1:C:530:PRO:CD	1:D:66:THR:O	2.51	0.58
1:D:265:GLN:HE21	1:E:85:GLN:CA	2.16	0.58
1:D:426:CYS:SG	1:E:553:TYR:HD2	2.26	0.58
1:D:451:PHE:CZ	1:E:97:GLN:OE1	2.56	0.58
1:A:50:GLY:HA2	1:A:54:SER:CB	2.34	0.58
1:B:425:LEU:HD22	1:C:172:GLU:CA	2.33	0.58
1:B:451:PHE:O	1:C:60:LEU:HD22	2.03	0.58
1:B:463:VAL:O	1:C:68:ARG:NH1	2.37	0.58
1:B:474:SER:OG	1:C:475:PHE:HZ	1.86	0.58
1:E:79:VAL:O	1:E:79:VAL:HG12	2.03	0.58
1:E:83:ASN:CG	1:E:91:PHE:HB2	2.21	0.58
1:A:57:TYR:CG	1:A:57:TYR:O	2.56	0.58
1:A:154:THR:O	1:A:155:LYS:CB	2.45	0.58
1:A:264:ARG:HG2	1:A:424:LEU:HD11	1.83	0.58
1:C:50:GLY:HA2	1:C:54:SER:CB	2.34	0.58
1:D:47:ARG:NH2	1:D:53:ASN:HD22	1.98	0.58
1:E:50:GLY:HA2	1:E:54:SER:CB	2.34	0.58
1:E:185:ASN:HD21	1:E:210:PHE:HB2	1.68	0.58
1:A:482:TYR:HD1	1:B:490:THR:CG2	2.17	0.58
1:C:217:LEU:HD22	1:D:186:ASN:ND2	2.18	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:264:ARG:HG2	1:E:424:LEU:HD21	1.86	0.58
1:A:65:ASP:OD2	1:E:566:LEU:HB3	2.03	0.58
1:A:97:GLN:HB3	1:E:451:PHE:CE2	2.38	0.58
1:A:436:GLN:CB	1:B:556:LYS:NZ	2.56	0.58
1:A:491:SER:CB	1:E:233:ASN:HB3	2.32	0.58
1:A:553:TYR:HD2	1:E:426:CYS:HG	1.49	0.58
1:A:83:ASN:CB	1:E:267:PHE:CD1	2.72	0.58
1:B:50:GLY:HA2	1:B:54:SER:CB	2.34	0.58
1:B:185:ASN:HD21	1:B:210:PHE:HB2	1.68	0.58
1:B:221:PRO:HG2	1:C:193:LEU:O	2.02	0.58
1:B:376:LYS:CD	1:B:378:VAL:CG1	2.66	0.58
1:B:451:PHE:CE2	1:C:97:GLN:HB3	2.39	0.58
1:A:75:LYS:O	1:A:79:VAL:HG23	2.04	0.58
1:A:221:PRO:HG2	1:B:193:LEU:O	2.04	0.58
1:A:558:LEU:HD21	1:E:436:GLN:NE2	2.18	0.58
2:F:15:TYR:OH	1:B:493:THR:CB	2.48	0.58
1:D:50:GLY:HA2	1:D:54:SER:CB	2.34	0.58
1:D:79:VAL:O	1:D:79:VAL:HG12	2.03	0.58
1:D:264:ARG:HG2	1:D:424:LEU:HD21	1.86	0.58
1:D:451:PHE:O	1:E:60:LEU:HD22	2.04	0.58
1:A:79:VAL:O	1:A:79:VAL:HG12	2.03	0.58
1:A:481:VAL:HG23	1:B:490:THR:CB	2.34	0.58
1:A:569:ARG:CB	1:B:47:ARG:HB2	2.34	0.58
1:C:426:CYS:HG	1:D:553:TYR:HD2	1.50	0.58
1:D:464:GLY:HA3	1:E:68:ARG:HH12	1.67	0.58
1:E:57:TYR:O	1:E:57:TYR:CG	2.56	0.58
1:A:57:TYR:HD2	1:A:59:GLU:O	1.86	0.58
1:A:185:ASN:HD21	1:A:210:PHE:HB2	1.68	0.58
1:B:47:ARG:NH2	1:B:53:ASN:HB2	2.18	0.58
1:B:264:ARG:HG2	1:B:424:LEU:HD21	1.86	0.58
1:C:257:ASN:HB3	1:D:555:TYR:OH	2.03	0.58
1:C:451:PHE:CZ	1:D:97:GLN:OE1	2.56	0.58
1:D:232:THR:OG1	1:E:495:VAL:CG2	2.52	0.58
1:A:68:ARG:CD	1:A:70:TYR:CZ	2.78	0.58
1:A:451:PHE:HZ	1:B:97:GLN:OE1	1.86	0.58
1:B:75:LYS:O	1:B:79:VAL:HG23	2.04	0.58
1:B:264:ARG:O	1:C:87:ASP:CB	2.52	0.58
1:C:185:ASN:HD21	1:C:210:PHE:HB2	1.68	0.58
1:C:236:PHE:CE2	1:D:183:LEU:HD21	2.39	0.58
1:C:449:VAL:HG13	1:D:55:ILE:CD1	2.31	0.58
1:E:75:LYS:O	1:E:79:VAL:HG23	2.04	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:83:ASN:CG	1:A:91:PHE:HB2	2.21	0.57
1:A:426:CYS:SG	1:B:553:TYR:HD2	2.26	0.57
1:B:47:ARG:NH2	1:B:53:ASN:ND2	2.52	0.57
1:B:83:ASN:CG	1:B:91:PHE:HB2	2.21	0.57
1:B:481:VAL:HG23	1:C:490:THR:HB	1.85	0.57
1:C:47:ARG:CG	1:C:48:PRO:CD	2.76	0.57
1:A:264:ARG:HG2	1:A:424:LEU:HD21	1.86	0.57
1:B:463:VAL:O	1:C:70:TYR:OH	2.21	0.57
2:H:16:PRO:HD3	1:E:498:ARG:O	2.04	0.57
1:E:57:TYR:CD2	1:E:60:LEU:CB	2.87	0.57
1:A:66:THR:HG21	1:E:528:THR:HB	1.86	0.57
1:A:475:PHE:HZ	1:E:474:SER:OG	1.86	0.57
1:B:434:SER:O	1:C:556:LYS:CG	2.52	0.57
1:C:436:GLN:HB2	1:D:558:LEU:HD21	1.85	0.57
1:C:530:PRO:HG2	1:D:63:LEU:HD21	1.87	0.57
2:H:15:TYR:OH	1:E:493:THR:CB	2.49	0.57
1:A:47:ARG:HB2	1:E:569:ARG:CB	2.33	0.57
1:A:528:THR:HB	1:B:66:THR:HG21	1.87	0.57
2:F:16:PRO:HD3	1:B:498:ARG:O	2.03	0.57
1:B:79:VAL:O	1:B:79:VAL:HG12	2.03	0.57
1:B:230:VAL:HG11	1:C:492:LEU:CD1	2.34	0.57
1:B:425:LEU:HD13	1:C:172:GLU:CG	2.34	0.57
2:G:15:TYR:C	2:G:15:TYR:CD2	2.78	0.57
1:C:232:THR:OG1	1:D:495:VAL:CG2	2.52	0.57
1:D:47:ARG:CG	1:D:48:PRO:CD	2.75	0.57
2:H:8:GLU:CG	2:H:9:ASP:H	2.02	0.57
1:A:145:ALA:HB3	1:A:168:PHE:HE1	1.70	0.57
1:A:450:THR:HA	1:B:57:TYR:CD1	2.39	0.57
1:C:75:LYS:O	1:C:79:VAL:HG23	2.04	0.57
1:C:230:VAL:HG13	1:C:503:GLN:NE2	2.17	0.57
1:C:264:ARG:HG2	1:C:424:LEU:HD21	1.86	0.57
1:A:434:SER:OG	1:A:467:LEU:HD11	2.05	0.57
1:D:434:SER:OG	1:D:467:LEU:HD11	2.05	0.57
1:D:530:PRO:CD	1:E:66:THR:O	2.53	0.57
1:A:267:PHE:HE2	1:B:84:TYR:HD1	1.47	0.57
1:A:555:TYR:OH	1:E:432:CYS:O	2.22	0.57
1:B:434:SER:OG	1:B:467:LEU:HD11	2.05	0.57
1:C:106:ALA:HA	1:C:109:GLN:NE2	2.20	0.57
1:C:434:SER:OG	1:C:467:LEU:HD11	2.05	0.57
1:E:257:ASN:OD1	1:E:432:CYS:HA	2.05	0.57
1:A:217:LEU:HD22	1:B:186:ASN:ND2	2.20	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:265:GLN:HE21	1:B:85:GLN:CA	2.17	0.57
1:B:262:ARG:HD2	1:C:555:TYR:HE1	1.67	0.57
1:C:476:TYR:HE2	1:D:477:ASN:CB	2.13	0.57
1:D:528:THR:HB	1:E:66:THR:HG21	1.87	0.57
1:A:232:THR:OG1	1:B:495:VAL:CG2	2.53	0.57
1:A:410:TYR:CE2	1:A:425:LEU:HD12	2.37	0.57
1:A:490:THR:CG2	1:E:482:TYR:HB2	2.29	0.57
1:B:436:GLN:CB	1:C:556:LYS:NZ	2.53	0.57
1:B:449:VAL:HG22	1:C:55:ILE:HD13	1.87	0.57
1:C:145:ALA:HB3	1:C:168:PHE:HE1	1.70	0.57
1:C:482:TYR:CD1	1:D:490:THR:CG2	2.86	0.57
1:D:57:TYR:O	1:D:57:TYR:CG	2.58	0.57
1:D:257:ASN:OD1	1:D:258:LEU:N	2.38	0.57
1:A:106:ALA:HA	1:A:109:GLN:NE2	2.20	0.56
1:A:558:LEU:HD21	1:E:436:GLN:CD	2.26	0.56
1:A:566:LEU:HB3	1:B:65:ASP:OD2	2.05	0.56
1:B:450:THR:HA	1:C:57:TYR:CD1	2.39	0.56
1:C:569:ARG:CB	1:D:47:ARG:HB2	2.35	0.56
1:D:145:ALA:HB3	1:D:168:PHE:HE1	1.70	0.56
1:E:47:ARG:CG	1:E:48:PRO:CD	2.75	0.56
1:A:98:ASN:OD1	1:E:452:ARG:CD	2.53	0.56
1:A:449:VAL:HG13	1:B:55:ILE:CD1	2.33	0.56
1:A:450:THR:CB	1:B:57:TYR:CD1	2.88	0.56
1:A:555:TYR:HH	1:E:257:ASN:HB3	1.70	0.56
1:C:233:ASN:HB3	1:D:491:SER:CB	2.35	0.56
1:C:463:VAL:C	1:D:70:TYR:OH	2.43	0.56
1:D:75:LYS:O	1:D:79:VAL:HG23	2.04	0.56
1:D:217:LEU:HD22	1:E:186:ASN:ND2	2.20	0.56
1:E:145:ALA:HB3	1:E:168:PHE:HE1	1.70	0.56
1:A:47:ARG:CA	1:E:569:ARG:O	2.54	0.56
1:A:558:LEU:CD1	1:E:436:GLN:NE2	2.60	0.56
1:C:47:ARG:NH2	1:C:53:ASN:HD22	1.94	0.56
1:C:232:THR:CB	1:D:495:VAL:HG21	2.36	0.56
1:C:257:ASN:HB2	1:D:555:TYR:OH	2.04	0.56
1:C:265:GLN:HE21	1:D:85:GLN:CA	2.17	0.56
1:C:459:ASN:O	1:D:99:ASN:ND2	2.38	0.56
1:C:472:SER:O	1:D:518:GLU:OE2	2.24	0.56
1:C:482:TYR:CD1	1:D:490:THR:HG22	2.40	0.56
1:A:516:VAL:HG21	1:E:513:ILE:CG1	2.34	0.56
1:B:425:LEU:CD2	1:C:172:GLU:O	2.53	0.56
1:C:267:PHE:HD1	1:D:86:ASN:O	1.87	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:459:ASN:O	1:E:99:ASN:ND2	2.38	0.56
1:A:451:PHE:O	1:B:60:LEU:HD22	2.04	0.56
1:B:513:ILE:CG1	1:C:516:VAL:HG21	2.35	0.56
1:E:106:ALA:HA	1:E:109:GLN:NE2	2.20	0.56
1:B:452:ARG:CD	1:C:98:ASN:OD1	2.54	0.56
1:D:106:ALA:HA	1:D:109:GLN:NE2	2.21	0.56
1:E:410:TYR:CZ	1:E:425:LEU:HD12	2.39	0.56
1:A:55:ILE:HD13	1:E:449:VAL:HG22	1.88	0.56
1:B:145:ALA:HB3	1:B:168:PHE:HE1	1.70	0.56
1:A:60:LEU:CG	1:E:452:ARG:CG	2.67	0.56
1:D:236:PHE:CE2	1:E:183:LEU:HD21	2.41	0.56
2:H:15:TYR:C	2:H:15:TYR:CD2	2.78	0.56
1:A:83:ASN:O	1:E:267:PHE:CD1	2.59	0.56
1:B:463:VAL:O	1:C:68:ARG:CZ	2.53	0.56
1:D:102:SER:HB3	1:D:103:PRO:HD2	1.88	0.56
1:E:57:TYR:CE2	1:E:60:LEU:CB	2.89	0.56
1:A:60:LEU:HD21	1:E:452:ARG:HE	1.71	0.56
1:A:474:SER:OG	1:B:475:PHE:HZ	1.88	0.56
1:B:436:GLN:CD	1:C:558:LEU:HD21	2.27	0.56
1:B:528:THR:HB	1:C:66:THR:HG21	1.87	0.56
1:D:257:ASN:OD1	1:D:432:CYS:HA	2.06	0.56
2:H:14:VAL:CG1	1:E:203:GLU:OE2	2.47	0.56
1:A:57:TYR:CE2	1:A:60:LEU:CD1	2.89	0.55
1:A:80:ALA:O	1:A:81:SER:CB	2.50	0.55
1:B:151:ARG:HG3	1:B:161:LEU:CD2	2.37	0.55
1:D:451:PHE:CE2	1:E:97:GLN:HB3	2.41	0.55
1:D:566:LEU:HB3	1:E:65:ASP:OD2	2.06	0.55
1:D:221:PRO:HG2	1:E:193:LEU:O	2.05	0.55
1:E:239:ASP:HB2	1:E:406:TRP:HB3	1.88	0.55
1:A:57:TYR:CE2	1:A:60:LEU:CB	2.89	0.55
1:A:459:ASN:O	1:B:99:ASN:ND2	2.38	0.55
1:B:569:ARG:CA	1:C:47:ARG:CB	2.68	0.55
1:D:476:TYR:CE1	1:E:514:THR:HB	2.41	0.55
1:A:477:ASN:CB	1:E:476:TYR:HE2	2.14	0.55
1:C:239:ASP:HB2	1:C:406:TRP:HB3	1.88	0.55
1:C:463:VAL:O	1:D:68:ARG:CZ	2.55	0.55
1:C:566:LEU:HB3	1:D:65:ASP:OD2	2.07	0.55
1:D:267:PHE:HD1	1:E:86:ASN:O	1.89	0.55
1:D:449:VAL:HG13	1:E:55:ILE:CD1	2.33	0.55
1:E:102:SER:HB3	1:E:103:PRO:HD2	1.88	0.55
1:A:87:ASP:CB	1:E:264:ARG:O	2.53	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:233:ASN:HB3	1:B:491:SER:CB	2.37	0.55
1:A:451:PHE:CE2	1:B:97:GLN:HB3	2.41	0.55
1:C:72:VAL:HG22	1:C:73:ASP:N	2.22	0.55
1:C:264:ARG:O	1:D:87:ASP:OD2	2.23	0.55
2:F:15:TYR:O	2:F:17:TYR:N	2.40	0.55
1:D:436:GLN:CD	1:E:558:LEU:HD21	2.27	0.55
1:A:197:ARG:NH2	1:E:220:ASP:OD2	2.39	0.55
1:B:465:ALA:O	1:C:560:ILE:HD11	2.06	0.55
1:B:482:TYR:HA	1:C:490:THR:HG22	1.89	0.55
1:D:105:GLU:HG3	1:D:106:ALA:H	1.72	0.55
1:D:569:ARG:CB	1:E:47:ARG:HB2	2.36	0.55
1:E:72:VAL:HG22	1:E:73:ASP:N	2.22	0.55
1:E:151:ARG:HG3	1:E:161:LEU:CD2	2.37	0.55
1:A:47:ARG:CG	1:A:48:PRO:CD	2.75	0.55
1:A:476:TYR:CE1	1:B:514:THR:HB	2.41	0.55
1:B:72:VAL:HG22	1:B:73:ASP:N	2.22	0.55
1:B:434:SER:OG	1:C:556:LYS:HG2	2.07	0.55
2:G:18:ASP:HB2	2:G:19:THR:HA	1.88	0.55
1:C:451:PHE:O	1:D:60:LEU:CD2	2.55	0.55
1:C:528:THR:HB	1:D:66:THR:HG21	1.89	0.55
1:A:449:VAL:HG22	1:B:55:ILE:HD13	1.89	0.55
2:F:15:TYR:C	2:F:15:TYR:CD2	2.78	0.55
1:B:264:ARG:O	1:C:87:ASP:OD2	2.25	0.55
1:C:222:VAL:HG21	1:D:198:GLN:HE21	1.70	0.55
2:H:18:ASP:HB2	2:H:19:THR:HA	1.89	0.55
1:A:102:SER:HB3	1:A:103:PRO:HD2	1.88	0.55
1:A:151:ARG:HG3	1:A:161:LEU:CD2	2.36	0.55
1:A:236:PHE:CE2	1:B:183:LEU:HD21	2.41	0.55
1:A:425:LEU:CD2	1:B:172:GLU:O	2.55	0.55
1:A:434:SER:OG	1:B:556:LYS:HG2	2.07	0.55
1:A:436:GLN:CD	1:B:558:LEU:HD21	2.28	0.55
1:B:84:TYR:C	1:B:85:GLN:HG3	2.27	0.55
1:B:146:ARG:O	1:B:246:CYS:HB2	2.07	0.55
1:C:234:GLU:CD	1:D:496:PHE:HE1	2.10	0.55
1:D:154:THR:O	1:D:155:LYS:CB	2.45	0.55
1:D:239:ASP:HB2	1:D:406:TRP:HB3	1.88	0.55
1:D:472:SER:O	1:E:518:GLU:OE2	2.25	0.55
1:A:84:TYR:C	1:A:85:GLN:HG3	2.28	0.54
1:A:558:LEU:CD1	1:E:436:GLN:OE1	2.55	0.54
1:A:560:ILE:HD11	1:E:465:ALA:O	2.07	0.54
1:B:57:TYR:HD2	1:B:59:GLU:O	1.90	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:220:ASP:OD2	1:C:197:ARG:NH2	2.40	0.54
1:B:226:VAL:HG12	1:B:228:PRO:HD2	1.89	0.54
1:D:434:SER:OG	1:E:556:LYS:HG2	2.07	0.54
1:A:72:VAL:HG22	1:A:73:ASP:N	2.22	0.54
1:A:492:LEU:CD1	1:E:230:VAL:HG11	2.36	0.54
1:B:106:ALA:HA	1:B:109:GLN:NE2	2.21	0.54
2:G:15:TYR:CD2	2:G:16:PRO:HD2	2.42	0.54
1:C:63:LEU:CD2	1:C:67:THR:HG22	2.16	0.54
2:H:15:TYR:O	2:H:17:TYR:N	2.40	0.54
1:E:105:GLU:HG3	1:E:106:ALA:H	1.72	0.54
1:E:146:ARG:O	1:E:246:CYS:HB2	2.07	0.54
1:A:264:ARG:O	1:B:87:ASP:OD2	2.25	0.54
1:A:472:SER:O	1:B:518:GLU:OE2	2.25	0.54
2:F:15:TYR:CD2	2:F:16:PRO:HD2	2.42	0.54
2:F:18:ASP:HB2	2:F:19:THR:HA	1.88	0.54
1:B:239:ASP:HB2	1:B:406:TRP:HB3	1.88	0.54
1:C:57:TYR:CD2	1:C:59:GLU:O	2.61	0.54
1:C:102:SER:HB3	1:C:103:PRO:HD2	1.88	0.54
1:C:146:ARG:O	1:C:246:CYS:HB2	2.07	0.54
1:C:444:MET:HB2	1:C:539:GLN:HE22	1.72	0.54
1:C:482:TYR:CZ	1:D:486:ILE:HG21	2.42	0.54
1:A:146:ARG:O	1:A:246:CYS:HB2	2.07	0.54
1:A:267:PHE:HZ	1:B:80:ALA:N	2.00	0.54
1:A:436:GLN:HB2	1:B:558:LEU:HD21	1.88	0.54
1:A:480:ALA:C	1:A:482:TYR:H	2.11	0.54
1:A:569:ARG:O	1:B:47:ARG:CA	2.55	0.54
1:B:102:SER:HB3	1:B:103:PRO:HD2	1.88	0.54
1:B:482:TYR:CD1	1:C:490:THR:HG22	2.43	0.54
1:C:151:ARG:HG3	1:C:161:LEU:CD2	2.37	0.54
1:C:436:GLN:OE1	1:C:465:ALA:CB	2.55	0.54
1:D:234:GLU:CD	1:E:496:PHE:HE1	2.10	0.54
1:D:482:TYR:HA	1:E:490:THR:HG22	1.90	0.54
2:G:15:TYR:O	2:G:17:TYR:N	2.40	0.54
1:C:84:TYR:C	1:C:85:GLN:HG3	2.28	0.54
1:C:451:PHE:CE2	1:D:97:GLN:HB3	2.43	0.54
1:D:72:VAL:HG22	1:D:73:ASP:N	2.22	0.54
1:D:180:THR:O	1:D:184:MET:HG3	2.08	0.54
1:D:232:THR:CB	1:E:495:VAL:HG21	2.37	0.54
1:A:68:ARG:HH21	1:E:529:LEU:HD21	1.73	0.54
1:A:87:ASP:OD2	1:E:264:ARG:O	2.26	0.54
1:A:226:VAL:HG12	1:A:228:PRO:HD2	1.89	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:234:GLU:CD	1:B:496:PHE:HE1	2.11	0.54
1:A:239:ASP:HB2	1:A:406:TRP:HB3	1.88	0.54
1:B:105:GLU:HG3	1:B:106:ALA:H	1.72	0.54
1:B:264:ARG:HG3	1:B:424:LEU:HG	1.90	0.54
1:B:450:THR:CB	1:C:57:TYR:CD1	2.90	0.54
1:C:105:GLU:HG3	1:C:106:ALA:H	1.72	0.54
1:C:226:VAL:HG12	1:C:228:PRO:HD2	1.89	0.54
1:D:436:GLN:HB2	1:E:558:LEU:HD21	1.89	0.54
1:D:474:SER:OG	1:E:475:PHE:HZ	1.89	0.54
1:A:180:THR:O	1:A:184:MET:HG3	2.08	0.54
1:A:425:LEU:HD13	1:B:172:GLU:CG	2.38	0.54
1:B:102:SER:HB3	1:B:103:PRO:CD	2.38	0.54
1:B:222:VAL:HG22	1:C:198:GLN:NE2	2.23	0.54
1:C:102:SER:HB3	1:C:103:PRO:CD	2.38	0.54
1:C:434:SER:O	1:D:556:LYS:CG	2.56	0.54
1:C:569:ARG:CA	1:D:47:ARG:CB	2.72	0.54
1:D:151:ARG:HG3	1:D:161:LEU:CD2	2.37	0.54
1:A:410:TYR:CD1	1:A:425:LEU:HD12	2.43	0.54
1:C:236:PHE:CD2	1:D:174:ASN:HB3	2.43	0.54
1:C:264:ARG:HG3	1:C:424:LEU:HG	1.90	0.54
1:C:436:GLN:OE1	1:C:465:ALA:HB1	2.08	0.54
1:D:146:ARG:O	1:D:246:CYS:HB2	2.07	0.54
1:D:264:ARG:HG3	1:D:424:LEU:HG	1.90	0.54
1:D:292:TYR:CE1	1:D:376:LYS:CD	2.57	0.54
1:D:482:TYR:HB2	1:E:490:THR:CG2	2.31	0.54
1:D:569:ARG:O	1:E:47:ARG:CA	2.55	0.54
1:A:85:GLN:CA	1:E:265:GLN:HE21	2.18	0.54
