

Integrative Structure Validation Report

September 05, 2024 - 09:26 AM PDT


The following software was used in the production of this report:

Python-IHM Version 1.3
MolProbity Version 4.5.2
Integrative Modeling Validation Version 1.2

PDB ID	9A3F
PDB-Dev ID	PDBDEV_00000200
Structure Title	Modeling of the GLP-1 receptor-Gs complex
Structure Authors	Shijia Yuan; Lisha Xia; Chenxi Wang; Fan Wu; Bingjie Zhang; Chen Pan; Xiaoguang Lei; Raymond Stevens; Andrej Sali; Liping Sun; Wenqing Shui

This is a PDB-Dev IM Structure Validation Report for a publicly released PDB-Dev entry.

We welcome your comments at pdb-dev@mail.wwpdb.org

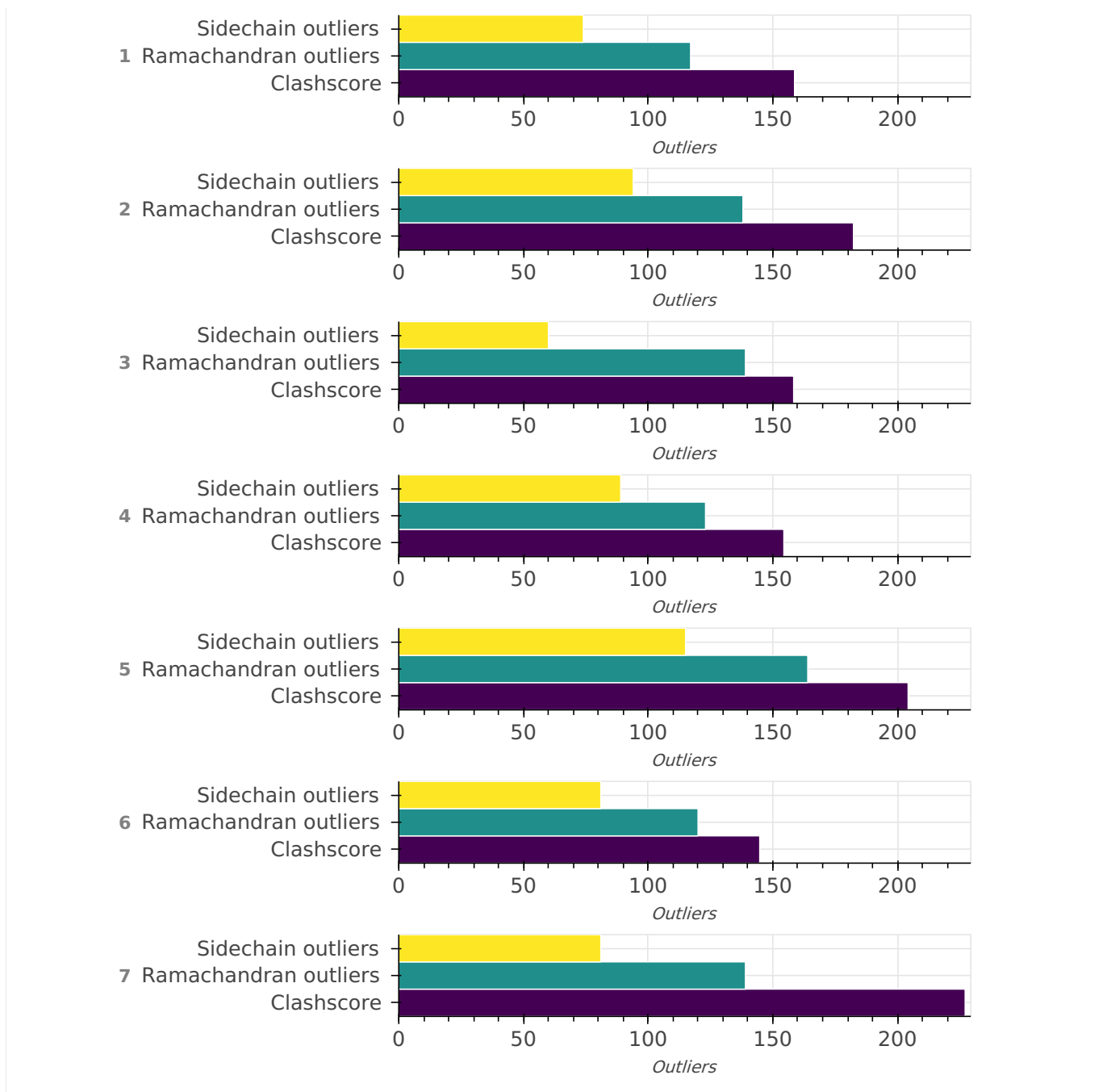
A user guide is available at https://pdb-dev.wwpdb.org/validation_help.html with specific help available everywhere you see the  symbol.

List of references used to build this report is available [here](#).

Overall quality

This validation report contains model quality assessments for all structures, data quality assessment for SAS datasets and fit to model assessments for SAS datasets. Data quality and fit to model assessments for other datasets and model uncertainty are under development. Number of plots is limited to 256.

Model Quality: MolProbity Analysis



Ensemble information ?

This entry consists of 1 distinct ensemble(s).

Summary ?

This entry consists of 7 unique models, with 6 subunits in each model. A total of 12 datasets or restraints were used to build this entry. Each model is represented by 0 rigid bodies and 14 flexible or non-rigid units.

Entry composition?

There are 7 unique types of models in this entry. These models are titled None, None, None, None, None, None, None respectively.

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
1	1	1	GLP1R	A	A	440
1	2	2	GLP1	B	B	31
1	3	3	GA	C	C	394
1	4	4	GB	D	D	340
1	5	5	GG	E	E	71
1	6	6	NB	F	F	129
2	1	1	GLP1R	A	A	440
2	2	2	GLP1	B	B	31
2	3	3	GA	C	C	394
2	4	4	GB	D	D	340
2	5	5	GG	E	E	71
2	6	6	NB	F	F	129
3	1	1	GLP1R	A	A	440
3	2	2	GLP1	B	B	31
3	3	3	GA	C	C	394
3	4	4	GB	D	D	340
3	5	5	GG	E	E	71
3	6	6	NB	F	F	129
4	1	1	GLP1R	A	A	440
4	2	2	GLP1	B	B	31

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	3	3	GA	C	C	394
4	4	4	GB	D	D	340
4	5	5	GG	E	E	71
4	6	6	NB	F	F	129
5	1	1	GLP1R	A	A	440
5	2	2	GLP1	B	B	31
5	3	3	GA	C	C	394
5	4	4	GB	D	D	340
5	5	5	GG	E	E	71
5	6	6	NB	F	F	129
6	1	1	GLP1R	A	A	440
6	2	2	GLP1	B	B	31
6	3	3	GA	C	C	394
6	4	4	GB	D	D	340
6	5	5	GG	E	E	71
6	6	6	NB	F	F	129
7	1	1	GLP1R	A	A	440
7	2	2	GLP1	B	B	31
7	3	3	GA	C	C	394
7	4	4	GB	D	D	340
7	5	5	GG	E	E	71
7	6	6	NB	F	F	129

Datasets used for modeling

There are 12 unique datasets used to build the models in this entry.

ID	Dataset type	Database name	Data access code
2	Crosslinking-MS data	iProX	IPX0004576001
3	Experimental model	File	10.5281/zenodo.13325078
4	Experimental model	File	10.5281/zenodo.13325078
5	Experimental model	File	10.5281/zenodo.13325078
6	Experimental model	File	10.5281/zenodo.13325078
7	Experimental model	File	10.5281/zenodo.13325078
8	Experimental model	File	10.5281/zenodo.13325078
9	Other	File	10.5281/zenodo.13325078
10	Other	File	10.5281/zenodo.13325078
11	Other	File	10.5281/zenodo.13325078
12	Other	File	10.5281/zenodo.13325078
1	Experimental model	PDB	6X18

Representation

This entry has only one representation and includes 0 rigid bodies and 14 flexible units

Chain ID	Rigid bodies	Non-rigid segments
B	-	1-31
A	-	1-400, 401-440
C	-	1-10, 11-391, 392-394
E	-	1-6, 7-45, 46-71
F	-	1-1, 2-127, 128-129

Chain ID	Rigid bodies	Non-rigid segments
D	-	1-2, 3-340

Methodology and software ?

This entry is a result of 1 distinct protocol(s).

Step number	Protocol ID	Method name	Method type	Method description	Number of computed models	Multi state modeling	Multi scale modeling
1	1	Replica exchange monte carlo	Sampling	None	844020	False	False

There are 3 software packages reported in this entry.

ID	Software name	Software version	Software classification	Software location
1	IMP PMI module	Not available	integrative model building	https://integrativemodeling.org
2	Integrative Modeling Platform (IMP)	Not available	integrative model building	https://integrativemodeling.org
3	MODELLER	Not available	model building	https://salilab.org/modeller/

Data quality ?

Crosslinking-MS

Validation for this section is under development.

Model quality ?

For models with atomic structures, molprobability analysis is performed. For models with coarse-grained or multi-scale structures, excluded volume analysis is performed.

Standard geometry: bond outliers ?

Bond length outliers can not be evaluated for this model

Standard geometry: angle outliers?

There are 9201 angle outliers in this entry. A summary is provided below, and a detailed list of outliers can be found [here](#).

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	67.72	1
N-CA-CB	110.50	146.35	1
CA-C-O	120.80	85.93	1
C-CA-CB	110.50	80.30	1
CA-CB-CG	113.80	93.76	1
C-N-CA	121.70	157.24	1
C-N-CA	121.70	156.07	1
C-N-CA	121.70	155.79	1
C-CA-CB	111.40	146.54	1
C-N-CA	121.70	154.96	1
CA-CB-CG	113.80	132.14	1
CA-CB-CG	113.80	95.47	1
CA-CB-CG	113.80	95.70	1
CA-C-O	120.80	90.54	1
C-N-CA	121.70	153.46	1
CA-CB-CG	113.80	131.39	1
C-N-CA	121.70	153.14	1
CA-CB-CG	113.80	96.54	1
N-CA-CB	110.50	139.58	1
C-N-CA	121.70	152.47	1
CA-C-N	116.20	150.02	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-N-CA	121.70	152.00	1
C-N-CA	121.70	151.45	1
C-N-CA	121.70	151.41	1
C-CA-CB	110.10	141.15	1
CA-CB-CG	113.80	97.58	1
CA-CB-CG	113.80	97.68	1
C-N-CA	121.70	150.43	1
CA-CB-CG	113.80	97.94	1
C-N-CA	121.70	150.05	1
C-N-CA	121.70	149.93	1
C-N-CA	121.70	149.74	1
C-N-CA	121.70	149.65	1
C-N-CA	121.70	149.54	1
C-N-CA	121.70	149.39	1
C-N-CA	121.70	149.28	1
N-CA-CB	110.50	136.53	1
C-N-CA	121.70	149.19	1
C-N-CA	121.70	149.12	1
C-CA-CB	110.10	81.19	1
CA-C-N	116.20	146.43	1
C-CA-CB	110.10	81.47	1
CA-C-O	120.80	95.19	1
CA-C-N	116.20	146.32	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-C-N	116.20	146.24	1
N-CA-CB	110.50	135.99	1
C-N-CA	121.70	148.63	1
CA-C-N	116.20	145.85	1
C-N-CA	121.70	148.33	1
C-N-CA	121.70	148.31	1
N-CA-CB	110.50	135.54	1
CA-CB-CG	112.60	98.04	1
C-N-CA	121.70	147.82	1
N-CA-C	112.10	148.29	1
C-CA-CB	110.10	137.51	1
CA-C-N	116.20	144.90	1
CA-CB-CG	113.80	99.46	1
N-CA-C	112.10	147.92	1
CA-CB-CG	113.80	99.49	1
N-CA-CB	110.50	134.69	1
CA-CB-CG2	110.40	86.24	1
N-CA-CB	110.50	134.57	1
CA-C-N	116.20	87.96	1
C-N-CA	121.70	147.09	1
C-N-CA	121.70	147.04	1
CG1-CB-CG2	110.70	152.90	1
N-CA-C	111.00	71.63	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	134.39	1
C-N-CA	121.70	146.93	1
C-N-CA	121.70	146.75	1
CA-C-N	116.20	143.68	1
CA-C-N	116.20	143.62	1
C-N-CA	121.70	146.34	1
C-CA-CB	110.10	84.15	1
CA-CB-CG	113.80	100.16	1
CA-C-N	116.20	143.24	1
CA-C-O	120.80	97.89	1
CA-CB-CG	113.80	127.23	1
CA-C-N	116.20	142.95	1
CA-C-N	116.20	142.85	1
CA-C-N	116.20	142.83	1
C-CA-CB	110.10	84.84	1
N-CA-C	111.00	74.14	1
C-CA-CB	110.10	135.11	1
C-CA-CB	110.10	135.04	1
CA-CB-CG	113.80	100.67	1
O-C-N	123.00	102.07	1
N-CA-CB	111.50	133.69	1
C-N-CA	121.70	145.15	1
N-CA-CB	111.50	133.62	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-C	112.10	144.50	1
C-N-CA	121.70	144.99	1
C-N-CA	121.70	144.95	1
C-N-CA	121.70	144.93	1
C-N-CA	121.70	144.89	1
N-CA-CB	110.50	132.38	1
CA-C-N	116.20	141.88	1
N-CA-CB	110.40	129.62	1
CA-C-N	116.20	141.76	1
C-CA-CB	110.10	134.34	1
C-N-CA	121.70	144.64	1
C-CA-CB	110.10	85.98	1
CA-C-N	116.20	141.50	1
C-CA-CB	110.10	134.11	1
CA-C-N	116.20	141.39	1
CA-C-N	116.20	141.38	1
CA-C-N	116.20	141.17	1
C-N-CA	121.70	144.17	1
CA-C-N	116.20	141.05	1
C-N-CA	121.70	99.37	1
C-N-CA	121.70	143.98	1
N-CA-CB	110.50	131.54	1
C-N-CA	121.70	143.96	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-C-N	116.20	140.92	1
CA-C-N	116.20	140.85	1
N-CA-CB	110.50	131.45	1
C-N-CA	121.70	143.88	1
CA-CB-CG	113.80	101.48	1
N-CA-CB	110.40	128.86	1
C-N-CA	121.70	143.84	1
N-CA-C	111.00	76.60	1
CA-C-N	116.20	140.76	1
N-CA-CB	110.50	131.36	1
C-N-CA	121.70	143.76	1
N-CA-CB	110.40	128.74	1
C-CA-CB	110.10	86.96	1
C-CA-CB	110.10	133.22	1
N-CA-C	111.00	76.98	1
C-CA-CB	110.10	87.02	1
N-CA-CB	110.50	131.13	1
N-CA-C	111.00	77.04	1
N-CA-CB	110.50	131.10	1
C-N-CA	121.70	143.49	1
N-CA-CB	110.50	131.07	1
N-CA-CB	110.50	131.05	1
C-N-CA	121.70	143.41	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-N-CA	121.70	143.40	1
C-N-CA	121.70	143.39	1
C-N-CA	121.70	100.01	1
CA-C-N	116.20	140.29	1
C-CA-CB	110.10	132.98	1
C-N-CA	121.70	143.37	1
N-CA-CB	110.50	130.96	1
C-CA-CB	110.10	132.93	1
C-N-CA	121.70	143.31	1
N-CA-C	111.00	144.56	1
N-CA-CB	110.50	130.87	1
CA-C-N	116.20	140.11	1
CA-CB-CG	113.80	101.86	1
N-CA-CB	110.40	128.28	1
N-CA-C	111.00	77.66	1
C-CA-CB	110.10	87.49	1
CA-C-N	116.20	139.96	1
N-CA-CB	110.50	130.63	1
C-N-CA	121.70	143.00	1
C-CA-CB	111.40	88.92	1
CA-C-N	116.20	139.84	1
N-CA-CB	110.50	130.58	1
N-CA-CB	111.50	131.53	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	130.51	1
CD1-CG-CD2	110.80	84.91	1
N-CA-CB	110.40	128.05	1
CA-C-N	116.20	139.69	1
C-N-CA	121.70	142.83	1
CA-C-N	116.20	92.72	1
C-N-CA	121.70	142.80	1
CA-C-O	120.80	100.89	1
N-CA-CB	110.50	130.34	1
CA-C-N	116.20	139.51	1
C-N-CA	121.70	142.68	1
C-CA-CB	111.40	133.50	1
C-CA-CB	110.50	127.86	1
CA-CB-CG	113.80	102.23	1
N-CA-C	111.00	143.38	1
N-CA-CB	111.50	131.11	1
C-N-CA	121.70	142.44	1
C-N-CA	121.70	101.03	1
C-N-CA	121.70	142.36	1
C-N-CA	121.70	142.34	1
CA-C-N	116.90	134.08	1
N-CA-CB	110.50	129.95	1
N-CA-C	111.00	78.98	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
O-C-N	123.00	104.77	1
CA-C-N	116.20	138.89	1
C-CA-CB	110.10	88.55	1
C-N-CA	121.70	142.09	1
N-CA-CB	110.40	127.38	1
N-CA-CB	111.50	130.69	1
CA-C-N	116.20	138.75	1
CA-C-N	116.20	138.74	1
CA-C-N	116.20	138.73	1
CA-CB-CG	112.60	101.35	1
C-CA-CB	110.10	88.74	1
C-N-CA	121.70	141.91	1
C-N-CA	121.70	141.89	1
C-CA-CB	110.10	131.32	1
N-CA-CB	110.40	127.15	1
N-CA-C	111.00	142.26	1
CA-C-N	116.90	133.64	1
N-CA-C	111.00	142.23	1
C-CA-CB	110.10	88.92	1
N-CA-C	113.30	81.04	1
C-CA-CB	110.50	127.19	1
C-N-CA	121.70	141.68	1
C-N-CA	121.70	141.67	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	109.10	84.70	1
C-N-CA	121.70	141.62	1
N-CA-CB	110.40	126.99	1
CA-C-N	116.20	138.30	1
N-CA-CB	110.50	129.29	1
N-CA-C	111.00	141.92	1
C-N-CA	121.70	141.57	1
N-CA-CB	110.40	126.95	1
N-CA-CB	110.50	129.23	1
CA-C-N	116.90	133.42	1
CA-C-N	116.20	138.22	1
N-CA-C	111.00	80.22	1
CA-CB-CG	113.80	102.81	1
N-CA-CB	111.50	92.84	1
CA-CB-CG	112.60	101.63	1
C-N-CA	121.70	141.45	1
C-N-CA	121.70	141.40	1
CB-CG-CD	112.60	94.00	1
C-N-CA	121.70	141.36	1
N-CA-CB	111.50	130.07	1
N-CA-CB	110.50	129.05	1
C-N-CA	121.70	141.34	1
N-CA-CB	111.50	130.04	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	92.00	1
C-N-CA	121.70	141.28	1
N-CA-CB	110.50	92.09	1
N-CA-CB	111.50	129.90	1
O-C-N	123.00	105.68	1
C-N-CA	121.70	141.17	1
N-CA-CB	110.40	126.60	1
N-CA-CB	110.50	128.86	1
N-CA-CB	110.40	126.56	1
N-CA-C	111.00	80.84	1
N-CA-CB	111.50	129.77	1
C-N-CA	121.70	141.01	2
CA-CB-CG	113.80	103.09	1
C-CA-CB	110.50	126.53	1
C-CA-CB	111.40	91.12	1
N-CA-CB	110.40	126.36	1
N-CA-CB	111.50	129.58	1
C-CA-CB	110.10	130.31	1
N-CA-CB	110.50	128.57	1
C-N-CA	121.70	140.81	1
CA-C-N	116.20	137.42	1
C-N-CA	121.70	102.60	1
CA-CB-CG	112.60	101.99	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.40	126.31	1
C-N-CA	121.70	140.79	1
C-N-CA	121.70	140.78	1
C-CA-CB	110.10	89.98	1
CA-C-N	116.20	137.37	1
N-CA-CB	110.40	126.27	2
N-CA-CB	111.50	129.47	1
C-N-CA	121.70	140.67	1
N-CA-CB	110.50	128.41	1
CA-CB-CG	113.80	103.27	1
C-N-CA	121.70	140.63	1
N-CA-CB	110.40	126.17	1
CA-CB-CG	113.80	103.31	1
C-N-CA	121.70	140.56	1
N-CA-CB	110.40	126.09	1
N-CA-C	111.00	81.79	1
N-CA-C	112.10	138.16	1
N-CA-CB	110.50	128.20	1
C-CA-CB	110.10	129.86	1
C-N-CA	121.70	140.42	1
N-CA-C	112.10	138.05	1
C-CA-CB	110.10	129.78	1
N-CA-CB	110.40	125.93	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-N-CA	121.70	140.30	1
CB-CG-CD2	110.70	141.70	1
C-N-CA	121.70	140.29	1
CA-C-N	116.20	136.84	1
N-CA-CB	111.50	129.04	1
C-CA-CB	111.40	130.99	1
N-CA-CB	110.50	128.02	1
CA-C-N	116.20	136.79	1
CA-C-N	116.20	136.77	1
O-C-N	123.00	106.55	1
C-N-CA	121.70	140.20	1
O-C-N	123.00	106.56	1
N-CA-CB	110.50	127.96	1
C-CA-CB	110.10	129.60	1
N-CA-CB	110.40	125.77	1
CA-CB-CG	112.60	102.35	1
C-CA-CB	110.10	129.56	1
C-CA-CB	110.50	125.86	1
N-CA-CB	110.40	125.76	3
CD1-CG-CD2	110.80	88.28	1
CA-C-N	116.90	132.24	2
N-CA-CB	110.40	125.73	1
C-CA-CB	110.10	129.50	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-N-CA	121.70	140.06	1
C-CA-CB	110.10	129.46	1
C-CA-CB	110.50	95.22	1
N-CA-CB	110.40	125.68	1
CA-C-N	116.20	136.56	1
CA-C-N	116.90	132.17	1
N-CA-C	111.00	82.55	1
C-N-CA	121.70	139.98	1
CA-CB-CG	113.80	123.95	1
C-N-CA	121.70	139.92	1
N-CA-CB	110.40	125.55	1
CA-CB-CG	113.80	103.70	1
N-CA-CB	111.50	128.67	1
N-CA-CB	110.50	127.66	1
N-CA-CB	110.40	125.54	1
C-CA-CB	110.10	90.94	1
C-N-CA	121.70	103.58	1
N-CA-CB	111.50	128.61	1
N-CA-CB	110.50	127.58	1
CA-CB-CG	113.80	103.76	1
CA-CB-CG	113.80	103.77	1
N-CA-CB	110.50	127.55	1
N-CA-C	112.10	137.17	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	127.53	2
C-N-CA	121.70	139.73	1
N-CA-CB	110.50	127.52	1
N-CA-CB	110.50	127.51	2
N-CA-CB	110.50	127.46	1
N-CA-CB	110.40	125.36	1
N-CA-CB	110.40	125.35	1
CA-C-N	116.20	136.13	1
N-CA-C	112.10	137.00	1
C-N-CA	121.70	139.62	1
N-CA-CB	110.40	125.32	1
C-CA-CB	111.60	131.48	1
O-C-N	123.00	107.10	1
N-CA-CB	110.40	125.28	1
C-CA-CB	110.10	128.93	1
N-CA-CB	111.50	128.34	1
C-CA-CB	110.10	91.28	1
N-CA-CB	110.50	127.33	1
C-CA-CB	110.10	128.89	1
C-N-CA	121.70	139.50	1
CA-CB-CG2	110.40	93.60	1
C-CA-CB	110.10	128.85	1
N-CA-C	111.00	138.63	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.40	125.18	1
N-CA-CB	110.40	125.16	1
N-CA-CB	110.50	127.22	1
C-N-CA	121.70	104.01	1
N-CA-CB	110.50	127.20	1
C-CA-CB	111.60	131.22	1
N-CA-CB	110.50	127.18	2
C-N-CA	121.70	139.35	1
N-CA-CB	110.50	127.16	1
C-N-CA	121.70	139.34	1
C-CA-CB	110.10	91.51	1
CA-CB-CG1	110.40	127.03	1
N-CA-CB	110.50	127.12	2
C-CA-CB	110.10	128.66	1
N-CA-CB	110.50	127.10	1
CA-C-N	116.20	135.72	1
C-N-CA	121.70	139.26	1
CA-C-N	116.20	135.70	1
N-CA-CB	110.50	127.03	1
CA-C-N	116.20	135.65	1
C-N-CA	121.70	139.20	1
N-CA-C	111.00	83.78	1
N-CA-CB	110.50	93.98	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-C-O	120.80	104.29	1
CA-CB-CG	113.80	104.09	1
N-CA-CB	110.50	127.00	1
CA-C-N	116.20	135.58	1
C-CA-CB	111.40	92.99	1
N-CA-CB	110.40	124.93	1
CA-CB-CG	113.80	104.12	2
N-CA-CB	110.40	124.91	1
N-CA-CB	110.50	126.92	1
N-CA-CB	110.40	124.88	1
C-N-CA	121.70	139.07	1
C-N-CA	121.70	139.05	1
CA-C-N	116.90	131.35	1
C-N-CA	121.70	139.00	1
C-CA-CB	110.10	128.35	1
C-N-CA	121.70	138.98	1
CG1-CB-CG2	110.80	131.92	1
C-N-CA	121.70	138.96	1
N-CA-CB	110.40	124.78	1
C-CA-CB	110.50	96.15	1
N-CA-CB	110.50	126.76	1
N-CA-CB	110.50	126.75	1
N-CA-CB	110.40	124.72	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-N-CA	121.70	138.88	1
N-CA-C	111.00	137.72	1
C-CA-CB	110.10	128.21	1
C-CA-CB	111.40	93.31	1
N-CA-CB	110.40	124.68	1
C-N-CA	121.70	104.58	1
C-CA-CB	110.50	124.76	1
C-CA-CB	110.10	128.13	1
N-CA-CB	110.50	126.63	1
C-N-CA	121.70	138.76	1
O-C-N	123.00	107.84	1
N-CA-CB	110.50	126.60	1
CB-CG1-CD1	113.80	93.92	1
CG1-CB-CG2	110.80	131.62	1
N-CA-CB	110.50	126.58	1
C-CA-CB	110.10	128.07	1
N-CA-CB	110.40	124.58	1
CA-CB-CG	113.80	104.35	1
C-CA-CB	110.10	92.15	1
CA-CB-CG	113.80	104.36	1
C-N-CA	121.70	138.68	1
N-CA-CB	110.40	124.54	1
N-CA-CB	110.40	124.52	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	126.50	1
C-CA-CB	110.10	127.98	1
CA-CB-CG	113.80	104.39	1
C-CA-CB	110.10	127.97	1
N-CA-CB	111.50	127.49	1
N-CA-C	111.00	84.67	1
CA-C-N	116.20	135.01	1
C-N-CA	121.70	138.61	1
CA-C-N	116.20	134.98	1
CA-C-N	116.20	134.97	1
CB-CG-CD	111.30	132.89	1
N-CA-CB	110.50	126.45	1
N-CA-CB	110.50	126.44	1
N-CA-CB	110.50	126.43	1
C-CA-CB	110.10	127.89	1
CA-C-N	116.20	134.92	2
CA-CB-CG1	110.40	126.31	1
N-CA-C	112.10	135.49	1
N-CA-CB	110.40	124.43	1
C-N-CA	121.70	138.52	1
N-CA-CB	110.50	126.39	1
CA-C-N	116.20	134.89	1
C-CA-CB	110.10	127.84	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	126.36	1
C-N-CA	121.70	104.91	2
N-CA-C	111.00	137.12	1
N-CA-CB	110.50	126.34	1
C-CA-CB	111.40	129.11	1
N-CA-CB	110.40	124.38	1
C-N-CA	121.70	104.93	1
N-CA-CB	110.50	126.33	1
CA-CB-CG1	110.40	126.23	1
CA-CB-CG	113.80	123.11	1
C-CA-CB	110.10	127.78	1
N-CA-CB	110.50	126.32	1
N-CA-CB	110.50	126.31	1
C-N-CA	121.70	104.97	1
C-CA-CB	110.10	127.76	1
N-CA-CB	111.50	127.30	1
C-CA-CB	110.10	127.75	1
CA-C-N	116.20	134.77	1
C-CA-CB	111.60	130.16	1
N-CA-CB	110.50	126.27	1
CA-C-N	116.20	134.74	1
C-N-CA	121.70	138.38	1
N-CA-CB	110.40	124.29	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG	113.80	104.55	1
N-CA-CB	110.40	124.28	1
N-CA-CB	110.50	126.22	1
N-CA-CB	110.40	124.26	1
C-N-CA	121.70	138.33	1
N-CA-CB	110.50	126.19	1
CA-CB-CG	112.60	103.37	1
C-N-CA	121.70	138.30	1
N-CA-C	111.00	85.18	1
CA-C-N	116.20	134.63	1
CG1-CB-CG2	110.70	138.34	1
N-CA-CB	110.40	124.22	1
N-CA-CB	110.50	126.15	1
C-N-CA	121.70	138.27	1
N-CA-CB	110.40	124.21	1
C-CA-CB	111.60	130.01	1
CA-CB-CG	113.80	104.60	1
N-CA-CB	110.50	126.14	2
C-CA-CB	110.50	124.30	1
N-CA-CB	110.40	124.20	1
C-N-CA	121.70	138.24	1
N-CA-CB	110.50	126.12	2
C-CA-CB	110.50	124.27	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-C	111.00	85.34	1
N-CA-CB	110.40	124.14	2
N-CA-CB	110.40	124.13	1
C-CA-CB	110.10	92.71	1
N-CA-CB	111.50	127.05	1
C-N-CA	121.70	138.16	1
N-CA-CB	110.40	124.11	1
C-CA-CB	110.10	92.75	1
N-CA-CB	111.50	127.02	1
N-CA-CB	110.40	124.09	2
C-N-CA	121.70	138.13	1
CA-C-N	116.20	134.44	1
C-N-CA	121.70	138.12	2
N-CA-CB	111.50	127.00	1
CD-NE-CZ	124.40	111.64	1
N-CA-CB	110.40	124.07	1
N-CA-CB	110.50	125.99	1
C-N-CA	121.70	138.10	1
N-CA-CB	110.50	125.98	1
C-CA-CB	110.10	127.40	1
N-CA-CB	110.40	124.05	1
N-CA-CB	110.50	125.97	1
N-CA-CB	110.50	125.96	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	111.50	126.96	1
CA-CB-CG	112.60	103.51	1
N-CA-CB	110.50	125.95	1
N-CA-CB	110.50	125.94	1
C-N-CA	121.70	138.05	1
CA-CB-CG	112.60	103.52	2
CA-C-N	116.20	134.33	1
CA-C-N	116.90	130.50	1
N-CA-CB	110.50	125.90	1
CA-C-N	116.20	134.31	1
CA-CB-CG	112.60	103.55	1
N-CA-CB	103.00	112.95	1
CA-CB-CG	112.60	103.56	1
N-CA-CB	110.40	123.96	1
CA-C-N	116.90	130.46	1
N-CA-C	112.10	134.70	1
C-CA-CB	110.10	127.28	1
N-CA-CB	110.40	123.95	1
CA-C-N	116.20	134.26	1
CA-CB-CG	113.80	104.77	1
N-CA-CB	110.50	125.85	1
N-CA-CB	111.50	126.84	1
CA-CB-CG	112.60	103.58	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.40	123.93	1
N-CA-CB	111.50	126.83	1
CA-CB-CG	113.80	104.78	1
N-CA-C	111.00	136.24	1
C-N-CA	121.70	137.91	1
CA-CB-CG	113.80	104.81	1
C-N-CA	121.70	137.89	1
C-CA-CB	110.10	127.18	1
C-CA-CB	110.50	123.98	1
N-CA-CB	110.40	123.88	1
CA-C-N	116.20	134.17	1
CA-CB-CG	112.60	103.62	1
N-CA-CB	110.50	125.76	3
N-CA-CB	110.40	123.86	1
N-CA-CB	110.50	125.75	1
N-CA-CB	111.50	126.75	1
N-CA-CB	110.40	123.85	2
C-CA-CB	110.10	93.07	1
O-C-N	123.00	108.66	1
N-CA-CB	110.50	125.73	1
C-N-CA	121.70	137.83	1
N-CA-CB	110.40	123.84	1
N-CA-CB	110.50	125.72	3