1:A:228:PRO:CB	1:B:493:THR:CG2	2.86	0.54
1:A:264:ARG:HG3	1:A:424:LEU:HG	1.90	0.54
1:A:550:THR:O	1:A:552:PRO:HD3	2.08	0.54
1:B:57:TYR:CD2	1:B:59:GLU:O	2.61	0.54
1:B:265:GLN:HE21	1:C:85:GLN:CA	2.18	0.54
1:B:444:MET:HB2	1:B:539:GLN:HE22	1.72	0.54
1:B:550:THR:O	1:B:552:PRO:HD3	2.08	0.54
1:C:57:TYR:HD2	1:C:59:GLU:O	1.90	0.54
1:C:262:ARG:HD2	1:D:555:TYR:CD1	2.43	0.54
1:C:482:TYR:HA	1:D:490:THR:HG22	1.89	0.54
1:C:550:THR:O	1:C:552:PRO:HD3	2.08	0.54
1:E:264:ARG:HG3	1:E:424:LEU:HG	1.90	0.54
1:A:232:THR:CB	1:B:495:VAL:HG21	2.37	0.54
1:A:516:VAL:HG21	1:E:513:ILE:CD1	2.37	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:556:LYS:NZ	1:E:436:GLN:CB	2.49	0.54
1:B:569:ARG:O	1:C:47:ARG:CA	2.56	0.54
1:E:226:VAL:HG12	1:E:228:PRO:HD2	1.89	0.54
1:B:513:ILE:CD1	1:C:516:VAL:HG21	2.37	0.53
1:C:449:VAL:HG22	1:D:55:ILE:HD13	1.90	0.53
1:C:450:THR:CG2	1:C:450:THR:O	2.56	0.53
1:C:452:ARG:CD	1:D:98:ASN:OD1	2.56	0.53
1:D:444:MET:HB2	1:D:539:GLN:HE22	1.73	0.53
1:E:68:ARG:HD2	1:E:70:TYR:OH	2.08	0.53
1:A:105:GLU:HG3	1:A:106:ALA:H	1.72	0.53
1:A:444:MET:HB2	1:A:539:GLN:HE22	1.72	0.53
1:C:230:VAL:CG1	1:D:492:LEU:CB	2.78	0.53
1:D:220:ASP:OD2	1:E:197:ARG:NH2	2.42	0.53
1:D:482:TYR:CB	1:E:490:THR:HG21	2.33	0.53
1:A:68:ARG:HH11	1:E:464:GLY:HA2	1.71	0.53
1:A:102:SER:HB3	1:A:103:PRO:CD	2.38	0.53
1:A:463:VAL:O	1:B:68:ARG:CZ	2.57	0.53
1:A:555:TYR:CZ	1:E:432:CYS:O	2.61	0.53
1:C:411:ASN:ND2	1:D:172:GLU:N	2.54	0.53
1:D:222:VAL:HG21	1:E:198:GLN:HE21	1.69	0.53
1:D:450:THR:CG2	1:D:450:THR:O	2.56	0.53
1:E:102:SER:HB3	1:E:103:PRO:CD	2.38	0.53
1:E:444:MET:HB2	1:E:539:GLN:HE22	1.73	0.53
1:A:68:ARG:CZ	1:E:463:VAL:O	2.55	0.53
1:B:180:THR:O	1:B:184:MET:HG3	2.08	0.53
1:B:436:GLN:OE1	1:C:558:LEU:HD21	2.09	0.53
1:C:450:THR:HA	1:D:57:TYR:CG	2.44	0.53
1:D:482:TYR:CZ	1:E:486:ILE:HG21	2.44	0.53
1:A:57:TYR:CE1	1:E:450:THR:HB	2.43	0.53
1:A:481:VAL:HG23	1:B:490:THR:HG21	1.91	0.53
1:A:555:TYR:OH	1:E:257:ASN:HB2	2.08	0.53
1:B:450:THR:CG2	1:B:450:THR:O	2.57	0.53
1:B:482:TYR:CD1	1:C:490:THR:CG2	2.92	0.53
1:C:434:SER:OG	1:D:556:LYS:HG2	2.09	0.53
1:C:436:GLN:CB	1:D:556:LYS:NZ	2.56	0.53
1:D:449:VAL:HG22	1:E:55:ILE:HD13	1.90	0.53
1:E:180:THR:O	1:E:184:MET:HG3	2.08	0.53
1:A:220:ASP:OD2	1:B:197:ARG:NH2	2.42	0.53
1:A:222:VAL:HG21	1:B:198:GLN:HE21	1.70	0.53
1:B:529:LEU:CD2	1:C:68:ARG:HH11	2.14	0.53
1:D:233:ASN:HB3	1:E:491:SER:CB	2.38	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:15:TYR:CD2	2:H:16:PRO:HD2	2.42	0.53
1:A:57:TYR:OH	1:A:98:ASN:ND2	2.41	0.53
2:F:15:TYR:OH	1:B:494:HIS:N	2.41	0.53
1:B:47:ARG:CG	1:B:48:PRO:CD	2.75	0.53
1:B:68:ARG:HD2	1:B:70:TYR:OH	2.08	0.53
1:C:513:ILE:CG1	1:D:516:VAL:HG21	2.38	0.53
1:D:264:ARG:O	1:E:87:ASP:OD2	2.26	0.53
1:D:436:GLN:OE1	1:E:558:LEU:CD1	2.57	0.53
1:A:450:THR:CG2	1:A:450:THR:O	2.57	0.53
2:G:15:TYR:OH	1:C:494:HIS:N	2.42	0.53
1:C:180:THR:O	1:C:184:MET:HG3	2.08	0.53
1:D:102:SER:HB3	1:D:103:PRO:CD	2.38	0.53
1:D:257:ASN:HB3	1:E:555:TYR:OH	2.09	0.53
1:D:550:THR:O	1:D:552:PRO:HD3	2.08	0.53
1:B:257:ASN:HB3	1:C:555:TYR:OH	2.08	0.52
1:B:436:GLN:H	1:C:556:LYS:HZ1	1.48	0.52
1:B:480:ALA:C	1:B:482:TYR:H	2.12	0.52
1:C:465:ALA:O	1:D:560:ILE:HD11	2.09	0.52
1:D:226:VAL:HG12	1:D:228:PRO:HD2	1.89	0.52
1:A:70:TYR:OH	1:E:463:VAL:O	2.27	0.52
1:A:482:TYR:HD1	1:B:490:THR:HG22	1.73	0.52
1:C:220:ASP:OD2	1:D:197:ARG:NH2	2.42	0.52
1:A:274:THR:HG22	1:A:275:TYR:N	2.23	0.52
2:F:10:THR:O	2:F:10:THR:CG2	2.57	0.52
1:B:68:ARG:CD	1:B:70:TYR:CZ	2.83	0.52
1:C:436:GLN:CD	1:D:558:LEU:HD21	2.30	0.52
1:A:174:ASN:HB3	1:E:236:PHE:CD2	2.45	0.52
1:A:236:PHE:CD2	1:B:174:ASN:HB3	2.45	0.52
2:F:12:ASN:O	2:F:14:VAL:CG2	2.48	0.52
1:B:292:TYR:CD1	1:B:376:LYS:HD3	2.35	0.52
1:D:434:SER:O	1:E:556:LYS:CG	2.57	0.52
1:E:105:GLU:HG3	1:E:106:ALA:N	2.25	0.52
1:A:172:GLU:HG3	1:E:425:LEU:HD13	1.84	0.52
1:C:105:GLU:HG3	1:C:106:ALA:N	2.25	0.52
1:C:441:LEU:HB2	1:C:445:MET:HG2	1.91	0.52
1:D:105:GLU:HG3	1:D:106:ALA:N	2.25	0.52
1:E:441:LEU:HB2	1:E:445:MET:HG2	1.92	0.52
1:E:550:THR:O	1:E:552:PRO:HD3	2.08	0.52
1:A:76:SER:HB2	1:E:267:PHE:HE2	1.75	0.52
1:A:267:PHE:CZ	1:B:80:ALA:N	2.78	0.52
1:B:257:ASN:HB2	1:C:555:TYR:OH	2.09	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:84:TYR:C	1:D:85:GLN:HG3	2.27	0.52
1:D:463:VAL:O	1:E:68:ARG:CZ	2.58	0.52
1:A:66:THR:HG23	1:E:528:THR:OG1	2.10	0.52
1:A:68:ARG:HD2	1:E:463:VAL:O	2.10	0.52
1:B:411:ASN:HD21	1:C:171:PRO:HA	1.74	0.52
1:C:466:GLU:HG2	1:C:467:LEU:N	2.25	0.52
1:D:257:ASN:HB2	1:E:555:TYR:OH	2.07	0.52
1:E:84:TYR:C	1:E:85:GLN:HG3	2.27	0.52
1:A:425:LEU:CD2	1:B:172:GLU:C	2.76	0.52
1:A:434:SER:O	1:B:556:LYS:CG	2.57	0.52
1:A:441:LEU:HB2	1:A:445:MET:HG2	1.92	0.52
1:A:465:ALA:O	1:B:560:ILE:HD11	2.10	0.52
1:B:105:GLU:HG3	1:B:106:ALA:N	2.25	0.52
1:B:106:ALA:HA	1:B:109:GLN:HG3	1.92	0.52
1:B:254:ARG:O	1:B:257:ASN:ND2	2.43	0.52
1:A:450:THR:CG2	1:B:57:TYR:HD1	2.15	0.52
1:A:466:GLU:HG2	1:A:467:LEU:N	2.25	0.52
1:C:274:THR:HG22	1:C:275:TYR:N	2.22	0.52
1:C:513:ILE:CD1	1:D:516:VAL:HG21	2.39	0.52
1:D:69:VAL:HG23	1:D:561:VAL:HB	1.92	0.52
1:D:452:ARG:CD	1:E:98:ASN:OD1	2.56	0.52
1:D:528:THR:OG1	1:E:66:THR:HG23	2.10	0.52
1:A:292:TYR:CD1	1:A:376:LYS:HD3	2.35	0.52
1:C:482:TYR:CB	1:D:490:THR:HG21	2.34	0.52
1:D:68:ARG:CD	1:D:70:TYR:CZ	2.86	0.52
1:D:274:THR:HG22	1:D:275:TYR:N	2.23	0.52
1:D:441:LEU:HB2	1:D:445:MET:HG2	1.92	0.52
1:E:556:LYS:CE	1:E:558:LEU:CD2	2.81	0.52
1:A:105:GLU:HG3	1:A:106:ALA:N	2.25	0.51
1:A:410:TYR:CG	1:A:425:LEU:CD1	2.83	0.51
1:A:425:LEU:HD22	1:B:172:GLU:CA	2.37	0.51
1:A:528:THR:OG1	1:B:66:THR:HG23	2.10	0.51
1:B:441:LEU:HB2	1:B:445:MET:HG2	1.92	0.51
1:B:466:GLU:HG2	1:B:467:LEU:N	2.25	0.51
1:C:433:GLY:CA	1:D:555:TYR:CE2	2.68	0.51
2:H:15:TYR:OH	1:E:494:HIS:N	2.43	0.51
1:E:466:GLU:HG2	1:E:467:LEU:N	2.25	0.51
1:B:274:THR:HG22	1:B:275:TYR:N	2.22	0.51
1:B:420:ARG:NH2	1:C:136:GLU:HB2	2.25	0.51
1:C:79:VAL:O	1:C:80:ALA:C	2.48	0.51
1:E:69:VAL:HG23	1:E:561:VAL:HB	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:136:GLU:HB2	1:E:420:ARG:NH2	2.26	0.51
1:A:198:GLN:NE2	1:E:222:VAL:HG22	2.22	0.51
1:A:228:PRO:HB3	1:B:493:THR:HB	1.92	0.51
1:A:490:THR:CG2	1:E:482:TYR:CB	2.87	0.51
2:G:14:VAL:HG22	1:C:203:GLU:CD	2.31	0.51
2:G:15:TYR:HD2	2:G:16:PRO:CD	2.23	0.51
1:C:420:ARG:NH2	1:D:136:GLU:HB2	2.25	0.51
1:E:79:VAL:O	1:E:80:ALA:C	2.48	0.51
1:E:95:VAL:O	1:E:95:VAL:HG12	2.11	0.51
1:A:79:VAL:O	1:A:80:ALA:C	2.48	0.51
1:B:236:PHE:CD2	1:C:174:ASN:HB3	2.44	0.51
1:B:275:TYR:CE1	1:B:404:ARG:HD3	2.46	0.51
1:B:463:VAL:O	1:C:68:ARG:HD2	2.10	0.51
1:C:95:VAL:O	1:C:95:VAL:HG12	2.11	0.51
1:C:106:ALA:HA	1:C:109:GLN:HG3	1.92	0.51
1:D:465:ALA:O	1:E:560:ILE:HD11	2.10	0.51
2:H:12:ASN:O	2:H:14:VAL:CG2	2.48	0.51
2:H:15:TYR:HD2	2:H:16:PRO:CD	2.24	0.51
1:A:69:VAL:HG23	1:A:561:VAL:HB	1.91	0.51
1:A:423:THR:O	1:A:424:LEU:HG	2.11	0.51
1:B:95:VAL:O	1:B:95:VAL:HG12	2.11	0.51
1:B:212:THR:HG22	1:B:238:PRO:HG3	1.93	0.51
1:D:63:LEU:CD2	1:D:67:THR:HG22	2.16	0.51
1:D:236:PHE:CD2	1:E:174:ASN:HB3	2.45	0.51
1:E:423:THR:O	1:E:424:LEU:HG	2.10	0.51
1:A:183:LEU:HD21	1:E:236:PHE:HE2	1.76	0.51
1:A:275:TYR:CE1	1:A:404:ARG:HD3	2.46	0.51
1:A:513:ILE:CD1	1:B:516:VAL:HG21	2.41	0.51
1:C:462:VAL:O	1:D:70:TYR:OH	2.21	0.51
1:D:212:THR:HG22	1:D:238:PRO:HG3	1.93	0.51
1:D:411:ASN:ND2	1:E:172:GLU:N	2.57	0.51
1:B:236:PHE:HE2	1:C:183:LEU:HD21	1.76	0.51
1:C:569:ARG:O	1:D:47:ARG:CA	2.58	0.51
1:D:79:VAL:O	1:D:80:ALA:C	2.48	0.51
1:D:95:VAL:O	1:D:95:VAL:HG12	2.11	0.51
1:E:230:VAL:HG13	1:E:503:GLN:NE2	2.17	0.51
1:A:433:GLY:CA	1:B:555:TYR:CE2	2.62	0.51
1:B:69:VAL:HG23	1:B:561:VAL:HB	1.92	0.51
2:G:15:TYR:OH	1:C:493:THR:CB	2.53	0.51
1:C:423:THR:O	1:C:424:LEU:HG	2.11	0.51
1:C:482:TYR:HB2	1:D:490:THR:CG2	2.33	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:275:TYR:CE1	1:D:404:ARG:HD3	2.46	0.51
1:A:55:ILE:CD1	1:E:449:VAL:CG1	2.89	0.51
1:B:528:THR:OG1	1:C:66:THR:HG23	2.11	0.51
1:C:222:VAL:HG22	1:D:198:GLN:NE2	2.26	0.51
1:C:449:VAL:CG1	1:D:55:ILE:CD1	2.87	0.51
1:B:79:VAL:O	1:B:80:ALA:C	2.48	0.51
1:C:69:VAL:HG23	1:C:561:VAL:HB	1.92	0.51
1:D:466:GLU:HG2	1:D:467:LEU:N	2.25	0.51
1:E:212:THR:HG22	1:E:238:PRO:HG3	1.93	0.51
1:A:96:ILE:O	1:E:450:THR:OG1	2.24	0.50
2:F:14:VAL:CG1	1:B:203:GLU:OE2	2.46	0.50
1:B:426:CYS:SG	1:C:553:TYR:CD2	2.99	0.50
1:B:449:VAL:CG1	1:C:55:ILE:CD1	2.86	0.50
1:C:275:TYR:CE1	1:C:404:ARG:HD3	2.46	0.50
1:D:423:THR:O	1:D:424:LEU:HG	2.11	0.50
1:E:275:TYR:CE1	1:E:404:ARG:HD3	2.46	0.50
1:A:257:ASN:HB2	1:B:555:TYR:OH	2.11	0.50
1:B:267:PHE:HE1	1:C:76:SER:HB3	1.58	0.50
1:D:228:PRO:CB	1:E:493:THR:CG2	2.89	0.50
1:D:292:TYR:CD1	1:D:376:LYS:HD3	2.35	0.50
1:D:436:GLN:OE1	1:D:465:ALA:HB1	2.11	0.50
1:A:106:ALA:HA	1:A:109:GLN:HG3	1.92	0.50
1:A:513:ILE:CG1	1:B:516:VAL:HG21	2.40	0.50
1:B:423:THR:O	1:B:424:LEU:HG	2.11	0.50
1:B:425:LEU:CD1	1:C:172:GLU:CB	2.75	0.50
1:B:427:THR:HG21	1:C:519:ASN:ND2	2.27	0.50
1:C:57:TYR:CD2	1:C:60:LEU:CB	2.72	0.50
2:H:13:PRO:CB	2:H:17:TYR:HE1	2.19	0.50
1:E:106:ALA:HA	1:E:109:GLN:HG3	1.92	0.50
1:E:436:GLN:OE1	1:E:465:ALA:CB	2.60	0.50
1:A:95:VAL:O	1:A:95:VAL:HG12	2.11	0.50
1:A:212:THR:HG22	1:A:238:PRO:HG3	1.93	0.50
1:D:262:ARG:HD2	1:E:555:TYR:CD1	2.46	0.50
1:D:436:GLN:NE2	1:E:558:LEU:HD21	2.25	0.50
1:E:436:GLN:OE1	1:E:465:ALA:HB1	2.10	0.50
1:A:60:LEU:HD13	1:E:451:PHE:O	2.12	0.50
1:C:451:PHE:O	1:D:60:LEU:HD23	2.11	0.50
1:D:106:ALA:HA	1:D:109:GLN:HG3	1.92	0.50
1:D:257:ASN:HD21	1:D:432:CYS:HB3	1.76	0.50
1:A:57:TYR:CE1	1:E:450:THR:O	2.65	0.50
1:D:449:VAL:CG1	1:E:55:ILE:CD1	2.90	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:480:ALA:C	1:A:481:VAL:HG22	2.29	0.50
2:F:15:TYR:HD2	2:F:16:PRO:CD	2.24	0.50
1:D:68:ARG:HD2	1:D:70:TYR:OH	2.11	0.50
1:A:230:VAL:HG13	1:A:503:GLN:NE2	2.17	0.50
1:A:558:LEU:HD11	1:E:436:GLN:OE1	2.10	0.50
1:B:47:ARG:NH2	1:B:53:ASN:CB	2.75	0.50
1:D:513:ILE:CG1	1:E:516:VAL:HG21	2.40	0.50
1:D:529:LEU:HD21	1:E:68:ARG:NH2	2.27	0.50
1:A:425:LEU:HD21	1:B:172:GLU:O	2.12	0.50
1:A:464:GLY:CA	1:B:68:ARG:HH11	2.15	0.50
1:A:492:LEU:CB	1:E:230:VAL:CG1	2.80	0.50
2:G:12:ASN:O	2:G:14:VAL:CG2	2.48	0.50
1:D:155:LYS:O	1:D:156:ASP:CB	2.37	0.50
2:H:15:TYR:HD2	2:H:15:TYR:C	2.15	0.50
1:B:228:PRO:HB3	1:C:493:THR:HB	1.93	0.49
1:C:425:LEU:CD2	1:D:172:GLU:HB3	2.39	0.49
1:D:444:MET:HB2	1:D:539:GLN:NE2	2.27	0.49
1:E:274:THR:HG22	1:E:275:TYR:N	2.23	0.49
1:A:444:MET:HB2	1:A:539:GLN:NE2	2.27	0.49
2:F:15:TYR:HD2	2:F:15:TYR:C	2.15	0.49
1:C:212:THR:HG22	1:C:238:PRO:HG3	1.93	0.49
1:C:444:MET:HB2	1:C:539:GLN:NE2	2.27	0.49
1:A:106:ALA:HA	1:A:109:GLN:HE21	1.77	0.49
1:A:519:ASN:ND2	1:E:427:THR:HG21	2.27	0.49
2:F:14:VAL:HG22	1:B:203:GLU:CD	2.32	0.49
1:B:106:ALA:HA	1:B:109:GLN:HE21	1.77	0.49
1:B:449:VAL:CG2	1:C:55:ILE:HD13	2.42	0.49
1:B:452:ARG:HD2	1:C:57:TYR:OH	2.12	0.49
2:G:15:TYR:HD2	2:G:15:TYR:C	2.15	0.49
1:C:427:THR:HG21	1:D:519:ASN:ND2	2.27	0.49
1:A:155:LYS:O	1:A:156:ASP:CB	2.37	0.49
1:B:230:VAL:HG13	1:B:503:GLN:NE2	2.17	0.49
1:B:482:TYR:CB	1:C:490:THR:CG2	2.90	0.49
1:C:76:SER:HB2	1:C:83:ASN:HD22	1.76	0.49
1:D:230:VAL:HG13	1:D:503:GLN:NE2	2.18	0.49
1:D:433:GLY:CA	1:E:555:TYR:CE2	2.64	0.49
1:D:513:ILE:CD1	1:E:516:VAL:HG21	2.42	0.49
1:E:106:ALA:HA	1:E:109:GLN:HE21	1.77	0.49
1:A:482:TYR:HA	1:B:490:THR:HG22	1.94	0.49
1:D:126:ILE:HD12	1:D:558:LEU:HD11	1.95	0.49
1:B:262:ARG:HD2	1:C:555:TYR:CD1	2.47	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:528:THR:OG1	1:D:66:THR:HG23	2.12	0.49
1:E:110:THR:HG22	1:E:536:GLY:HA2	1.95	0.49
1:A:171:PRO:HA	1:E:411:ASN:HD21	1.74	0.49
1:B:450:THR:CG2	1:C:57:TYR:HD1	2.14	0.49
1:D:257:ASN:ND2	1:E:555:TYR:HH	2.09	0.49
1:D:450:THR:HA	1:E:57:TYR:CG	2.47	0.49
1:A:262:ARG:HD2	1:B:555:TYR:CD1	2.47	0.49
1:A:449:VAL:CG1	1:B:55:ILE:CD1	2.89	0.49
1:A:495:VAL:HG21	1:E:232:THR:HB	1.94	0.49
1:B:76:SER:HB2	1:B:83:ASN:HD22	1.77	0.49
1:B:556:LYS:CE	1:B:558:LEU:CD2	2.81	0.49
1:D:228:PRO:HB3	1:E:493:THR:HB	1.95	0.49
1:D:482:TYR:CB	1:E:490:THR:CG2	2.91	0.49
1:B:135:ASN:CB	1:B:172:GLU:OE1	2.61	0.49
1:B:436:GLN:HB3	1:C:558:LEU:CD2	2.43	0.49
1:D:376:LYS:HG2	1:D:377:PRO:CD	2.43	0.49
1:D:463:VAL:O	1:E:68:ARG:HD2	2.13	0.49
1:E:434:SER:OG	1:E:467:LEU:CD1	2.60	0.49
1:A:222:VAL:HG22	1:B:198:GLN:NE2	2.26	0.48
1:A:483:SER:CB	1:E:478:ASP:OD2	2.61	0.48
1:B:228:PRO:CB	1:C:493:THR:CG2	2.91	0.48
1:B:257:ASN:OD1	1:B:258:LEU:N	2.45	0.48
1:B:434:SER:O	1:C:556:LYS:HG2	2.13	0.48
1:D:106:ALA:HA	1:D:109:GLN:HE21	1.77	0.48
1:D:110:THR:HG22	1:D:536:GLY:HA2	1.95	0.48
1:D:135:ASN:CB	1:D:172:GLU:OE1	2.61	0.48
1:D:450:THR:HG21	1:E:96:ILE:HG22	1.94	0.48
1:E:135:ASN:CB	1:E:172:GLU:OE1	2.61	0.48
1:E:444:MET:HB2	1:E:539:GLN:NE2	2.27	0.48
1:A:55:ILE:HD13	1:E:449:VAL:CG2	2.43	0.48