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.40	123.83	1
N-CA-CB	110.50	125.71	2
N-CA-CB	110.40	123.82	1
N-CA-CB	103.00	112.84	1
CA-CB-CG	113.80	104.86	1
C-CA-CB	110.10	127.08	1
N-CA-CB	110.40	123.80	1
C-N-CA	121.70	137.78	1
CA-CB-CG2	110.50	125.68	1
CA-C-N	116.20	134.06	1
C-N-CA	121.70	137.77	1
CA-C-N	116.20	134.05	1
C-N-CA	121.70	137.76	1
N-CA-CB	110.40	123.78	1
CG1-CB-CG2	110.80	130.39	1
N-CA-CB	110.50	125.63	1
N-CA-CB	110.50	125.62	2
CA-CB-CG	113.80	104.91	1
N-CA-CB	110.50	125.61	2
CA-C-O	120.80	105.69	1
N-CA-CB	110.50	125.60	1
N-CA-CB	111.50	126.59	1
C-CA-CB	111.60	129.35	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	125.59	1
CA-C-N	116.20	133.95	1
C-CA-CB	110.10	126.95	1
C-N-CA	121.70	137.67	1
N-CA-CB	110.40	123.70	1
N-CA-CB	111.50	126.57	1
N-CA-CB	110.50	125.56	1
N-CA-CB	110.50	125.53	1
C-N-CA	121.70	105.80	1
CA-C-N	116.20	133.85	1
N-CA-CB	110.50	125.51	1
N-CA-CB	110.50	125.50	1
CA-CB-CG2	110.50	125.50	1
N-CA-CB	110.40	123.63	1
CA-C-N	116.20	133.84	1
CA-C-N	116.90	130.12	1
N-CA-CB	110.40	123.62	2
C-N-CA	121.70	137.57	1
C-N-CA	121.70	137.56	2
N-CA-CB	110.50	125.48	1
N-CA-CB	110.50	125.47	1
N-CA-CB	110.40	123.60	1
C-N-CA	121.70	137.54	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CG1-CB-CG2	110.80	130.16	1
C-CA-CB	111.60	129.20	1
N-CA-CB	110.50	95.55	1
N-CA-CB	110.50	125.45	1
C-CA-CB	110.50	123.69	1
N-CA-CB	110.40	123.59	1
N-CA-CB	110.50	125.44	3
C-CA-CB	111.60	129.18	1
N-CA-C	111.00	135.60	1
N-CA-CB	110.50	125.43	1
N-CA-CB	110.50	125.42	1
N-CA-C	112.10	134.04	1
N-CA-CB	110.40	123.56	1
N-CA-CB	110.40	123.55	1
CA-C-N	116.20	133.74	1
N-CA-CB	110.50	125.40	2
N-CA-C	111.00	135.55	1
C-N-CA	121.70	137.47	1
C-CA-CB	110.50	123.64	1
N-CA-CB	110.50	125.39	1
N-CA-CB	110.40	123.54	1
N-CA-CB	110.40	123.53	2
CA-C-N	116.20	133.71	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	125.38	1
C-N-CA	121.70	137.46	1
C-CA-CB	110.10	126.73	1
N-CA-CB	110.50	125.36	2
N-CA-CB	110.40	123.50	1
C-CA-CB	110.50	97.40	1
N-CA-CB	110.50	125.34	1
N-CA-CB	110.50	95.67	1
N-CA-CB	110.50	125.33	2
C-CA-CB	111.40	94.83	1
CB-CG-CD	112.60	127.42	1
C-CA-CB	110.10	126.66	1
C-CA-CB	110.50	97.43	1
N-CA-CB	110.50	125.30	2
CA-C-N	116.90	129.96	1
C-CA-CB	110.10	126.63	2
N-CA-CB	110.40	123.45	1
N-CA-CB	110.50	125.29	2
C-N-CA	121.70	137.36	1
C-CA-CB	110.10	126.62	2
N-CA-CB	110.40	123.44	1
N-CA-C	111.00	86.66	1
N-CA-CB	110.50	125.27	3

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.50	123.53	1
N-CA-CB	110.40	123.42	1
N-CA-CB	110.50	125.25	1
C-CA-CB	110.50	123.51	1
N-CA-CB	110.40	123.41	1
CA-N-CD	112.00	99.87	1
N-CA-CB	110.50	125.23	2
CA-C-N	116.20	133.53	1
N-CA-CB	110.40	123.39	1
N-CA-CB	110.40	123.38	2
CA-C-N	116.90	129.87	1
C-N-CA	121.70	137.26	1
C-CA-CB	110.10	126.52	1
CA-C-N	116.90	129.86	1
N-CA-CB	110.50	125.19	1
CA-CB-CG	114.10	96.83	1
N-CA-CB	110.50	125.17	2
CA-CB-CG	113.90	98.37	1
N-CA-CB	110.40	123.34	1
CA-CB-CG	113.80	105.18	2
N-CA-C	112.10	133.66	1
N-CA-CB	111.50	126.16	1
O-C-N	123.00	136.79	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	125.15	1
CA-C-O	120.80	106.15	1
CA-C-N	116.90	103.98	1
N-CA-CB	110.50	125.14	2
N-CA-CB	110.50	125.13	2
C-N-CA	121.70	137.18	1
N-CA-CB	111.50	126.12	1
N-CA-CB	110.50	125.11	2
CA-CB-CG	112.60	104.01	1
CA-C-O	120.80	106.20	1
N-CA-CB	110.50	125.10	1
N-CA-CB	110.50	125.09	2
C-N-CA	121.70	137.15	1
CA-CB-CG	113.80	105.22	1
N-CA-CB	110.50	125.08	4
C-CA-CB	110.10	126.39	1
N-CA-CB	110.50	125.07	1
CA-C-N	116.20	133.34	1
N-CA-CB	110.40	123.25	1
N-CA-CB	110.50	125.06	1
O-C-N	123.00	109.31	1
N-CA-C	111.00	87.04	1
N-CA-C	111.00	134.96	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-C-N	116.20	133.31	1
C-N-CA	121.70	106.30	1
N-CA-CB	110.40	123.23	1
N-CA-CB	110.50	125.04	1
CA-C-N	116.20	133.30	1
C-N-CA	121.70	137.09	1
N-CA-CB	110.50	125.03	1
CA-C-O	120.80	106.28	1
N-CA-CB	110.40	123.21	1
C-N-CA	121.70	137.07	1
N-CA-CB	110.50	125.01	1
N-CA-CB	110.40	123.20	1
C-CA-CB	110.50	123.30	1
CA-CB-CG	113.80	105.27	1
N-CA-CB	110.40	123.19	1
N-CA-CB	110.50	125.00	1
N-CA-CB	110.50	124.99	1
C-CA-CB	110.10	126.30	1
C-N-CA	121.70	137.04	1
N-CA-CB	110.50	124.98	3
N-CA-CB	110.40	123.16	1
C-CA-CB	110.10	126.27	1
N-CA-CB	110.50	124.97	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	111.60	94.58	1
C-N-CA	121.70	137.01	2
N-CA-CB	110.50	124.96	1
N-CA-C	111.00	87.19	1
N-CA-CB	110.50	124.95	1
N-CA-CB	110.50	124.94	2
N-CA-CB	110.40	123.14	1
C-CA-CB	110.10	93.99	1
CA-C-N	116.20	133.15	2
C-CA-CB	111.60	128.55	1
O-C-N	123.00	109.44	1
C-CA-CB	110.10	126.20	1
N-CA-CB	110.50	124.90	1
N-CA-CB	110.50	124.89	2
N-CA-CB	110.40	123.09	1
C-CA-CB	110.50	123.19	1
N-CA-CB	110.50	124.88	1
CA-C-N	116.90	129.58	1
N-CA-CB	110.50	124.87	1
N-CA-CB	110.40	123.08	2
N-CA-CB	110.50	124.86	3
CA-C-O	120.80	106.44	1
N-CA-CB	110.50	124.85	3

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-C	113.30	88.83	1
CA-CB-CG2	110.50	96.16	1
N-CA-CB	110.50	124.84	2
CB-CG-CD2	126.80	115.00	1
N-CA-CB	110.40	123.04	1
C-N-CA	121.70	136.86	1
N-CA-CB	110.40	123.03	1
CB-CG-CD	112.60	98.28	1
N-CA-CB	111.50	125.82	1
CD1-CG-CD2	110.80	129.33	1
C-CA-CB	110.10	126.09	1
C-N-CA	121.70	136.85	1
N-CA-CB	110.50	124.81	1
N-CA-CB	111.50	125.80	1
N-CA-CB	110.50	124.80	3
CD1-CG-CD2	118.60	105.98	1
C-N-CA	121.70	136.83	2
C-CA-CB	110.10	94.13	1
N-CA-CB	110.50	124.78	1
N-CA-C	113.30	88.94	1
N-CA-C	111.00	87.48	1
N-CA-CB	110.50	124.77	2
N-CA-CB	110.40	122.99	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-C	112.10	133.09	1
C-CA-CB	110.10	126.05	1
N-CA-CB	110.50	124.75	3
N-CA-CB	111.50	125.75	1
N-CA-CB	110.40	122.97	1
N-CA-CB	110.50	124.73	1
C-CA-CB	110.50	123.05	1
C-N-CA	121.70	136.76	1
N-CA-CB	111.50	125.72	2
N-CA-CB	110.50	124.71	1
N-CA-CB	110.40	122.94	1
C-N-CA	121.70	136.75	2
N-CA-CB	110.40	122.93	3
N-CA-CB	110.50	124.69	1
C-CA-CB	111.60	94.90	1
C-CA-CB	110.10	125.96	1
N-CA-CB	110.50	124.68	1
C-N-CA	121.70	106.69	1
N-CA-CB	110.50	124.67	1
N-CA-CB	111.50	125.67	1
N-CA-C	112.10	132.92	1
N-CA-CB	111.50	125.66	1
N-CA-CB	110.50	124.66	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	124.64	1
CA-CB-CG1	110.40	124.54	1
N-CA-CB	111.50	125.64	1
N-CA-CB	110.40	122.86	1
N-CA-CB	110.50	124.62	1
C-CA-CB	110.10	125.88	2
N-CA-CB	110.50	124.61	3
C-CA-CB	110.50	122.95	1
N-CA-CB	110.40	122.85	2
CA-C-N	116.20	132.79	1
O-C-N	123.00	109.73	1
C-N-CA	121.70	136.63	1
N-CA-CB	110.40	122.84	1
N-CA-CB	111.50	125.60	1
N-CA-CB	110.50	124.59	2
C-CA-CB	110.10	125.85	1
C-CA-CB	110.50	122.93	1
N-CA-CB	110.40	122.83	1
N-CA-CB	110.50	124.58	1
C-CA-CB	110.10	94.37	1
CB-CG-CD1	126.90	139.31	1
C-CA-CB	110.10	125.82	1
N-CA-CB	110.50	124.56	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	103.00	112.10	1
CA-CB-CG	113.80	105.53	1
N-CA-CB	110.50	124.55	2
N-CA-CB	110.40	122.80	1
N-CA-CB	110.40	122.79	1
C-CA-CB	111.60	128.12	1
N-CA-CB	110.50	124.54	1
C-CA-CB	110.50	122.89	1
C-CA-CB	110.10	125.79	1
C-N-CA	121.70	136.56	1
C-CA-CB	110.50	122.88	1
N-CA-CB	110.50	124.52	3
N-CA-CB	110.40	122.77	2
N-CA-CB	110.50	124.51	2
N-CA-CB	111.50	125.51	1
CA-C-N	116.20	132.69	1
CA-CB-CG2	110.50	124.50	1
N-CA-C	113.30	89.41	1
C-CA-CB	110.10	125.75	1
N-CA-CB	110.50	124.50	1
N-CA-CB	110.50	124.49	4
C-N-CA	121.70	136.52	1
C-CA-CB	109.10	90.99	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-C-N	116.20	132.65	1
N-CA-CB	110.50	124.48	1
C-N-CA	121.70	136.51	1
N-CA-CB	110.40	122.74	2
C-N-CA	121.70	136.50	1
N-CA-CB	110.40	122.73	1
N-CA-CB	110.50	124.47	1
N-CA-CB	110.50	124.46	2
C-CA-CB	110.50	98.18	1
C-CA-CB	110.10	125.70	1
C-CA-CB	110.50	122.82	1
N-CA-CB	110.50	124.45	1
N-CA-CB	111.50	125.45	1
C-CA-CB	111.40	126.99	1
C-CA-CB	110.10	125.69	1
O-C-N	123.00	109.88	1
C-CA-CB	110.10	125.68	1
N-CA-CB	110.40	122.70	1
N-CA-CB	110.50	124.44	2
N-CA-C	111.00	133.95	1
C-CA-CB	110.10	94.53	1
N-CA-CB	110.50	124.43	1
N-CA-CB	110.40	122.69	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	124.42	3
C-N-CA	121.70	136.43	1
C-CA-CB	110.10	125.65	1
N-CA-C	111.00	88.10	1
CG1-CB-CG2	110.80	128.79	1
C-CA-CB	111.60	127.95	1
CA-C-N	116.20	99.85	1
N-CA-CB	110.50	124.40	1
N-CA-CB	110.40	122.66	1
C-CA-CB	110.10	125.62	1
N-CA-CB	110.40	122.65	1
CA-C-N	116.20	132.53	2
N-CA-CB	111.50	125.38	1
N-CA-CB	110.50	124.38	1
CA-CB-CG	113.80	105.64	2
C-CA-CB	110.10	94.59	1
N-CA-CB	110.50	124.37	1
N-CA-C	112.10	132.50	1
N-CA-C	111.00	88.15	1
C-CA-CB	110.50	122.74	1
CA-C-N	116.20	132.51	1
CG1-CB-CG2	110.80	128.73	1
N-CA-CB	110.50	124.35	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	94.62	1
C-CA-CB	111.60	95.31	1
N-CA-CB	110.50	124.34	4
N-CA-CB	110.40	122.61	1
N-CA-CB	111.50	125.34	1
CA-C-N	116.20	132.48	1
C-CA-CB	110.10	125.56	1
N-CA-CB	110.50	124.33	1
N-CA-CB	111.50	125.33	1
O-C-N	123.00	109.99	2
CA-C-N	116.20	132.46	1
C-CA-CB	109.10	126.98	1
CA-CB-CG	113.80	105.67	1
N-CA-CB	110.50	124.31	2
N-CA-CB	110.40	122.59	1
N-CA-CB	110.40	122.58	2
O-C-N	123.00	110.01	2
C-CA-CB	110.10	125.52	1
C-CA-CB	111.40	95.98	1
N-CA-CB	110.50	124.30	2
NE-CZ-NH2	119.20	126.50	1
N-CA-CB	110.40	122.57	1
N-CA-CB	110.50	124.29	3

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-N-CA	121.70	136.30	1
C-N-CA	121.70	136.29	1
CA-CB-CG	113.80	105.69	1
C-CA-CB	110.50	122.66	1
N-CA-CB	110.50	124.28	1
N-CA-CB	103.00	111.91	1
C-N-CA	121.70	136.28	2
CA-CB-CG	112.60	104.50	1
O-C-N	123.00	110.04	1
N-CA-CB	110.50	124.26	3
C-N-CA	121.70	107.13	1
N-CA-CB	110.40	122.54	1
C-CA-CB	110.10	125.47	1
N-CA-CB	110.50	124.25	4
N-CA-CB	110.50	124.24	1
N-CA-C	111.00	88.37	1
N-CA-CB	110.40	122.52	2
N-CA-CB	110.50	124.23	2
N-CA-C	111.00	133.61	1
CA-CB-CG	113.80	105.72	1
CA-CB-CG2	110.50	124.22	1
N-CA-CB	110.50	124.22	1
CA-CB-CG	113.80	105.73	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-C-N	116.20	132.33	1
N-CA-CB	110.50	124.21	2
CA-C-O	120.80	107.10	1
N-CA-CB	111.50	125.19	1
N-CA-CB	110.50	124.19	2
CA-CB-CG	113.80	105.75	1
C-N-CA	121.70	136.19	1
N-CA-CB	110.40	122.47	2
O-C-N	123.00	110.12	1
C-CA-CB	110.10	125.39	1
N-CA-CB	110.50	124.17	3
CA-C-N	116.20	132.28	1
C-CA-CB	110.50	122.56	1
N-CA-C	111.00	133.51	1
C-CA-CB	110.10	125.38	1
C-CA-CB	110.10	125.37	1
C-N-CA	121.70	136.16	1
CG1-CB-CG2	110.80	128.46	1
C-CA-CB	110.10	125.35	1
N-CA-CB	110.50	124.15	1
N-CA-CB	110.40	122.44	1
CA-C-N	116.20	100.15	1
N-CA-CB	110.50	96.87	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	124.13	3
C-CA-CB	110.50	122.53	1
N-CA-CB	110.40	122.43	1
CA-C-N	116.20	132.23	1
N-CA-CB	111.50	125.13	1
N-CA-CB	110.40	122.42	1
C-CA-CB	110.10	94.88	1
CA-CB-CG	113.80	105.79	1
N-CA-CB	110.50	124.11	1
C-CA-CB	110.10	94.89	1
N-CA-C	111.00	88.60	1
N-CA-CB	110.40	122.40	1
N-CA-CB	110.50	124.09	2
CG1-CB-CG2	110.80	128.38	1
N-CA-CB	110.50	124.08	3
C-CA-CB	111.40	126.58	1
C-N-CA	121.70	136.08	2
N-CA-CB	111.50	125.08	1
C-N-CA	121.70	136.07	1
N-CA-CB	110.50	124.07	1
N-CA-CB	110.40	122.37	1
C-CA-CB	110.50	122.47	1
N-CA-CB	111.50	125.06	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-N-CA	121.70	107.34	1
C-CA-CB	110.50	122.45	1
N-CA-CB	110.50	124.04	1
C-N-CA	121.70	136.04	2
N-CA-CB	110.40	122.34	3
N-CA-CB	110.50	124.03	2
C-CA-CB	110.50	122.44	1
N-CA-CB	103.00	94.25	1
N-CA-CB	110.50	124.02	1
C-CA-CB	110.10	125.21	1
C-CA-CB	110.50	122.43	1
N-CA-CB	110.50	124.01	4
CA-CB-CG	112.60	104.65	1
N-CA-CB	110.50	124.00	2
N-CA-CB	110.40	122.31	2
CA-CB-CG	112.60	120.54	1
C-N-CA	121.70	107.41	1
N-CA-CB	110.50	123.99	4
N-CA-CB	110.50	123.98	1
CA-CB-CG	113.80	105.87	1
N-CA-C	111.00	133.20	1
O-C-N	123.00	110.32	1
N-CA-CB	110.50	123.97	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG	113.80	105.88	1
N-CA-CB	111.50	124.97	1
CA-C-N	116.90	128.78	1
N-CA-CB	110.40	122.28	1
N-CA-CB	110.50	123.96	1
N-CA-CB	110.50	97.05	1
N-CA-CB	110.50	123.95	1
N-CA-CB	110.40	122.26	1
CA-C-N	116.20	132.01	1
N-CA-CB	110.50	123.94	1
C-CA-CB	110.10	125.12	1
N-CA-CB	110.50	123.93	1
O-C-N	123.00	110.36	2
C-N-CA	121.70	135.92	2
CA-CB-CG	113.80	105.90	1
N-CA-CB	110.50	123.92	3
N-CA-CB	110.40	122.24	1
C-CA-CB	110.10	125.10	1
CA-C-N	116.20	131.98	1
N-CA-CB	110.40	122.23	3
C-N-CA	121.70	135.89	1
N-CA-CB	110.50	123.90	2
N-CA-CB	110.40	122.22	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	123.89	2
N-CA-CB	110.50	123.88	4
C-CA-CB	110.10	125.05	1
N-CA-CB	110.40	122.20	1
CA-CB-CG	112.60	104.74	1
N-CA-CB	110.40	122.19	2
N-CA-C	111.00	133.01	1
CG1-CB-CG2	110.80	128.09	1
CD1-CG-CD2	110.80	128.09	1
N-CA-CB	110.40	122.18	2
C-N-CA	121.70	135.84	2
CA-C-N	116.20	131.90	1
O-C-N	123.00	110.45	1
N-CA-CB	111.50	124.84	1
C-CA-CB	110.10	125.00	2
C-N-CA	121.70	135.82	1
N-CA-CB	110.50	123.82	1
N-CA-C	111.00	89.06	1
N-CA-CB	103.00	111.61	1
N-CA-CB	110.50	123.81	1
CA-C-N	116.90	128.64	1
C-CA-CB	110.10	124.97	2
N-CA-CB	111.50	124.81	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	123.80	1
N-CA-CB	110.40	122.13	1
N-CA-CB	110.50	123.79	2
O-C-N	123.00	135.51	1
CA-CB-CG1	110.40	123.68	1
C-N-CA	121.70	135.76	1
O-C-N	123.00	110.50	1
N-CA-CB	110.40	122.12	1
N-CA-CB	110.50	123.78	2
N-CA-CB	110.50	123.77	1
C-CA-CB	110.10	124.93	2
CA-C-N	116.20	131.81	1
N-CA-CB	110.40	122.11	1
CA-CB-CG	112.60	104.80	1
C-CA-CB	110.50	122.18	1
C-CA-CB	110.10	124.89	1
N-CA-CB	110.50	123.73	2
N-CA-CB	110.40	122.07	2
N-CA-CB	110.50	123.72	1
N-CA-CB	110.40	122.05	1
N-CA-CB	110.50	123.71	2
N-CA-CB	110.50	123.70	3
CA-C-O	120.80	107.60	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-C-N	116.90	128.55	1
N-CA-CB	111.50	124.70	1
CA-CB-CG	112.60	104.84	1
C-CA-CB	110.50	122.14	1
N-CA-CB	110.40	122.04	1
N-CA-C	111.00	132.73	1
N-CA-CB	110.50	123.69	1
CB-CG-CD1	120.70	133.89	1
C-CA-CB	110.10	124.83	1
CA-C-N	116.20	131.70	1
N-CA-CB	110.50	123.68	1
C-N-CA	121.70	107.75	1
N-CA-CB	111.50	124.67	1
CA-CB-CG1	110.40	123.57	1
N-CA-CB	110.40	122.02	1
N-CA-CB	103.00	111.52	1
N-CA-CB	110.50	123.66	3
CA-CB-CG	113.80	106.06	1
C-N-CA	121.70	135.63	1
C-CA-CB	110.10	124.80	1
O-C-N	123.00	110.62	1
N-CA-CB	110.50	123.65	3
C-N-CA	121.70	135.61	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	123.64	4
CG1-CB-CG2	110.80	127.80	1
N-CA-CB	111.50	124.63	2
N-CA-CB	110.50	123.63	2
OG1-CB-CG2	109.30	124.73	1
N-CA-C	111.00	89.40	1
C-N-CA	121.70	107.81	1
N-CA-CB	110.50	123.61	3
N-CA-CB	111.50	124.61	1
N-CA-C	111.00	132.58	1
N-CA-CB	110.40	121.96	1
CA-CB-CG	112.60	104.89	1
CA-C-N	116.20	131.61	1
C-CA-CB	110.10	124.74	1
N-CA-CB	110.50	123.60	1
CA-CB-CG	113.80	106.10	2
C-CA-CB	110.50	122.06	1
C-N-CA	121.70	135.57	1
N-CA-CB	110.50	123.59	2
CA-CB-CG	113.90	100.04	1
O-C-N	123.00	110.68	1
N-CA-CB	111.50	124.59	1
N-CA-CB	110.40	121.95	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	123.58	2
N-CA-CB	110.40	121.94	1
N-CA-CB	110.50	123.57	4
CA-CB-CG	112.60	104.91	2
CA-C-N	116.20	131.57	2
N-CA-CB	111.50	124.57	1
N-CA-CB	110.50	123.56	1
CG1-CB-CG2	110.80	127.69	2
N-CA-CB	110.50	123.55	4
C-N-CA	121.70	135.51	2
CA-CB-CG	112.60	104.93	1
N-CA-CB	110.50	123.54	1
C-N-CA	121.70	107.90	1
C-CA-CB	110.50	99.00	1
N-CA-CB	110.50	123.53	1
C-CA-CB	110.10	124.66	1
N-CA-CB	111.50	124.53	1
C-N-CA	121.70	135.49	1
CA-CB-CG	112.60	104.94	2
N-CA-CB	110.40	121.89	3
CA-C-N	116.20	131.52	1
N-CA-CB	110.50	123.52	3
N-CA-CB	110.50	123.51	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
O-C-N	123.00	110.76	1
N-CA-CB	110.50	123.50	1
C-CA-CB	110.10	124.62	1
N-CA-CB	110.50	123.49	4
N-CA-C	111.00	132.40	1
CG1-CB-CG2	110.80	127.61	2
N-CA-CB	110.40	121.86	1
CA-C-N	116.20	131.48	1
N-CA-CB	110.50	123.48	7
CG1-CB-CG2	110.80	127.60	1
N-CA-CB	110.40	121.85	1
O-C-N	123.00	110.79	1
C-CA-CB	110.10	124.60	1
CA-CB-CG	113.80	106.17	1
N-CA-CB	111.50	124.47	1
CG1-CB-CG2	110.80	127.58	1
N-CA-C	111.00	89.64	1
N-CA-C	113.30	91.18	1
N-CA-CB	110.50	123.47	2
C-CA-CB	110.10	124.59	3
N-CA-C	112.10	131.16	1
N-CA-C	111.00	89.66	1
C-CA-CB	110.10	124.58	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	123.46	1
N-CA-CB	110.50	123.45	4
CA-C-N	116.20	131.43	1
CA-CB-CG2	110.50	123.44	1
N-CA-CB	110.50	123.44	2
N-CA-CB	111.50	124.44	1
O-C-N	123.00	110.82	1
CA-C-O	120.80	107.87	1
N-CA-CB	110.50	123.43	1
CA-C-N	116.20	131.41	1
N-CA-CB	110.40	121.80	1
N-CA-CB	110.50	123.42	3
C-CA-CB	110.10	95.66	1
C-N-CA	121.70	135.38	1
CA-C-N	116.20	131.40	1
N-CA-C	111.00	89.73	1
CA-CB-CG	113.80	106.20	1
N-CA-CB	111.50	124.41	1
N-CA-CB	110.50	123.41	2
C-CA-CB	110.10	124.52	2
N-CA-CB	111.50	124.40	1
C-N-CA	121.70	108.04	1
N-CA-CB	110.50	123.40	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	123.39	2
N-CA-C	111.00	89.77	1
N-CA-CB	111.50	124.39	1
N-CA-CB	110.50	123.38	2
C-CA-CB	110.10	124.48	1
CA-CB-CG	113.80	106.23	1
N-CA-CB	110.50	123.37	1
N-CA-C	111.00	89.81	1
C-CA-CB	111.60	126.73	1
C-CA-CB	110.10	124.47	1
N-CA-CB	110.40	121.75	1
N-CA-CB	110.50	123.35	1
CA-CB-CG1	110.40	123.25	1
CA-C-O	120.80	107.95	1
CG1-CB-CG2	110.80	127.43	2
CA-CB-CG	113.80	121.36	1
N-CA-C	111.00	132.16	1
C-N-CA	121.70	108.11	1
N-CA-CB	110.40	121.73	1
N-CA-CB	110.50	123.34	3
N-CA-CB	110.50	123.33	6
N-CA-C	111.00	89.86	1
CG1-CB-CG2	110.80	127.41	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-N-CA	121.70	135.29	1
N-CA-C	111.00	89.87	1
CG1-CB-CG2	110.80	127.40	1
N-CA-CB	110.40	121.72	2
N-CA-CB	111.50	124.33	1
CG1-CB-CG2	110.80	127.39	2
C-CA-CB	110.10	124.43	1
C-CA-CB	110.50	121.81	1
CA-C-N	116.20	131.28	1
N-CA-CB	110.50	123.32	1
CG1-CB-CG2	110.80	127.38	1
N-CA-CB	111.50	124.31	1
N-CA-CB	110.40	121.70	1
N-CA-CB	110.50	123.31	2
N-CA-C	111.00	89.91	1
CA-CB-CG	113.80	106.27	1
N-CA-CB	110.50	123.30	4
CG1-CB-CG2	110.80	127.37	1
C-N-CA	121.70	108.15	1
CG1-CB-CG2	110.80	127.36	2
C-N-CA	121.70	135.25	1
N-CA-CB	110.40	121.69	1
N-CA-CB	110.50	123.29	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	124.40	1
O-C-N	123.00	110.96	1
CA-C-N	116.20	131.25	1
CA-C-N	116.20	131.24	2
CA-CB-CG1	110.40	123.19	1
N-CA-CB	110.50	123.28	3
CG1-CB-CG2	110.80	127.34	2
CA-CB-CG	112.60	120.12	1
N-CA-CB	111.50	124.28	2
CA-CB-CG	113.80	121.31	1
N-CA-CB	110.50	123.27	2
N-CA-CB	111.50	124.27	1
CG1-CB-CG2	110.80	127.32	1
N-CA-CB	110.50	123.26	5
CA-CB-CG	113.60	99.33	1
CA-C-N	116.90	128.16	1
CG1-CB-CG2	110.80	127.31	1
CA-CB-CG	112.60	120.10	1
C-N-CA	121.70	135.20	2
N-CA-CB	110.40	121.65	2
N-CA-CB	110.50	123.25	4
CG1-CB-CG2	110.80	127.30	1
N-CA-CB	103.00	111.25	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-N-CA	121.70	135.19	1
N-CA-CB	110.50	123.24	7
CA-CB-CG	113.80	106.30	1
CA-CB-CG	113.80	106.31	3
N-CA-CB	111.50	124.24	2
N-CA-C	111.00	131.98	1
N-CA-CB	110.40	121.64	1
N-CA-CB	110.50	123.23	4
N-CA-CB	110.50	123.22	6
N-CA-C	111.00	131.95	1
CA-CB-CG	112.60	105.12	1
CA-CB-CG	113.80	106.32	1
C-CA-CB	110.10	95.89	1
N-CA-CB	111.50	124.21	1
N-CA-CB	110.50	123.21	4
CA-C-O	120.80	108.09	1
CA-C-N	116.20	131.15	1
N-CA-CB	110.40	121.61	1
CA-C-N	116.20	131.14	1
CG1-CB-CG2	110.80	127.23	1
N-CA-CB	110.50	123.20	1
N-CA-CB	110.40	121.60	1
N-CA-CB	110.50	123.19	3

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CG1-CB-CG2	110.80	127.22	2
C-CA-CB	110.10	124.28	1
N-CA-C	111.00	90.11	1
N-CA-C	112.10	130.75	1
CA-C-O	120.80	108.12	1
C-CA-CB	110.50	121.69	1
N-CA-CB	111.50	124.18	2
CG1-CB-CG2	110.80	127.21	1
CA-CB-CG	113.80	106.34	1
C-CA-CB	111.40	97.23	1
N-CA-CB	110.50	123.18	1
CG1-CB-CG2	110.80	127.20	1
N-CA-CB	110.50	123.17	3
C-CA-CB	110.10	124.26	1
CG1-CB-CG2	110.80	127.19	2
N-CA-CB	110.50	123.16	2
N-CA-CB	111.50	98.84	1
C-CA-CB	110.50	121.67	2
N-CA-CB	110.40	121.57	3
N-CA-CB	110.40	121.56	1
C-N-CA	121.70	135.09	1
N-CA-CB	110.50	123.15	3
CG1-CB-CG2	110.80	127.17	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CG1-CB-CG2	110.80	127.16	2
C-CA-CB	111.40	125.53	1
N-CA-CB	110.50	123.14	1
CA-CB-CG	113.80	106.36	2
CA-C-N	116.20	131.06	1
N-CA-CB	110.50	123.13	2
CA-CB-CG	112.60	105.17	1
N-CA-CB	110.50	123.12	8
N-CA-CB	110.40	121.54	1
CA-CB-CG	113.80	106.38	2
CA-C-N	116.90	128.03	1
C-CA-CB	110.10	96.00	1
C-CA-CB	110.50	121.63	1
C-CA-CB	110.10	96.01	1
N-CA-CB	110.50	123.11	2
C-CA-CB	110.10	124.19	1
O-C-N	123.00	111.14	1
CA-C-N	116.20	131.03	1
C-CA-CB	110.10	124.18	1
CA-C-N	116.90	128.02	1
N-CA-CB	111.50	124.10	1
N-CA-C	111.00	90.25	1
CA-CB-CG	113.80	106.39	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CG1-CB-CG2	110.80	127.10	1
N-CA-CB	110.50	123.09	4
O-C-N	123.00	111.15	1
CG1-CB-CG2	110.80	127.09	1
C-CA-CB	110.10	124.17	1
N-CA-CB	110.50	123.08	3
C-N-CA	121.70	135.02	1
CG1-CB-CG2	110.80	127.08	2
CA-CB-CG	113.80	106.40	1
CA-C-N	116.20	130.99	2
N-CA-CB	110.50	123.07	3
CG1-CB-CG2	110.80	127.07	1
N-CA-C	112.10	130.57	1
N-CA-CB	110.50	123.06	4
CG1-CB-CG2	110.80	127.05	1
CA-CB-CG	113.80	106.41	1
CA-C-N	116.20	130.97	1
CA-C-O	120.80	108.25	1
C-CA-CB	110.50	121.58	1
C-N-CA	121.70	134.99	1
CG1-CB-CG2	110.80	127.03	1
CA-C-N	116.20	101.45	1
N-CA-C	111.00	90.35	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CG1-CB-CG2	110.80	127.02	1
N-CA-CB	110.40	121.46	1
N-CA-CB	110.50	123.03	2
C-CA-CB	111.40	97.40	1
CA-CB-CG	112.60	105.23	1
C-CA-CB	110.10	124.10	1
CG1-CB-CG2	110.80	127.01	1
N-CA-CB	110.50	123.02	3
CA-C-O	120.80	108.28	1
N-CA-CB	111.50	124.02	1
C-CA-CB	110.10	124.09	2
CG1-CB-CG2	110.80	127.00	1
C-N-CA	121.70	134.95	1
N-CA-CB	110.50	123.01	5
CG1-CB-CG2	110.80	126.99	1
C-CA-CB	110.10	124.08	2
CA-CB-CG1	110.40	122.91	1
CA-C-N	116.20	130.91	1
C-N-CA	121.70	134.94	1
N-CA-CB	110.50	123.00	5
CA-CB-CG	113.80	106.45	1
CG1-CB-CG2	110.80	126.98	2
O-C-N	123.00	111.23	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	124.07	2
N-CA-CB	111.50	123.99	2
N-CA-CB	110.50	122.99	2
N-CA-CB	110.40	121.42	1
N-CA-C	111.00	131.56	1
CA-CB-CG	113.80	106.46	1
CG1-CB-CG2	110.80	126.95	2
N-CA-CB	110.50	122.98	2
C-N-CA	121.70	134.91	1
CA-C-N	116.20	130.88	1
N-CA-CB	110.40	121.41	1
N-CA-CB	110.50	122.97	3
C-N-CA	121.70	108.49	1
CG1-CB-CG2	110.80	126.94	1
C-CA-CB	110.10	124.04	1
N-CA-CB	110.40	121.40	2
CG1-CB-CG2	110.80	126.93	4
C-CA-CB	110.50	121.50	1
C-CA-CB	110.10	124.03	1
N-CA-CB	110.50	122.96	4
C-CA-CB	110.50	121.49	1
N-CA-CB	111.50	123.95	1
CG1-CB-CG2	110.80	126.91	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-C-N	116.20	130.85	1
CA-CB-CG	113.80	106.48	1
N-CA-CB	110.50	98.05	1
N-CA-CB	110.50	122.94	1
N-CA-CB	111.50	123.94	1
CG1-CB-CG2	110.80	126.90	1
N-CA-CB	110.50	122.93	4
C-CA-CB	110.10	124.00	1
C-CA-CB	111.40	125.29	1
C-CA-CB	110.50	121.47	1
N-CA-C	113.30	92.10	1
N-CA-CB	110.50	122.92	2
CA-C-N	116.20	130.81	1
CG1-CB-CG2	110.80	126.86	1
CA-C-O	120.80	108.39	1
C-N-CA	121.70	108.56	1
N-CA-CB	111.50	123.91	1
N-CA-CB	110.50	122.91	1
N-CA-CB	110.40	121.34	1
N-CA-CB	110.50	122.90	5
CG1-CB-CG2	110.80	126.85	1
CA-C-N	116.20	130.78	1
CG1-CB-CG2	110.80	126.84	3

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	122.89	1
N-CA-C	111.00	90.59	1
C-CA-CB	110.10	123.95	2
C-CA-CB	110.50	121.43	3
N-CA-CB	111.50	123.89	1
C-N-CA	121.70	134.82	1
CG1-CB-CG2	110.80	126.83	1
C-CA-CB	110.10	96.26	1
N-CA-CB	110.50	122.88	3
C-CA-CB	110.10	123.93	1
CG1-CB-CG2	110.80	126.81	3
N-CA-CB	110.50	122.87	3
C-N-CA	121.70	108.60	1
N-CA-CB	111.50	123.87	1
N-CA-CB	110.50	122.86	3
CG1-CB-CG2	110.80	126.80	2
N-CA-CB	111.50	123.86	1
N-CA-CB	110.40	121.30	1
CG1-CB-CG2	110.80	126.79	1
N-CA-CB	110.50	122.85	3
CB-CG-CD	111.30	94.59	1
CG1-CB-CG2	110.80	126.78	1
C-N-CA	121.70	134.77	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	122.84	2
CG1-CB-CG2	110.80	126.77	1
CA-C-N	116.20	130.71	2
N-CA-CB	110.50	122.83	2
C-CA-CB	110.10	123.88	2
C-CA-CB	110.50	121.38	1
CA-CB-CG	113.80	106.55	1
N-CA-CB	110.40	121.28	1
N-CA-CB	111.50	123.83	1
C-N-CA	121.70	134.75	3
N-CA-C	111.00	131.30	1
N-CA-CB	111.50	123.82	1
CG1-CB-CG2	110.80	126.75	1
N-CA-CB	110.50	122.82	4
CA-C-O	120.80	108.48	2
C-CA-CB	110.10	123.87	1
N-CA-CB	110.50	122.81	5
N-CA-CB	111.50	123.81	2
CG1-CB-CG2	110.80	126.73	1
C-N-CA	121.70	134.73	1
N-CA-C	111.00	131.27	1
N-CA-CB	110.50	122.80	4
CA-C-N	116.20	130.67	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	122.79	4
N-CA-C	111.00	90.75	1
CG1-CB-CG2	110.80	126.71	1
C-N-CA	121.70	134.71	1
O-C-N	123.00	111.43	1
N-CA-CB	111.50	123.79	2
C-CA-CB	110.10	123.83	1
CG1-CB-CG2	110.80	126.70	2
N-CA-CB	111.50	123.78	1
CG1-CB-CG2	110.80	126.69	2
N-CA-CB	110.50	122.78	2
N-CA-CB	110.50	122.77	3
C-CA-CB	111.60	126.04	1
CA-CB-CG	113.80	106.58	2
N-CA-CB	110.40	121.23	1
N-CA-C	112.10	94.06	1
C-CA-CB	110.10	123.81	1
C-N-CA	121.70	134.68	1
C-CA-CB	110.10	123.80	1
CA-CB-CG2	110.50	122.76	1
N-CA-CB	110.50	122.76	2
N-CA-C	111.00	90.81	1
O-C-N	123.00	111.46	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-N-CA	121.70	108.72	1
CG1-CB-CG2	110.80	126.66	2
N-CA-CB	111.50	123.75	1
N-CA-CB	110.50	122.75	7
C-CA-CB	110.10	123.79	1
C-CA-CB	111.60	97.19	1
CG1-CB-CG2	110.80	126.65	2
CG1-CB-CG2	110.70	132.31	1
N-CA-CB	110.50	122.74	3
N-CA-CB	111.50	123.74	1
N-CA-CB	110.40	121.20	1
CA-CB-CG	113.80	106.60	1
C-N-CA	121.70	134.66	2
CA-CB-CG	114.10	128.50	1
CA-CB-CG	112.60	105.40	1
N-CA-CB	103.00	110.92	1
N-CA-CB	110.50	122.73	3
CA-C-O	120.80	108.57	1
CB-CG-CD	112.60	100.37	1
CA-CB-CG	113.80	106.61	1
C-CA-CB	110.10	123.77	1
CG1-CB-CG2	110.80	126.62	2
C-CA-CB	110.10	96.44	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.40	121.19	1
C-N-CA	121.70	134.64	1
CG1-CB-CG2	110.80	126.61	2
N-CA-CB	110.50	122.72	2
CA-C-O	120.80	108.58	1
C-CA-CB	110.10	123.76	2
CA-C-N	116.20	130.57	1
N-CA-CB	110.50	122.71	6
CG1-CB-CG2	110.80	126.60	1
C-CA-CB	110.10	123.74	1
N-CA-CB	110.50	122.70	4
CA-C-N	116.20	130.55	1
N-CA-C	111.00	131.10	1
N-CA-CB	110.40	121.16	1
C-CA-CB	110.50	121.26	1
C-N-CA	121.70	134.62	1
N-CA-CB	111.50	123.70	1
CG1-CB-CG2	110.80	126.58	1
N-CA-CB	110.50	122.69	6
CA-CB-CG	113.80	106.63	1
CG1-CB-CG2	110.80	126.57	2
C-CA-CB	110.10	123.72	1
C-N-CA	121.70	134.60	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	122.68	4
CA-C-N	116.20	130.53	1
N-CA-CB	111.50	123.68	1
CG1-CB-CG2	110.80	126.56	2
N-CA-CB	111.50	123.67	2
C-CA-CB	110.50	121.24	1
N-CA-CB	110.50	122.67	3
CA-CB-CG	113.80	106.64	1
CG1-CB-CG2	110.80	126.55	1
N-CA-CB	110.50	122.66	6
N-CA-CB	111.50	123.66	1
CG1-CB-CG2	110.80	126.54	1
O-C-N	123.00	111.56	1
CA-C-N	116.20	130.50	1
CA-CB-CG	113.80	106.65	2
CG1-CB-CG2	110.80	126.52	1
N-CA-CB	111.50	123.65	1
C-N-CA	121.70	134.56	1
C-CA-CB	110.10	123.67	2
N-CA-CB	110.40	121.11	1
CG1-CB-CG2	110.80	126.51	1
CA-CB-CG1	110.40	122.54	1
N-CA-CB	111.50	123.64	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	123.66	1
CG1-CB-CG2	110.80	126.50	1
N-CA-CB	110.50	122.63	2
C-CA-CB	110.10	123.65	1
N-CA-CB	110.50	122.62	1
N-CA-CB	110.40	121.09	1
N-CA-CB	111.50	123.61	3
N-CA-CB	110.50	122.61	3
CA-C-N	116.20	130.44	1
N-CA-CB	110.40	121.08	1
C-N-CA	121.70	134.52	1
N-CA-CB	110.50	122.60	1
O-C-N	123.00	111.61	1
C-CA-CB	110.10	123.62	1
N-CA-CB	110.50	122.59	1
C-CA-CB	110.10	96.59	1
C-N-CA	121.70	108.90	1
CA-C-O	120.80	132.89	1
C-N-CA	121.70	134.50	1
CG1-CB-CG2	110.80	126.44	1
CA-C-N	116.20	130.41	1
N-CA-C	111.00	91.11	1
C-CA-CB	111.40	97.90	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	122.58	1
N-CA-CB	110.50	122.57	5
CD1-CG-CD2	110.80	126.42	1
N-CA-CB	111.50	123.57	1
CA-CB-CG2	110.40	98.33	1
CG1-CB-CG2	110.80	126.42	1
C-CA-CB	110.10	123.59	1
C-CA-CB	110.10	123.58	2
N-CA-CB	103.00	110.80	2
N-CA-CB	110.50	122.56	1
N-CA-CB	110.50	122.55	4
CG1-CB-CG2	110.80	126.40	1
CG1-CB-CG2	110.80	126.39	2
N-CA-CB	110.50	98.45	1
C-CA-CB	110.50	121.13	1
N-CA-CB	110.50	122.54	6
CA-C-O	120.80	108.76	1
C-N-CA	121.70	134.45	1
CG1-CB-CG2	110.80	126.38	1
C-CA-CB	110.10	123.56	1
C-CA-CB	110.50	121.12	1
N-CA-CB	111.50	123.53	2
N-CA-CB	110.50	122.53	3

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.50	121.11	1
N-CA-CB	110.50	122.52	4
C-N-CA	121.70	134.43	1
N-CA-CB	111.50	123.52	1
CG1-CB-CG2	110.80	126.35	1
N-CA-CB	110.40	121.00	1
N-CA-CB	110.50	122.51	5
C-N-CA	121.70	134.42	1
N-CA-CB	111.50	123.51	1
CA-C-O	120.80	108.79	1
CG1-CB-CG2	110.80	126.34	1
CA-CB-CG2	110.50	122.51	1
N-CA-CB	111.50	99.50	1
CG1-CB-CG2	110.80	126.33	2
N-CA-CB	110.50	122.50	4
C-N-CA	121.70	134.40	1
CA-C-O	120.80	108.80	1
N-CA-CB	110.50	122.49	3
C-CA-CB	110.10	123.50	1
CD1-CG-CD2	110.80	126.32	1
N-CA-CB	111.50	123.49	1
CA-CB-CG	113.80	106.75	2
CG1-CB-CG2	110.80	126.31	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-C	111.00	91.26	1
N-CA-CB	110.50	122.48	3
N-CA-CB	110.40	120.97	1
N-CA-CB	111.50	123.48	1
C-N-CA	121.70	134.38	1
C-CA-CB	110.10	123.49	1
CG1-CB-CG2	110.80	126.30	1
N-CA-CB	110.50	122.47	5
CG1-CB-CG2	110.80	126.29	1
N-CA-CB	110.50	122.46	4
CG1-CB-CG2	110.80	126.28	1
C-CA-CB	110.50	121.06	1
N-CA-C	111.00	91.30	1
CG1-CB-CG2	110.80	126.27	2
C-CA-CB	110.10	123.46	2
N-CA-CB	111.50	123.45	1
N-CA-CB	103.00	110.73	1
N-CA-CB	110.50	122.45	1
C-N-CA	121.70	109.05	1
CA-CB-CG	112.60	105.57	1
N-CA-CB	110.50	122.44	3
CG1-CB-CG2	110.80	126.26	2
C-CA-CB	111.60	97.55	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CG1-CB-CG2	110.80	126.25	1
C-CA-CB	110.50	121.03	1
CB-CG-CD	111.30	127.45	1
N-CA-CB	111.50	123.43	1
N-CA-CB	110.40	120.93	1
C-N-CA	121.70	109.07	2
N-CA-CB	110.50	122.43	2
C-CA-CB	110.10	123.43	2
CG1-CB-CG2	110.80	126.23	1
C-N-CA	121.70	134.33	1
N-CA-CB	111.50	123.42	2
C-CA-CB	110.10	96.77	1
CA-C-O	120.80	108.88	1
N-CA-CB	110.50	122.42	3
C-CA-CB	111.40	98.08	1
CG1-CB-CG2	110.80	126.22	2
N-CA-CB	110.50	98.59	1
N-CA-CB	110.40	120.91	1
N-CA-CB	110.50	122.41	4
C-CA-CB	110.10	123.41	1
N-CA-C	111.00	91.38	1
N-CA-C	113.30	92.98	1
C-CA-CB	110.50	121.00	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	122.40	1
N-CA-C	111.00	91.41	1
N-CA-CB	110.50	122.39	4
CG1-CB-CG2	110.80	126.19	2
N-CA-CB	111.50	123.39	1
CA-CB-CG	114.10	100.11	1
CB-CG-CD	112.60	100.71	1
CG1-CB-CG2	110.80	126.18	1
C-CA-CB	110.10	123.38	1
N-CA-CB	110.50	122.38	5
C-CA-CB	111.60	125.58	1
CG1-CB-CG2	110.80	126.17	2
C-CA-CB	110.10	123.37	1
N-CA-C	111.00	130.56	1
N-CA-CB	110.40	120.88	1
N-CA-CB	111.50	123.37	2
CA-CB-CG	113.90	101.33	1
CG1-CB-CG2	110.80	126.16	2
C-CA-CB	110.10	96.84	1
N-CA-CB	110.50	122.37	1
N-CA-CB	110.50	122.36	3
CG1-CB-CG2	110.80	126.15	1
N-CA-C	112.10	129.54	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG	113.80	106.82	1
N-CA-CB	111.50	123.36	1
CA-CB-CG	112.60	105.62	1
N-CA-CB	110.50	122.35	2
N-CA-CB	111.50	123.35	2
CG1-CB-CG2	110.80	126.13	2
N-CA-CB	110.50	122.34	2
N-CA-CB	110.40	120.85	1
C-N-CA	121.70	134.24	1
N-CA-CB	111.50	123.34	1
N-CA-CB	110.50	122.33	5
N-CA-CB	110.40	120.84	1
N-CA-C	111.00	91.51	1
CG1-CB-CG2	110.80	126.11	1
C-CA-CB	110.10	123.32	1
N-CA-CB	110.50	122.32	2
C-CA-CB	110.10	123.31	1
N-CA-CB	111.50	123.32	1
N-CA-CB	111.50	123.31	2
N-CA-CB	110.50	122.31	6
CG1-CB-CG2	110.80	126.08	1
C-CA-CB	110.10	123.30	1
CA-CB-CG	112.60	105.65	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	122.30	5
CG1-CB-CG2	110.80	126.07	3
C-CA-CB	111.40	98.22	1
CA-CB-CG	112.60	105.66	1
CG1-CB-CG2	110.80	126.05	2
N-CA-CB	110.50	122.28	3
C-CA-CB	110.10	123.27	1
N-CA-CB	103.00	110.62	1
C-CA-CB	110.10	123.26	1
N-CA-CB	110.50	122.27	4
N-CA-CB	111.50	123.27	1
N-CA-C	111.00	130.38	1
C-N-CA	121.70	109.24	1
C-CA-CB	110.50	120.88	1
CA-CB-CG	113.80	106.88	1
N-CA-C	112.10	129.39	1
N-CA-CB	110.40	120.78	1
CG1-CB-CG2	110.80	126.01	2
N-CA-CB	110.50	122.25	3
CA-C-N	116.20	130.02	1
N-CA-CB	110.50	122.24	4
N-CA-CB	111.50	123.24	1
C-N-CA	121.70	134.13	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CG1-CB-CG2	110.80	125.99	3
CA-CB-CG	113.80	106.90	1
C-CA-CB	110.10	96.98	1
N-CA-CB	110.50	122.23	6
CG1-CB-CG2	110.80	125.98	1
N-CA-CB	111.50	123.23	1
C-N-CA	121.70	134.11	1
N-CA-CB	110.50	122.22	5
CA-CB-CG	113.80	106.91	1
N-CA-CB	111.50	123.22	1
N-CA-CB	110.50	122.21	5
C-CA-CB	110.10	123.19	1
CG1-CB-CG2	110.80	125.95	1
C-N-CA	121.70	134.10	1
CA-C-N	116.20	129.97	1
N-CA-CB	110.50	122.20	4
C-CA-CB	110.10	123.18	1
C-CA-CB	110.50	120.82	1
O-C-N	123.00	111.99	1
N-CA-CB	111.50	123.19	1
C-N-CA	121.70	109.32	1
N-CA-CB	103.00	110.57	1
O-C-N	123.00	134.01	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	122.19	3
C-CA-CB	110.10	123.17	1
C-CA-CB	110.10	123.16	2
N-CA-CB	110.40	120.71	1
N-CA-CB	111.50	123.18	2
N-CA-CB	110.50	122.18	5
CA-C-N	116.90	127.21	1
C-CA-CB	109.10	124.21	1
N-CA-CB	110.50	122.17	4
C-CA-CB	110.10	123.15	1
N-CA-CB	111.50	123.17	1
C-CA-CB	110.10	123.14	1
O-C-N	123.00	112.02	1
CA-C-O	120.80	109.13	1
N-CA-CB	110.50	122.16	2
N-CA-CB	110.40	120.69	1
N-CA-CB	110.50	122.14	4
N-CA-C	111.00	130.17	1
C-CA-CB	110.10	123.11	1
CG1-CB-CG2	110.80	125.86	2
N-CA-CB	110.50	122.13	5
C-CA-CB	110.10	123.10	1
O-C-N	123.00	112.05	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	111.50	123.13	1
C-N-CA	121.70	134.01	1
C-CA-CB	110.50	120.76	1
CA-C-N	116.20	129.88	1
N-CA-CB	110.50	122.12	4
C-N-CA	121.70	109.40	1
CG1-CB-CG2	110.80	125.84	1
N-CA-CB	110.40	120.65	1
C-CA-CB	110.10	123.09	1
N-CA-CB	110.50	122.11	4
C-N-CA	121.70	134.00	1
C-CA-CB	110.50	120.75	1
C-CA-CB	110.10	123.07	1
N-CA-C	111.00	91.88	1
CA-CB-CG	113.80	106.97	1
CG1-CB-CG2	110.80	125.82	1
N-CA-CB	110.50	122.10	7
N-CA-C	111.00	91.89	1
N-CA-CB	111.50	99.90	1
C-CA-CB	110.10	123.06	1
CA-CB-CG	113.80	106.98	1
CA-C-O	120.80	109.21	1
C-CA-CB	110.10	97.15	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	111.50	123.08	3
N-CA-CB	110.50	122.08	4
CA-C-N	116.20	129.83	1
CG1-CB-CG2	110.80	125.79	1
C-N-CA	121.70	109.44	1
C-CA-CB	110.10	123.04	2
CA-CB-CG	112.60	105.79	1
C-CA-CB	110.10	123.03	1
N-CA-CB	111.50	123.07	1
N-CA-CB	110.50	122.07	2
CA-CB-CG	112.60	105.80	2
CA-C-N	116.20	129.80	1
CA-C-N	116.90	127.10	1
O-C-N	123.00	133.88	1
N-CA-CB	110.50	122.06	2
N-CA-CB	111.50	123.06	2
N-CA-CB	103.00	110.48	1
N-CA-CB	110.50	122.05	3
CA-CB-CG	113.80	107.00	1
CG1-CB-CG2	110.80	125.75	1
CA-C-N	116.20	129.79	1
N-CA-C	111.00	91.98	1
CG1-CB-CG2	110.80	125.74	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-C-N	116.20	129.78	1
C-CA-CB	110.50	120.69	1
N-CA-CB	111.50	123.04	2
N-CA-CB	110.50	122.04	5
CA-CB-CG	113.80	107.01	1
CG1-CB-CG2	110.80	125.73	1
N-CA-CB	110.50	122.03	2
C-CA-CB	110.50	120.67	1
N-CA-C	113.30	93.63	1
C-CA-CB	109.10	124.02	1
CA-C-N	116.20	102.64	1
CA-C-N	116.20	129.76	1
CG1-CB-CG2	110.80	125.71	1
N-CA-CB	111.50	123.02	3
N-CA-C	111.00	92.02	1
N-CA-CB	110.50	122.02	5
C-CA-CB	110.10	97.23	3
CG1-CB-CG2	110.80	125.70	2
CA-CB-CG	112.60	105.83	2
N-CA-CB	110.50	122.01	4
C-CA-CB	110.10	122.96	1
CA-CB-CG	113.80	107.03	1
CD1-CG-CD2	110.80	125.69	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CG1-CB-CG2	110.80	125.69	1
C-CA-CB	110.50	120.65	1
N-CA-CB	111.50	123.00	1
CA-C-N	116.20	129.73	2
C-CA-CB	110.10	122.95	1
N-CA-CB	110.50	122.00	1
N-CA-CB	110.50	121.99	3
CG1-CB-CG2	110.80	125.67	1
C-CA-CB	111.40	124.24	1
C-CA-CB	110.10	97.26	1
N-CA-CB	111.50	122.99	1
C-N-CA	121.70	133.86	1
N-CA-CB	110.50	121.98	4
C-CA-CB	109.10	94.24	1
CA-CB-CG	113.80	107.05	1
CA-C-N	116.20	129.70	1
N-CA-CB	110.50	121.97	1
N-CA-CB	111.50	122.97	1
C-CA-CB	110.50	120.62	1
CG1-CB-CG2	110.80	125.64	4
C-CA-CB	110.50	100.38	1
CA-C-N	116.20	129.69	1
N-CA-CB	111.50	122.96	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	111.40	124.21	1
N-CA-CB	110.50	121.96	2
N-CA-CB	110.50	121.95	3
N-CA-CB	111.50	122.95	3
N-CA-CB	103.00	110.41	1
C-CA-CB	110.10	122.89	3
N-CA-CB	111.50	122.94	1
N-CA-CB	110.50	121.94	6
C-CA-CB	111.40	124.19	1
C-CA-CB	111.40	98.61	1
C-CA-CB	109.10	123.90	1
C-CA-CB	110.50	120.59	1
N-CA-CB	110.40	120.49	1
N-CA-CB	110.50	121.93	8
CG1-CB-CG2	110.80	125.59	2
N-CA-C	112.10	128.91	1
C-CA-CB	110.10	122.88	1
C-CA-CB	110.10	122.87	1
CA-CB-CG	112.60	105.88	1
N-CA-CB	111.50	122.92	2
O-C-N	123.00	112.25	1
C-N-CA	121.70	133.80	1
N-CA-CB	110.50	121.92	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-N-CA	121.70	109.61	1
CA-C-O	120.80	109.38	1
N-CA-C	111.00	92.19	1
C-CA-CB	110.10	122.86	1
CG1-CB-CG2	110.80	125.57	1
N-CA-CB	110.50	121.91	4
N-CA-CB	111.50	122.91	3
CG1-CB-CG2	110.80	125.56	1
C-CA-CB	110.10	122.85	1
C-CA-CB	111.40	124.15	1
N-CA-CB	111.50	122.90	3
N-CA-CB	110.50	121.90	3
CA-CB-CG2	110.40	99.00	1
CG1-CB-CG2	110.80	125.55	1
C-CA-CB	110.10	122.83	1
CG1-CB-CG2	110.80	125.54	1
C-CA-CB	110.10	97.37	1
N-CA-CB	110.50	121.89	1
N-CA-C	111.00	92.24	1
N-CA-CB	110.40	120.45	1
C-N-CA	121.70	133.75	1
N-CA-CB	110.50	121.88	2
N-CA-CB	111.50	122.88	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CG1-CB-CG2	110.80	125.52	1
C-N-CA	121.70	133.74	1
N-CA-CB	110.50	121.87	1
C-CA-CB	110.10	122.81	2
C-CA-CB	110.50	120.53	1
CA-C-O	120.80	132.17	1
N-CA-CB	110.50	121.86	5
C-CA-CB	110.10	122.80	2
C-CA-CB	110.50	120.52	1
N-CA-CB	111.50	122.86	1
N-CA-C	111.00	92.30	1
N-CA-CB	111.50	122.85	2
N-CA-CB	110.50	121.85	2
C-CA-CB	110.10	97.42	1
C-N-CA	121.70	133.72	1
C-CA-CB	110.10	122.78	1
C-N-CA	121.70	133.71	2
N-CA-CB	110.50	121.84	5
C-CA-CB	109.10	123.77	1
N-CA-C	112.10	128.78	1
C-N-CA	121.70	133.70	1
N-CA-CB	110.50	121.83	4
CG1-CB-CG2	110.80	125.47	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	103.00	110.33	1
CA-CB-CG	113.80	107.13	1
C-CA-CB	110.50	120.50	1
C-CA-CB	110.10	122.76	1
N-CA-C	111.00	129.66	2
N-CA-CB	110.50	121.82	2
CA-CB-CG	116.30	139.61	1
N-CA-C	112.10	95.45	1
CG1-CB-CG2	110.80	125.45	1
CG1-CB-CG2	110.80	125.44	1
N-CA-CB	110.50	121.81	3
C-CA-CB	110.50	120.48	1
CA-CB-CG	112.60	119.25	1
N-CA-CB	110.40	120.38	1
N-CA-CB	111.50	122.81	1
CG1-CB-CG2	110.80	125.43	1
N-CA-CB	110.50	121.80	3
CA-CB-CG2	110.40	99.10	1
N-CA-C	111.00	92.39	2
C-CA-CB	110.50	120.47	1
N-CA-CB	110.50	121.79	5
C-N-CA	121.70	133.66	1
N-CA-CB	111.50	122.79	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
NE-CZ-NH1	121.50	128.14	1
N-CA-CB	111.50	122.78	2
CG1-CB-CG2	110.80	125.40	1
C-CA-CB	110.50	120.45	1
N-CA-CB	110.50	121.78	4
N-CA-CB	110.50	121.77	5
CA-CB-CG	113.80	107.17	1
O-C-N	123.00	112.39	1
C-N-CA	121.70	133.63	2
N-CA-CB	103.00	110.29	1
N-CA-CB	111.50	122.77	1
N-CA-CB	111.50	122.76	2
N-CA-CB	110.50	121.76	5
N-CA-C	111.00	92.45	1
C-CA-CB	111.60	98.35	1
C-CA-CB	109.10	123.67	1
CA-C-O	120.80	109.54	1
O-C-N	123.00	112.40	1
C-CA-CB	110.10	122.68	2
CG1-CB-CG2	110.80	125.36	2
N-CA-CB	110.50	121.75	3
O-C-N	123.00	112.41	1
N-CA-C	111.00	92.47	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	111.50	122.75	1
C-CA-CB	110.10	97.53	1
CA-C-N	116.20	102.97	1
N-CA-CB	110.50	121.74	1
N-CA-CB	111.50	122.74	2
C-CA-CB	110.50	120.42	1
CG1-CB-CG2	110.80	125.34	1
CA-CB-CG1	110.40	121.64	1
C-CA-CB	110.10	97.54	1
N-CA-CB	111.50	122.73	1
N-CA-CB	110.50	121.73	5
C-CA-CB	110.10	122.65	1
N-CA-C	111.00	92.51	1
CA-C-N	116.20	129.40	1
N-CA-CB	110.50	121.72	3
N-CA-C	111.00	92.52	1
CG1-CB-CG2	110.80	125.32	1
N-CA-CB	111.50	122.72	1
CG1-CB-CG2	110.80	125.31	1
C-CA-CB	110.10	122.63	1
CA-C-N	116.20	129.38	1
N-CA-CB	111.50	122.71	1
N-CA-CB	111.50	122.70	4