1:A:420:ARG:NH2	1:B:136:GLU:HB2	2.28	0.48
2:F:8:GLU:CG	2:F:9:ASP:H	2.02	0.48
2:F:12:ASN:C	2:F:14:VAL:N	2.67	0.48
1:B:230:VAL:CG1	1:C:492:LEU:CB	2.80	0.48
1:B:232:THR:HB	1:C:495:VAL:HG21	1.95	0.48
2:G:18:ASP:CB	2:G:19:THR:HA	2.43	0.48
1:D:420:ARG:NH2	1:E:136:GLU:HB2	2.28	0.48
1:D:427:THR:HG21	1:E:519:ASN:ND2	2.28	0.48
1:B:464:GLY:HA2	1:C:70:TYR:HE2	1.77	0.48
1:C:283:ILE:HD12	1:C:403:TYR:HB3	1.96	0.48
1:C:529:LEU:HD21	1:D:68:ARG:NH2	2.25	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:376:LYS:HG2	1:A:377:PRO:CD	2.44	0.48
1:A:556:LYS:CE	1:A:558:LEU:CD2	2.74	0.48
1:B:57:TYR:CD2	1:B:59:GLU:C	2.87	0.48
1:B:444:MET:HB2	1:B:539:GLN:NE2	2.27	0.48
1:E:83:ASN:OD1	1:E:91:PHE:CA	2.61	0.48
1:A:197:ARG:NH2	1:E:220:ASP:CG	2.67	0.48
1:B:110:THR:HG22	1:B:536:GLY:HA2	1.95	0.48
1:B:220:ASP:CG	1:C:197:ARG:NH2	2.67	0.48
1:C:126:ILE:HD12	1:C:558:LEU:HD11	1.95	0.48
1:C:463:VAL:O	1:D:68:ARG:HD2	2.14	0.48
1:A:257:ASN:ND2	1:A:432:CYS:O	2.47	0.48
1:A:555:TYR:CE2	1:E:433:GLY:HA3	2.43	0.48
1:B:63:LEU:CD2	1:B:67:THR:HG22	2.16	0.48
1:B:126:ILE:HD12	1:B:558:LEU:HD11	1.95	0.48
1:B:411:ASN:ND2	1:C:172:GLU:N	2.57	0.48
1:C:79:VAL:HG11	1:C:82:LEU:HD12	1.96	0.48
2:H:12:ASN:C	2:H:14:VAL:N	2.67	0.48
1:A:482:TYR:HB2	1:B:490:THR:CG2	2.39	0.48
1:B:283:ILE:HD12	1:B:403:TYR:HB3	1.95	0.48
1:B:376:LYS:HG2	1:B:377:PRO:CD	2.44	0.48
1:B:482:TYR:CE1	1:C:486:ILE:HG21	2.46	0.48
1:B:482:TYR:CB	1:C:490:THR:HG21	2.35	0.48
2:H:13:PRO:CB	2:H:17:TYR:CE1	2.96	0.48
2:H:14:VAL:HG22	1:E:203:GLU:CD	2.34	0.48
1:A:490:THR:CB	1:E:481:VAL:HG12	2.29	0.48
1:B:79:VAL:HG11	1:B:82:LEU:HD12	1.96	0.48
1:B:83:ASN:OD1	1:B:91:PHE:CA	2.61	0.48
1:B:478:ASP:OD2	1:C:483:SER:CB	2.62	0.48
1:B:569:ARG:CB	1:C:47:ARG:CB	2.92	0.48
1:C:236:PHE:HE2	1:D:183:LEU:HD21	1.79	0.48
1:C:411:ASN:HD21	1:D:171:PRO:HA	1.77	0.48
1:D:222:VAL:HG22	1:E:198:GLN:NE2	2.26	0.48
1:D:436:GLN:OE1	1:E:558:LEU:HD11	2.13	0.48
1:A:496:PHE:HE1	1:E:234:GLU:OE2	1.97	0.48
1:C:529:LEU:HD11	1:D:68:ARG:NH2	2.28	0.48
1:D:79:VAL:HG11	1:D:82:LEU:HD12	1.96	0.48
1:D:283:ILE:HD12	1:D:403:TYR:HB3	1.95	0.48
1:A:135:ASN:CB	1:A:172:GLU:OE1	2.61	0.48
1:A:463:VAL:O	1:B:68:ARG:HD2	2.13	0.48
1:C:106:ALA:HA	1:C:109:GLN:HE21	1.77	0.48
1:B:135:ASN:CA	1:B:172:GLU:OE1	2.62	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:447:ASP:O	1:D:63:LEU:CD1	2.62	0.47
1:E:79:VAL:HG11	1:E:82:LEU:HD12	1.95	0.47
1:E:130:ASN:C	1:E:130:ASN:HD22	2.18	0.47
1:A:194:LYS:HG3	1:E:221:PRO:HB2	1.95	0.47
1:A:411:ASN:ND2	1:B:172:GLU:N	2.56	0.47
2:F:13:PRO:CB	2:F:17:TYR:CE1	2.96	0.47
1:B:60:LEU:CG	1:B:61:ALA:N	2.74	0.47
1:A:57:TYR:HD2	1:A:60:LEU:HB2	1.76	0.47
1:A:427:THR:HG21	1:B:519:ASN:ND2	2.28	0.47
1:C:110:THR:HG22	1:C:536:GLY:HA2	1.95	0.47
1:C:130:ASN:C	1:C:130:ASN:HD22	2.17	0.47
1:A:72:VAL:HG22	1:A:73:ASP:H	1.80	0.47
1:A:83:ASN:OD1	1:A:91:PHE:CA	2.61	0.47
1:A:110:THR:HG22	1:A:536:GLY:HA2	1.95	0.47
1:A:283:ILE:HD12	1:A:403:TYR:HB3	1.95	0.47
1:C:57:TYR:CD2	1:C:59:GLU:C	2.87	0.47
1:C:425:LEU:CD2	1:D:172:GLU:CB	2.91	0.47
1:D:268:GLN:HG2	1:E:84:TYR:CE2	2.49	0.47
1:B:432:CYS:O	1:C:555:TYR:OH	2.28	0.47
1:E:72:VAL:HG22	1:E:73:ASP:H	1.80	0.47
1:E:283:ILE:HD12	1:E:403:TYR:HB3	1.95	0.47
1:A:57:TYR:CE1	1:E:450:THR:CB	2.98	0.47
1:A:558:LEU:CD2	1:E:436:GLN:HB3	2.44	0.47
1:B:72:VAL:HG22	1:B:73:ASP:H	1.79	0.47
1:C:135:ASN:CB	1:C:172:GLU:OE1	2.61	0.47
1:D:72:VAL:HG22	1:D:73:ASP:H	1.80	0.47
1:D:436:GLN:OE1	1:D:465:ALA:CB	2.62	0.47
1:D:497:ASN:ND2	1:D:500:PRO:HB3	2.25	0.47
1:A:57:TYR:CD2	1:A:60:LEU:CB	2.96	0.47
1:A:449:VAL:CG2	1:B:55:ILE:HD13	2.44	0.47
1:A:458:SER:O	1:A:459:ASN:CG	2.53	0.47
1:A:553:TYR:CD2	1:E:426:CYS:SG	3.00	0.47
1:A:558:LEU:CD1	1:E:436:GLN:CD	2.83	0.47
1:B:221:PRO:HB2	1:C:194:LYS:HG3	1.96	0.47
2:G:13:PRO:CB	2:G:17:TYR:CE1	2.96	0.47
1:C:449:VAL:CG2	1:D:55:ILE:HD13	2.45	0.47
1:D:83:ASN:OD1	1:D:91:PHE:CA	2.61	0.47
1:D:449:VAL:CG2	1:E:55:ILE:HD13	2.45	0.47
1:E:60:LEU:CG	1:E:61:ALA:H	2.12	0.47
1:E:126:ILE:HD12	1:E:558:LEU:HD11	1.95	0.47
1:E:458:SER:O	1:E:459:ASN:CG	2.53	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:106:ALA:HB2	1:B:109:GLN:NE2	2.30	0.47
1:A:130:ASN:C	1:A:130:ASN:HD22	2.18	0.47
1:D:478:ASP:OD2	1:E:483:SER:CB	2.63	0.47
1:A:555:TYR:CD1	1:E:262:ARG:HD2	2.50	0.47
1:C:213:ARG:HD3	1:C:509:PRO:HG2	1.97	0.47
1:C:482:TYR:CB	1:D:490:THR:CG2	2.93	0.47
1:E:213:ARG:HD3	1:E:509:PRO:HG2	1.98	0.47
1:A:135:ASN:CA	1:A:172:GLU:OE1	2.62	0.46
1:A:236:PHE:HE2	1:B:183:LEU:HD21	1.80	0.46
1:A:491:SER:HA	1:E:233:ASN:CG	2.35	0.46
1:A:558:LEU:CD2	1:E:436:GLN:CB	2.93	0.46
1:B:213:ARG:HD3	1:B:509:PRO:HG2	1.98	0.46
1:B:480:ALA:C	1:B:481:VAL:HG22	2.30	0.46
1:B:528:THR:O	1:C:66:THR:CG2	2.63	0.46
1:C:426:CYS:SG	1:D:553:TYR:CD2	3.02	0.46
1:D:98:ASN:O	1:D:99:ASN:CB	2.63	0.46
1:D:230:VAL:CG1	1:E:492:LEU:CB	2.82	0.46
1:A:76:SER:HB3	1:E:267:PHE:CD2	2.49	0.46
1:A:491:SER:HB2	1:E:233:ASN:HB3	1.97	0.46
1:B:98:ASN:O	1:B:99:ASN:CB	2.63	0.46
1:B:130:ASN:HD22	1:B:130:ASN:C	2.18	0.46
1:D:106:ALA:HB2	1:D:109:GLN:NE2	2.30	0.46
1:A:70:TYR:HE2	1:E:464:GLY:HA2	1.80	0.46
1:B:528:THR:O	1:C:66:THR:HG22	2.16	0.46
1:C:232:THR:HB	1:D:495:VAL:HG21	1.97	0.46
1:C:434:SER:O	1:D:556:LYS:HG2	2.16	0.46
1:C:478:ASP:OD2	1:D:483:SER:CB	2.64	0.46
1:D:130:ASN:HD22	1:D:130:ASN:C	2.18	0.46
1:E:497:ASN:ND2	1:E:500:PRO:HB3	2.25	0.46
1:A:63:LEU:CD2	1:A:67:THR:HG22	2.16	0.46
1:A:106:ALA:HB2	1:A:109:GLN:NE2	2.31	0.46
1:A:172:GLU:HB3	1:E:425:LEU:HD22	1.98	0.46
1:A:183:LEU:HD21	1:E:236:PHE:CZ	2.50	0.46
1:A:213:ARG:HD3	1:A:509:PRO:HG2	1.97	0.46
1:A:482:TYR:CD1	1:B:490:THR:CG2	2.98	0.46
1:B:257:ASN:HD21	1:B:432:CYS:HB3	1.81	0.46
1:B:464:GLY:HA3	1:C:68:ARG:NH2	2.30	0.46
2:G:12:ASN:C	2:G:14:VAL:N	2.67	0.46
1:A:228:PRO:HB3	1:B:493:THR:CB	2.46	0.46
1:B:234:GLU:OE2	1:C:496:PHE:HE1	1.99	0.46
1:B:436:GLN:CD	1:C:558:LEU:CD1	2.82	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:447:ASP:O	1:C:63:LEU:CD1	2.64	0.46
1:C:83:ASN:OD1	1:C:91:PHE:CA	2.61	0.46
1:C:106:ALA:HB2	1:C:109:GLN:NE2	2.30	0.46
1:D:106:ALA:CB	1:D:109:GLN:NE2	2.79	0.46
1:A:268:GLN:HG2	1:B:84:TYR:CE2	2.50	0.46
1:A:436:GLN:H	1:B:556:LYS:HZ1	1.56	0.46
1:C:436:GLN:H	1:D:556:LYS:HZ1	1.53	0.46
1:D:462:VAL:O	1:E:70:TYR:OH	2.27	0.46
1:E:106:ALA:HB2	1:E:109:GLN:NE2	2.30	0.46
1:E:106:ALA:CB	1:E:109:GLN:NE2	2.79	0.46
1:E:258:LEU:HD13	1:E:430:VAL:HA	1.98	0.46
1:A:79:VAL:HG11	1:A:82:LEU:HD12	1.96	0.46
1:B:106:ALA:CB	1:B:109:GLN:NE2	2.79	0.46
1:A:47:ARG:CB	1:E:569:ARG:CB	2.93	0.46
1:A:106:ALA:CB	1:A:109:GLN:NE2	2.79	0.46
1:A:257:ASN:HB3	1:B:555:TYR:OH	2.12	0.46
1:A:482:TYR:CD1	1:B:490:THR:HG22	2.51	0.46
1:B:529:LEU:HD11	1:C:68:ARG:HH12	1.79	0.46
1:C:528:THR:O	1:D:66:THR:CG2	2.64	0.46
1:E:431:THR:O	1:E:432:CYS:CB	2.57	0.46
1:A:47:ARG:NH1	1:A:53:ASN:HB2	2.31	0.46
1:A:230:VAL:CG1	1:B:492:LEU:HD12	2.46	0.46
1:C:220:ASP:CG	1:D:197:ARG:NH2	2.70	0.46
1:C:436:GLN:NE2	1:D:558:LEU:CD2	2.74	0.46
1:D:213:ARG:HD3	1:D:509:PRO:HG2	1.98	0.46
1:A:569:ARG:CB	1:B:47:ARG:CB	2.94	0.46
1:C:106:ALA:CB	1:C:109:GLN:NE2	2.79	0.46
1:D:121:GLY:HA3	1:D:563:PRO:HA	1.98	0.46
1:E:121:GLY:HA3	1:E:563:PRO:HA	1.98	0.46
1:A:47:ARG:NH1	1:A:53:ASN:ND2	2.64	0.45
1:A:66:THR:HG22	1:E:528:THR:O	2.16	0.45
1:A:84:TYR:CE2	1:E:268:GLN:HG2	2.51	0.45
1:A:411:ASN:HD21	1:B:171:PRO:HA	1.79	0.45
1:A:436:GLN:NE2	1:B:558:LEU:CD1	2.79	0.45
1:B:434:SER:O	1:C:556:LYS:CE	2.64	0.45
1:C:450:THR:CG2	1:D:57:TYR:CZ	2.87	0.45
1:C:556:LYS:CE	1:C:558:LEU:CD2	2.80	0.45
1:D:257:ASN:ND2	1:E:555:TYR:OH	2.49	0.45
1:D:529:LEU:HD11	1:E:68:ARG:NH2	2.30	0.45
1:E:98:ASN:O	1:E:99:ASN:CB	2.63	0.45
1:B:233:ASN:CG	1:C:491:SER:HA	2.36	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:236:PHE:CZ	1:C:183:LEU:HD21	2.51	0.45
1:C:135:ASN:HA	1:C:172:GLU:CD	2.36	0.45
1:C:268:GLN:HG2	1:D:84:TYR:CE2	2.52	0.45
1:E:47:ARG:NH1	1:E:53:ASN:HB2	2.31	0.45
1:E:155:LYS:O	1:E:156:ASP:CB	2.37	0.45
1:A:135:ASN:HA	1:A:172:GLU:CD	2.36	0.45
1:A:172:GLU:N	1:E:411:ASN:ND2	2.58	0.45
1:A:450:THR:CB	1:B:57:TYR:HD1	2.29	0.45
1:A:528:THR:O	1:B:66:THR:CG2	2.65	0.45
1:B:121:GLY:HA3	1:B:563:PRO:HA	1.98	0.45
1:B:135:ASN:HA	1:B:172:GLU:CD	2.36	0.45
1:B:481:VAL:HG23	1:B:482:TYR:N	2.30	0.45
1:B:268:GLN:HG2	1:C:84:TYR:CE2	2.51	0.45
1:C:528:THR:O	1:D:66:THR:HG22	2.17	0.45
1:E:135:ASN:HA	1:E:172:GLU:CD	2.36	0.45
1:E:135:ASN:CA	1:E:172:GLU:OE1	2.63	0.45
1:E:488:GLN:HB3	1:E:494:HIS:NE2	2.32	0.45
1:A:66:THR:CG2	1:E:528:THR:O	2.65	0.45
1:A:128:HIS:HB3	1:A:556:LYS:HB3	1.98	0.45
1:B:569:ARG:HG2	1:C:47:ARG:HB3	1.99	0.45
1:C:436:GLN:HB3	1:D:558:LEU:CD2	2.46	0.45
1:A:79:VAL:O	1:A:81:SER:N	2.50	0.45
1:A:151:ARG:HG3	1:A:161:LEU:HD21	1.99	0.45
1:B:151:ARG:HG3	1:B:161:LEU:HD21	1.99	0.45
1:C:476:TYR:HD1	1:D:475:PHE:CD2	2.33	0.45
1:D:135:ASN:HA	1:D:172:GLU:CD	2.36	0.45
1:A:70:TYR:OH	1:E:462:VAL:O	2.31	0.45
1:A:230:VAL:CG1	1:B:492:LEU:CD1	2.94	0.45
1:A:434:SER:O	1:B:556:LYS:CE	2.65	0.45
1:A:436:GLN:OE1	1:B:558:LEU:HD21	2.16	0.45
1:A:478:ASP:OD2	1:B:483:SER:CB	2.64	0.45
1:C:72:VAL:HG22	1:C:73:ASP:H	1.80	0.45
1:D:79:VAL:O	1:D:81:SER:N	2.50	0.45
1:D:411:ASN:HD21	1:E:171:PRO:HA	1.79	0.45
1:D:528:THR:O	1:E:66:THR:HG22	2.17	0.45
1:E:438:TYR:CD1	1:E:462:VAL:HG11	2.52	0.45
1:A:47:ARG:NH2	1:A:53:ASN:HD22	2.05	0.45
1:A:481:VAL:HG23	1:B:490:THR:CG2	2.47	0.45
1:A:528:THR:O	1:B:66:THR:HG22	2.16	0.45
1:C:230:VAL:CG1	1:D:492:LEU:HD12	2.47	0.45
1:D:42:PRO:HA	1:D:43:PRO:HD3	1.87	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:514:THR:HB	1:E:476:TYR:CZ	2.52	0.45
1:B:90:ASN:ND2	1:B:457:ILE:HG21	2.32	0.45
1:B:407:TYR:CE1	1:C:172:GLU:O	2.70	0.45
1:B:436:GLN:NE2	1:C:558:LEU:CD1	2.80	0.45
1:C:151:ARG:HG3	1:C:161:LEU:HD21	1.99	0.45
1:A:172:GLU:CB	1:E:425:LEU:HD22	2.46	0.45
1:A:481:VAL:HG23	1:B:490:THR:HB	1.98	0.45
1:B:79:VAL:O	1:B:81:SER:N	2.50	0.45
1:B:467:LEU:HB2	1:C:126:ILE:HG21	1.99	0.45
1:B:479:GLN:O	1:B:483:SER:N	2.49	0.45
1:C:497:ASN:ND2	1:C:500:PRO:HB3	2.25	0.45
1:D:151:ARG:HG3	1:D:161:LEU:HD21	1.99	0.45
1:E:47:ARG:NH1	1:E:53:ASN:ND2	2.64	0.45
1:A:126:ILE:HD12	1:A:558:LEU:HD11	1.95	0.44
1:A:220:ASP:CG	1:B:197:ARG:NH2	2.70	0.44
1:B:450:THR:CA	1:C:57:TYR:CD1	3.00	0.44
1:B:488:GLN:HB3	1:B:494:HIS:NE2	2.32	0.44
1:C:98:ASN:O	1:C:99:ASN:CB	2.63	0.44
1:C:468:LEU:HG	1:C:470:VAL:HG23	1.99	0.44
1:D:447:ASP:O	1:E:63:LEU:CD1	2.66	0.44
1:E:257:ASN:OD1	1:E:258:LEU:N	2.50	0.44
1:A:432:CYS:O	1:B:555:TYR:OH	2.28	0.44
1:A:450:THR:CA	1:B:57:TYR:CD1	3.00	0.44
1:B:436:GLN:NE2	1:C:558:LEU:HD11	2.32	0.44
1:B:481:VAL:HG23	1:C:490:THR:HG21	1.98	0.44
1:C:221:PRO:HB2	1:D:194:LYS:HG3	1.99	0.44
1:D:236:PHE:HE2	1:E:183:LEU:HD21	1.80	0.44
1:D:463:VAL:O	1:E:70:TYR:OH	2.35	0.44
1:E:79:VAL:O	1:E:81:SER:N	2.50	0.44
1:A:57:TYR:CZ	1:A:60:LEU:HG	2.42	0.44
1:A:232:THR:HB	1:B:495:VAL:HG21	1.99	0.44
1:B:237:HIS:HA	1:B:238:PRO:HD3	1.87	0.44
1:B:436:GLN:CB	1:C:558:LEU:CD2	2.92	0.44
1:C:434:SER:O	1:D:556:LYS:CE	2.65	0.44
1:A:101:TYR:CE2	1:A:105:GLU:HG2	2.53	0.44
1:A:121:GLY:HA3	1:A:563:PRO:HA	1.98	0.44
1:A:172:GLU:CG	1:E:425:LEU:CD1	2.82	0.44
1:A:438:TYR:CD1	1:A:462:VAL:HG11	2.52	0.44
1:A:447:ASP:O	1:B:63:LEU:CD1	2.65	0.44
1:A:450:THR:HG21	1:B:96:ILE:HG22	1.93	0.44
1:A:497:ASN:ND2	1:A:500:PRO:HB3	2.25	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:544:THR:HG22	1:A:545:ASP:N	2.33	0.44
1:B:267:PHE:HE2	1:C:88:HIS:H	1.64	0.44
1:C:101:TYR:CE2	1:C:105:GLU:HG2	2.53	0.44
1:C:121:GLY:HA3	1:C:563:PRO:HA	1.98	0.44
1:D:488:GLN:HB3	1:D:494:HIS:NE2	2.32	0.44
1:D:528:THR:O	1:E:66:THR:CG2	2.66	0.44
1:E:47:ARG:HG2	1:E:48:PRO:CD	2.45	0.44
1:E:131:MET:HA	1:E:132:PRO:HD3	1.90	0.44
1:A:172:GLU:HG3	1:E:425:LEU:CD1	2.47	0.44
1:A:267:PHE:CD1	1:B:76:SER:O	2.70	0.44
1:A:481:VAL:HG23	1:A:482:TYR:N	2.32	0.44
1:B:267:PHE:HE2	1:C:86:ASN:O	1.92	0.44
1:C:79:VAL:O	1:C:81:SER:N	2.50	0.44
1:C:377:PRO:O	1:C:379:ILE:N	2.51	0.44
1:C:438:TYR:CD1	1:C:462:VAL:HG11	2.52	0.44
1:D:438:TYR:CD1	1:D:462:VAL:HG11	2.52	0.44
1:A:98:ASN:O	1:A:99:ASN:CB	2.63	0.44
1:A:463:VAL:O	1:B:70:TYR:OH	2.35	0.44
1:C:230:VAL:CG1	1:D:492:LEU:CD1	2.95	0.44
1:D:434:SER:O	1:E:556:LYS:HG2	2.18	0.44
2:H:8:GLU:CG	2:H:9:ASP:N	2.71	0.44
2:H:18:ASP:CB	2:H:19:THR:HA	2.43	0.44
1:E:508:PRO:HA	1:E:509:PRO:HD3	1.92	0.44
1:A:63:LEU:CD1	1:E:447:ASP:O	2.66	0.44
1:A:425:LEU:CD1	1:B:172:GLU:CB	2.87	0.44
1:A:468:LEU:HG	1:A:470:VAL:HG23	1.99	0.44
1:B:101:TYR:CE2	1:B:105:GLU:HG2	2.52	0.44
1:B:481:VAL:HG23	1:C:490:THR:CG2	2.48	0.44
1:C:135:ASN:CA	1:C:172:GLU:OE1	2.62	0.44
1:C:544:THR:HG22	1:C:545:ASP:N	2.33	0.44
1:D:220:ASP:CG	1:E:197:ARG:NH2	2.70	0.44
1:E:394:ILE:HG22	1:E:402:GLN:HG2	2.00	0.44
1:E:480:ALA:C	1:E:482:TYR:H	2.21	0.44
1:B:438:TYR:CD1	1:B:462:VAL:HG11	2.52	0.44