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	111.60	124.78	1
N-CA-CB	111.50	122.69	1
N-CA-CB	110.50	121.69	2
C-CA-CB	110.10	122.61	1
CA-CB-CG	113.80	120.38	1
N-CA-CB	110.50	121.68	6
N-CA-C	112.10	128.55	1
N-CA-CB	103.00	110.24	1
N-CA-C	111.00	129.42	1
N-CA-CB	111.50	122.68	1
C-CA-CB	110.50	120.36	1
C-CA-CB	110.10	122.59	1
N-CA-CB	110.50	121.67	4
C-N-CA	121.70	109.87	1
C-CA-CB	110.50	120.35	1
C-CA-CB	110.10	122.58	2
N-CA-C	111.00	129.39	1
N-CA-CB	111.50	122.66	2
N-CA-CB	110.50	121.66	1
CA-CB-CG1	110.40	121.56	1
N-CA-C	112.10	128.51	1
C-N-CA	121.70	133.52	1
CA-CB-CG2	110.40	99.24	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG	113.80	107.24	1
N-CA-CB	110.50	121.65	2
CA-C-N	116.20	129.32	2
CA-C-O	120.80	109.65	1
C-N-CA	121.70	133.50	1
N-CA-CB	111.50	122.65	1
CG1-CB-CG2	110.80	125.22	1
N-CA-CB	110.50	121.64	2
CA-CB-CG	113.80	107.25	1
C-N-CA	121.70	109.91	2
N-CA-C	112.10	95.72	1
CA-C-N	116.20	129.30	1
C-N-CA	121.70	133.49	1
CA-CB-CG1	110.40	121.54	1
N-CA-CB	110.50	121.63	4
C-CA-CB	110.10	122.54	3
N-CA-C	111.00	129.34	1
N-CA-CB	103.00	110.20	1
C-CA-CB	110.10	122.53	2
C-N-CA	121.70	133.48	1
N-CA-CB	111.50	122.62	1
N-CA-C	112.10	95.75	1
N-CA-CB	110.50	121.62	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.50	120.31	1
N-CA-CB	110.50	121.61	2
C-CA-CB	110.10	122.52	1
CG1-CB-CG2	110.80	125.18	1
CA-CB-CG	113.80	107.27	2
CG1-CB-CG2	110.80	125.17	1
C-N-CA	121.70	109.94	1
N-CA-CB	111.50	122.60	1
C-CA-CB	110.50	120.30	2
N-CA-CB	110.50	121.60	6
C-CA-CB	110.10	122.51	1
CA-CB-CG	112.60	106.07	1
C-N-CA	121.70	133.45	1
CA-CB-CG	113.90	102.15	1
N-CA-CB	111.50	122.59	1
C-CA-CB	110.10	122.49	2
O-C-N	123.00	112.56	1
CA-CB-CG	113.80	107.28	2
C-N-CA	121.70	109.96	1
C-N-CA	121.70	133.43	1
N-CA-CB	111.50	122.58	1
N-CA-CB	110.50	121.58	6
O-C-N	123.00	112.57	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	122.48	1
N-CA-CB	103.00	110.17	1
N-CA-C	111.00	92.76	1
N-CA-CB	110.50	121.57	6
C-N-CA	121.70	133.42	1
CG1-CB-CG2	110.80	125.13	1
C-N-CA	121.70	109.98	1
C-CA-CB	110.50	120.27	1
N-CA-CB	111.50	122.57	1
CA-CB-CG	113.80	107.29	1
CA-C-N	116.20	129.22	1
C-CA-CB	110.10	122.46	1
CG1-CB-CG2	110.80	125.11	1
CA-C-N	116.20	129.21	1
N-CA-CB	110.50	121.56	2
N-CA-C	111.00	92.79	1
N-CA-CB	111.50	122.55	3
N-CA-CB	110.50	121.55	4
C-CA-CB	111.40	99.05	1
C-CA-CB	109.10	123.40	1
CA-CB-CG	114.10	127.10	1
N-CA-C	112.10	128.34	1
N-CA-CB	110.50	121.54	5

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	111.50	122.54	1
C-CA-CB	111.60	124.58	1
N-CA-CB	110.50	121.53	4
C-N-CA	121.70	110.02	1
N-CA-C	111.00	92.83	1
N-CA-CB	111.50	122.53	1
N-CA-C	111.00	92.84	1
N-CA-CB	111.50	122.52	2
CA-CB-CG	114.10	101.13	1
N-CA-C	111.00	129.16	1
N-CA-CB	110.50	121.52	4
CA-C-N	116.20	129.17	1
CD1-CG-CD2	110.80	125.06	1
C-N-CA	121.70	133.36	1
N-CA-CB	110.50	121.51	2
CA-CB-CG	112.60	106.12	1
CA-CB-CG	112.60	119.08	1
CA-CB-CG	113.80	107.32	1
C-N-CA	121.70	133.35	1
N-CA-CB	110.50	121.50	4
N-CA-CB	111.50	122.50	2
C-CA-CB	111.60	124.54	1
CA-CB-CG	113.80	107.33	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-N-CA	121.70	133.34	3
N-CA-CB	103.00	110.11	1
N-CA-CB	110.50	121.49	10
CA-CB-CG	112.60	106.13	1
CA-CB-CG	112.60	106.14	1
C-CA-CB	110.10	122.38	1
C-N-CA	121.70	133.33	1
CA-CB-CG	113.80	107.34	2
CA-C-N	116.20	129.12	1
CG1-CB-CG2	110.80	125.01	1
N-CA-CB	111.50	122.48	1
N-CA-CB	110.50	121.48	2
C-CA-CB	110.10	122.37	1
CA-CB-CG2	110.50	121.47	1
N-CA-CB	110.50	121.47	3
CG1-CB-CG2	110.80	125.00	1
N-CA-C	111.00	129.07	1
O-C-N	123.00	112.68	1
N-CA-CB	111.50	122.47	1
N-CA-CB	111.50	122.46	1
C-CA-CB	110.50	120.17	1
N-CA-CB	110.50	121.46	1
CA-CB-CG	113.80	107.36	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	121.45	1
C-N-CA	121.70	133.30	1
N-CA-C	112.10	95.99	1
N-CA-CB	111.50	122.45	1
C-N-CA	121.70	110.10	1
C-CA-CB	109.10	123.27	1
C-CA-CB	110.10	122.34	1
N-CA-CB	111.50	122.44	3
N-CA-CB	110.50	121.44	3
C-CA-CB	110.10	97.87	1
C-CA-CB	110.10	122.33	1
C-CA-CB	110.10	122.32	2
N-CA-CB	103.00	110.07	1
N-CA-CB	110.50	121.43	4
N-CA-CB	111.50	122.43	1
CG1-CB-CG2	110.80	124.95	1
N-CA-C	111.00	129.00	1
N-CA-CB	110.50	121.42	3
C-CA-CB	110.10	122.31	1
CA-CB-CG	113.80	107.38	1
N-CA-C	111.00	93.02	1
CA-C-N	116.20	129.04	1
N-CA-CB	110.50	121.41	5

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	122.30	1
C-CA-CB	110.10	122.29	2
CG1-CB-CG2	110.80	124.91	2
N-CA-CB	103.00	110.06	1
N-CA-CB	111.50	122.40	3
N-CA-CB	110.50	121.40	3
C-CA-CB	110.50	120.12	1
C-N-CA	121.70	133.24	1
N-CA-C	111.00	93.05	1
C-CA-CB	110.50	120.11	1
N-CA-CB	111.50	122.39	2
CA-C-N	116.20	129.02	2
C-N-CA	121.70	110.17	1
N-CA-CB	110.50	121.39	5
N-CA-CB	110.40	120.01	1
C-CA-CB	110.10	122.27	1
N-CA-CB	110.50	121.38	6
N-CA-CB	111.50	122.38	2
C-CA-CB	110.10	122.26	1
CD1-CG-CD2	110.80	124.88	1
CA-CB-CG	113.80	107.40	1
N-CA-C	111.00	93.09	1
C-CA-CB	110.10	122.25	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	97.95	1
N-CA-CB	110.50	121.37	3
CA-CB-CG	112.60	106.21	1
N-CA-CB	111.50	122.36	2
C-CA-CB	109.10	123.16	1
N-CA-CB	110.50	121.36	6
C-CA-CB	110.10	122.24	3
C-CA-CB	109.10	123.15	1
N-CA-CB	110.50	121.35	5
N-CA-CB	111.50	122.35	2
N-CA-C	111.00	93.13	1
N-CA-C	112.10	128.06	1
N-CA-CB	110.40	119.97	1
C-CA-CB	110.10	122.22	2
N-CA-CB	110.50	121.34	4
C-CA-CB	110.50	120.07	1
CD1-CG-CD2	110.80	124.83	1
CA-CB-CG2	110.50	121.34	1
C-CA-CB	111.40	123.52	1
N-CA-CB	111.50	122.34	3
C-CA-CB	110.10	122.21	3
C-CA-CB	111.60	124.35	1
N-CA-CB	110.50	121.33	3

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CG1-CB-CG2	110.80	124.81	1
N-CA-CB	111.50	122.33	1
N-CA-CB	103.00	110.01	1
CA-CB-CG	112.60	106.23	1
N-CA-CB	111.50	122.32	1
C-CA-CB	110.50	120.05	1
N-CA-C	111.00	93.17	1
N-CA-CB	110.50	121.32	3
C-CA-CB	110.10	122.19	2
CA-C-N	116.90	126.45	1
C-CA-CB	110.10	98.01	1
N-CA-CB	110.50	121.31	2
N-CA-CB	110.40	119.94	1
C-CA-CB	110.50	120.04	1
C-CA-CB	110.10	122.18	2
CG1-CB-CG2	110.80	124.78	1
C-N-CA	121.70	110.26	1
N-CA-CB	110.50	121.30	7
C-CA-CB	110.50	120.03	1
N-CA-CB	111.50	122.30	2
CA-CB-CG	112.60	106.25	1
C-CA-CB	110.10	122.17	1
N-CA-CB	110.50	121.29	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	122.16	1
N-CA-CB	111.50	122.29	2
C-CA-CB	110.10	122.15	1
CA-C-N	116.20	128.89	1
N-CA-CB	110.50	121.28	4
N-CA-CB	111.50	122.28	1
N-CA-C	111.00	128.76	1
C-CA-CB	110.50	100.99	1
C-CA-CB	110.10	122.14	2
N-CA-C	111.00	128.75	1
N-CA-CB	110.50	121.27	4
N-CA-C	113.30	94.92	1
N-CA-CB	111.50	122.27	2
CA-CB-CG2	110.40	99.63	1
CG-SD-CE	100.90	86.97	1
N-CA-C	112.10	96.28	1
N-CA-CB	110.50	121.26	1
N-CA-CB	111.50	122.26	1
CA-CB-CG	113.80	107.47	1
N-CA-CB	111.50	122.25	2
N-CA-CB	110.50	121.25	2
C-CA-CB	110.10	122.11	1
CA-CB-CG	112.60	106.28	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	98.09	1
N-CA-C	111.00	93.30	1
N-CA-CB	110.50	121.24	4
N-CA-C	111.00	93.31	3
N-CA-CB	111.50	122.24	1
N-CA-CB	103.00	109.95	1
C-N-CA	121.70	133.07	1
C-CA-CB	110.10	122.10	1
C-CA-CB	110.10	122.09	1
N-CA-CB	110.50	121.23	4
C-CA-CB	110.50	119.97	1
CA-C-N	116.20	128.82	2
N-CA-CB	111.50	122.23	1
N-CA-CB	111.50	122.22	1
O-C-N	123.00	112.91	1
N-CA-CB	110.50	121.22	3
C-CA-CB	110.10	122.08	3
N-CA-C	112.10	96.34	1
CA-C-N	116.20	128.81	1
N-CA-CB	110.50	121.21	3
C-CA-CB	110.10	122.07	1
CA-CB-CG	113.80	107.50	1
N-CA-CB	110.50	121.20	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	122.06	1
CA-CB-CG	112.60	106.31	1
CA-CB-CG	113.80	107.51	1
C-CA-CB	110.50	119.94	1
N-CA-CB	111.50	122.20	1
N-CA-CB	110.50	121.19	2
CG1-CB-CG2	110.80	124.64	1
CA-CB-CG2	110.50	121.19	1
O-C-N	123.00	112.94	1
C-CA-CB	110.10	122.04	1
N-CA-C	111.00	93.40	1
N-CA-CB	111.50	122.18	1
N-CA-CB	110.50	99.82	1
O-C-N	123.00	112.95	1
C-N-CA	121.70	133.00	1
N-CA-C	111.00	93.42	1
C-CA-CB	110.10	122.03	1
N-CA-CB	110.50	121.17	1
CA-CB-CG	114.10	126.65	1
C-CA-CB	110.10	122.02	1
N-CA-CB	110.50	121.16	4
C-CA-CB	110.10	122.01	2
N-CA-CB	110.50	121.15	5

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-C-N	116.20	128.73	1
N-CA-CB	110.40	119.80	1
CA-CB-CG	112.60	106.34	1
C-N-CA	121.70	110.42	1
CA-CB-CG	113.90	102.63	1
C-CA-CB	110.10	122.00	1
O-C-N	123.00	112.98	1
C-CA-CB	110.10	98.20	1
C-CA-CB	110.10	121.99	2
N-CA-CB	110.50	121.14	3
CA-C-O	120.80	110.16	1
C-CA-CB	110.50	119.88	1
CB-CG-CD2	120.70	131.33	1
N-CA-CB	110.50	121.13	1
CA-CB-CG	112.60	118.85	1
CG1-CB-CG2	110.80	124.55	1
N-CA-CB	110.50	121.12	4
CG1-CB-CG2	110.80	124.54	1
C-CA-CB	110.50	119.87	1
CA-C-N	116.20	128.69	1
C-CA-CB	110.10	121.97	2
CA-CB-CG2	110.50	121.11	1
N-CA-C	111.00	93.52	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	121.11	3
CG1-CB-CG2	110.70	129.43	1
C-N-CA	121.70	132.93	1
C-CA-CB	110.10	98.24	1
N-CA-C	111.00	93.53	1
CA-CB-CG	113.90	102.67	1
C-N-CA	121.70	110.47	1
CA-CB-CG	112.60	106.36	1
CA-C-N	116.20	128.67	1
N-CA-CB	110.50	121.10	3
CA-CB-CG2	110.40	121.00	1
N-CA-CB	111.50	122.10	1
N-CA-CB	110.50	121.09	3
N-CA-CB	111.50	122.09	3
C-CA-CB	110.10	121.94	2
CA-CB-CG	113.80	107.57	1
C-CA-CB	110.10	121.93	1
N-CA-C	112.10	96.53	1
N-CA-CB	110.50	121.08	4
N-CA-CB	111.50	122.08	1
C-CA-CB	110.10	121.92	1
CA-CB-CG	113.80	107.58	2
C-CA-CB	109.10	122.78	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	111.50	122.07	1
N-CA-CB	110.50	121.07	3
C-CA-CB	110.10	121.91	2
CA-CB-CG	113.80	120.02	1
N-CA-CB	111.50	122.06	3
CA-C-N	116.20	128.63	1
N-CA-CB	110.50	121.06	4
CA-CB-CG1	110.40	99.84	1
C-CA-CB	110.10	121.90	2
C-N-CA	121.70	132.88	1
C-N-CA	121.70	110.52	1
N-CA-CB	111.50	122.05	1
N-CA-CB	110.50	121.05	1
C-N-CA	121.70	110.53	1
CA-CB-CG	113.80	107.60	2
C-CA-CB	110.50	119.80	2
N-CA-CB	110.50	121.04	5
C-CA-CB	110.10	121.88	1
CA-CB-CG	113.90	125.06	1
CA-CB-CG	112.60	106.40	1
CA-C-N	116.20	128.60	1
C-CA-CB	110.10	98.32	1
N-CA-C	111.00	128.36	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	111.50	122.04	1
N-CA-CB	111.50	122.03	1
CA-CB-CG	112.60	106.41	1
N-CA-CB	110.50	121.03	2
C-CA-CB	110.10	121.87	1
CA-CB-CG	113.80	107.61	1
C-N-CA	121.70	110.55	1
C-N-CA	121.70	132.84	1
CA-CB-CG2	110.40	99.88	1
CA-C-N	116.20	128.58	1
N-CA-CB	110.50	121.02	3
N-CA-CB	111.50	122.02	2
C-CA-CB	110.10	121.86	2
C-CA-CB	110.10	98.34	1
N-CA-C	111.00	93.67	2
C-CA-CB	110.10	121.85	1
N-CA-C	111.00	128.32	1
N-CA-CB	110.50	121.01	4
C-CA-CB	110.50	119.77	1
N-CA-C	111.00	93.69	1
C-CA-CB	110.10	121.84	3
N-CA-CB	110.50	121.00	5
C-CA-CB	110.10	121.83	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	111.50	122.00	1
CA-CB-CG	112.60	106.43	2
C-N-CA	121.70	132.81	1
CA-C-N	116.20	128.54	2
CA-CB-CG2	110.50	120.99	1
N-CA-CB	110.50	120.99	1
C-N-CA	121.70	110.59	1
N-CA-CB	111.50	121.99	1
N-CA-CB	110.50	120.98	4
C-N-CA	121.70	132.80	1
CA-C-N	116.20	128.53	1
C-CA-CB	110.10	121.81	4
CA-CB-CG1	110.40	120.88	1
CA-CB-CG2	110.50	120.98	1
CA-CB-CG	113.80	107.64	1
C-N-CA	121.70	132.79	1
N-CA-CB	111.50	121.98	1
N-CA-CB	110.50	120.97	4
N-CA-CB	103.00	109.78	1
CA-CB-CG2	110.50	120.97	1
N-CA-CB	111.50	121.97	2
C-N-CA	121.70	110.61	1
N-CA-C	111.00	93.76	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.50	119.73	3
C-N-CA	121.70	110.62	1
N-CA-CB	111.50	121.96	3
N-CA-C	111.00	128.23	1
CA-CB-CG1	110.40	120.86	1
N-CA-CB	110.50	120.96	2
C-CA-CB	110.10	121.79	1
C-N-CA	121.70	110.63	1
N-CA-CB	110.50	120.95	3
C-N-CA	121.70	132.77	1
N-CA-CB	111.50	121.95	1
C-CA-CB	110.50	119.72	1
C-N-CA	121.70	110.64	2
N-CA-CB	103.00	109.76	3
CA-CB-CG	112.60	106.46	1
CA-CB-CG	113.80	107.66	1
CA-C-N	116.20	103.92	1
N-CA-C	111.00	93.80	1
N-CA-CB	110.50	120.94	3
C-CA-CB	110.50	119.71	1
N-CA-CB	111.50	121.94	1
C-N-CA	121.70	110.65	1
C-CA-CB	111.60	123.88	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	121.76	1
N-CA-CB	110.50	120.93	1
O-C-N	123.00	113.18	1
CA-C-O	120.80	110.37	1
C-CA-CB	110.10	98.45	1
N-CA-CB	110.50	120.92	3
CA-CB-CG	113.80	107.67	1
N-CA-CB	111.50	121.92	1
C-N-CA	121.70	132.73	1
N-CA-C	111.00	128.16	1
C-CA-CB	110.50	119.69	1
C-CA-CB	110.10	121.74	2
CA-C-N	116.20	103.94	1
CD1-CG-CD2	110.80	124.28	1
N-CA-CB	111.50	121.91	2
N-CA-CB	110.40	119.59	1
CA-CB-CG	112.60	106.48	1
O-C-N	123.00	113.20	1
C-N-CA	121.70	132.72	1
N-CA-CB	110.50	120.91	1
CA-C-O	120.80	131.21	1
C-CA-CB	110.10	121.73	1
N-CA-CB	110.50	120.90	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-C-O	120.80	110.40	1
N-CA-C	111.00	128.12	1
N-CA-CB	110.50	120.89	1
N-CA-CB	111.50	121.89	1
N-CA-CB	103.00	109.72	1
N-CA-C	111.00	93.89	1
C-CA-CB	110.10	121.71	1
CA-CB-CG	113.90	124.89	1
C-CA-CB	109.10	122.54	1
C-N-CA	121.70	132.69	1
N-CA-CB	110.50	120.88	7
N-CA-CB	110.40	119.56	1
N-CA-CB	111.50	121.88	3
C-CA-CB	110.10	121.70	3
CA-C-N	116.20	128.41	1
N-CA-CB	110.50	120.87	5
N-CA-CB	111.50	121.87	2
C-CA-CB	110.10	98.51	1
CA-CB-CG	112.60	106.50	1
CA-CB-CG	113.80	107.70	1
C-CA-CB	110.10	121.68	1
C-N-CA	121.70	132.67	2
CA-CB-CG	113.80	107.71	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	111.50	121.86	2
N-CA-CB	110.50	120.86	1
N-CA-CB	110.40	119.54	1
CA-C-N	116.20	104.02	1
N-CA-CB	110.40	119.53	1
N-CA-CB	110.50	120.85	1
CG1-CB-CG2	110.80	124.19	1
C-CA-CB	110.50	119.63	2
C-CA-CB	110.10	121.66	2
N-CA-CB	111.50	121.85	1
N-CA-CB	110.50	120.84	2
N-CA-CB	111.50	121.84	2
C-N-CA	121.70	110.75	1
CB-CG-CD	112.60	102.26	1
N-CA-CB	110.50	120.83	4
N-CA-CB	111.50	121.83	1
C-CA-CB	110.50	119.62	1
N-CA-C	111.00	128.01	1
CA-CB-CG	113.80	107.72	1
CA-CB-CG2	110.50	120.83	1
C-CA-CB	110.10	121.64	1
C-CA-CB	109.10	122.46	1
N-CA-CB	110.50	120.82	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	121.63	1
C-N-CA	121.70	132.62	1
N-CA-CB	111.50	121.81	1
CA-CB-CG2	110.50	120.81	1
CA-CB-CG	113.90	102.98	1
CA-C-N	116.20	128.33	1
CA-C-N	116.20	104.07	1
O-C-N	123.00	113.30	1
C-CA-CB	110.10	121.62	1
N-CA-CB	110.50	120.81	2
CA-CB-CG	112.60	106.54	1
CB-CG-CD	111.30	125.25	1
CA-CB-CG	114.10	126.23	1
CA-CB-CG	113.80	107.74	1
N-CA-CB	110.50	120.80	3
C-CA-CB	111.60	123.72	1
N-CA-C	111.00	127.96	1
C-CA-CB	109.10	122.43	1
CA-CB-CG1	110.40	120.69	1
N-CA-CB	110.50	120.79	3
C-CA-CB	111.40	122.91	1
N-CA-CB	110.40	119.48	1
CA-C-N	116.20	128.31	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG	113.80	107.75	2
N-CA-C	111.00	94.05	1
C-CA-CB	110.50	119.58	1
C-CA-CB	110.10	121.60	3
C-CA-CB	111.60	123.70	1
CG1-CB-CG2	110.70	128.85	1
N-CA-C	111.00	94.07	2
N-CA-CB	110.50	120.78	2
C-CA-CB	110.10	121.58	1
N-CA-CB	111.50	121.77	3
N-CA-CB	110.50	120.77	2
CA-CB-CG	114.10	102.02	1
C-CA-CB	110.10	121.57	2
N-CA-C	112.10	127.20	1
N-CA-CB	111.50	121.76	2
C-N-CA	121.70	110.83	1
N-CA-CB	110.50	120.76	3
CA-CB-CG	112.60	106.56	1
CA-C-N	116.20	128.27	1
N-CA-C	111.00	127.90	1
O-C-N	123.00	113.35	1
N-CA-CB	103.00	109.64	1
N-CA-CB	110.50	120.75	3

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	111.50	121.75	2
N-CA-C	111.00	127.88	1
C-CA-CB	110.10	121.56	1
C-CA-CB	110.10	121.55	2
CA-CB-CG	113.80	107.77	1
CG1-CB-CG2	110.70	128.78	1
CD1-CG-CD2	110.80	124.05	1
CA-CB-CG	113.80	107.78	1
C-CA-CB	111.60	123.64	1
CA-C-N	116.20	128.24	1
CG1-CB-CG2	110.80	124.05	1
N-CA-CB	111.50	121.73	4
N-CA-CB	110.50	120.73	1
C-CA-CB	111.60	99.56	1
C-CA-CB	110.10	121.54	1
C-CA-CB	110.10	121.53	1
CA-CB-CG2	110.50	120.73	1
CA-CB-CG	112.60	106.58	1
CA-CB-CG	114.10	126.13	1
CA-C-O	120.80	110.57	1
CD1-CG-CD2	110.80	124.03	1
N-CA-C	111.00	94.16	1
N-CA-CB	111.50	121.72	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
O-C-N	123.00	113.38	1
CA-C-O	120.80	110.58	1
N-CA-CB	110.50	120.72	3
N-CA-C	111.00	94.17	2
C-N-CA	121.70	110.88	1
C-CA-CB	110.10	121.52	1
C-CA-CB	110.50	119.51	1
N-CA-CB	110.50	120.71	1
O-C-N	123.00	113.39	1
N-CA-C	111.00	127.81	1
C-CA-CB	110.10	121.51	1
N-CA-CB	111.50	121.71	1
C-N-CA	121.70	132.50	1
N-CA-CB	110.50	120.70	3
C-N-CA	121.70	110.90	1
CA-CB-CG	113.80	107.80	1
N-CA-CB	110.50	120.69	3
C-CA-CB	110.10	121.49	2
C-N-CA	121.70	132.49	3
CA-C-O	120.80	110.61	1
N-CA-CB	111.50	121.69	1
C-CA-CB	110.50	119.49	1
C-CA-CB	110.10	121.48	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	111.60	123.58	2
C-N-CA	121.70	132.48	1
N-CA-CB	111.50	121.68	1
CA-CB-CG	113.80	107.81	1
N-CA-CB	110.50	120.68	1
O-C-N	123.00	113.42	1
N-CA-CB	111.50	121.67	2
O-C-N	123.00	113.43	2
N-CA-CB	110.50	120.67	1
C-CA-CB	110.10	121.46	2
CA-C-N	116.20	128.16	1
CG1-CB-CG2	110.80	123.95	1
N-CA-CB	103.00	109.58	1
N-CA-CB	110.50	120.66	2
N-CA-CB	111.50	121.66	2
C-N-CA	121.70	110.95	1
CA-CB-OG1	109.60	118.56	1
CA-CB-CG	112.60	106.63	1
C-CA-CB	110.10	121.45	1
CD1-CG-CD2	110.80	123.94	1
CD1-CG-CD2	110.80	123.93	1
N-CA-C	111.00	127.71	2
CA-CB-CG	113.80	107.83	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	120.65	1
CD1-CG-CD2	110.80	123.92	1
N-CA-C	111.00	127.70	1
N-CA-C	111.00	94.31	1
N-CA-CB	110.50	120.64	1
CA-C-N	116.20	128.12	1
C-CA-CB	110.10	121.42	3
N-CA-CB	110.50	120.63	3
N-CA-CB	111.50	121.63	4
CG1-CB-CG2	110.70	128.58	1
CA-CB-CG	113.80	107.84	1
CA-C-N	116.20	128.11	2
CA-CB-CG	113.80	107.85	4
CA-CB-CG	113.90	103.18	1
C-CA-CB	110.50	119.43	1
C-N-CA	121.70	132.41	1
CG1-CB-CG2	110.80	123.90	1
C-CA-CB	110.10	121.41	2
CA-C-N	116.20	104.30	1
N-CA-CB	110.50	120.62	1
CD1-CG-CD2	110.80	123.89	2
N-CA-C	111.00	94.34	2
CA-C-N	116.20	128.10	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-N-CA	121.70	110.99	1
CA-CB-CG	112.60	106.65	1
C-CA-CB	110.10	121.40	1
N-CA-CB	110.50	120.61	2
CA-CB-CG	113.80	107.86	1
CA-CB-CG	112.60	106.66	2
C-CA-CB	110.50	119.42	1
C-N-CA	121.70	111.00	1
N-CA-CB	110.50	120.60	2
C-CA-CB	110.10	121.39	1
CB-CG-CD	112.60	122.70	1
N-CA-C	111.00	127.63	1
C-CA-CB	110.10	121.38	1
C-N-CA	121.70	132.39	2
C-CA-CB	110.10	98.82	1
N-CA-C	113.30	96.08	1
N-CA-C	111.00	94.38	1
N-CA-CB	111.50	121.59	1
N-CA-CB	103.00	109.53	1
O-C-N	123.00	113.50	1
C-N-CA	121.70	132.38	1
CA-C-O	120.80	110.71	1
C-CA-CB	110.10	121.37	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	120.59	1
N-CA-CB	110.50	120.58	2
N-CA-C	111.00	94.39	1
N-CA-CB	111.50	121.58	4
C-CA-CB	111.40	122.67	1
CA-CB-CG	112.60	106.67	1
C-N-CA	121.70	132.37	2
C-N-CA	121.70	111.03	1
CG1-CB-CG2	110.80	123.84	1
N-CA-CB	110.50	120.57	3
N-CA-C	111.00	94.41	1
CA-CB-CG	113.80	107.88	2
CA-CB-CG2	110.50	120.57	1
CA-C-N	116.20	128.05	1
OG1-CB-CG2	109.30	121.15	1
N-CA-CB	111.50	121.56	1
N-CA-C	111.00	127.57	1
C-CA-CB	110.10	121.34	4
CD1-CG-CD2	110.80	123.82	1
C-CA-CB	111.60	123.43	1
C-CA-CB	110.50	119.37	2
CD1-CG-CD2	110.80	123.81	2
N-CA-CB	110.50	120.56	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-C-N	116.20	128.03	1
CA-CB-CG	113.80	107.89	2
N-CA-CB	111.50	121.55	1
C-N-CA	121.70	132.34	2
N-CA-CB	110.50	120.55	1
CA-CB-CG	113.90	124.54	1
C-CA-CB	110.10	121.33	1
OG1-CB-CG2	109.30	121.12	1
C-CA-CB	110.10	121.32	4
CG-CD-NE	112.00	99.00	1
N-CA-CB	110.50	120.54	2
O-C-N	123.00	113.55	1
C-N-CA	121.70	132.33	1
C-CA-CB	110.50	119.35	1
N-CA-CB	110.50	120.53	2
O-C-N	123.00	113.56	1
C-CA-CB	111.40	100.19	1
C-CA-CB	110.10	121.31	1
N-CA-C	113.30	96.19	1
N-CA-CB	111.50	121.53	1
C-CA-CB	110.10	121.30	2
CA-CB-CG	112.60	106.70	1
N-CA-CB	110.50	120.52	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-C-N	116.20	127.99	1
N-CA-C	111.00	127.51	1
N-CA-CB	103.00	109.48	1
N-CA-CB	110.50	100.48	1
CA-C-N	116.20	127.98	1
CA-C-N	116.90	125.74	1
C-CA-CB	110.10	121.29	3
N-CA-CB	110.50	120.51	4
C-CA-CB	110.50	119.33	4
O-C-N	123.00	113.58	1
N-CA-CB	110.40	119.23	1
CA-CB-CG	112.60	106.71	1
C-CA-CB	110.10	121.28	1
CA-C-N	116.90	108.07	1
N-CA-CB	110.50	120.50	4
C-CA-CB	109.10	122.04	1
C-N-CA	121.70	132.29	1
CA-C-N	116.20	127.96	1
CA-C-O	120.80	110.80	2
CA-CB-CG	113.90	103.31	1
N-CA-CB	111.50	121.50	1
N-CA-CB	111.50	121.49	1
N-CA-CB	110.50	120.49	4

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	121.27	1
C-CA-CB	111.40	122.56	1
C-CA-CB	110.10	121.26	2
C-N-CA	121.70	132.27	1
OG1-CB-CG2	109.30	121.05	1
N-CA-C	111.00	94.56	1
N-CA-CB	110.50	120.48	3
CA-CB-CG	113.90	103.33	1
C-CA-CB	110.10	121.25	3
N-CA-CB	111.50	121.48	2
CA-CB-CG2	110.50	120.48	1
N-CA-CB	111.50	121.47	3
CA-C-O	120.80	110.83	1
CA-CB-CG2	110.50	120.47	1
C-N-CA	121.70	132.25	1
CA-C-N	116.20	127.92	1
N-CA-CB	110.50	120.46	4
C-CA-CB	110.10	121.23	2
CA-CB-CG2	110.50	120.46	1
C-CA-CB	110.10	98.97	1
N-CA-CB	111.50	121.46	1
N-CA-CB	110.50	120.45	4
O-C-N	123.00	113.63	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	111.50	121.45	2
CA-C-O	120.80	110.85	1
CA-CB-CG	112.60	118.45	1
CA-C-N	116.20	127.91	1
C-CA-CB	110.10	121.22	1
C-CA-CB	111.60	123.30	1
CD1-CG-CD2	110.80	123.67	1
C-N-CA	121.70	132.23	1
C-CA-CB	110.10	121.21	2
C-N-CA	121.70	132.22	1
C-CA-CB	110.10	121.20	3
CA-CB-CG	113.80	107.96	1
N-CA-CB	110.50	120.43	2
CA-C-O	120.80	110.87	1
CA-CB-CG	112.60	106.76	2
C-CA-CB	110.50	119.26	1
CA-CB-CG	113.80	119.64	1
N-CA-CB	111.50	121.43	1
N-CA-CB	110.50	120.42	4
C-N-CA	121.70	132.20	1
N-CA-CB	110.40	119.15	1
C-CA-CB	110.10	121.18	3
C-CA-CB	111.40	122.48	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.50	119.24	1
C-CA-CB	110.10	121.17	4
CA-CB-CG	113.80	107.97	1
CA-C-N	116.20	127.85	1
C-N-CA	121.70	132.18	1
C-CA-CB	110.50	119.23	3
C-CA-CB	110.10	121.16	4
N-CA-CB	110.50	120.40	1
N-CA-C	112.10	97.55	1
N-CA-CB	111.50	121.40	1
CD1-CG-CD2	110.80	123.60	2
CA-CB-CG2	110.50	120.39	1
N-CA-CB	103.00	109.40	1
N-CA-CB	110.50	120.39	3
C-CA-CB	110.50	101.78	1
C-N-CA	121.70	111.23	1
C-CA-CB	110.10	121.15	2
N-CA-CB	110.50	120.38	2
C-CA-CB	111.60	123.23	1
C-N-CA	121.70	132.16	2
C-CA-CB	110.10	121.14	2
N-CA-C	111.00	127.28	1
CA-CB-CG	112.60	106.79	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-C	111.00	94.73	1
C-CA-CB	110.10	99.06	1
C-CA-CB	110.10	121.13	1
N-CA-CB	111.50	121.37	3
C-N-CA	121.70	132.15	1
CG1-CB-CG2	110.80	123.57	1
N-CA-C	111.00	94.75	1
N-CA-CB	110.50	120.37	1
N-CA-CB	111.50	101.64	1
C-CA-CB	110.50	119.20	1
CG1-CB-CG2	110.70	128.11	1
CA-C-N	116.90	125.60	1
N-CA-CB	110.40	119.10	1
N-CA-CB	110.50	100.64	1
N-CA-C	111.00	127.24	1
OG1-CB-CG2	109.30	120.90	1
CA-C-N	116.90	108.20	1
N-CA-CB	110.50	120.36	3
N-CA-CB	111.50	121.36	1
N-CA-C	111.00	94.76	1
N-CA-C	111.00	94.77	1
CA-CB-CG	112.60	106.80	1
O-C-N	123.00	113.72	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	121.12	1
N-CA-CB	111.50	121.35	1
C-CA-CB	110.10	121.11	3
CA-C-N	116.20	127.79	1
N-CA-CB	110.50	120.35	2
CA-C-O	120.80	110.95	1
CA-CB-CG	113.80	108.01	1
N-CA-CB	111.50	121.34	2
N-CA-C	112.10	97.62	1
N-CA-CB	110.50	120.34	2
C-CA-CB	110.50	119.18	1
CA-CB-CG2	110.50	120.34	1
N-CA-CB	110.40	119.08	1
N-CA-C	113.30	96.53	1
N-CA-CB	111.50	121.33	4
C-N-CA	121.70	132.11	1
N-CA-C	111.00	94.80	1
C-CA-CB	110.10	121.09	3
C-CA-CB	111.40	122.39	1
CD1-CG-CD2	110.80	123.52	3
N-CA-CB	110.50	100.67	1
CA-C-N	116.20	127.76	1
O-C-N	123.00	113.75	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	121.08	2
N-CA-C	111.00	94.82	1
N-CA-CB	110.50	120.32	2
C-CA-CB	111.60	123.15	1
CA-CB-CG	113.80	108.02	1
O-C-N	123.00	113.76	2
C-CA-CB	110.50	119.16	1
N-CA-CB	111.50	121.32	1
N-CA-C	112.10	126.53	1
N-CA-CB	110.50	120.31	4
C-CA-CB	110.10	121.07	1
CA-CB-CG	112.60	106.83	1
N-CA-CB	111.50	121.31	3
CA-C-O	120.80	110.99	1
C-CA-CB	111.60	100.06	1
C-CA-CB	110.10	99.13	1
CA-C-O	120.80	108.68	1
CA-CB-CG	113.90	103.51	1
CB-CG-CD	112.60	122.41	1
C-N-CA	121.70	132.08	2
N-CA-CB	110.50	100.70	1
C-CA-CB	110.10	121.06	2
C-CA-CB	111.40	122.36	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	121.05	3
N-CA-CB	110.50	120.30	3
C-CA-CB	110.10	121.04	1
N-CA-CB	111.50	121.29	1
C-N-CA	121.70	111.33	1
N-CA-CB	110.50	120.29	1
CA-CB-CG	113.80	108.04	1
CA-CB-CG	112.60	106.84	1
CD1-CG-CD2	110.80	123.46	2
C-CA-CB	110.10	121.03	2
C-CA-CB	111.60	123.11	1
N-CA-C	111.00	94.89	1
C-N-CA	121.70	132.06	1
C-CA-CB	110.10	99.17	1
CA-CB-CG2	110.50	120.28	1
N-CA-CB	111.50	121.28	1
CA-CB-CG2	110.50	120.27	1
C-CA-CB	110.10	121.02	4
CA-C-N	116.20	127.70	1
CD1-CG-CD2	110.80	123.44	1
N-CA-CB	110.50	120.27	2
C-CA-CB	110.50	119.12	2
N-CA-CB	111.50	121.27	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG	113.80	108.05	1
C-CA-CB	110.10	121.01	5
C-N-CA	121.70	111.36	1
CB-CG1-CD1	113.80	125.86	1
C-N-CA	121.70	132.04	1
CA-CB-CG	113.80	108.06	1
C-CA-CB	111.40	122.30	1
OG1-CB-CG2	109.30	120.77	1
C-CA-CB	110.10	121.00	2
N-CA-CB	103.00	109.31	1
N-CA-CB	110.50	120.25	2
N-CA-CB	111.50	121.25	1
C-CA-CB	110.10	120.99	1
C-CA-CB	110.10	99.21	1
N-CA-C	112.10	126.42	1
C-N-CA	121.70	111.39	1
C-N-CA	121.70	132.01	1
CD1-CG-CD2	110.80	123.40	1
N-CA-CB	110.50	120.23	2
CA-CB-CG	113.80	108.08	1
C-CA-CB	110.10	120.97	1
CA-CB-CG2	110.50	120.23	1
N-CA-CB	103.00	109.29	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-C-N	116.20	127.64	1
C-CA-CB	111.60	100.16	1
N-CA-CB	111.50	121.22	1
CD1-CG-CD2	110.80	123.38	2
OG1-CB-CG2	109.30	120.74	1
C-CA-CB	109.10	121.68	1
C-CA-CB	110.10	120.96	2
N-CA-CB	110.50	120.21	2
N-CA-C	111.00	95.00	1
C-CA-CB	110.50	119.07	1
CA-CB-CG	113.80	108.09	2
CA-C-O	120.80	111.09	1
N-CA-CB	111.50	121.21	1
C-CA-CB	110.50	119.06	1
N-CA-CB	110.50	120.20	3
N-CA-CB	111.50	121.20	1
OG1-CB-CG2	109.30	120.71	1
CA-C-N	116.90	125.46	1
CD1-CG-CD2	110.80	123.35	1
C-N-CA	121.70	111.43	1
CA-CB-CG2	110.50	120.20	1
C-CA-CB	110.10	120.94	3
CA-CB-CG	113.80	108.10	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-C-O	120.80	111.11	1
N-CA-CB	111.50	121.19	2
N-CA-C	112.10	126.35	1
C-CA-CB	110.10	120.93	1
C-CA-CB	110.50	119.05	1
N-CA-CB	110.50	120.19	1
CB-CG-CD	112.60	102.91	1
C-CA-CB	110.10	120.92	1
CG1-CB-CG2	110.70	127.79	1
C-N-CA	121.70	111.45	2
CD1-CG-CD2	110.80	123.33	2
N-CA-C	113.30	96.78	1
CA-CB-CG	112.60	106.91	1
CA-CB-CG	113.80	108.11	1
N-CA-CB	111.50	121.18	1
CA-C-N	116.20	127.58	1
C-CA-CB	110.10	120.91	1
C-CA-CB	110.50	119.04	1
N-CA-C	111.00	95.07	1
N-CA-CB	111.50	121.17	1
C-N-CA	121.70	111.46	1
CA-CB-CG	113.90	103.66	1
C-CA-CB	111.60	122.98	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	111.60	100.23	1
CD-NE-CZ	124.40	132.36	1
N-CA-CB	103.00	109.26	1
CD1-CG-CD2	110.80	123.31	1
C-N-CA	121.70	131.93	2
CG1-CB-CG2	110.80	123.31	1
C-CA-CB	110.10	120.90	1
CA-CB-CG2	110.50	120.16	1
N-CA-CB	110.50	120.16	2
N-CA-CB	111.50	101.84	1
CA-CB-CG2	110.40	100.74	1
C-N-CA	121.70	111.48	1
CA-CB-CG	112.60	106.92	1
C-CA-CB	111.40	100.61	1
O-C-N	123.00	113.91	1
C-CA-CB	110.10	120.89	1
N-CA-CB	110.50	120.15	2
C-CA-CB	110.50	119.01	1
N-CA-CB	111.50	121.15	1
CA-CB-CG	113.80	108.13	1
C-CA-CB	110.10	120.87	2
N-CA-CB	110.50	120.14	2
O-C-N	123.00	113.93	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG	112.60	106.93	1
N-CA-CB	111.50	121.13	1
N-CA-CB	110.50	120.13	2
N-CA-C	111.00	95.13	1
C-CA-CB	110.10	120.86	4
CA-CB-CG2	110.50	120.13	1
C-CA-CB	110.50	102.00	1
CD1-CG-CD2	110.80	123.25	2
C-CA-CB	110.50	118.99	1
N-CA-C	112.10	97.95	1
C-CA-CB	110.10	120.85	1
CA-CB-CG2	110.50	120.12	1
N-CA-CB	110.50	120.12	1
CA-CB-CG2	110.50	100.88	1
N-CA-C	111.00	95.16	1
N-CA-CB	110.50	120.11	3
CA-C-N	116.20	127.51	1
CA-C-O	120.80	108.92	1
C-N-CA	121.70	131.88	1
CA-CB-CG	112.60	106.95	1
CA-C-N	116.20	104.89	1
CA-C-O	120.80	111.19	2
C-CA-CB	110.10	120.84	4