1:D:57:TYR:CE2	1:D:60:LEU:HB2	2.52	0.44
1:D:480:ALA:C	1:D:482:TYR:H	2.21	0.44
1:E:377:PRO:O	1:E:379:ILE:N	2.51	0.44
1:A:47:ARG:HB3	1:E:569:ARG:HG2	2.00	0.44
1:A:126:ILE:HG21	1:E:467:LEU:HB2	1.99	0.44
1:B:394:ILE:HG22	1:B:402:GLN:HG2	2.00	0.44
1:B:468:LEU:HG	1:B:470:VAL:HG23	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:133:ASN:HB2	1:C:175:TYR:CD2	2.53	0.44
1:D:101:TYR:CE2	1:D:105:GLU:HG2	2.53	0.44
1:D:232:THR:HB	1:E:495:VAL:HG21	2.00	0.44
1:E:55:ILE:HG21	1:E:67:THR:HG21	2.00	0.44
1:E:101:TYR:CE2	1:E:105:GLU:HG2	2.53	0.44
1:A:172:GLU:O	1:E:407:TYR:CE1	2.70	0.43
1:A:488:GLN:HB3	1:A:494:HIS:NE2	2.32	0.43
1:A:569:ARG:HB3	1:B:47:ARG:H	1.83	0.43
1:B:233:ASN:HB3	1:C:491:SER:HB2	1.99	0.43
1:B:377:PRO:O	1:B:379:ILE:N	2.51	0.43
1:C:55:ILE:HG21	1:C:67:THR:HG21	2.00	0.43
1:C:67:THR:O	1:C:563:PRO:HD2	2.18	0.43
1:C:233:ASN:CG	1:D:491:SER:HA	2.39	0.43
1:D:67:THR:O	1:D:563:PRO:HD2	2.18	0.43
1:D:228:PRO:HB3	1:E:493:THR:CB	2.48	0.43
1:D:230:VAL:CG1	1:E:492:LEU:HD12	2.48	0.43
1:D:468:LEU:HG	1:D:470:VAL:HG23	1.99	0.43
1:D:544:THR:HG22	1:D:545:ASP:N	2.33	0.43
1:E:264:ARG:NE	1:E:424:LEU:CD2	2.76	0.43
1:E:468:LEU:HG	1:E:470:VAL:HG23	1.99	0.43
1:E:544:THR:HG22	1:E:545:ASP:N	2.32	0.43
1:A:55:ILE:HG21	1:A:67:THR:HG21	2.00	0.43
1:A:408:LEU:O	1:A:412:TYR:HB2	2.18	0.43
1:A:425:LEU:O	1:B:132:PRO:CG	2.60	0.43
1:A:512:THR:HB	1:A:513:ILE:HD12	2.00	0.43
1:B:55:ILE:HG21	1:B:67:THR:HG21	2.00	0.43
1:B:228:PRO:CB	2:G:15:TYR:CE1	2.99	0.43
1:B:450:THR:HG21	1:C:96:ILE:HG22	1.94	0.43
1:B:512:THR:HB	1:B:513:ILE:HD12	2.00	0.43
1:C:57:TYR:CD1	1:C:57:TYR:O	2.71	0.43
1:C:411:ASN:HD22	1:D:172:GLU:H	1.64	0.43
1:D:55:ILE:HG21	1:D:67:THR:HG21	2.00	0.43
1:D:408:LEU:O	1:D:412:TYR:HB2	2.18	0.43
1:D:452:ARG:HG2	1:E:60:LEU:HD13	1.99	0.43
1:E:151:ARG:HG3	1:E:161:LEU:HD21	1.99	0.43
1:A:377:PRO:O	1:A:379:ILE:N	2.51	0.43
1:A:514:THR:CB	1:E:476:TYR:CE1	3.00	0.43
1:C:407:TYR:OH	1:D:172:GLU:O	2.35	0.43
1:C:432:CYS:O	1:D:555:TYR:OH	2.36	0.43
1:C:480:ALA:C	1:C:482:TYR:H	2.21	0.43
1:E:67:THR:O	1:E:563:PRO:HD2	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:133:ASN:HB2	1:E:175:TYR:CD2	2.53	0.43
1:A:47:ARG:H	1:E:569:ARG:HB3	1.83	0.43
1:A:133:ASN:HB2	1:A:175:TYR:CD2	2.53	0.43
1:A:425:LEU:HD13	1:B:172:GLU:HG3	2.00	0.43
1:A:450:THR:OG1	1:B:57:TYR:HD1	2.02	0.43
1:A:556:LYS:HZ1	1:E:436:GLN:H	1.57	0.43
1:B:569:ARG:HB3	1:C:47:ARG:H	1.83	0.43
1:C:394:ILE:HG22	1:C:402:GLN:HG2	2.00	0.43
1:C:488:GLN:HB3	1:C:494:HIS:NE2	2.32	0.43
1:D:133:ASN:HB2	1:D:175:TYR:CD2	2.53	0.43
1:D:221:PRO:HB2	1:E:194:LYS:HG3	2.00	0.43
1:D:228:PRO:CB	2:H:15:TYR:CE1	2.99	0.43
1:D:512:THR:HB	1:D:513:ILE:HD12	2.00	0.43
1:D:556:LYS:CE	1:D:558:LEU:CD2	2.81	0.43
1:E:408:LEU:O	1:E:412:TYR:HB2	2.18	0.43
1:A:257:ASN:OD1	1:A:258:LEU:N	2.51	0.43
1:B:544:THR:HG22	1:B:545:ASP:N	2.33	0.43
2:G:12:ASN:O	2:G:13:PRO:C	2.57	0.43
1:D:434:SER:O	1:E:556:LYS:CE	2.65	0.43
1:A:434:SER:O	1:B:556:LYS:HG2	2.17	0.43
1:B:155:LYS:CG	1:B:158:GLN:OE1	2.66	0.43
1:B:408:LEU:O	1:B:412:TYR:HB2	2.18	0.43
1:C:436:GLN:CD	1:D:558:LEU:CD1	2.86	0.43
1:D:57:TYR:HH	1:D:98:ASN:ND2	2.17	0.43
1:D:394:ILE:HG22	1:D:402:GLN:HG2	2.00	0.43
1:A:264:ARG:NE	1:A:424:LEU:CD2	2.76	0.43
1:B:133:ASN:HB2	1:B:175:TYR:CD2	2.53	0.43
1:B:425:LEU:O	1:C:132:PRO:CG	2.59	0.43
1:E:512:THR:HB	1:E:513:ILE:HD12	2.00	0.43
1:A:394:ILE:HG22	1:A:402:GLN:HG2	2.00	0.43
1:A:436:GLN:OE1	1:B:558:LEU:CD1	2.54	0.43
1:B:452:ARG:HG2	1:C:60:LEU:HD13	2.00	0.43
1:C:436:GLN:CB	1:D:558:LEU:CD2	2.96	0.43
1:D:569:ARG:CB	1:E:47:ARG:CB	2.96	0.43
1:A:197:ARG:HH21	1:E:220:ASP:CG	2.22	0.43
1:A:267:PHE:O	1:A:267:PHE:CG	2.71	0.43
1:B:264:ARG:NE	1:B:424:LEU:CD2	2.76	0.43
1:C:508:PRO:HA	1:C:509:PRO:HD3	1.92	0.43
1:C:512:THR:HB	1:C:513:ILE:HD12	2.00	0.43
1:D:63:LEU:CD2	1:D:67:THR:CG2	2.86	0.43
1:D:135:ASN:CA	1:D:172:GLU:OE1	2.62	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:47:ARG:HG2	1:A:48:PRO:CD	2.45	0.43
1:A:237:HIS:HA	1:A:238:PRO:HD3	1.87	0.43
1:A:490:THR:HG23	1:E:482:TYR:HD1	1.83	0.43
1:B:480:ALA:C	1:B:482:TYR:N	2.72	0.43
1:C:407:TYR:CE1	1:D:172:GLU:O	2.72	0.43
1:C:569:ARG:CB	1:D:47:ARG:CB	2.96	0.43
1:D:234:GLU:OE2	1:E:496:PHE:HE1	2.02	0.43
1:D:377:PRO:O	1:D:379:ILE:N	2.51	0.43
1:E:42:PRO:HA	1:E:43:PRO:HD3	1.87	0.43
1:A:67:THR:O	1:A:563:PRO:HD2	2.18	0.42
1:A:90:ASN:ND2	1:A:457:ILE:HG21	2.32	0.42
1:A:468:LEU:HA	1:A:469:PRO:HD3	1.87	0.42
1:B:42:PRO:HA	1:B:43:PRO:HD3	1.87	0.42
1:B:184:MET:O	1:B:188:ILE:HG12	2.19	0.42
1:B:476:TYR:OH	1:C:514:THR:OG1	2.36	0.42
1:C:155:LYS:O	1:C:156:ASP:CB	2.37	0.42
1:D:184:MET:O	1:D:188:ILE:HG12	2.19	0.42
1:E:47:ARG:NH2	1:E:53:ASN:HD22	2.03	0.42
1:A:172:GLU:C	1:E:425:LEU:HD22	2.39	0.42
1:B:228:PRO:HB3	1:C:493:THR:CB	2.49	0.42
1:C:131:MET:HA	1:C:132:PRO:HD3	1.90	0.42
1:C:408:LEU:O	1:C:412:TYR:HB2	2.18	0.42
1:A:230:VAL:CG1	1:B:492:LEU:CB	2.79	0.42
2:F:12:ASN:O	2:F:13:PRO:C	2.57	0.42
1:B:174:ASN:OD1	1:B:174:ASN:O	2.37	0.42
1:B:450:THR:CB	1:C:57:TYR:HD1	2.29	0.42
1:C:174:ASN:OD1	1:C:174:ASN:O	2.37	0.42
1:C:410:TYR:CZ	1:C:425:LEU:HB2	2.54	0.42
1:A:68:ARG:NH2	1:E:529:LEU:HD21	2.33	0.42
1:A:464:GLY:HA2	1:B:70:TYR:HE2	1.85	0.42
1:D:230:VAL:CG1	1:E:492:LEU:CD1	2.97	0.42
1:D:508:PRO:HA	1:D:509:PRO:HD3	1.92	0.42
1:E:63:LEU:CD2	1:E:67:THR:HG22	2.16	0.42
2:F:15:TYR:OH	1:B:493:THR:CA	2.68	0.42
1:B:67:THR:O	1:B:563:PRO:HD2	2.19	0.42
1:D:569:ARG:HB3	1:E:47:ARG:H	1.84	0.42
1:A:60:LEU:CD2	1:E:452:ARG:HE	2.30	0.42
1:A:426:CYS:SG	1:B:553:TYR:CD2	3.04	0.42
1:A:436:GLN:HB3	1:B:558:LEU:CD2	2.50	0.42
1:A:569:ARG:HG2	1:B:47:ARG:HB3	2.00	0.42
1:B:410:TYR:CZ	1:B:425:LEU:HB2	2.54	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:174:ASN:OD1	1:D:174:ASN:O	2.38	0.42
2:H:12:ASN:O	2:H:13:PRO:C	2.57	0.42
1:A:233:ASN:CG	1:B:491:SER:HA	2.40	0.42
1:C:184:MET:O	1:C:188:ILE:HG12	2.19	0.42
1:C:425:LEU:O	1:D:132:PRO:CG	2.58	0.42
1:A:57:TYR:CG	1:E:450:THR:HA	2.51	0.42
1:A:184:MET:O	1:A:188:ILE:HG12	2.19	0.42
1:A:475:PHE:CD2	1:E:476:TYR:HD1	2.34	0.42
1:B:530:PRO:CG	1:C:66:THR:O	2.68	0.42
1:C:155:LYS:CG	1:C:158:GLN:OE1	2.66	0.42
1:C:266:PRO:HD3	1:D:87:ASP:HB2	1.93	0.42
1:C:569:ARG:HG2	1:D:47:ARG:HB3	2.02	0.42
1:E:174:ASN:O	1:E:174:ASN:OD1	2.37	0.42
1:A:42:PRO:HA	1:A:43:PRO:HD3	1.87	0.42
1:A:174:ASN:OD1	1:A:174:ASN:O	2.38	0.42
1:A:378:VAL:HG23	1:A:379:ILE:N	2.34	0.42
1:A:482:TYR:CB	1:B:490:THR:HG21	2.43	0.42
1:B:425:LEU:CG	1:C:172:GLU:CB	2.98	0.42
1:B:457:ILE:H	1:B:457:ILE:HG13	1.60	0.42
1:B:497:ASN:ND2	1:B:500:PRO:HB3	2.25	0.42
1:C:234:GLU:OE2	1:D:496:PHE:HE1	2.03	0.42
1:E:184:MET:O	1:E:188:ILE:HG12	2.19	0.42
1:A:66:THR:HG21	1:E:528:THR:CB	2.50	0.42
1:A:68:ARG:NH2	1:E:529:LEU:HD11	2.35	0.42
1:A:221:PRO:HB2	1:B:194:LYS:HG3	2.02	0.42
1:A:228:PRO:CB	2:F:15:TYR:CE1	2.99	0.42
1:A:528:THR:CB	1:B:66:THR:HG21	2.50	0.42
1:B:57:TYR:CD1	1:B:57:TYR:O	2.72	0.42
1:B:220:ASP:CG	1:C:197:ARG:HH21	2.23	0.42
1:A:57:TYR:CD2	1:A:59:GLU:C	2.93	0.41
1:C:237:HIS:HA	1:C:238:PRO:HD3	1.87	0.41
1:D:426:CYS:SG	1:E:553:TYR:CD2	3.04	0.41
1:E:106:ALA:CB	1:E:109:GLN:CD	2.89	0.41
1:E:155:LYS:CG	1:E:158:GLN:OE1	2.66	0.41
1:B:106:ALA:CB	1:B:109:GLN:CD	2.89	0.41
1:B:230:VAL:HB	1:C:493:THR:HG23	2.01	0.41
1:C:111:ILE:HB	1:C:535:ILE:HB	2.03	0.41
1:D:436:GLN:NE2	1:E:558:LEU:CD1	2.69	0.41
1:D:464:GLY:HA2	1:E:70:TYR:HE2	1.85	0.41
1:E:152:LEU:CB	1:E:153:PRO:CD	2.89	0.41
1:B:70:TYR:O	1:B:95:VAL:HG13	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:258:LEU:HD13	1:B:430:VAL:HA	2.03	0.41
1:B:481:VAL:CG2	1:B:482:TYR:N	2.83	0.41
1:C:106:ALA:CB	1:C:109:GLN:CD	2.89	0.41
1:C:258:LEU:HD13	1:C:430:VAL:HA	2.02	0.41
1:D:378:VAL:HG23	1:D:379:ILE:N	2.33	0.41
1:A:185:ASN:O	1:A:189:VAL:HG23	2.21	0.41
1:B:111:ILE:HB	1:B:535:ILE:HB	2.03	0.41
1:B:378:VAL:HG23	1:B:379:ILE:N	2.34	0.41
1:C:133:ASN:HB2	1:C:175:TYR:HD2	1.86	0.41
1:C:236:PHE:CZ	1:D:183:LEU:HD21	2.55	0.41
1:E:111:ILE:HB	1:E:535:ILE:HB	2.03	0.41
1:A:436:GLN:NE2	1:B:558:LEU:HD11	2.34	0.41
1:C:70:TYR:O	1:C:95:VAL:HG13	2.21	0.41
1:C:436:GLN:OE1	1:D:558:LEU:HD11	2.21	0.41
1:D:258:LEU:HD13	1:D:430:VAL:HA	2.03	0.41
1:D:569:ARG:HG2	1:E:47:ARG:HB3	2.02	0.41
1:A:70:TYR:O	1:A:95:VAL:HG13	2.21	0.41
1:A:111:ILE:HB	1:A:535:ILE:HB	2.03	0.41
1:B:47:ARG:HG2	1:B:48:PRO:CD	2.45	0.41
1:B:454:THR:HG21	1:B:459:ASN:CG	2.40	0.41
1:B:513:ILE:HD11	1:C:516:VAL:HG21	2.03	0.41
1:C:264:ARG:NE	1:C:424:LEU:CD2	2.76	0.41
1:E:68:ARG:CD	1:E:70:TYR:CZ	2.83	0.41
1:E:133:ASN:HB2	1:E:175:TYR:HD2	1.85	0.41
1:A:47:ARG:HA	1:E:569:ARG:O	2.20	0.41
1:A:66:THR:O	1:E:530:PRO:CG	2.69	0.41
1:A:106:ALA:CB	1:A:109:GLN:CD	2.89	0.41
1:A:132:PRO:CG	1:E:425:LEU:O	2.60	0.41
1:B:118:HIS:NE2	1:C:65:ASP:OD1	2.49	0.41
1:C:185:ASN:O	1:C:189:VAL:HG23	2.21	0.41
1:C:425:LEU:HD21	1:D:172:GLU:O	2.21	0.41
1:D:106:ALA:CB	1:D:109:GLN:CD	2.89	0.41
1:D:436:GLN:HB3	1:E:558:LEU:CD2	2.50	0.41
1:D:457:ILE:H	1:D:457:ILE:HG13	1.60	0.41
1:B:481:VAL:CG2	1:C:490:THR:CB	2.98	0.41
1:C:47:ARG:HG2	1:C:48:PRO:CD	2.45	0.41
1:C:467:LEU:HB2	1:D:126:ILE:HG21	2.03	0.41
1:D:70:TYR:O	1:D:95:VAL:HG13	2.21	0.41
1:D:111:ILE:HB	1:D:535:ILE:HB	2.03	0.41
1:A:99:ASN:CB	1:E:459:ASN:OD1	2.68	0.41
1:A:119:TRP:CE3	1:A:563:PRO:HB2	2.56	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:135:ASN:HA	1:A:172:GLU:OE2	2.21	0.41
1:A:151:ARG:O	1:A:151:ARG:HG2	2.21	0.41
1:A:257:ASN:HD21	1:A:432:CYS:HB3	1.85	0.41
1:A:267:PHE:HD2	1:B:84:TYR:HA	1.86	0.41
1:A:479:GLN:O	1:A:480:ALA:O	2.39	0.41
1:A:556:LYS:HB3	1:E:434:SER:HB3	2.02	0.41
1:B:135:ASN:HA	1:B:172:GLU:OE2	2.21	0.41
1:B:185:ASN:O	1:B:189:VAL:HG23	2.21	0.41
1:B:257:ASN:ND2	1:C:555:TYR:OH	2.54	0.41
1:B:257:ASN:CG	1:C:555:TYR:OH	2.59	0.41
1:B:434:SER:CB	1:C:556:LYS:CB	2.89	0.41
1:C:119:TRP:CE3	1:C:563:PRO:HB2	2.56	0.41
1:C:410:TYR:CE2	1:C:425:LEU:HD13	2.56	0.41
1:C:450:THR:HG21	1:D:96:ILE:HG22	1.95	0.41
1:C:454:THR:HG21	1:C:459:ASN:CG	2.41	0.41
1:D:47:ARG:HG2	1:D:48:PRO:CD	2.45	0.41
1:D:264:ARG:NE	1:D:424:LEU:CD2	2.75	0.41
1:D:436:GLN:OE1	1:E:558:LEU:HD13	2.21	0.41
1:E:119:TRP:CE3	1:E:563:PRO:HB2	2.56	0.41
1:E:185:ASN:O	1:E:189:VAL:HG23	2.21	0.41
1:A:480:ALA:C	1:A:482:TYR:N	2.72	0.41
1:A:558:LEU:HD13	1:E:436:GLN:OE1	2.20	0.41
1:B:155:LYS:CB	1:B:158:GLN:HB2	2.47	0.41
1:B:414:ASP:HA	1:B:415:PRO:HD3	1.88	0.41
1:B:528:THR:CB	1:C:66:THR:HG21	2.51	0.41
1:C:135:ASN:HA	1:C:172:GLU:OE2	2.21	0.41
1:C:236:PHE:HE2	1:D:174:ASN:HD22	1.66	0.41
1:C:476:TYR:CE1	1:D:514:THR:CB	3.04	0.41
1:C:569:ARG:HB3	1:D:47:ARG:H	1.86	0.41
1:D:476:TYR:CE2	1:E:477:ASN:CB	2.91	0.41
1:D:482:TYR:CZ	1:E:486:ILE:CG2	3.00	0.41
1:A:57:TYR:CE2	1:A:60:LEU:HD12	2.54	0.40
1:A:155:LYS:CB	1:A:158:GLN:HB2	2.47	0.40
1:B:119:TRP:CE3	1:B:563:PRO:HB2	2.56	0.40
1:B:230:VAL:CG1	1:C:492:LEU:HD12	2.51	0.40
1:B:273:ILE:O	1:B:273:ILE:HG23	2.22	0.40
1:B:463:VAL:CA	1:C:70:TYR:OH	2.70	0.40
1:C:476:TYR:CZ	1:D:514:THR:HB	2.56	0.40
1:D:407:TYR:CE1	1:E:172:GLU:O	2.74	0.40
1:A:194:LYS:HG3	1:E:221:PRO:CB	2.51	0.40
1:A:475:PHE:CD2	1:E:476:TYR:CG	3.09	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:90:ASN:ND2	1:E:457:ILE:HG21	2.32	0.40
1:A:174:ASN:HD22	1:E:236:PHE:HE2	1.66	0.40
1:A:516:VAL:HG21	1:E:513:ILE:HD11	2.02	0.40
2:F:18:ASP:CB	2:F:19:THR:HA	2.43	0.40
1:B:230:VAL:CG1	1:C:492:LEU:CD1	2.99	0.40
1:C:151:ARG:O	1:C:151:ARG:HG2	2.21	0.40
1:D:47:ARG:NH1	1:D:53:ASN:HB2	2.36	0.40
1:D:119:TRP:CE3	1:D:563:PRO:HB2	2.56	0.40
1:D:233:ASN:CG	1:E:491:SER:HA	2.41	0.40
1:A:531:LEU:HD11	1:A:563:PRO:HB3	2.04	0.40
1:B:151:ARG:O	1:B:151:ARG:HG2	2.21	0.40
1:B:266:PRO:HD3	1:C:87:ASP:HB2	1.94	0.40
1:B:450:THR:OG1	1:C:57:TYR:HD1	2.05	0.40
1:C:544:THR:CG2	1:C:548:ARG:HA	2.52	0.40
1:D:185:ASN:O	1:D:189:VAL:HG23	2.21	0.40
1:A:529:LEU:HA	1:A:530:PRO:HD3	1.93	0.40
1:A:544:THR:CG2	1:A:548:ARG:HA	2.52	0.40
1:C:150:SER:HB3	1:C:199:ASN:HB3	2.04	0.40
1:C:273:ILE:HG23	1:C:273:ILE:O	2.22	0.40
1:C:447:ASP:O	1:D:63:LEU:HD13	2.21	0.40
1:C:481:VAL:CG1	1:D:490:THR:HB	2.30	0.40
1:C:531:LEU:HD11	1:C:563:PRO:HB3	2.04	0.40
1:D:236:PHE:HE2	1:E:174:ASN:HD22	1.66	0.40
1:D:266:PRO:HD2	1:E:87:ASP:HB2	1.97	0.40
1:E:61:ALA:HA	1:E:62:PRO:HD3	1.96	0.40
1:E:151:ARG:O	1:E:151:ARG:HG2	2.20	0.40
1:E:544:THR:CG2	1:E:548:ARG:HA	2.52	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	A	451/571 (79%)	341 (76%)	84 (19%)	26 (6%)	1	18
1	B	451/571 (79%)	341 (76%)	85 (19%)	25 (6%)	2	19
1	C	451/571 (79%)	341 (76%)	85 (19%)	25 (6%)	2	19
1	D	451/571 (79%)	341 (76%)	85 (19%)	25 (6%)	2	19
1	E	451/571 (79%)	340 (75%)	85 (19%)	26 (6%)	1	18
2	F	11/581 (2%)	3 (27%)	2 (18%)	6 (54%)	0	0
2	G	11/581 (2%)	3 (27%)	2 (18%)	6 (54%)	0	0
2	H	11/581 (2%)	3 (27%)	2 (18%)	6 (54%)	0	0
All	All	2288/4598 (50%)	1713 (75%)	430 (19%)	145 (6%)	3	17