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CD1-CG-CD2	110.80	123.24	1
CA-CB-CG	113.80	108.15	1
C-N-CA	121.70	111.53	1
C-CA-CB	110.10	99.36	1
C-CA-CB	111.60	122.90	1
N-CA-CB	110.50	120.10	1
CD1-CG-CD2	110.80	123.23	1
C-CA-CB	110.10	120.83	3
N-CA-CB	111.50	101.90	1
C-CA-CB	110.50	118.97	1
O-C-N	123.00	113.97	1
C-N-CA	121.70	131.86	1
N-CA-CB	110.50	120.09	3
CD1-CG-CD2	110.80	123.21	3
C-CA-CB	110.10	120.82	1
C-CA-CB	110.50	118.96	2
C-N-CA	121.70	131.85	1
CA-C-O	120.80	111.21	1
CA-C-N	116.20	127.48	1
N-CA-C	111.00	126.79	1
N-CA-CB	110.50	120.08	1
N-CA-CB	111.50	121.08	2
C-N-CA	121.70	131.84	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	99.39	1
C-CA-CB	110.10	120.81	1
CA-C-N	116.90	125.35	1
C-CA-CB	110.10	120.80	3
CA-CB-CG	113.80	108.17	1
C-CA-CB	110.50	118.95	2
N-CA-C	112.10	98.02	1
C-CA-CB	111.40	100.70	1
C-CA-CB	110.10	120.79	3
OG1-CB-CG2	109.30	120.56	1
N-CA-CB	111.50	121.07	1
OG1-CB-CG2	109.30	120.55	1
C-N-CA	121.70	111.57	1
CD1-CG-CD2	110.80	123.18	1
C-CA-CB	110.50	118.94	2
CA-CB-CG2	110.50	120.06	2
N-CA-CB	111.50	121.06	4
C-CA-CB	110.50	102.06	1
N-CA-CB	110.50	120.06	1
C-N-CA	121.70	111.58	1
C-N-CA	121.70	131.82	1
C-CA-CB	110.10	120.78	3
CA-CB-CG	113.80	108.18	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CD1-CG-CD2	110.80	123.17	1
CD1-CG-CD2	118.60	110.17	1
N-CA-CB	110.50	120.05	1
N-CA-CB	111.50	121.05	2
OG1-CB-CG2	109.30	120.53	2
C-CA-CB	110.10	120.77	4
C-N-CA	121.70	111.59	1
CD1-CG-CD2	110.80	123.15	3
CA-CB-CG	113.80	108.19	2
OG1-CB-CG2	109.30	120.52	2
C-CA-CB	110.10	120.76	1
C-N-CA	121.70	111.60	2
CD1-CG-CD2	110.80	123.14	1
N-CA-CB	110.50	120.04	1
N-CA-CB	111.50	121.03	1
N-CA-CB	110.50	120.03	2
CA-CB-CG	112.60	106.99	2
C-CA-CB	110.10	120.75	4
CD1-CG-CD2	110.80	123.13	1
CA-CB-CG2	110.50	120.03	1
C-N-CA	121.70	111.61	1
C-N-CA	121.70	111.62	1
OG1-CB-CG2	109.30	120.50	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
O-C-N	123.00	114.04	1
CB-CG-CD1	120.80	129.20	1
N-CA-CB	110.50	120.02	1
C-N-CA	121.70	131.78	1
CA-CB-CG2	110.50	120.02	1
N-CA-CB	111.50	121.02	2
C-CA-CB	110.10	120.73	3
N-CA-CB	111.50	121.01	1
C-CA-CB	111.40	122.03	1
C-CA-CB	110.50	118.89	1
C-CA-CB	110.10	99.47	1
CA-CB-CG	113.80	108.21	3
CA-C-N	116.90	125.29	1
N-CA-CB	110.50	120.01	1
O-C-N	123.00	114.05	1
CA-CB-CG2	110.50	120.01	1
CD1-CG-CD2	110.80	123.10	2
C-N-CA	121.70	111.63	1
C-CA-CB	110.10	120.72	4
N-CA-CB	110.50	120.00	1
CA-CB-CG	112.60	107.01	2
N-CA-CB	110.40	118.79	1
C-N-CA	121.70	131.76	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	111.40	122.02	1
C-CA-CB	110.50	118.88	1
CA-C-O	120.80	111.31	1
C-N-CA	121.70	131.75	2
N-CA-CB	110.50	119.99	3
CA-CB-CG	113.80	108.22	1
O-C-N	123.00	114.07	1
C-CA-CB	111.40	122.00	1
N-CA-CB	110.50	119.98	3
C-N-CA	121.70	111.66	1
CA-CB-CG	112.60	107.02	2
C-CA-CB	110.10	120.70	1
C-N-CA	121.70	131.74	1
CG1-CB-CG2	110.70	127.43	1
CD1-CG-CD2	110.80	123.07	1
O-C-N	123.00	114.08	1
C-CA-CB	110.10	120.69	1
CD1-CG-CD2	110.80	123.06	1
C-N-CA	121.70	111.67	1
CA-CB-CG2	110.50	119.97	1
CA-C-N	116.20	127.35	1
CA-CB-CG	113.80	108.23	2
CA-C-O	120.80	111.33	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-C	111.00	126.60	1
C-N-CA	121.70	131.73	1
N-CA-C	111.00	95.41	1
CD1-CG-CD2	110.80	123.05	4
N-CA-C	111.00	126.59	1
C-CA-CB	109.10	121.35	1
OG1-CB-CG2	109.30	120.43	1
CA-CB-CG	112.60	107.03	2
C-CA-CB	110.10	120.68	2
C-N-CA	121.70	131.72	1
C-CA-CB	111.40	121.98	1
CA-C-N	116.20	127.33	1
C-CA-CB	110.10	120.67	4
CA-CB-CG	114.10	102.97	1
CA-CB-CG2	110.50	119.96	1
CD1-CG-CD2	110.80	123.04	1
CA-CB-CG	113.80	108.24	2
CA-C-N	116.20	127.32	1
C-CA-CB	110.10	120.66	3
C-CA-CB	110.50	118.84	1
C-CA-CB	110.10	99.54	1
CD1-CG-CD2	110.80	123.03	1
N-CA-CB	111.50	120.95	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
OG1-CB-CG2	109.30	120.41	1
CD1-CG-CD2	110.80	123.02	3
N-CA-CB	103.00	109.11	1
C-CA-CB	110.10	99.55	1
C-N-CA	121.70	111.70	1
C-CA-CB	110.10	120.65	2
CA-CB-CG	113.90	103.91	2
N-CA-CB	110.50	119.94	2
OG1-CB-CG2	109.30	120.40	1
O-C-N	123.00	114.12	1
CD1-CG-CD2	110.80	123.01	3
N-CA-CB	111.50	120.94	1
C-CA-CB	110.10	120.64	5
C-CA-CB	110.10	99.56	1
C-N-CA	121.70	131.69	1
CD1-CG-CD2	110.80	123.00	2
CA-CB-CG	112.60	107.05	1
N-CA-CB	110.50	119.93	1
CG1-CB-CG2	110.80	123.00	1
C-CA-CB	111.40	121.94	1
CA-CB-CG	113.80	108.25	1
N-CA-C	111.00	95.47	1
C-N-CA	121.70	111.72	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-C-N	116.90	125.22	1
CD1-CG-CD2	110.80	122.99	1
CA-CB-CG	114.10	125.18	1
CA-C-N	116.20	127.28	2
OG1-CB-CG2	109.30	120.38	2
N-CA-CB	110.50	119.92	1
CA-CB-CG	113.80	108.26	1
CD1-CG-CD2	110.80	122.98	3
N-CA-CB	111.50	120.91	1
N-CA-CB	111.50	102.09	1
C-CA-CB	110.10	120.62	2
C-N-CA	121.70	131.67	1
CA-C-N	116.20	127.27	2
N-CA-C	111.00	126.50	1
N-CA-CB	110.40	118.70	1
C-CA-CB	110.10	120.61	5
CG1-CB-CG2	110.70	127.30	1
C-N-CA	121.70	131.66	1
N-CA-CB	110.50	119.91	2
N-CA-CB	110.50	119.90	3
CA-C-N	116.20	127.26	1
CD1-CG-CD2	110.80	122.97	1
C-CA-CB	110.50	118.79	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	120.60	3
CA-CB-CG	113.80	108.27	1
CD1-CG-CD2	110.80	122.96	1
C-CA-CB	109.10	121.25	1
C-CA-CB	110.10	120.59	3
C-N-CA	121.70	131.64	2
CG1-CB-CG2	110.70	127.27	1
CD1-CG-CD2	110.80	122.95	1
C-CA-CB	110.50	118.78	1
N-CA-CB	111.50	120.89	1
OG1-CB-CG2	109.30	120.34	1
CA-CB-CG	113.80	108.28	1
C-CA-CB	109.10	121.24	1
CA-CB-CG	113.90	103.97	1
N-CA-C	111.00	95.56	1
CA-C-N	116.20	127.23	1
CA-CB-CG	112.60	107.09	4
OG1-CB-CG2	109.30	120.33	1
CA-CB-CG	113.80	108.29	1
N-CA-CB	110.50	119.87	2
CD1-CG-CD2	110.80	122.93	1
OG1-CB-CG2	109.30	120.32	1
N-CA-CB	110.40	118.67	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.50	118.77	1
CA-C-O	120.80	109.23	1
CD1-CG-CD2	110.80	122.92	2
C-CA-CB	110.10	120.57	3
CA-C-O	120.80	111.43	1
N-CA-CB	110.50	119.86	1
OG1-CB-CG2	109.30	120.31	1
CD1-CG-CD2	110.80	122.91	3
C-N-CA	121.70	111.79	1
N-CA-CB	110.40	118.66	1
C-CA-CB	110.10	120.56	1
O-C-N	123.00	114.19	1
N-CA-CB	110.50	119.85	3
CG1-CB-CG2	110.70	127.21	1
N-CA-CB	111.50	120.85	2
N-CA-C	111.00	95.60	1
CD1-CG-CD2	110.80	122.90	1
CA-CB-CG	113.90	104.00	1
OG1-CB-CG2	109.30	120.30	1
CA-C-N	116.20	127.20	1
CA-CB-CG	113.80	108.30	1
C-N-CA	121.70	131.60	1
C-CA-CB	109.10	121.20	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-C	111.00	95.61	3
C-CA-CB	109.10	121.19	1
C-CA-CB	110.10	120.55	1
CD1-CG-CD2	110.80	122.89	1
C-CA-CB	110.10	120.54	2
N-CA-CB	110.50	119.84	1
CD1-CG-CD2	110.80	122.88	3
CA-CB-CG2	110.50	119.84	1
C-CA-CB	110.10	120.53	1
N-CA-CB	110.50	119.83	3
CA-CB-CG2	110.50	119.83	1
CD1-CG-CD2	110.80	122.87	1
C-N-CA	121.70	131.58	1
C-CA-CB	109.10	121.17	1
C-CA-CB	110.10	120.52	1
OG1-CB-CG2	109.30	120.27	1
C-CA-CB	110.50	118.73	1
C-N-CA	121.70	131.57	2
CG1-CB-CG2	110.70	127.15	1
CD1-CG-CD2	110.80	122.86	2
CA-CB-CG	112.60	107.12	1
C-CA-CB	110.10	120.51	1
CA-C-O	120.80	111.48	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	111.60	122.56	1
CA-CB-CG2	110.50	119.82	2
CD1-CG-CD2	110.80	122.85	3
CA-C-N	116.20	127.16	1
N-CA-CB	110.50	119.81	1
C-CA-CB	109.10	121.15	1
CA-C-O	120.80	111.49	2
CA-CB-CG	112.60	118.08	1
CA-CB-CG	113.80	108.32	1
N-CA-C	111.00	95.66	1
CA-CB-CG2	110.50	119.81	1
C-N-CA	121.70	131.56	2
C-CA-CB	110.10	99.70	1
C-CA-CB	110.10	120.50	4
CA-CB-CG	113.80	108.33	1
CA-CB-CG	113.90	104.05	1
CD1-CG-CD2	110.80	122.84	1
C-CA-CB	110.10	120.49	3
N-CA-CB	110.50	119.80	2
CA-CB-CG	112.60	107.13	1
CA-CB-CG	113.90	123.75	1
CD1-CG-CD2	110.80	122.83	2
C-CA-CB	110.50	118.70	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
O-C-N	123.00	114.25	1
CB-CG-CD	112.60	103.31	1
C-CA-CB	109.10	121.12	2
C-CA-CB	110.10	120.48	2
N-CA-CB	103.00	109.01	1
CA-C-N	116.20	127.13	1
CA-CB-CG	112.60	107.14	3
CD1-CG-CD2	110.80	122.82	1
C-N-CA	121.70	111.87	1
CA-CB-CG1	110.40	101.11	1
OG1-CB-CG2	109.30	120.22	1
CA-C-N	116.20	127.12	1
C-CA-CB	110.10	120.47	3
CA-CB-CG2	110.50	101.22	1
C-CA-CB	109.10	121.11	1
N-CA-CB	110.50	119.78	1
CA-CB-CG2	110.50	119.78	3
CA-C-N	116.20	105.28	1
CD1-CG-CD2	110.80	122.81	1
C-CA-CB	111.40	121.77	1
CD1-CG-CD2	110.80	122.80	4
CA-C-N	116.20	127.11	1
N-CA-CB	110.50	119.77	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	111.50	120.77	1
C-N-CA	121.70	111.88	1
C-CA-CB	111.40	121.76	1
OG1-CB-CG2	109.30	120.21	1
CA-CB-CG	113.80	108.35	1
C-CA-CB	111.40	101.04	1
CA-CB-CG2	110.50	119.77	1
N-CA-CB	103.00	109.00	1
OG1-CB-CG2	109.30	120.20	1
CD1-CG-CD2	110.80	122.79	2
CG1-CB-CG2	110.70	127.05	1
C-CA-CB	110.10	120.45	5
CA-CB-CG2	110.50	119.76	2
CD1-CG-CD2	110.80	122.78	2
N-CA-C	111.00	95.75	1
N-CA-CB	110.50	101.24	1
C-N-CA	121.70	131.50	1
C-CA-CB	111.60	100.71	1
C-CA-CB	110.10	120.44	2
CG1-CB-CG2	110.70	127.03	1
N-CA-CB	110.40	118.56	1
CD1-CG-CD2	110.80	122.77	4
C-N-CA	121.70	111.90	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG2	110.50	119.75	2
N-CA-CB	103.00	108.98	1
OG1-CB-CG2	109.30	120.18	1
N-CA-CB	110.50	119.75	1
C-CA-CB	110.10	120.43	2
N-CA-CB	110.50	119.74	3
N-CA-C	111.00	95.77	1
CA-C-O	120.80	111.56	1
CA-CB-CG2	110.50	119.74	1
C-CA-CB	110.50	118.65	1
CD1-CG-CD2	110.80	122.75	3
N-CA-CB	110.50	119.73	1
C-N-CA	121.70	131.48	1
N-CA-C	111.00	126.21	1
CA-CB-CG	113.80	108.37	2
OG1-CB-CG2	109.30	120.16	1
N-CA-CB	111.50	120.73	2
CA-CB-CG1	110.40	119.63	1
CD1-CG-CD2	110.80	122.74	2
CA-CB-CG2	110.50	119.72	1
C-CA-CB	110.10	120.41	1
CG1-CB-CG2	110.80	122.74	1
CA-C-N	116.20	127.05	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG	112.60	107.17	1
CD1-CG-CD2	110.80	122.73	2
CA-CB-CG	112.60	107.18	1
CG1-CB-CG2	110.80	122.73	1
OG1-CB-CG2	109.30	120.14	1
C-CA-CB	110.10	120.40	2
O-C-N	123.00	114.33	1
C-CA-CB	110.50	118.63	1
CB-CG-CD	111.30	123.77	1
CD1-CG-CD2	110.80	122.72	2
CG-CD-CE	111.30	123.77	1
N-CA-C	111.00	95.82	1
CA-CB-CG	113.90	104.15	1
N-CA-C	113.30	97.58	1
C-N-CA	121.70	111.95	1
C-CA-CB	110.10	120.39	1
N-CA-CB	103.00	108.96	1
C-CA-CB	109.10	121.02	1
CA-CB-CG	112.60	107.19	2
CA-CB-CG1	110.40	119.60	1
CD1-CG-CD2	110.80	122.71	4
CA-C-N	116.20	127.03	1
CA-CB-CG	113.90	104.16	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
OG1-CB-CG2	109.30	120.12	2
CA-CB-CG2	110.50	119.70	1
CD1-CG-CD2	110.80	122.70	2
C-CA-CB	110.10	99.82	1
N-CA-C	111.00	95.86	1
O-C-N	123.00	114.35	1
C-N-CA	121.70	111.97	1
CD1-CG-CD2	110.80	122.69	1
CA-CB-CG2	110.50	119.69	1
C-CA-CB	110.10	99.83	1
CA-C-N	116.20	127.01	1
CA-CB-CG	112.60	107.20	2
OG1-CB-CG2	109.30	120.11	1
CG1-CB-CG2	110.70	126.91	1
N-CA-C	111.00	95.88	1
CD1-CG-CD2	110.80	122.68	5
N-CA-CB	110.50	119.68	1
OG1-CB-CG2	109.30	120.10	2
CA-CB-CG2	110.50	119.68	1
C-CA-CB	110.10	120.36	1
CA-CB-CG	113.80	108.40	2
C-CA-CB	110.50	118.60	1
CA-C-O	120.80	111.62	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-N-CA	121.70	111.98	1
OG1-CB-CG2	109.30	120.09	2
C-N-CA	121.70	131.41	1
CD1-CG-CD2	110.80	122.67	4
N-CA-CB	103.00	108.93	1
CA-CB-CG	112.60	107.21	2
C-CA-CB	110.10	120.35	3
C-CA-CB	110.10	99.85	1
N-CA-CB	110.50	119.67	1
C-CA-CB	109.10	120.96	1
CD1-CG-CD2	110.80	122.66	1
CA-C-O	120.80	111.63	1
C-CA-CB	110.10	120.34	2
N-CA-C	112.10	125.58	1
CA-CB-CG2	110.50	119.66	1
CA-CB-CG	113.80	108.41	2
OG1-CB-CG2	109.30	120.08	1
N-CA-CB	111.50	120.66	2
CD1-CG-CD2	110.80	122.65	4
C-N-CA	121.70	112.00	1
CA-C-N	116.20	105.43	1
OG1-CB-CG2	109.30	120.07	2
C-CA-CB	110.50	118.58	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	111.50	120.65	1
C-CA-CB	110.10	120.33	3
N-CA-CB	110.50	119.65	1
CD1-CG-CD2	110.80	122.64	4
C-CA-CB	110.50	118.57	1
O-C-N	123.00	114.39	1
N-CA-C	112.10	125.55	1
CA-C-N	116.20	126.96	1
N-CA-CB	110.50	119.64	3
OG1-CB-CG2	109.30	120.06	1
C-N-CA	121.70	131.38	1
CA-C-O	120.80	111.66	1
CA-CB-CG	112.60	107.22	1
O-C-N	123.00	114.40	1
CA-CB-CG	113.80	108.42	1
N-CA-CB	111.50	120.64	2
CD1-CG-CD2	110.80	122.62	2
N-CA-C	111.00	95.95	1
CA-CB-CG2	110.50	119.63	2
C-CA-CB	110.10	120.31	4
CA-C-N	116.20	105.46	1
N-CA-C	111.00	95.96	1
CA-CB-CG	113.90	104.23	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
OG1-CB-CG2	109.30	120.04	1
C-CA-CB	110.10	120.30	2
N-CA-C	111.00	95.97	1
CA-CB-CG	113.90	104.24	1
C-N-CA	121.70	131.36	1
N-CA-CB	110.50	119.62	1
CA-CB-CG	112.60	107.23	1
CG1-CB-CG2	110.70	126.80	1
CD1-CG-CD2	110.80	122.61	2
C-N-CA	121.70	112.04	1
CD1-CG-CD2	110.80	122.60	4
C-CA-CB	111.60	122.33	1
C-CA-CB	110.50	118.55	1
CA-CB-CG	112.60	107.24	2
CA-CB-CG	113.80	108.44	1
C-CA-CB	110.10	120.29	1
OD1-CG-ND2	122.60	117.24	1
C-CA-CB	110.50	118.54	1
OG1-CB-CG2	109.30	120.02	1
CD1-CG-CD2	110.80	122.59	4
C-CA-CB	110.10	120.28	1
CG1-CB-CG2	110.70	126.77	1
OG1-CB-CG2	109.30	120.01	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-N-CA	121.70	112.06	1
CD1-CG-CD2	110.80	122.58	3
C-CA-CB	111.60	122.31	1
C-CA-CB	110.10	120.27	6
N-CA-CB	110.50	119.60	1
N-CA-CB	111.50	102.40	1
CB-CG-CD	112.60	121.70	1
CA-C-N	116.20	126.91	1
CD1-CG-CD2	110.80	122.57	3
CA-CB-CG	113.80	108.45	2
N-CA-C	111.00	96.02	1
N-CA-CB	111.50	120.60	1
C-N-CA	121.70	112.07	1
CB-CG-CD	112.60	103.51	1
C-CA-CB	110.10	120.26	4
CA-C-N	116.20	126.90	1
O-C-N	123.00	114.44	1
N-CA-CB	111.50	120.59	1
OG1-CB-CG2	109.30	119.99	3
C-N-CA	121.70	112.08	1
CA-CB-OG1	109.60	117.62	1
CA-CB-CG	113.80	119.14	1
CA-CB-CG2	110.50	119.58	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-C	112.10	98.74	1
C-CA-CB	110.10	120.25	3
CD1-CG-CD2	110.80	122.55	6
N-CA-CB	110.50	119.58	1
CA-C-N	116.20	126.89	1
C-N-CA	121.70	131.32	1
N-CA-CB	111.50	120.58	2
CA-CB-CG	112.60	107.26	3
N-CA-C	111.00	96.05	2
O-C-N	123.00	114.46	1
C-CA-CB	110.10	120.24	5
CD1-CG-CD2	110.80	122.54	4
CA-C-N	116.20	105.53	1
N-CA-CB	110.50	119.57	1
OG1-CB-CG2	109.30	119.97	1
C-CA-CB	110.50	118.50	1
CB-CG-ND2	116.40	124.40	1
CG1-CB-CG2	110.70	126.70	1
CA-CB-CG	112.60	107.27	1
CA-C-N	116.20	126.86	1
CD1-CG-CD2	110.80	122.53	1
C-CA-CB	110.10	120.23	2
C-N-CA	121.70	131.30	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CG1-CB-CG2	110.70	126.69	1
C-CA-CB	110.50	102.50	1
C-CA-CB	110.50	118.49	1
N-CA-CB	111.50	120.56	3
CG1-CB-CG2	110.80	122.52	1
N-CA-CB	110.50	119.56	3
CD1-CG-CD2	110.80	122.52	5
C-CA-CB	110.10	120.22	5
C-CA-CB	110.10	99.98	1
N-CA-C	111.00	125.92	1
C-N-CA	121.70	131.29	1
CG1-CB-CG2	110.70	126.68	1
CA-C-N	116.20	126.85	1
C-N-CA	121.70	112.12	1
CA-CB-CG	112.60	107.28	5
OG1-CB-CG2	109.30	119.95	1
C-CA-CB	110.10	120.21	2
N-CA-CB	110.50	119.55	1
N-CA-C	111.00	96.10	1
C-N-CA	121.70	131.28	1
C-CA-CB	110.10	99.99	1
CD1-CG-CD2	110.80	122.51	4
CG1-CB-CG2	110.70	126.66	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	101.46	1
OG1-CB-CG2	109.30	119.94	1
CA-C-N	116.20	126.84	1
N-CA-CB	110.50	119.54	1
C-CA-CB	110.50	118.48	1
CB-CG-CD	112.60	103.56	1
CG1-CB-CG2	110.80	99.10	1
C-CA-CB	110.10	120.20	2
OG1-CB-CG2	109.30	119.93	1
CA-CB-CG	112.60	107.29	2
C-N-CA	121.70	131.27	1
O-C-N	123.00	114.50	1
N-CA-CB	110.50	119.53	1
C-N-CA	121.70	131.26	2
CA-CB-OG	111.10	121.73	1
CA-CB-CG	113.80	108.49	1
CD1-CG-CD2	110.80	122.49	2
C-N-CA	121.70	112.14	1
C-CA-CB	110.10	120.19	7
N-CA-C	111.00	125.87	1
CA-CB-CG2	110.50	119.53	1
C-CA-CB	110.50	118.47	1
C-CA-CB	110.10	100.01	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CD1-CG-CD2	110.80	122.48	3
CG1-CB-CG2	110.70	126.62	2
CA-C-O	120.80	111.78	1
C-CA-CB	110.10	120.18	1
N-CA-C	111.00	125.86	1
O-C-N	123.00	114.51	1
CD1-CG-CD2	110.80	122.47	4
CA-CB-CG	112.60	107.30	1
N-CA-C	111.00	96.15	1
OG1-CB-CG2	109.30	119.90	1
N-CA-CB	110.50	119.51	1
C-CA-CB	110.10	120.17	3
N-CA-C	111.00	96.16	1
CD1-CG-CD2	110.80	122.46	1
C-N-CA	121.70	131.24	1
CD1-CG-CD2	110.80	122.45	4
CB-CG-CD2	126.80	119.39	1
C-CA-CB	110.10	120.16	3
N-CA-C	112.10	125.34	1
CA-CB-CG	113.80	108.50	1
CA-CB-OG1	109.60	117.54	1
CD1-CG-CD2	110.80	122.44	3
C-N-CA	121.70	131.23	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
OG1-CB-CG2	109.30	119.88	1
C-CA-CB	111.60	122.18	1
CA-CB-CG	112.60	107.31	1
C-CA-CB	110.10	120.15	3
CA-CB-CG	113.80	108.51	1
N-CA-CB	111.50	120.49	1
CA-CB-SG	114.40	102.24	1
C-CA-CB	110.50	102.57	1
CA-CB-CG2	110.50	119.49	1
C-CA-CB	110.50	118.43	3
C-CA-CB	110.10	100.05	1
CD1-CG-CD2	110.80	122.43	3
C-CA-CB	110.10	120.14	2
N-CA-CB	110.50	119.49	1
CA-CB-CG2	110.50	119.48	2
N-CA-CB	111.50	120.48	2
N-CA-CB	110.50	119.48	1
N-CA-C	111.00	96.21	1
O-C-N	123.00	114.55	1
OG1-CB-CG2	109.30	119.87	1
CA-CB-CG	113.80	108.52	1
C-CA-CB	109.10	120.72	1
OG1-CB-CG2	109.30	119.86	3

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	100.07	1
CA-C-N	116.20	126.76	1
CD1-CG-CD2	110.80	122.42	1
CA-CB-CG	113.90	104.40	1
CD1-CG-CD2	110.80	122.41	2
C-CA-CB	110.10	120.13	1
N-CA-C	112.10	125.30	1
CA-CB-CG	112.60	107.32	2
O-C-N	123.00	114.56	1
C-CA-CB	110.10	120.12	4
N-CA-CB	111.50	120.47	1
C-N-CA	121.70	131.19	2
CA-CB-CG	112.60	107.33	2
CD1-CG-CD2	110.80	122.40	3
N-CA-CB	110.50	119.47	1
OG1-CB-CG2	109.30	119.85	1
OG1-CB-CG2	109.30	119.84	3
C-CA-CB	109.10	120.70	1
CD1-CG-CD2	110.80	122.39	5
C-CA-CB	109.10	120.69	1
C-CA-CB	110.10	120.11	3
C-CA-CB	110.10	120.10	4
C-N-CA	121.70	131.18	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CD1-CG-CD2	110.80	122.38	3
CA-CB-CG2	110.50	119.45	2
N-CA-C	111.00	125.74	1
C-N-CA	121.70	131.17	2
C-CA-CB	110.10	100.10	1
C-N-CA	121.70	112.23	1
O-C-N	123.00	114.58	1
N-CA-CB	111.50	120.44	2
CD1-CG-CD2	110.80	122.37	7
OG1-CB-CG2	109.30	119.82	2
C-CA-CB	110.10	120.09	3
CA-CB-CG2	110.50	119.44	1
CA-C-N	116.20	126.72	1
CA-CB-CG	112.60	107.34	1
CD1-CG-CD2	110.80	122.36	3
CA-CB-CG	113.80	108.54	1
C-N-CA	121.70	131.16	1
C-CA-CB	110.50	118.38	1
N-CA-CB	110.50	119.43	3
C-CA-CB	111.40	121.38	1
CG1-CB-CG2	110.80	122.36	1
OG1-CB-CG2	109.30	119.81	1
N-CA-C	111.00	96.29	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CD1-CG-CD2	110.80	122.35	3
N-CA-CB	111.50	120.43	1
CA-CB-CG2	110.50	119.43	2
CA-CB-CG	112.60	107.35	4
C-CA-CB	110.10	120.07	4
OG1-CB-CG2	109.30	119.80	1
C-N-CA	121.70	131.15	1
OG1-CB-CG2	109.30	119.79	2
CD1-CG-CD2	110.80	122.34	1
C-N-CA	121.70	131.14	1
CA-CB-CG2	110.50	119.42	2
C-CA-CB	110.50	118.37	2
C-N-CA	121.70	112.26	1
CA-CB-CG	112.60	107.36	6
CD1-CG-CD2	110.80	122.33	4
N-CA-C	111.00	125.68	1
OG1-CB-CG2	109.30	119.78	3
CA-CB-CG2	110.50	119.41	1
C-CA-CB	110.10	120.06	1
C-CA-CB	111.40	121.35	1
C-CA-CB	109.10	120.63	1
CG1-CB-CG2	110.70	126.42	1
CD1-CG-CD2	110.80	122.32	5

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-C-N	116.20	105.72	1
C-N-CA	121.70	131.13	1
CA-CB-CG2	110.50	119.40	1
OG1-CB-CG2	109.30	119.77	3
C-CA-CB	109.10	120.62	1
N-CA-CB	110.50	119.40	2
C-N-CA	121.70	131.12	1
C-CA-CB	110.50	118.35	1
CA-CB-CG	112.60	107.37	3
C-CA-CB	110.10	120.04	4
CA-CB-CG	113.80	108.57	2
N-CA-CB	110.50	119.39	1
CA-CB-CG	113.90	104.49	2
CD1-CG-CD2	110.80	122.30	2
C-CA-CB	110.10	120.03	3
CB-CG-CD1	120.80	128.64	1
OG1-CB-CG2	109.30	119.75	4
O-C-N	123.00	114.64	2
CG1-CB-CG2	110.70	126.38	1
C-CA-CB	110.50	118.34	1
CA-CB-CG	113.80	108.58	1
N-CA-CB	111.50	120.38	2
CA-CB-CG	112.60	107.38	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-N-CA	121.70	131.10	1
CD1-CG-CD2	110.80	122.29	2
CG1-CB-CG2	110.70	126.37	1
CA-C-N	116.20	126.64	1
N-CA-C	111.00	125.62	1
N-CA-C	111.00	96.38	1
C-CA-CB	110.50	118.33	1
C-CA-CB	110.10	120.02	1
OG1-CB-CG2	109.30	119.74	1
N-CA-CB	111.50	120.37	2
CD1-CG-CD2	110.80	122.28	1
C-CA-CB	110.10	120.01	3
C-N-CA	121.70	131.09	2
CA-CB-CG2	110.50	119.37	1
OG1-CB-CG2	109.30	119.73	4
CG1-CB-CG2	110.70	126.34	1
C-CA-CB	111.40	121.31	1
CD1-CG-CD2	110.80	122.27	5
CB-CG-CD	111.30	123.29	1
C-N-CA	121.70	131.08	1
CA-CB-CG	112.60	107.39	2
C-CA-CB	110.10	120.00	5
CA-CB-CG	113.80	108.59	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-OG1	109.60	117.42	2
CA-CB-CG	113.90	104.52	1
CA-CB-CG	112.60	117.81	1
CD1-CG-CD2	110.80	122.26	1
N-CA-CB	103.00	108.73	1
CG1-CB-CG2	110.70	126.32	1
C-CA-CB	110.10	100.21	1
C-CA-CB	110.10	119.99	4
CA-CB-CG	113.90	104.53	1
N-CA-C	111.00	96.42	1
CA-CB-CG	112.60	107.40	1
CA-CB-CG1	110.40	101.55	1
CD1-CG-CD2	110.80	122.25	1
N-CA-C	111.00	125.57	1
OG1-CB-CG2	109.30	119.71	1
CA-CB-CG1	110.40	119.25	1
OG1-CB-CG2	109.30	119.70	1
C-N-CA	121.70	112.34	1
C-CA-CB	110.10	119.98	1
CG1-CB-CG2	110.70	126.30	1
CD1-CG-CD2	110.80	122.24	2
N-CA-C	111.00	96.44	1
N-CA-CB	110.50	119.34	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-C-N	116.20	126.60	1
CA-CB-CG	113.80	108.60	1
N-CA-CB	110.50	119.33	1
CA-CB-CG	113.80	119.00	1
N-CA-CB	111.50	120.33	1
C-CA-CB	110.10	119.97	2
C-N-CA	121.70	131.05	1
C-N-CA	121.70	112.35	1
C-CA-CB	110.50	118.29	1
CD1-CG-CD2	110.80	122.23	1
CA-C-N	116.20	126.59	1
OG1-CB-CG2	109.30	119.69	4
C-CA-CB	110.10	100.23	1
CA-CB-CG	112.60	107.41	2
CA-CB-CG2	110.50	119.33	1
CD1-CG-CD2	110.80	122.22	3
C-CA-CB	110.10	119.96	4
O-C-N	123.00	114.70	1
CA-CB-CG2	110.50	119.32	1
N-CA-CB	110.50	119.32	2
C-CA-CB	111.40	121.26	1
CG1-CB-CG2	110.70	126.27	1
CB-CG-CD1	110.70	126.27	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-C	111.00	125.53	1
CG1-CB-CG2	110.70	126.26	1
CD1-CG-CD2	110.80	122.21	3
N-CA-C	112.10	125.07	1
C-CA-CB	110.10	119.95	1
CA-CB-CG	113.90	104.57	1
OG1-CB-CG2	109.30	119.67	1
C-CA-CB	111.40	121.25	1
CG1-CB-CG2	110.70	126.25	1
CA-CB-CG2	110.50	119.31	2
CA-CB-CG	112.60	107.42	2
CA-C-O	120.80	129.61	1
C-CA-CB	110.10	119.94	1
CD1-CG-CD2	110.80	122.20	1
CG1-CB-CG2	110.70	126.24	1
CA-CB-CG	113.80	108.62	1
OG1-CB-CG2	109.30	119.66	1
N-CA-CB	111.50	120.30	1
CD1-CG-CD2	110.80	122.19	3
C-CA-CB	110.10	100.26	2
CG1-CB-CG2	110.70	126.23	1
N-CA-CB	110.50	119.30	1
C-N-CA	121.70	131.02	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CB-CG-CD	112.60	103.80	1
O-C-N	123.00	114.72	1
C-CA-CB	110.10	119.93	5
CA-C-N	116.20	126.55	1
C-N-CA	121.70	131.01	2
C-N-CA	121.70	112.39	3
CD1-CG-CD2	110.80	122.18	3
N-CA-CB	110.50	119.29	3
CA-CB-CG2	110.50	119.29	1
CG1-CB-CG2	110.70	126.22	1
CA-CB-CG	112.60	107.43	1
OG1-CB-CG2	109.30	119.64	1
CD1-CG-CD2	110.80	122.17	5
CG1-CB-CG2	110.70	126.21	1
N-CA-C	112.10	99.18	1
C-CA-CB	110.10	119.92	3
N-CA-C	111.00	96.53	1
OG1-CB-CG2	109.30	119.63	1
N-CA-C	111.00	125.47	1
CG1-CB-CG2	110.70	126.20	1
CA-CB-CG2	110.50	119.28	1
C-CA-CB	110.10	119.91	4
C-N-CA	121.70	131.00	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG	112.60	107.44	4
CD-NE-CZ	124.40	117.17	1
N-CA-C	112.10	99.19	1
CD1-CG-CD2	110.80	122.16	4
CA-C-O	120.80	112.02	1
N-CA-C	111.00	125.46	1
N-CA-CB	110.50	119.27	2
N-CA-CB	103.00	108.68	1
N-CA-C	111.00	125.45	1
C-CA-CB	110.10	119.90	2
CD1-CG-CD2	110.80	122.15	2
N-CA-CB	111.50	120.27	1
N-CA-CB	110.40	118.14	1
CG1-CB-CG2	110.70	126.17	1
C-N-CA	121.70	112.42	2
CA-CB-CG2	110.50	119.27	1
C-N-CA	121.70	130.98	2
CA-CB-CG	113.90	104.62	1
CD1-CG-CD2	110.80	122.14	3
CG1-CB-CG2	110.70	126.16	1
C-CA-CB	110.10	119.89	2
CA-CB-CG	112.60	107.45	3
CA-CB-CG	113.80	108.65	3

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.50	118.23	1
C-CA-CB	111.40	121.19	1
OG1-CB-CG2	109.30	119.60	1
CG1-CB-CG2	110.70	126.15	1
CD1-CG-CD2	110.80	122.13	2
CA-C-O	120.80	112.05	1
O-C-N	123.00	114.76	1
OG1-CB-CG2	109.30	119.59	3
C-CA-CB	110.10	119.88	2
CD1-CG-CD2	110.80	122.12	1
CG1-CB-CG2	110.80	122.12	1
CA-CB-CG	113.90	104.64	1
CA-CB-CG2	110.50	119.25	1
C-CA-CB	110.10	119.87	5
N-CA-C	111.00	125.40	1
N-CA-CB	110.50	119.24	1
N-CA-C	111.00	96.60	1
CD1-CG-CD2	110.80	122.11	4
C-CA-CB	111.40	121.17	1
CA-CB-CG2	110.50	119.24	2
C-CA-CB	111.60	121.88	1
CA-CB-CG	112.60	107.46	1
CA-C-O	120.80	112.06	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-N-CA	121.70	130.95	1
CA-CB-CG	113.80	108.66	1
C-N-CA	121.70	112.45	2
N-CA-CB	111.50	120.24	1
CD1-CG-CD2	110.80	122.10	2
C-CA-CB	110.10	119.86	5
N-CA-C	111.00	125.38	1
CG1-CB-CG2	110.70	126.11	1
C-CA-CB	110.50	118.20	2
N-CA-CB	110.50	119.23	1
O-C-N	123.00	114.78	1
CA-C-O	120.80	112.07	1
C-N-CA	121.70	130.94	2
C-CA-CB	111.40	121.16	1
OG1-CB-CG2	109.30	119.57	2
CD1-CG-CD2	110.80	122.09	5
CA-CB-CG2	110.50	119.23	1
C-CA-CB	110.10	100.35	1
CA-CB-CG	112.60	107.47	3
N-CA-C	111.00	96.63	2
CG1-CB-CG2	110.70	126.10	1
C-CA-CB	110.10	119.85	3
N-CA-C	112.10	124.93	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	111.40	121.15	1
CA-C-O	120.80	112.08	1
CA-CB-CG	113.80	108.67	1
CA-CB-CG2	110.50	119.22	1
N-CA-CB	110.40	118.09	1
C-CA-CB	110.50	118.19	1
OG1-CB-CG2	109.30	119.55	1
N-CA-CB	110.50	119.22	1
C-CA-CB	110.10	119.84	1
C-CA-CB	109.10	120.37	2
CD1-CG-CD2	110.80	122.07	4
CA-CB-CG2	110.50	119.21	1
N-CA-C	111.00	96.65	1
CG1-CB-CG2	110.70	126.07	1
N-CA-C	111.00	125.35	1
CA-CB-CG	112.60	107.48	4
C-N-CA	121.70	130.92	2
C-CA-CB	110.10	119.83	2
CB-CG-CD2	126.80	119.63	1
C-CA-CB	111.60	121.84	2
C-CA-CB	110.10	100.37	1
N-CA-CB	110.50	119.20	2
CD1-CG-CD2	110.80	122.06	4

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG2	110.40	119.10	1
O-C-N	123.00	114.81	1
C-N-CA	121.70	130.91	2
CA-CB-CG2	110.50	119.20	1
OG1-CB-CG2	109.30	119.54	1
C-CA-CB	111.40	121.12	1
C-CA-CB	110.10	119.82	4
C-N-CA	121.70	112.49	1
OG1-CB-CG2	109.30	119.53	3
N-CA-CB	111.50	120.19	2
CA-CB-CG	113.90	104.70	1
CD1-CG-CD2	110.80	122.05	2
C-CA-CB	110.50	118.17	1
OG1-CB-CG2	109.30	119.52	3
CA-CB-CG	112.60	107.49	2
N-CA-C	111.00	96.69	1
C-CA-CB	110.10	119.81	2
CD1-CG-CD2	110.80	122.04	3
CG1-CB-CG2	110.70	126.03	1
N-CA-C	111.00	96.70	1
C-CA-CB	110.10	119.80	4
N-CA-CB	110.40	118.06	1
C-CA-CB	110.50	118.16	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG2	110.50	119.18	2
OG1-CB-CG2	109.30	119.51	2
N-CA-CB	111.50	102.82	1
N-CA-CB	110.50	119.18	2
CA-CB-CG	112.60	107.50	3
N-CA-C	111.00	96.71	1
CD1-CG-CD2	110.80	122.02	5
C-CA-CB	110.10	119.79	2
O-C-N	123.00	114.84	1
N-CA-C	111.00	96.72	2
C-CA-CB	110.50	118.15	1
C-CA-CB	111.40	101.71	1
CA-CB-CG	113.60	103.91	1
CA-CB-CG2	110.50	119.17	1
N-CA-CB	111.50	120.17	1
CG1-CB-CG2	110.70	125.99	1
OG1-CB-CG2	109.30	119.49	2
CD1-CG-CD2	110.80	122.01	2
C-CA-CB	110.10	119.78	3
N-CA-CB	111.50	120.16	1
O-C-N	123.00	114.85	1
CA-CB-CG	112.60	107.51	2
C-N-CA	121.70	130.87	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	101.84	1
C-CA-CB	110.10	119.77	4
O-C-N	123.00	114.86	1
CD1-CG-CD2	110.80	122.00	2
CA-CB-CG	113.80	108.71	1
C-CA-CB	111.40	121.07	1
N-CA-C	112.10	99.38	1
CD1-CG-CD2	110.80	121.99	3
CA-C-O	120.80	112.15	1
C-CA-CB	110.50	118.13	1
OG1-CB-CG2	109.30	119.47	2
C-N-CA	121.70	112.54	1
C-N-CA	121.70	130.85	1
C-CA-CB	109.10	120.29	1
CD1-CG-CD2	110.80	121.98	4
CA-C-N	116.20	126.37	1
C-CA-CB	110.10	119.76	1
N-CA-CB	110.50	119.14	1
CG1-CB-CG2	110.70	125.95	1
N-CA-C	111.00	96.77	1
C-CA-CB	110.50	118.12	1
CG1-CB-CG2	110.70	125.94	1
C-N-CA	121.70	112.56	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG2	110.50	119.14	1
CA-CB-CG2	110.50	119.13	2
C-CA-CB	110.10	119.75	4
CA-CB-CG	112.60	107.52	3
N-CA-C	111.00	125.22	1
N-CA-CB	111.50	120.13	1
N-CA-C	111.00	96.78	1
N-CA-CB	110.50	119.13	1
CD1-CG-CD2	110.80	121.97	2
N-CA-C	112.10	99.41	1
C-N-CA	121.70	130.83	1
CA-CB-CG	112.60	107.53	2
C-CA-CB	110.10	119.74	2
CD1-CG-CD2	110.80	121.96	5
CG1-CB-CG2	110.70	125.92	1
O-C-N	123.00	114.89	1
CD1-CG-CD2	110.80	121.95	3
C-CA-CB	110.10	119.73	2
N-CA-CB	110.50	119.12	2
CG1-CB-CG2	110.70	125.91	2
OG1-CB-CG2	109.30	119.44	1
C-N-CA	121.70	112.58	3
N-CA-C	111.00	96.81	3

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG	113.80	108.73	2
CG1-CB-CG2	110.70	125.90	1
CA-CB-CG2	110.50	119.11	2
N-CA-C	111.00	96.82	1
CA-CB-CG	113.80	108.74	1
CA-CB-CG	112.60	107.54	1
C-CA-CB	111.40	101.78	1
CD1-CG-CD2	110.80	121.94	1
C-CA-CB	110.10	119.72	3
N-CA-CB	110.50	119.11	1
OG1-CB-CG2	109.30	119.43	1
CA-CB-CG2	110.50	119.10	1
N-CA-CB	110.50	119.10	2
CD1-CG-CD2	110.80	121.93	2
OG1-CB-CG2	109.30	119.42	2
C-N-CA	121.70	130.81	1
C-CA-CB	110.10	100.48	1
CA-C-N	116.20	126.32	1
C-CA-CB	110.10	119.71	3
C-CA-CB	110.10	119.70	8
CA-CB-CG	112.60	107.55	5
CG1-CB-CG2	110.70	125.86	1
CA-CB-CG	113.80	108.75	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CG-CD2-CE2	120.70	129.29	1
C-CA-CB	111.40	121.00	2
C-CA-CB	110.10	100.50	1
N-CA-CB	111.50	120.09	1
C-CA-CB	110.50	118.08	1
CA-CB-CG1	110.40	118.99	1
C-CA-CB	109.10	120.21	1
N-CA-CB	111.50	120.08	2
CD1-CG-CD2	110.80	121.90	3
OG1-CB-CG2	109.30	119.39	1
C-CA-CB	110.10	119.69	2
C-CA-CB	111.40	120.99	1
CA-CB-CG	113.90	122.98	1
C-CA-CB	109.10	120.20	1
C-CA-CB	110.50	118.07	1
CA-CB-CG	113.90	104.82	1
CA-CB-CG2	110.50	119.07	2
CA-CB-CG	113.80	108.76	1
CA-CB-CG	112.60	107.56	2
C-N-CA	121.70	112.62	1
C-CA-CB	109.10	120.19	1
N-CA-CB	110.50	119.07	1
OG1-CB-CG2	109.30	119.38	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CG1-CB-CG2	110.70	125.82	2
N-CA-C	111.00	96.89	1
CD1-CG-CD2	110.80	121.89	2
N-CA-CB	111.50	120.07	1
C-CA-CB	110.10	119.68	1
C-CA-CB	110.10	119.67	3
CA-C-O	120.80	112.23	1
CA-CB-CG	113.90	104.83	1
OG1-CB-CG2	109.30	119.37	3
C-CA-CB	109.10	120.18	1
CG1-CB-CG2	110.70	125.81	1
C-N-CA	121.70	130.76	1
CA-CB-CG2	110.50	119.06	3
CD1-CG-CD2	110.80	121.88	2
C-CA-CB	110.50	118.05	2
CG1-CB-CG2	110.80	121.88	1
CA-CB-CG	113.80	108.77	5
N-CA-CB	110.50	119.06	1
C-CA-CB	111.60	101.53	1
CA-CB-CG	112.60	107.57	3
CA-C-N	116.20	126.27	1
C-CA-CB	110.10	119.66	3
N-CA-C	111.00	96.91	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CG1-CB-CG2	110.70	125.80	1
N-CA-CB	111.50	120.05	2
CD1-CG-CD2	110.80	121.87	2
CA-CB-CG2	110.50	119.05	1
C-CA-CB	110.50	118.04	2
C-CA-CB	109.10	120.16	1
CD1-CG-CD2	110.80	121.86	2
N-CA-CB	110.50	119.04	3
C-CA-CB	110.10	119.65	1
C-N-CA	121.70	130.75	1
OG1-CB-CG2	109.30	119.35	1
CA-CB-CG	112.60	107.58	4
N-CA-C	113.30	98.73	1
O-C-N	123.00	114.96	1
C-CA-CB	110.10	119.64	1
CD1-CG-CD2	110.80	121.85	3
C-CA-CB	109.10	120.15	1
C-N-CA	121.70	112.66	1
CA-CB-CG	113.80	108.78	1
N-CA-CB	110.50	119.03	2
CG1-CB-CG2	110.70	125.76	1
C-N-CA	121.70	130.74	2
N-CA-CB	111.50	120.03	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG2	110.40	101.87	1
C-CA-CB	110.10	100.56	1
C-CA-CB	110.50	118.03	1
CD1-CG-CD2	110.80	121.84	3
C-CA-CB	110.10	119.63	4
CA-CB-CG2	110.50	119.03	1
OG1-CB-CG2	109.30	119.34	1
N-CA-C	111.00	96.95	1
CA-C-N	116.20	126.23	2
CA-CB-CG	113.90	104.87	1
OG1-CB-CG2	109.30	119.33	1
CA-C-O	120.80	112.27	1
C-CA-CB	111.60	121.63	1
CD1-CG-CD2	110.80	121.83	2
OG1-CB-CG2	109.30	119.32	2
OG1-CB-CG2	109.30	99.28	1
C-CA-CB	109.10	120.13	1
C-CA-CB	110.50	102.98	1
CA-C-N	116.20	126.22	1
C-CA-CB	110.10	119.62	2
N-CA-CB	110.50	119.02	1
CG1-CB-CG2	110.70	125.73	2
CD1-CG-CD2	110.80	121.82	5

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG	112.60	107.59	1
N-CA-CB	110.50	119.01	2
CA-CB-CG2	110.50	119.01	1
O-C-N	123.00	114.99	2
N-CA-C	111.00	125.02	1
CG1-CB-CG2	110.70	125.72	1
C-CA-CB	110.10	119.61	2
OG1-CB-CG2	109.30	119.31	1
CD1-CG-CD2	110.80	121.81	1
CA-CB-CG	113.90	104.89	1
N-CA-C	112.10	124.61	1
CA-CB-CG	112.60	107.60	1
C-CA-CB	111.60	121.61	1
C-CA-CB	111.60	121.60	1
CD1-CG-CD2	110.80	121.80	5
N-CA-C	111.00	97.00	1
CA-CB-CG2	110.50	119.00	1
CA-C-O	120.80	112.30	2
CA-C-O	120.80	129.30	1
CG1-CB-CG2	110.70	125.70	2
N-CA-CB	110.50	119.00	1
C-CA-CB	110.50	118.00	1
C-CA-CB	110.10	100.61	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CD1-CG-CD2	110.80	121.79	3
OG1-CB-CG2	109.30	119.29	1
O-C-N	123.00	115.01	4
C-CA-CB	110.10	119.59	4
CA-C-N	116.20	126.19	1
N-CA-CB	111.50	119.99	1
CD1-CG-CD2	110.80	121.78	3
CA-CB-CG2	110.50	118.99	1
OG1-CB-CG2	109.30	119.28	2
CA-C-O	120.80	112.32	1
O-C-N	123.00	115.02	1
C-CA-CB	110.10	119.58	3
C-N-CA	121.70	130.68	2
CG1-CB-CG2	110.70	125.67	1
N-CA-CB	110.40	102.92	1
CA-CB-CG	112.60	107.61	1
CD1-CG-CD2	110.80	121.77	3
N-CA-CB	110.50	118.98	1
N-CA-CB	111.50	119.98	1
C-CA-CB	110.50	117.98	1
CA-CB-CG2	110.50	118.98	1
C-CA-CB	110.10	119.57	3
OG1-CB-CG2	109.30	119.27	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	111.60	121.57	1
CG1-CB-CG2	110.70	125.65	1
N-CA-C	113.30	98.85	1
CA-CB-CG	112.60	107.62	4
CD1-CG-CD2	110.80	121.76	3
OG1-CB-CG2	109.30	119.26	1
CG1-CB-CG2	110.70	125.64	2
CA-CB-CG2	110.50	118.97	1
CA-CB-OG1	109.60	117.07	1
C-CA-CB	110.10	119.56	3
CD1-CG-CD2	110.80	121.75	6
CA-CB-CG2	110.50	118.96	2
N-CA-CB	110.50	118.96	2
O-C-N	123.00	115.04	2
C-CA-CB	110.10	119.55	2
N-CA-C	111.00	97.07	2
C-N-CA	121.70	130.66	1
CA-CB-CG	104.50	95.05	1
CD1-CG-CD2	110.80	121.74	2
CB-CG-CD	111.30	99.86	1
N-CA-C	111.00	97.08	3
CA-CB-CG2	110.50	118.95	3
CG1-CB-CG2	110.70	125.62	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.40	117.86	1
N-CA-CB	111.50	119.95	1
CG1-CB-CG2	110.70	125.61	3
OG1-CB-CG2	109.30	119.24	2
N-CA-CB	110.50	118.95	1
C-CA-CB	110.10	119.54	1
CG1-CB-CG2	110.70	125.60	1
O-C-N	123.00	130.95	1
N-CA-CB	110.50	118.94	3
C-N-CA	121.70	112.76	1
CA-CB-CG	113.80	108.83	1
N-CA-C	112.10	124.51	1
CA-CB-CG	112.60	107.64	4
CD1-CG-CD2	110.80	121.72	2
C-N-CA	121.70	112.77	2
C-CA-CB	110.10	119.53	1
CG1-CB-CG2	110.70	125.59	1
CA-CB-CG1	110.40	118.83	1
CA-CB-CG	113.80	108.84	1
C-CA-CB	110.50	117.94	2
N-CA-CB	111.50	119.93	2
C-CA-CB	110.10	119.52	3
CA-CB-CG	113.90	104.97	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CD1-CG-CD2	110.80	121.71	1
N-CA-CB	110.50	118.93	1
CD1-CG-CD2	110.80	121.70	1
OG1-CB-CG2	109.30	119.21	1
CA-CB-CG2	110.50	118.92	3
C-CA-CB	110.10	119.51	2
CA-C-N	116.20	126.10	1
OG1-CB-CG2	109.30	119.20	2
CD1-CG-CD2	110.80	121.69	2
N-CA-CB	111.50	119.92	1
N-CA-CB	110.50	118.92	1
C-CA-CB	110.50	117.93	1
CA-CB-CG	112.60	107.65	3
N-CA-CB	110.50	118.91	2
C-N-CA	121.70	130.61	1
C-CA-CB	110.10	119.50	2
OG1-CB-CG2	109.30	119.19	1
N-CA-C	111.00	97.15	1
CA-CB-CG	113.80	108.85	1
CA-C-N	116.20	126.09	1
CA-CB-CG	112.60	107.66	1
N-CA-CB	110.50	118.90	2
C-CA-CB	110.10	119.49	4

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG2	110.50	118.90	2
CA-CB-CG	113.80	108.86	1
CD1-CG-CD2	110.80	121.67	1
CA-C-N	116.20	126.08	1
C-CA-CB	110.50	117.91	1
C-N-CA	121.70	130.59	1
O-C-N	123.00	115.10	2
N-CA-C	111.00	97.17	1
CA-C-N	116.90	109.49	1
N-CA-C	113.30	98.98	1
OG1-CB-CG2	109.30	119.18	1
C-CA-CB	110.10	119.48	2
CG1-CB-CG2	110.70	125.51	2
CG1-CB-CG2	110.80	121.66	1
CD1-CG-CD2	110.80	121.66	3
N-CA-C	111.00	97.18	1
O-C-N	123.00	130.90	1
C-CA-CB	109.10	119.96	1
CA-CB-OG1	109.60	117.00	2
CA-CB-CG	112.60	107.67	2
C-CA-CB	110.10	119.47	2
CD1-CG-CD2	110.80	121.65	3
CA-CB-CG2	110.50	118.89	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG	113.80	108.87	2
CA-C-N	116.20	126.07	1
CA-CB-CG2	110.50	118.88	3
C-CA-CB	110.50	117.90	1
O-C-N	123.00	115.11	1
C-N-CA	121.70	130.58	1
CG1-CB-CG2	110.70	125.49	1
N-CA-CB	110.50	118.88	2
CD1-CG-CD2	110.80	121.64	5
CB-CG-CD	112.60	104.22	1
CA-C-N	116.20	126.06	1
CG1-CB-CG2	110.70	125.48	1
CA-CB-CG2	110.50	118.87	2
CA-CB-CG	112.60	107.68	2
OG1-CB-CG2	109.30	119.15	2
C-CA-CB	111.40	120.76	1
N-CA-C	111.00	97.22	1
C-N-CA	121.70	112.84	2
N-CA-CB	110.50	118.87	1
CB-CG-CD2	126.80	119.91	1
C-CA-CB	110.10	119.45	1
CA-C-O	120.80	110.46	1
CA-CB-CG2	110.50	118.86	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	118.86	2
OG1-CB-CG2	109.30	119.14	1
O-C-N	123.00	115.13	1
CA-C-O	120.80	112.44	1
CA-C-N	116.20	126.04	1
C-CA-CB	111.40	120.75	1
CG1-CB-CG2	110.70	125.46	1
C-N-CA	121.70	112.85	1
C-CA-CB	110.10	119.44	2
CA-CB-CG	113.80	108.88	1
N-CA-C	112.10	124.39	1
C-CA-CB	109.10	119.92	1
CD1-CG-CD2	110.80	121.62	1
OG1-CB-CG2	109.30	119.13	1
CA-CB-CG1	110.40	118.75	1
CD1-CG-CD2	110.80	121.61	3
C-CA-CB	109.10	119.91	1
N-CA-CB	111.50	119.85	1
N-CA-C	111.00	124.75	1
OG1-CB-CG2	109.30	119.12	1
CA-CB-CG	112.60	107.69	2
CA-CB-CG	113.80	108.89	1
CD1-CG-CD2	110.80	121.60	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG2	110.40	102.05	1
N-CA-CB	110.50	118.85	2
C-CA-CB	110.10	119.43	3
N-CA-C	111.00	97.25	1
CA-C-N	116.90	124.26	1
N-CA-CB	110.50	118.84	1
CA-CB-CG2	110.50	118.84	1
N-CA-C	111.00	97.26	2
C-CA-CB	110.10	119.42	3
C-N-CA	121.70	130.53	1
CD1-CG-CD2	110.80	121.59	1
CA-C-N	116.20	126.01	1
OG1-CB-CG2	109.30	119.11	1
CG1-CB-CG2	110.70	125.41	1
CA-CB-CG	112.60	107.70	2
O-C-N	123.00	115.16	1
C-CA-CB	110.10	119.41	2
N-CA-CB	111.50	119.83	1
C-CA-CB	111.40	120.71	1
CA-CB-CG	114.10	104.30	1
CA-CB-OG1	109.60	116.95	1
N-CA-CB	110.50	118.83	1
CA-CB-CG2	110.50	118.83	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CG1-CB-CG2	110.70	125.40	1
C-N-CA	121.70	112.88	1
OG1-CB-CG2	109.30	119.10	2
CA-C-N	116.20	126.00	1
N-CA-CB	110.50	118.82	2
CG1-CB-CG2	110.70	125.39	1
C-N-CA	121.70	130.51	2
C-CA-CB	110.10	119.40	3
CD1-CG-CD2	110.80	121.57	1
CG1-CB-CG2	110.70	125.38	1
OG1-CB-CG2	109.30	119.09	2
CA-C-N	116.20	125.99	1
C-CA-CB	109.10	119.86	1
C-CA-CB	110.10	119.39	1
CD1-CG-CD2	110.80	121.56	3
N-CA-CB	110.50	118.81	1
O-C-N	123.00	115.18	1
OG1-CB-CG2	109.30	119.08	1
CA-CB-CG	113.90	105.10	1
C-CA-CB	110.10	100.81	1
CA-C-N	116.20	125.98	1
C-N-CA	121.70	130.50	1
C-CA-CB	110.10	100.82	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-OG1	109.60	116.93	1
N-CA-CB	110.40	117.73	1
CA-C-N	116.20	125.97	1
CD1-CG-CD2	110.80	121.55	1
CA-CB-CG	112.60	107.71	1
N-CA-CB	111.50	119.80	2
N-CA-C	111.00	97.32	1
OG1-CB-CG2	109.30	119.07	1
N-CA-C	111.00	124.68	2
CA-CB-CG2	110.50	118.80	1
C-CA-CB	110.10	119.38	1
CD1-CG-CD2	110.80	121.54	1
N-CA-CB	110.50	118.80	1
C-CA-CB	111.40	120.68	1
C-N-CA	121.70	112.91	1
C-CA-CB	110.10	119.37	1
CA-CB-CG	113.80	108.92	2
O-C-N	123.00	130.81	1
CA-CB-CG	112.60	107.72	1
CA-C-O	120.80	112.50	1
N-CA-CB	110.50	118.79	2
N-CA-C	111.00	97.34	1
CD1-CG-CD2	110.80	121.53	4

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CG1-CB-CG2	110.70	125.34	1
CA-C-N	116.20	125.96	1
C-N-CA	121.70	112.92	1
N-CA-CB	110.40	117.71	1
C-CA-CB	110.10	119.36	1
CA-CB-OG1	109.60	116.91	1
C-N-CA	121.70	130.48	1
OG1-CB-CG2	109.30	119.05	1
C-CA-CB	111.40	120.66	1
N-CA-C	111.00	97.35	1
C-CA-CB	110.50	117.81	1
CG1-CB-CG2	110.70	125.32	1
CA-CB-CG	113.80	108.93	1
C-N-CA	121.70	130.47	1
CD1-CG-CD2	110.80	121.52	1
N-CA-CB	110.50	118.78	1
CA-CB-CG	112.60	107.73	2
OG1-CB-CG2	109.30	119.04	2
C-CA-CB	110.10	119.35	3
CG1-CB-CG2	110.70	125.31	1
C-CA-CB	111.40	120.65	1
C-N-CA	121.70	112.94	2
N-CA-C	111.00	97.37	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG	113.90	105.14	1
N-CA-C	111.00	97.38	1
CD1-CG-CD2	110.80	121.50	2
C-CA-CB	111.60	121.32	1
C-CA-CB	109.10	119.80	1
C-CA-CB	110.10	119.34	1
OG1-CB-CG2	109.30	119.02	1
CA-CB-CG2	110.50	118.76	1
CA-CB-CG	112.60	107.74	3
C-N-CA	121.70	112.95	1
N-CA-CB	111.50	119.76	1
CA-CB-CG	113.80	108.94	2
C-CA-CB	111.40	102.17	1
CA-CB-OG1	109.60	116.89	1
OG1-CB-CG2	109.30	119.01	1
C-N-CA	121.70	112.96	1
C-CA-CB	110.50	117.78	2
C-CA-CB	110.10	119.33	2
CD1-CG-CD2	110.80	121.48	2
C-CA-CB	109.10	119.78	1
CA-CB-CG	112.60	107.75	2
CA-C-N	116.20	125.91	1
C-CA-CB	110.10	119.32	3

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	118.75	1
CD1-CG-CD2	110.80	121.47	4
CB-CG-CD	112.60	104.35	1
N-CA-CB	110.50	118.74	1
N-CA-C	113.30	99.24	1
C-CA-CB	110.10	119.31	6
CG1-CB-CG2	110.70	125.25	1
CA-CB-CG2	110.50	118.74	2
CD1-CG-CD2	110.80	121.46	3
CG1-CB-CG2	110.70	125.24	1
CA-C-N	116.20	125.89	1
N-CA-C	113.30	99.25	1
C-CA-CB	110.50	103.23	1
N-CA-C	111.00	124.57	1
CA-C-O	120.80	112.56	1
N-CA-C	111.00	97.44	1
C-CA-CB	110.10	119.30	5
C-CA-CB	111.40	120.60	1
CA-CB-CG2	110.50	118.73	1
CG1-CB-CG2	110.70	125.23	2
CD1-CG-CD2	110.80	121.45	3
C-N-CA	121.70	130.42	2
CA-CB-CG	112.60	107.76	4