All (145) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	81	SER
1	A	156	ASP
1	A	378	VAL
2	F	8	GLU
2	F	9	ASP
2	F	10	THR
2	F	11	PHE
1	B	81	SER
1	B	156	ASP
1	B	378	VAL
2	G	8	GLU
2	G	9	ASP
2	G	10	THR
2	G	11	PHE
1	C	81	SER
1	C	156	ASP
1	C	378	VAL
1	D	81	SER
1	D	156	ASP
1	D	378	VAL
2	H	8	GLU
2	H	9	ASP
2	H	10	THR
2	H	11	PHE
1	E	81	SER
1	E	156	ASP
1	E	378	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	80	ALA
1	A	85	GLN
1	A	99	ASN
1	A	103	PRO
1	A	153	PRO
1	A	449	VAL
1	A	480	ALA
2	F	16	PRO
1	B	80	ALA
1	B	85	GLN
1	B	99	ASN
1	B	103	PRO
1	B	153	PRO
1	B	449	VAL
2	G	16	PRO
1	C	80	ALA
1	C	85	GLN
1	C	99	ASN
1	C	103	PRO
1	C	153	PRO
1	C	449	VAL
1	D	80	ALA
1	D	85	GLN
1	D	99	ASN
1	D	103	PRO
1	D	153	PRO
1	D	449	VAL
2	H	16	PRO
1	E	80	ALA
1	E	85	GLN
1	E	99	ASN
1	E	103	PRO
1	E	153	PRO
1	E	449	VAL
1	A	208	VAL
1	A	429	ASP
1	B	208	VAL
1	B	429	ASP
1	C	208	VAL
1	C	429	ASP
1	D	208	VAL
1	D	429	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	E	208	VAL
1	E	429	ASP
1	A	151	ARG
1	A	552	PRO
2	F	13	PRO
1	B	151	ARG
1	B	552	PRO
2	G	13	PRO
1	C	151	ARG
1	C	552	PRO
1	D	151	ARG
1	D	552	PRO
2	H	13	PRO
1	E	151	ARG
1	E	552	PRO
1	A	41	VAL
1	A	102	SER
1	A	152	LEU
1	A	176	SER
1	A	388	LYS
1	B	41	VAL
1	B	102	SER
1	B	152	LEU
1	B	176	SER
1	B	388	LYS
1	B	459	ASN
1	C	41	VAL
1	C	102	SER
1	C	152	LEU
1	C	176	SER
1	C	388	LYS
1	C	459	ASN
1	D	41	VAL
1	D	102	SER
1	D	152	LEU
1	D	176	SER
1	D	388	LYS
1	E	41	VAL
1	E	102	SER
1	E	152	LEU
1	E	176	SER
1	E	388	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	E	432	CYS
1	E	459	ASN
1	A	120	GLY
1	A	200	GLY
1	A	459	ASN
1	A	513	ILE
1	B	120	GLY
1	B	200	GLY
1	B	513	ILE
1	C	120	GLY
1	C	200	GLY
1	C	513	ILE
1	D	120	GLY
1	D	200	GLY
1	D	459	ASN
1	D	513	ILE
1	E	120	GLY
1	E	200	GLY
1	E	513	ILE
1	A	481	VAL
1	C	481	VAL
1	B	481	VAL
1	D	481	VAL
1	E	481	VAL
1	A	50	GLY
1	A	95	VAL
1	B	50	GLY
1	B	95	VAL
1	C	50	GLY
1	C	95	VAL
1	D	50	GLY
1	D	95	VAL
1	E	50	GLY
1	E	95	VAL

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	A	412/489 (84%)	391 (95%)	21 (5%)	24	58
1	B	412/489 (84%)	392 (95%)	20 (5%)	25	59
1	C	412/489 (84%)	392 (95%)	20 (5%)	25	59
1	D	412/489 (84%)	393 (95%)	19 (5%)	27	61
1	E	412/489 (84%)	392 (95%)	20 (5%)	25	59
2	F	13/489 (3%)	12 (92%)	1 (8%)	13	45
2	G	13/489 (3%)	12 (92%)	1 (8%)	13	45
2	H	13/489 (3%)	12 (92%)	1 (8%)	13	45
All	All	2099/3912 (54%)	1996 (95%)	103 (5%)	29	59

All (103) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	55	ILE
1	A	57	TYR
1	A	84	TYR
1	A	101	TYR
1	A	108	THR
1	A	109	GLN
1	A	115	ASP
1	A	130	ASN
1	A	133	ASN
1	A	156	ASP
1	A	176	SER
1	A	182	ASP
1	A	211	ASP
1	A	271	PHE
1	A	276	ASP
1	A	395	SER
1	A	404	ARG
1	A	417	THR
1	A	425	LEU
1	A	429	ASP
1	A	555	TYR
2	F	15	TYR
1	B	55	ILE
1	B	57	TYR
1	B	84	TYR
1	B	101	TYR
1	B	108	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	109	GLN
1	B	115	ASP
1	B	130	ASN
1	B	133	ASN
1	B	156	ASP
1	B	176	SER
1	B	182	ASP
1	B	211	ASP
1	B	271	PHE
1	B	276	ASP
1	B	395	SER
1	B	404	ARG
1	B	417	THR
1	B	425	LEU
1	B	429	ASP
2	G	15	TYR
1	C	55	ILE
1	C	57	TYR
1	C	84	TYR
1	C	101	TYR
1	C	108	THR
1	C	109	GLN
1	C	115	ASP
1	C	130	ASN
1	C	133	ASN
1	C	156	ASP
1	C	176	SER
1	C	182	ASP
1	C	211	ASP
1	C	271	PHE
1	C	276	ASP
1	C	395	SER
1	C	404	ARG
1	C	417	THR
1	C	425	LEU
1	C	429	ASP
1	D	55	ILE
1	D	57	TYR
1	D	84	TYR
1	D	101	TYR
1	D	108	THR
1	D	109	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	115	ASP
1	D	130	ASN
1	D	133	ASN
1	D	156	ASP
1	D	176	SER
1	D	182	ASP
1	D	211	ASP
1	D	271	PHE
1	D	276	ASP
1	D	395	SER
1	D	404	ARG
1	D	417	THR
1	D	429	ASP
2	H	15	TYR
1	E	55	ILE
1	E	57	TYR
1	E	84	TYR
1	E	101	TYR
1	E	108	THR
1	E	109	GLN
1	E	115	ASP
1	E	130	ASN
1	E	133	ASN
1	E	156	ASP
1	E	176	SER
1	E	182	ASP
1	E	211	ASP
1	E	271	PHE
1	E	276	ASP
1	E	395	SER
1	E	404	ARG
1	E	417	THR
1	E	425	LEU
1	E	429	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (71) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	53	ASN
1	A	109	GLN
1	A	130	ASN
1	A	133	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	174	ASN
1	A	186	ASN
1	A	198	GLN
1	A	265	GLN
1	A	293	GLN
1	A	411	ASN
1	A	436	GLN
1	A	497	ASN
1	A	503	GLN
1	A	519	ASN
1	B	53	ASN
1	B	98	ASN
1	B	109	GLN
1	B	130	ASN
1	B	133	ASN
1	B	174	ASN
1	B	186	ASN
1	B	198	GLN
1	B	265	GLN
1	B	293	GLN
1	B	411	ASN
1	B	436	GLN
1	B	477	ASN
1	B	497	ASN
1	B	503	GLN
1	B	519	ASN
1	C	53	ASN
1	C	88	HIS
1	C	109	GLN
1	C	130	ASN
1	C	133	ASN
1	C	174	ASN
1	C	186	ASN
1	C	198	GLN
1	C	265	GLN
1	C	411	ASN
1	C	497	ASN
1	C	503	GLN
1	C	519	ASN
1	D	53	ASN
1	D	88	HIS
1	D	109	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	130	ASN
1	D	133	ASN
1	D	174	ASN
1	D	186	ASN
1	D	198	GLN
1	D	257	ASN
1	D	265	GLN
1	D	293	GLN
1	D	411	ASN
1	D	497	ASN
1	D	503	GLN
1	D	519	ASN
1	E	53	ASN
1	E	109	GLN
1	E	130	ASN
1	E	133	ASN
1	E	174	ASN
1	E	186	ASN
1	E	198	GLN
1	E	257	ASN
1	E	265	GLN
1	E	411	ASN
1	E	497	ASN
1	E	503	GLN
1	E	519	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

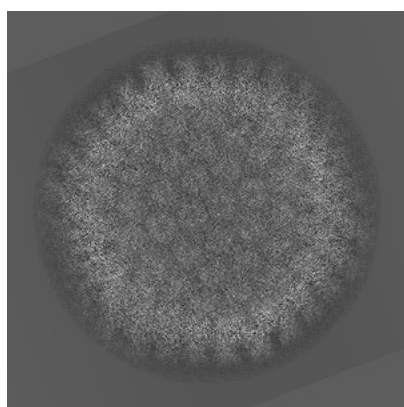
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-7034. These allow visual inspection of the internal detail of the map and identification of artifacts.

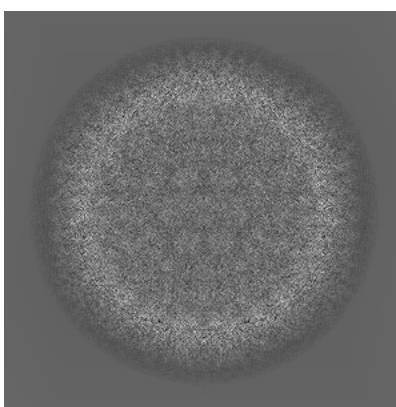
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

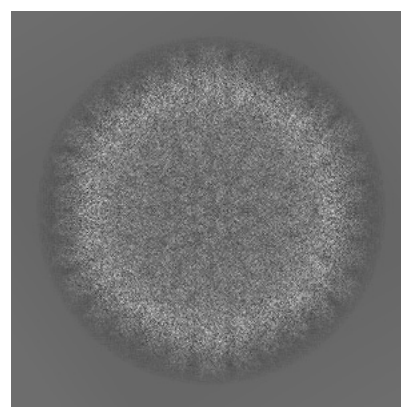
6.1.1 Primary map



X



Y

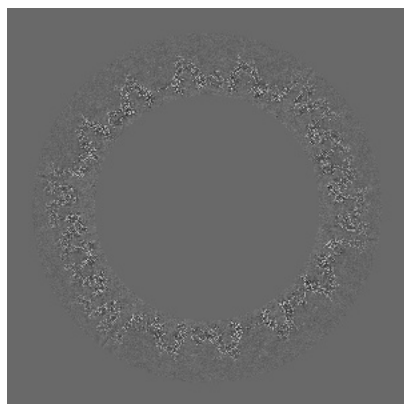


Z

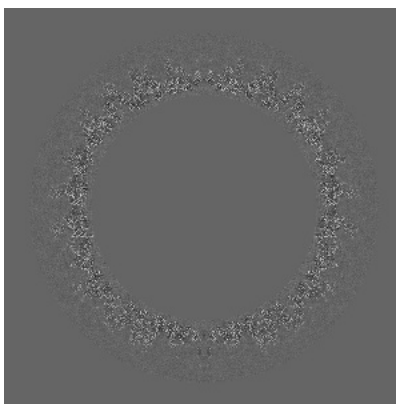
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

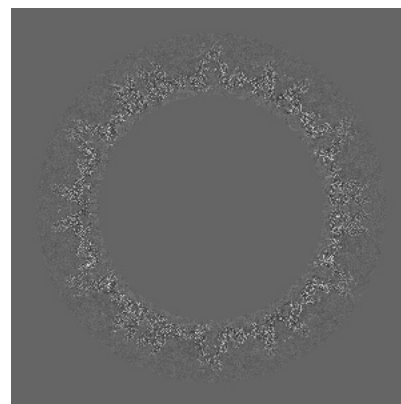
6.2.1 Primary map



X Index: 640



Y Index: 640

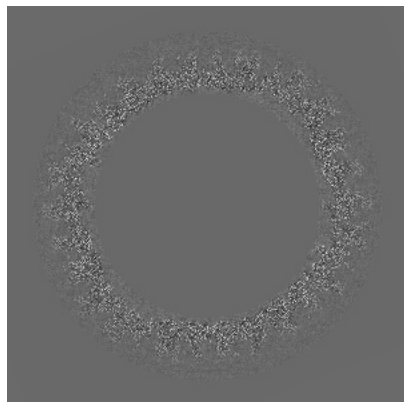


Z Index: 640

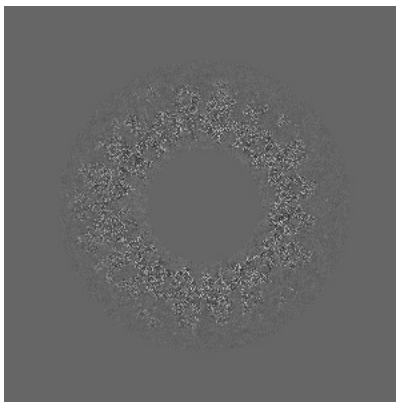
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

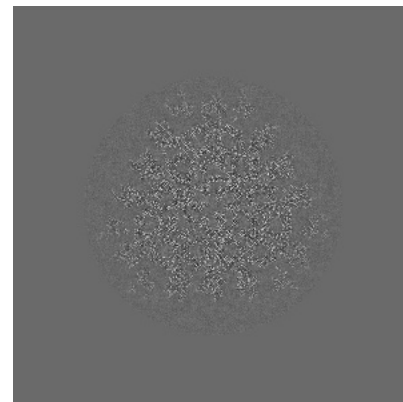
6.3.1 Primary map



X Index: 617



Y Index: 329

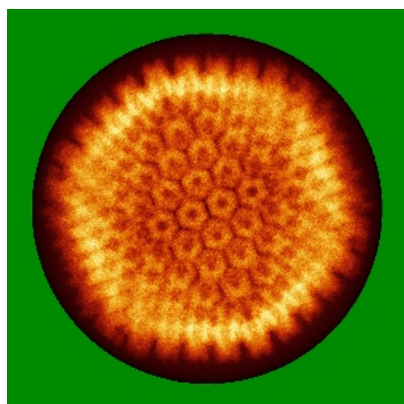


Z Index: 1017

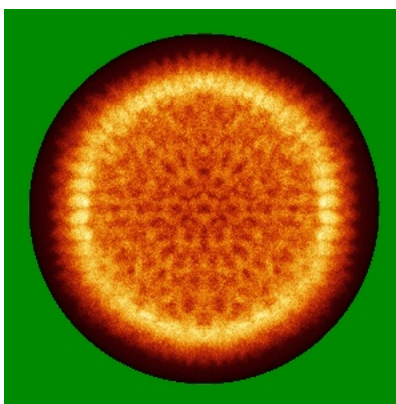
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

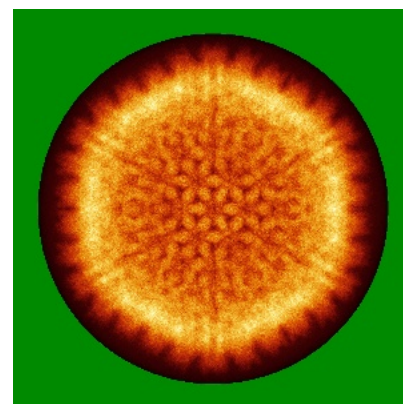
6.4.1 Primary map



X



Y

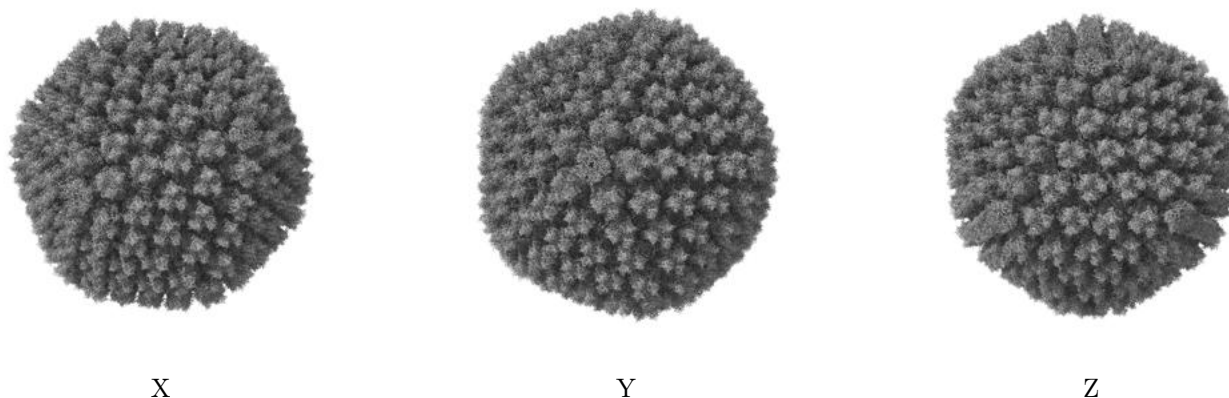


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 3.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

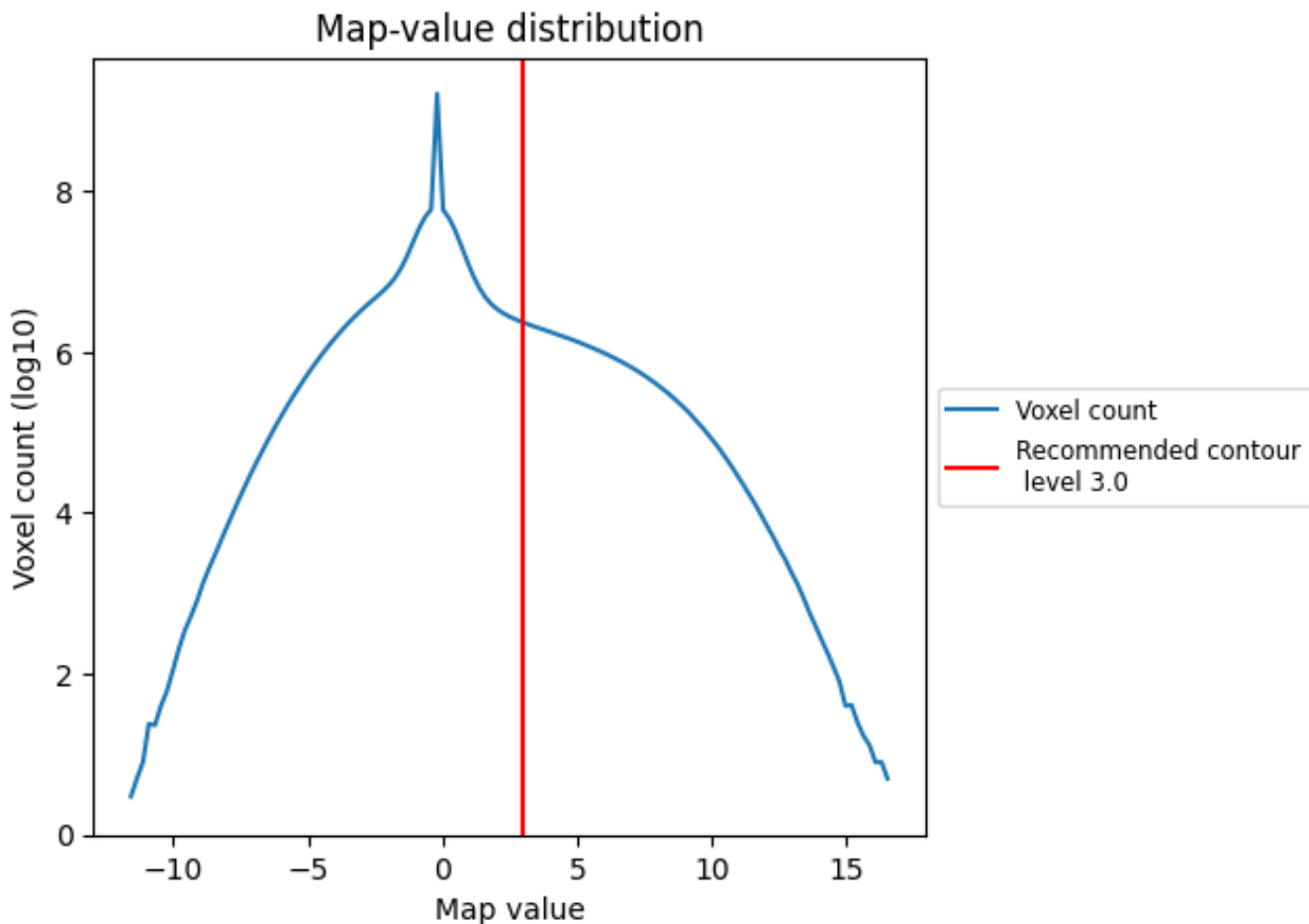
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

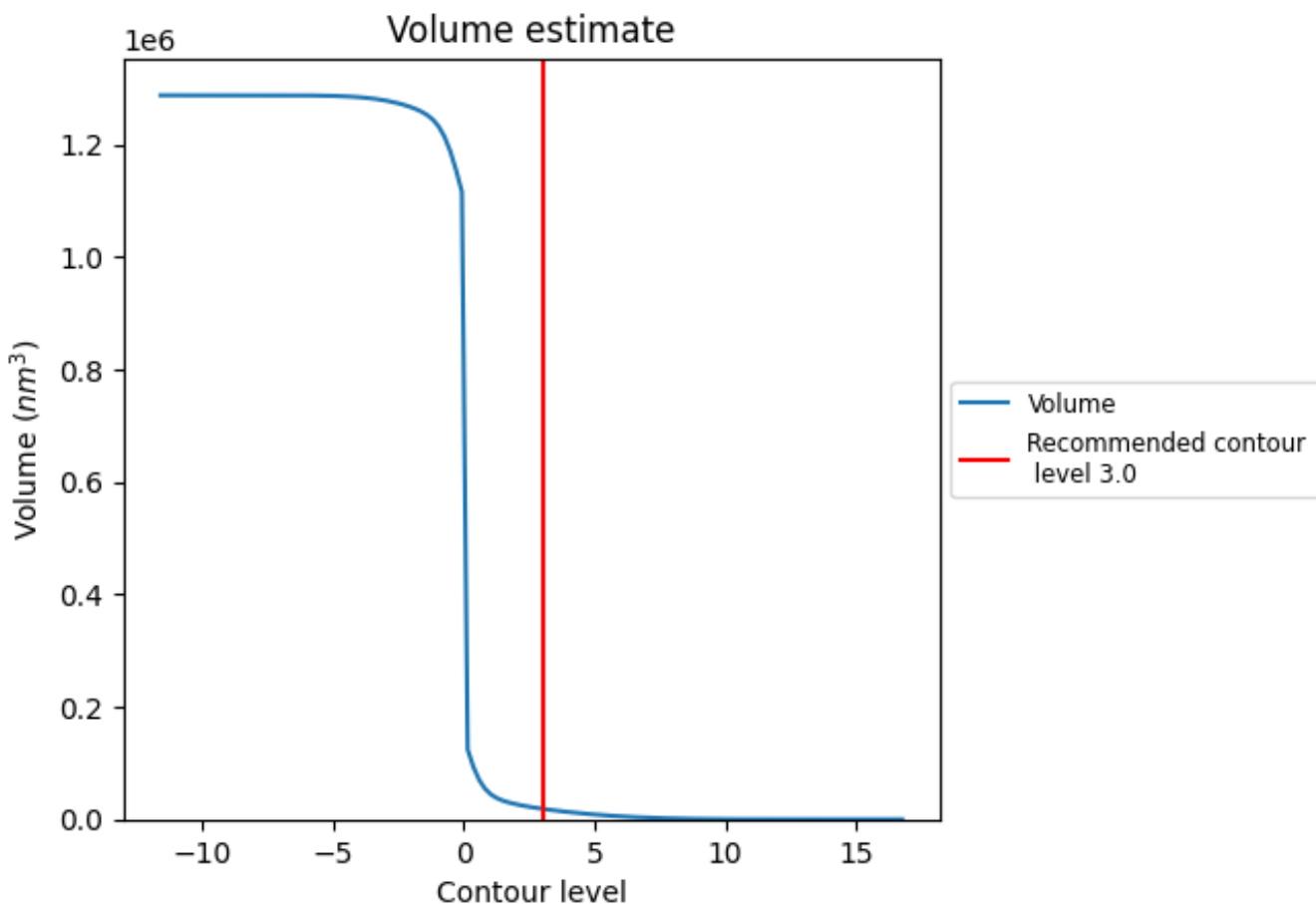
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

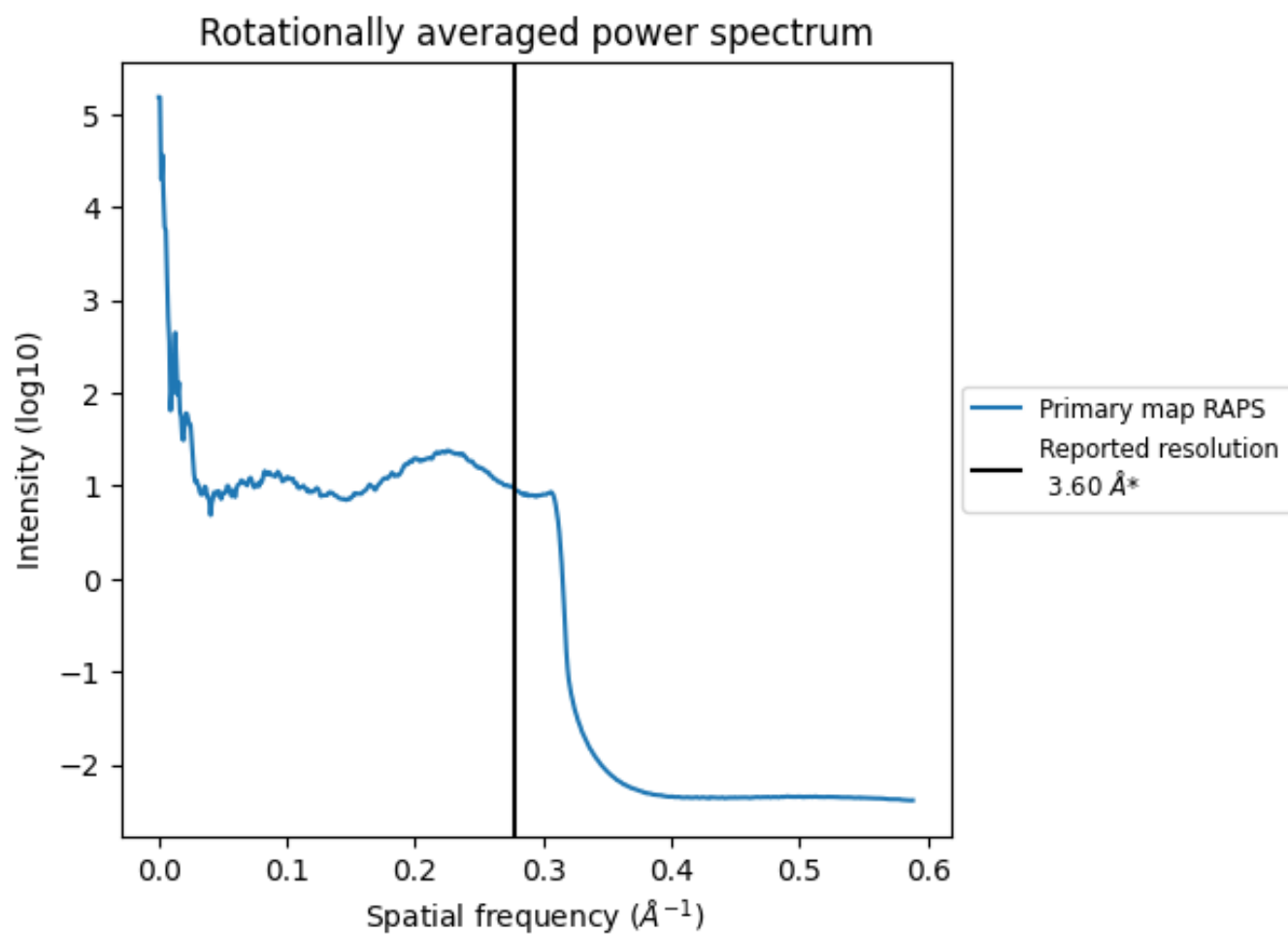
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 18707 nm^3 ; this corresponds to an approximate mass of 16898 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum [i](#)



*Reported resolution corresponds to spatial frequency of 0.278\AA^{-1}

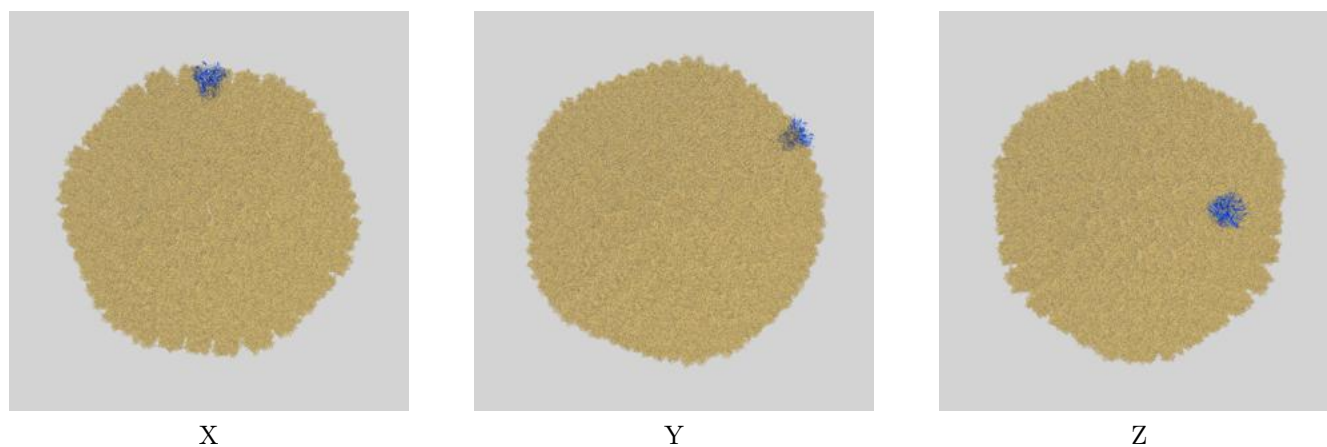
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

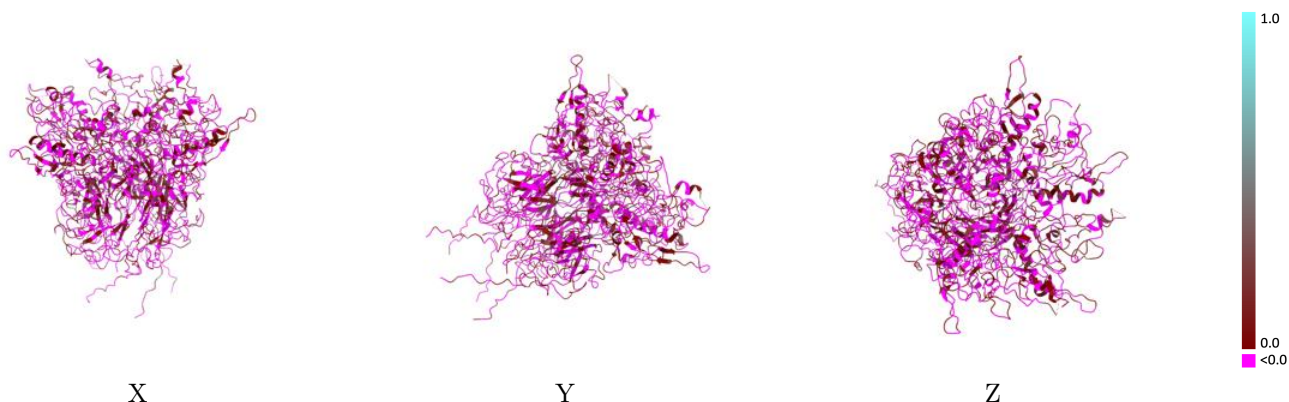
This section contains information regarding the fit between EMDB map EMD-7034 and PDB model 3IZO. Per-residue inclusion information can be found in section 3 on page 4.

9.1 Map-model overlay [i](#)



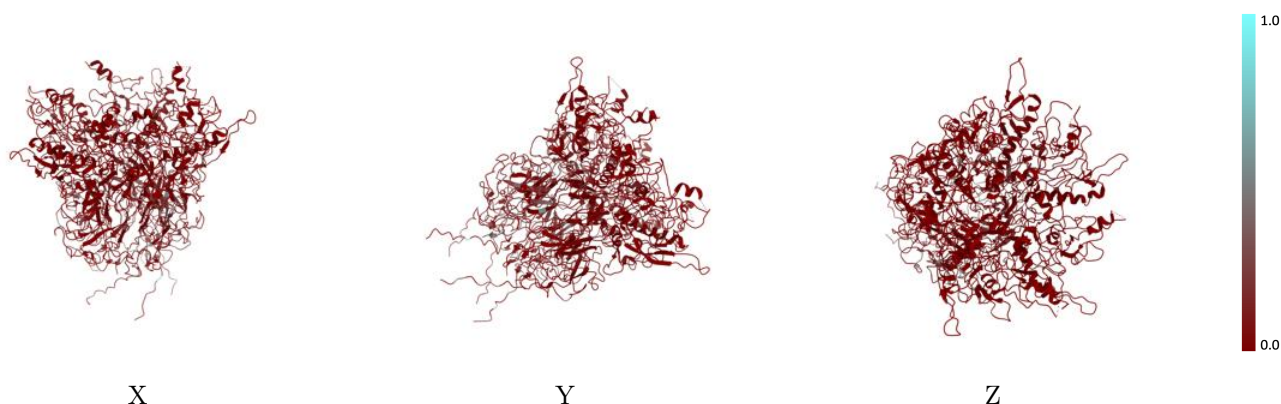
The images above show the 3D surface view of the map at the recommended contour level 3.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



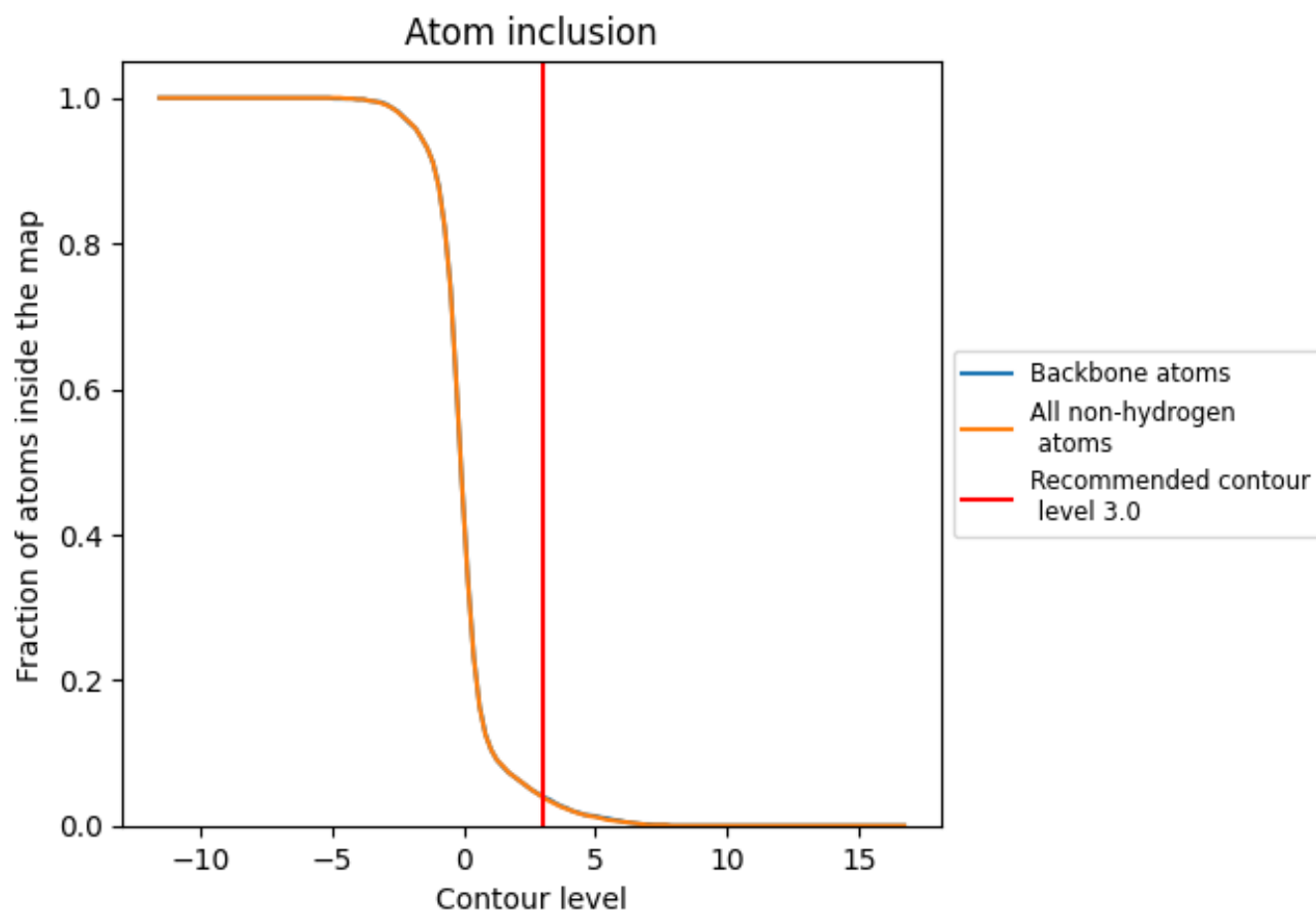
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (3.0).



















9.4 Atom inclusion [i](#)



At the recommended contour level, 4% of all backbone atoms, 4% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (3.0) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.0390	 -0.0130
A	 0.0300	 -0.0250
B	 0.0660	 -0.0180
C	 0.0260	 -0.0010
D	 0.0350	 -0.0190
E	 0.0440	 -0.0030
F	 0.0000	 0.0190
G	 0.0000	 -0.0160
H	 0.0000	 -0.1000