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG	113.80	108.96	1
CG1-CB-CG2	110.70	125.22	2
CA-CB-CG	114.10	123.78	1
C-CA-CB	110.10	119.29	5
CA-C-N	116.20	106.52	1
O-C-N	123.00	115.26	2
CG1-CB-CG2	110.70	125.21	1
C-N-CA	121.70	112.99	1
N-CA-CB	110.50	118.72	1
C-CA-CB	110.50	117.75	1
CA-CB-CG1	110.40	118.62	1
N-CA-C	111.00	124.54	1
C-CA-CB	110.10	119.28	3
C-N-CA	121.70	130.40	2
CA-CB-CG2	110.40	118.62	1
CB-CG-CD	112.60	104.38	1
CA-CB-CG2	110.50	118.71	1
CD1-CG-CD2	110.80	121.43	2
C-N-CA	121.70	113.00	1
N-CA-C	111.00	97.47	1
CA-C-N	116.20	125.86	1
N-CA-CB	110.50	118.71	1
CA-CB-CG	113.90	105.21	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-C	112.10	124.17	1
O-C-N	123.00	115.27	1
CA-CB-CG2	110.40	118.61	1
CA-CB-CG	113.80	108.97	2
C-N-CA	121.70	130.39	2
N-CA-CB	111.50	119.71	1
C-CA-CB	110.10	119.27	2
CG-CD1-CE1	120.70	128.91	1
CD1-CG-CD2	110.80	121.42	2
CB-CG-CD2	126.80	120.04	1
N-CA-C	111.00	124.51	2
CG1-CB-CG2	110.70	125.18	1
CA-CB-CG2	110.50	118.70	1
C-CA-CB	110.10	100.93	1
CA-CB-CG	113.80	108.98	1
CD1-CG-CD2	110.80	121.41	2
CA-CB-CG	112.60	107.78	5
C-N-CA	121.70	130.38	1
N-CA-CB	110.50	118.70	1
N-CA-C	111.00	97.50	2
OG1-CB-CG2	109.30	118.95	1
N-CA-C	111.00	124.50	1
C-CA-CB	110.10	119.26	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-C	113.30	99.32	1
CA-CB-CG2	110.50	118.69	1
C-N-CA	121.70	130.37	1
N-CA-CB	110.50	118.69	2
CA-CB-OG1	109.60	116.83	1
N-CA-CB	111.50	119.69	1
C-CA-CB	111.60	121.24	1
C-CA-CB	110.10	119.25	1
CD1-CG-CD2	110.80	121.40	1
CA-CB-CG	113.90	105.23	1
C-N-CA	121.70	113.03	2
CG1-CB-CG2	110.70	125.14	2
CD1-CG-CD2	110.80	121.39	2
N-CA-CB	111.50	119.68	2
C-CA-CB	109.10	119.69	1
N-CA-C	111.00	97.53	1
OG1-CB-CG2	109.30	118.92	3
C-N-CA	121.70	113.04	1
C-N-CA	121.70	130.36	1
C-CA-CB	111.40	120.54	1
N-CA-C	113.30	99.35	1
CD1-CG-CD2	110.80	121.38	2
CB-CG-CD	111.30	122.36	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	118.67	1
C-CA-CB	109.10	119.68	1
CA-CB-CG	112.60	107.79	1
N-CA-C	111.00	97.54	1
N-CA-CB	111.50	119.67	1
N-CA-C	111.00	124.46	1
CA-CB-CG	114.10	123.71	1
CD1-CG-CD2	110.80	121.37	3
C-N-CA	121.70	113.05	1
C-CA-CB	110.10	119.23	2
N-CA-CB	110.50	102.33	1
CA-C-N	116.20	125.81	1
N-CA-C	111.00	97.55	1
CA-CB-CG	113.80	109.00	1
CD1-CG-CD2	110.80	121.36	2
O-C-N	123.00	115.32	1
CB-CG-CD	112.60	104.44	1
CA-CB-CG	112.60	107.80	5
N-CA-C	113.30	99.38	1
CA-C-N	116.20	125.80	3
OG1-CB-CG2	109.30	118.90	1
N-CA-C	111.00	124.44	1
CA-CB-CG2	110.50	118.66	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-C	112.10	100.10	1
C-CA-CB	110.10	119.22	2
C-N-CA	121.70	113.06	2
N-CA-CB	110.50	118.66	2
CA-C-O	120.80	112.64	1
N-CA-C	111.00	97.57	1
CD1-CG-CD2	110.80	121.35	1
CB-CG-CD2	126.80	120.09	1
C-CA-CB	110.10	119.21	4
C-CA-CB	111.40	120.51	1
N-CA-C	111.00	97.58	2
CA-CB-OG1	109.60	116.79	1
N-CA-CB	110.50	118.65	1
OG1-CB-CG2	109.30	118.89	1
CA-C-N	116.20	125.79	1
CA-CB-CG	112.60	107.81	4
N-CA-CB	111.50	119.65	1
CA-C-O	120.80	112.65	1
O-C-N	123.00	115.33	1
OG1-CB-CG2	109.30	118.88	1
O-C-N	123.00	115.34	2
C-CA-CB	110.10	119.20	5
CA-CB-CG	113.80	109.01	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CD1-CG-CD2	110.80	121.34	1
CD1-CG-CD2	110.80	121.33	3
N-CA-C	111.00	97.59	1
C-N-CA	121.70	113.08	1
C-CA-CB	110.10	101.01	1
CA-CB-CG2	110.50	118.64	1
CA-CB-OG1	109.60	116.78	1
C-N-CA	121.70	130.31	1
C-CA-CB	110.10	119.19	2
C-N-CA	121.70	113.09	1
CA-CB-CG	113.90	105.29	1
OG1-CB-CG2	109.30	118.87	1
N-CA-C	111.00	97.61	1
C-CA-CB	109.10	119.62	1
N-CA-C	112.10	100.14	1
CA-C-N	116.20	125.76	1
O-C-N	123.00	115.35	1
N-CA-C	111.00	124.39	1
C-CA-CB	111.40	102.32	1
CA-CB-CG	112.60	107.82	1
C-CA-CB	111.40	120.48	1
C-CA-CB	110.50	117.67	1
C-CA-CB	110.10	119.18	4

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	111.50	119.62	2
C-CA-CB	110.10	101.02	1
CD1-CG-CD2	110.80	121.31	2
CA-CB-CG	113.80	109.02	1
C-N-CA	121.70	113.10	1
N-CA-CB	110.50	118.62	1
C-CA-CB	111.60	102.05	1
CA-CB-CG	113.80	109.03	2
N-CA-CB	111.50	119.61	1
C-N-CA	121.70	113.11	1
C-CA-CB	109.10	119.60	1
CA-CB-CG	112.60	107.83	3
CD2-NE2-CE1	109.00	104.23	1
C-CA-CB	111.60	121.14	1
C-CA-CB	109.10	119.59	1
CA-C-O	120.80	112.69	1
N-CA-C	111.00	97.65	2
CD1-CG-CD2	110.80	121.29	2
C-CA-CB	111.40	120.46	1
OG1-CB-CG2	109.30	118.84	1
CA-C-N	116.20	125.73	1
C-N-CA	121.70	130.28	1
C-CA-CB	110.10	119.16	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-OG1	109.60	116.75	2
CD1-CG-CD2	110.80	121.28	2
CA-CB-CG2	110.40	118.50	1
N-CA-C	111.00	97.66	1
C-CA-CB	111.60	121.13	1
CG1-CB-CG2	110.70	124.99	1
C-CA-CB	110.10	119.15	1
CA-CB-CG	112.60	107.84	2
N-CA-CB	110.40	117.54	1
C-N-CA	121.70	130.27	1
CB-CG-CD2	120.70	128.79	1
C-N-CA	121.70	113.13	1
CA-C-N	116.20	106.68	1
N-CA-CB	110.50	118.59	1
CA-CB-CG	113.90	105.34	1
CG1-CB-CG2	110.70	124.97	1
C-CA-CB	111.60	102.08	1
N-CA-C	111.00	124.32	1
C-CA-CB	110.10	119.14	3
CD1-CG-CD2	110.80	121.26	4
CA-CB-OG1	109.60	116.73	1
CG1-CB-CG2	110.70	124.96	1
N-CA-C	111.00	97.69	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	119.13	5
N-CA-CB	110.50	118.58	2
CA-CB-CG2	110.50	118.58	1
C-N-CA	121.70	113.15	1
CA-CB-CG	113.80	109.05	2
C-CA-CB	110.50	117.63	2
CA-CB-CG	112.60	107.85	3
C-CA-CB	109.10	119.55	1
CA-CB-OG1	109.60	116.72	1
C-CA-CB	110.50	117.62	1
C-CA-CB	110.10	119.12	2
CA-C-N	116.20	106.70	2
CD1-CG-CD2	110.80	121.25	1
C-CA-CB	111.40	120.42	1
CG1-CB-CG2	110.70	124.94	1
N-CA-CB	110.50	118.57	1
N-CA-C	113.30	99.54	1
CA-CB-CG	112.60	107.86	1
N-CA-CB	110.50	118.56	3
CG1-CB-CG2	110.70	124.93	1
C-CA-CB	111.60	121.09	1
CA-CB-CG2	110.50	118.56	1
C-CA-CB	110.10	119.11	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CB-CG-CD2	120.80	113.69	1
C-CA-CB	109.10	119.53	1
N-CA-C	111.00	97.72	3
C-N-CA	121.70	113.16	1
C-CA-CB	110.50	117.61	1
CA-CB-CG	113.80	109.06	1
C-N-CA	121.70	130.23	1
C-CA-CB	110.10	119.10	7
CA-CB-OG1	109.60	116.71	1
N-CA-CB	110.50	118.55	2
CA-CB-CG	114.10	123.58	1
CD1-CG-CD2	110.80	121.22	4
CG1-CB-CG2	110.80	121.22	1
C-N-CA	121.70	113.18	2
CD1-CG-CD2	110.80	121.21	3
C-CA-CB	110.10	119.09	4
CA-C-O	120.80	128.85	1
CA-CB-CG	113.80	109.07	1
CA-CB-CG	113.90	105.38	1
CA-CB-CG	112.60	107.87	1
N-CA-CB	110.50	118.54	3
C-N-CA	121.70	130.21	1
N-CA-C	111.00	124.24	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	119.08	1
CB-CG-CD	111.30	122.17	1
N-CA-C	111.00	97.77	2
O-C-N	123.00	130.56	1
CA-C-O	120.80	112.77	1
C-CA-CB	109.10	119.50	1
CG1-CB-CG2	110.70	124.88	1
N-CA-CB	111.50	119.53	1
O-C-N	123.00	115.44	3
CB-CG-CD2	126.80	120.18	1
CD1-CG-CD2	110.80	121.19	1
C-CA-CB	110.10	101.12	1
CA-CB-CG	113.80	109.08	4
C-CA-CB	110.10	119.07	4
C-CA-CB	111.40	120.37	1
CA-CB-CG	113.90	105.40	1
C-CA-CB	110.50	117.58	1
CA-CB-CG	112.60	107.88	5
C-N-CA	121.70	130.20	2
CA-C-N	116.20	125.64	2
C-CA-CB	109.10	119.48	1
CA-CB-CG2	110.50	118.52	2
CA-CB-OG1	109.60	116.68	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	118.52	1
C-CA-CB	110.10	119.06	4
CA-CB-CG1	110.40	118.42	1
CD1-CG-CD2	110.80	121.18	1
N-CA-CB	111.50	119.52	1
N-CA-C	111.00	124.20	1
CD1-CG-CD2	110.80	121.17	1
C-N-CA	121.70	113.21	1
CA-CB-CG2	110.50	118.51	1
CA-CB-CG	112.60	107.89	1
N-CA-CB	110.50	118.51	2
O-C-N	123.00	115.46	1
N-CA-CB	103.00	108.18	1
OG1-CB-CG2	109.30	118.72	1
CD1-CG-CD2	110.80	121.16	1
CA-CB-OG1	109.60	116.66	1
C-CA-CB	110.10	101.15	1
C-CA-CB	110.10	119.05	1
C-N-CA	121.70	113.23	1
C-N-CA	121.70	130.17	2
C-CA-CB	110.10	119.04	1
CA-C-N	116.20	125.61	2
CD1-CG-CD2	110.80	121.15	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	109.10	119.45	2
C-CA-CB	110.10	101.16	1
CA-C-O	120.80	112.80	1
N-CA-C	111.00	97.83	2
C-CA-CB	110.10	119.03	1
N-CA-CB	111.50	119.49	1
CB-CG-CD	111.30	122.11	1
CD1-CG-CD2	110.80	121.14	3
C-N-CA	121.70	113.24	1
C-N-CA	121.70	130.16	3
CA-CB-CG	112.60	107.90	2
N-CA-C	111.00	97.84	1
CG1-CB-CG2	110.70	124.79	1
C-CA-CB	110.10	119.02	6
CD1-CG-CD2	110.80	121.13	3
O-C-N	123.00	130.51	1
CA-CB-CG	113.90	105.45	1
CA-C-N	116.20	125.59	1
N-CA-C	111.00	124.15	1
N-CA-C	111.00	97.85	1
O-C-N	123.00	115.49	1
CA-CB-CG2	110.50	118.48	1
C-CA-CB	109.10	119.43	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	111.50	119.48	1
CB-CG-CD	112.60	104.62	1
N-CA-C	112.10	123.83	1
N-CA-C	111.00	97.86	2
CA-CB-OG1	109.60	116.64	1
C-CA-CB	110.10	101.19	2
C-CA-CB	111.60	120.98	1
N-CA-CB	111.50	119.47	1
CA-CB-CG	113.80	109.11	1
CA-CB-CG2	110.50	118.47	1
C-CA-CB	110.10	119.01	2
C-CA-CB	111.40	120.31	2
C-N-CA	121.70	130.14	2
CD1-CG-CD2	110.80	121.12	1
CA-CB-OG1	109.60	116.63	1
N-CA-C	112.10	100.38	1
N-CA-CB	110.40	117.43	1
OG1-CB-CG2	109.30	118.67	1
C-CA-CB	111.40	120.30	1
C-CA-CB	110.10	119.00	2
CA-CB-CG	112.60	107.91	1
C-N-CA	121.70	113.27	1
N-CA-C	111.00	97.88	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CD1-CG-CD2	110.80	121.11	1
N-CA-CB	110.50	118.46	1
CG1-CB-CG2	110.70	124.75	1
CA-CB-CG	112.60	107.92	4
N-CA-C	111.00	124.11	1
CA-C-N	116.20	125.56	2
CA-CB-CG	113.80	109.12	2
CG1-CB-CG2	110.70	124.74	1
CA-C-N	116.90	123.92	1
N-CA-C	112.10	100.40	1
C-N-CA	121.70	113.28	1
C-CA-CB	110.10	118.99	2
N-CA-CB	110.50	118.45	1
CA-CB-OG1	109.60	116.62	2
N-CA-CB	111.50	119.45	1
N-CA-C	111.00	124.10	1
CA-C-O	120.80	112.85	1
CD1-CG-CD2	110.80	121.09	1
CD2-NE2-CE1	109.00	104.32	1
C-CA-CB	110.10	118.98	3
CD1-CG-CD2	110.80	121.08	2
CB-CG-CD2	126.80	120.26	1
O-C-N	123.00	115.52	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG2	110.50	118.44	1
N-CA-CB	111.50	119.44	1
CA-CB-CG	112.60	107.93	6
C-N-CA	121.70	113.29	1
C-CA-CB	111.40	102.53	1
CA-CB-CG	114.10	104.76	1
C-N-CA	121.70	130.11	1
C-CA-CB	110.10	118.97	3
N-CA-CB	110.50	118.44	2
C-CA-CB	110.50	117.50	1
CA-CB-CG	113.80	109.13	2
C-CA-CB	109.10	119.37	1
CD1-CG-CD2	110.80	121.07	3
N-CA-C	111.00	97.93	2
CG1-CB-CG2	110.70	124.70	2
C-CA-CB	110.10	118.96	7
N-CA-C	111.00	124.06	1
OG1-CB-CG2	109.30	118.63	1
N-CA-C	111.00	97.94	1
CB-CG-CD	111.30	122.03	1
CA-CB-CG	112.60	107.94	2
C-N-CA	121.70	113.31	1
CG1-CB-CG2	110.70	124.68	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-C-N	116.20	106.88	1
N-CA-C	111.00	97.95	2
N-CA-C	111.00	124.05	1
C-CA-CB	110.10	118.95	6
C-CA-CB	111.60	102.28	1
N-CA-C	111.00	97.96	1
C-CA-CB	110.10	101.25	1
CG1-CB-CG2	110.70	124.67	2
CA-C-N	116.20	125.51	2
N-CA-CB	110.40	117.39	1
C-CA-CB	110.50	117.48	2
C-N-CA	121.70	130.08	2
C-CA-CB	110.10	118.94	1
CA-CB-CG	112.60	107.95	1
OG1-CB-CG2	109.30	118.61	1
CG1-CB-CG2	110.70	124.66	2
N-CA-CB	110.50	118.41	2
N-CA-C	111.00	97.98	2
CG1-CB-CG2	110.70	124.65	1
CA-CB-OG1	109.60	116.58	1
CA-CB-CG2	110.50	118.41	1
C-CA-CB	111.60	120.90	2
CD1-CG-CD2	110.80	121.03	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG2	110.50	118.40	1
N-CA-C	111.00	124.02	1
C-CA-CB	110.10	118.93	4
O-C-N	123.00	115.56	1
C-N-CA	121.70	130.06	1
CD2-NE2-CE1	109.00	104.36	1
CA-CB-CG	112.60	107.96	3
C-CA-CB	109.10	119.32	1
N-CA-CB	111.50	119.39	1
CA-CB-CG	114.10	104.81	1
C-CA-CB	110.10	118.92	1
N-CA-C	111.00	124.00	1
N-CA-CB	110.50	118.39	2
C-N-CA	121.70	113.35	1
C-CA-CB	110.10	118.91	2
N-CA-C	111.00	98.01	2
C-CA-CB	111.60	120.88	1
CA-C-N	116.20	106.92	1
C-N-CA	121.70	130.05	1
N-CA-C	111.00	98.02	1
N-CA-CB	111.50	103.62	2
CA-CB-CG	113.80	109.17	1
CA-CB-CG2	110.50	118.38	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG	112.60	107.97	4
CG1-CB-CG2	110.70	124.60	2
CD1-CG-CD2	110.80	120.99	1
CD2-NE2-CE1	109.00	104.37	1
CG1-CB-CG2	110.70	124.59	1
CA-CB-CG2	110.50	102.63	1
N-CA-C	111.00	98.04	1
C-CA-CB	110.10	118.89	3
CD1-CG-CD2	110.80	120.98	1
CA-C-N	116.20	125.45	1
CA-CB-OG1	109.60	116.54	1
CA-CB-CG2	110.50	118.36	2
CA-CB-CG1	110.40	118.26	1
N-CA-C	111.00	98.05	1
N-CA-CB	110.50	118.36	1
CD1-CG-CD2	110.80	120.97	1
C-N-CA	121.70	130.02	2
C-CA-CB	110.10	101.32	1
N-CA-C	111.00	98.06	2
N-CA-CB	111.50	119.36	1
CA-CB-OG1	109.60	116.53	3
CA-C-O	120.80	112.94	1
CG1-CB-CG2	110.70	124.57	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	118.88	1
CA-CB-CG	113.90	105.58	1
CA-C-N	116.20	125.44	1
N-CA-CB	110.50	102.64	1
CB-CG-CD2	126.80	120.33	1
CD1-CG-CD2	110.80	120.96	2
N-CA-CB	110.50	118.35	2
CA-CB-CG	112.60	107.98	1
N-CA-CB	110.40	117.33	1
C-CA-CB	109.10	98.94	1
N-CA-C	111.00	123.93	1
N-CA-C	112.10	123.65	1
N-CA-CB	111.50	119.35	1
N-CA-C	111.00	98.07	1
CD2-NE2-CE1	109.00	104.38	1
C-CA-CB	110.10	118.87	4
CA-CB-CG	114.10	123.33	1
CA-CB-OG1	109.60	116.52	2
C-CA-CB	110.10	101.33	1
O-C-N	123.00	115.62	1
CG1-CB-CG2	110.70	124.54	1
N-CA-CB	110.50	118.34	1
C-N-CA	121.70	130.00	3

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	118.86	3
CA-CB-CG	112.60	107.99	7
CA-C-O	120.80	112.96	1
CA-CB-CG	113.80	109.19	1
N-CA-C	111.00	98.09	2
C-CA-CB	109.10	119.24	2
CG1-CB-CG2	110.70	124.53	1
O-C-N	123.00	115.63	1
N-CA-C	113.30	99.94	1
N-CA-CB	110.50	118.33	2
CD1-CG-CD2	110.80	120.94	2
C-CA-CB	110.10	118.85	5
CA-CB-CG2	110.50	118.33	1
CA-C-O	120.80	112.97	2
CG-SD-CE	100.90	90.77	1
N-CA-C	111.00	98.11	1
N-CA-C	112.10	123.61	1
CD1-CG-CD2	110.80	120.93	1
OG1-CB-CG2	109.30	118.51	2
N-CA-CB	110.50	102.68	1
O-C-N	123.00	115.64	1
CG1-CB-CG2	110.70	124.51	1
C-N-CA	121.70	129.98	3

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	101.36	1
CA-CB-CG	112.60	108.00	2
C-CA-CB	110.10	118.84	1
CA-CB-CG2	110.50	118.32	1
N-CA-C	111.00	98.12	1
C-N-CA	121.70	113.42	1
CA-CB-OG1	109.60	116.50	1
CB-CG-CD	112.60	104.79	1
CA-CB-CG2	110.50	118.31	1
C-CA-CB	110.10	118.83	1
CD2-NE2-CE1	109.00	104.40	1
CG1-CB-CG2	110.70	124.48	1
CA-C-N	116.90	123.79	1
CA-C-N	116.20	125.39	1
C-CA-CB	111.40	120.13	1
N-CA-CB	110.50	118.31	1
CA-CB-CG	112.60	108.01	3
CA-C-N	116.90	110.01	1
CA-CB-OG1	109.60	116.49	1
CG1-CB-CG2	110.70	124.47	1
N-CA-C	111.00	123.85	2
CB-CG-CD1	126.90	133.78	1
N-CA-C	111.00	98.15	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	118.82	1
CA-CB-CG2	110.50	118.30	2
C-CA-CB	110.10	101.38	1
N-CA-CB	110.50	118.30	2
C-N-CA	121.70	113.44	1
CD2-NE2-CE1	109.00	104.41	1
C-CA-CB	109.10	119.19	2
O-C-N	123.00	115.66	1
CA-C-O	120.80	128.60	1
C-CA-CB	110.10	118.81	2
CA-C-N	116.20	125.37	1
C-CA-CB	111.40	120.11	1
N-CA-C	111.00	98.16	1
C-N-CA	121.70	113.45	1
CD1-CG-CD2	110.80	120.89	1
NH1-CZ-NH2	119.30	113.34	1
N-CA-CB	110.50	118.29	3
CD2-NE2-CE1	109.00	104.42	1
C-CA-CB	109.10	119.18	2
CA-CB-CG2	110.50	118.29	1
N-CA-CB	111.50	119.29	1
CB-CG-CD1	110.70	124.45	1
CA-CB-OG1	109.60	116.47	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG	112.60	108.02	4
C-CA-CB	110.10	118.80	3
C-CA-CB	110.50	117.37	1
C-CA-CB	109.10	119.17	2
N-CA-CB	111.50	119.28	1
C-CA-CB	110.10	101.40	1
C-N-CA	121.70	129.94	1
CA-CB-OG1	109.60	116.46	1
CA-C-N	116.20	125.35	1
O-C-N	123.00	115.68	1
C-CA-CB	110.10	118.79	2
CA-CB-CG2	110.50	118.28	1
C-N-CA	121.70	113.47	1
C-N-CA	121.70	129.93	1
C-CA-CB	109.10	119.16	1
CA-CB-CG2	110.50	118.27	1
CG1-CB-CG2	110.70	124.41	1
CA-CB-CG	112.60	108.03	1
C-CA-CB	110.10	118.78	6
N-CA-C	111.00	98.20	1
N-CA-CB	110.50	102.73	1
O-C-N	123.00	130.31	1
N-CA-C	111.00	98.21	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-N-CA	121.70	129.92	1
N-CA-CB	103.00	108.03	1
O-C-N	123.00	115.69	1
CA-CB-CG2	110.50	118.26	1
CB-CG-CD1	126.90	133.75	1
N-CA-CB	110.50	118.26	1
C-CA-CB	110.10	101.42	1
CA-CB-CG	113.90	105.68	2
N-CA-C	111.00	98.22	1
C-CA-CB	111.60	120.73	1
CA-CB-CG	113.80	109.24	2
CA-CB-OG1	109.60	116.45	1
C-CA-CB	110.10	118.77	2
C-CA-CB	111.40	120.07	1
CA-CB-CG	112.60	108.04	8
N-CA-C	111.00	123.78	1
N-CA-C	113.30	126.53	1
CA-CB-OG1	109.60	116.44	2
CD2-NE2-CE1	109.00	104.44	3
N-CA-CB	110.50	118.25	1
C-CA-CB	110.10	101.43	1
N-CA-CB	111.50	119.25	1
CA-C-O	120.80	113.05	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	111.40	120.06	1
C-CA-CB	110.50	117.34	1
CA-CB-CG	114.10	104.98	1
CG-CD-NE	112.00	122.03	1
N-CA-C	111.00	98.24	4
CA-C-N	116.90	123.74	1
N-CA-C	112.10	100.71	1
CG1-CB-CG2	110.80	120.82	1
CA-C-N	116.90	123.73	1
CA-CB-CG	113.90	105.70	1
C-CA-CB	111.60	120.71	1
C-CA-CB	110.10	118.75	9
O-C-N	123.00	115.71	1
C-CA-CB	111.60	102.49	1
CA-CB-OG1	109.60	116.43	1
C-N-CA	121.70	113.50	1
N-CA-CB	110.50	118.24	1
CA-C-O	120.80	113.06	2
C-CA-CB	110.10	101.45	1
N-CA-C	111.00	98.26	3
C-N-CA	121.70	113.51	1
C-CA-CB	110.10	101.46	1
N-CA-C	111.00	123.74	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG2	110.50	118.23	3
CA-CB-CG	113.90	105.71	1
C-CA-CB	110.50	117.32	1
CA-CB-CG	112.60	108.05	2
CD2-NE2-CE1	109.00	104.45	2
CA-C-N	116.20	125.30	1
C-CA-CB	109.10	119.10	1
C-CA-CB	110.10	118.74	1
C-N-CA	121.70	129.88	2
CA-CB-OG1	109.60	116.42	1
CD1-CG-CD2	110.80	120.80	1
C-N-CA	121.70	113.52	2
N-CA-C	111.00	98.27	2
C-CA-CB	110.10	118.73	4
CA-CB-CG2	110.50	118.22	1
CA-CB-CG	112.60	108.06	2
CD1-CG-CD2	110.80	120.79	2
N-CA-CB	110.50	102.78	1
CG-SD-CE	100.90	90.91	1
CD2-NE2-CE1	109.00	104.46	1
CG1-CB-CG2	110.70	124.32	3
N-CA-C	111.00	98.28	1
C-N-CA	121.70	129.87	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	109.10	119.09	2
C-CA-CB	111.40	120.02	1
C-CA-CB	110.10	118.72	4
C-CA-CB	111.40	102.78	1
CA-CB-OG1	109.60	116.40	1
CA-CB-CG2	110.50	118.21	2
CA-C-N	116.20	107.13	1
CD2-NE2-CE1	109.00	104.47	2
C-N-CA	121.70	113.54	1
CA-C-N	116.20	125.26	1
N-CA-C	111.00	98.31	1
C-CA-CB	110.10	118.71	2
N-CA-C	112.10	123.43	1
C-N-CA	121.70	113.55	2
CA-CB-CG1	110.40	118.10	1
CD1-CG-CD2	110.80	120.77	1
C-N-CA	121.70	129.85	2
CA-CB-CG	113.80	109.27	1
CD1-CG-CD2	110.80	120.76	2
O-C-N	123.00	115.76	2
C-CA-CB	110.50	117.29	1
N-CA-CB	110.50	118.19	1
CA-CB-CG	112.60	108.07	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	101.50	1
N-CA-CB	110.50	102.81	1
C-CA-CB	110.10	118.70	1
CA-CB-CG	112.60	108.08	2
CA-CB-OG1	109.60	116.39	1
C-CA-CB	110.10	118.69	1
CA-CB-OG1	109.60	116.38	1
CA-C-N	116.90	123.68	1
CB-CG-CD2	126.80	120.47	2
OG1-CB-CG2	109.30	118.34	1
N-CA-C	111.00	98.34	1
CG1-CB-CG2	110.70	124.26	1
CD2-NE2-CE1	109.00	104.48	3
CA-CB-CG	113.80	109.28	1
CA-C-O	120.80	113.12	1
CD1-CG-CD2	110.80	120.74	1
C-CA-CB	110.50	117.28	1
N-CA-CB	110.50	118.18	1
C-CA-CB	110.10	118.68	2
C-CA-CB	111.40	119.98	1
CA-CB-OG1	109.60	116.37	2
CA-CB-CG	113.90	105.77	1
C-N-CA	121.70	113.57	3

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CD2-NE2-CE1	109.00	104.49	3
N-CA-C	111.00	123.64	1
N-CA-CB	111.50	119.17	3
C-CA-CB	110.10	118.67	5
N-CA-CB	110.50	118.17	1
N-CA-C	111.00	98.37	1
CA-CB-CG	112.60	108.09	1
CA-CB-OG1	109.60	116.36	3
O-C-N	123.00	115.78	1
C-CA-CB	110.10	118.66	2
C-CA-CB	111.40	119.96	1
C-N-CA	121.70	129.81	1
CA-CB-CG1	110.40	118.06	1
CD1-CG-CD2	110.80	120.71	1
CA-C-N	116.20	125.21	1
O-C-N	123.00	115.79	2
CA-C-N	116.90	123.66	1
C-CA-CB	110.10	101.54	1
N-CA-CB	110.50	118.15	2
CA-CB-CG	112.60	108.10	6
C-CA-CB	111.40	119.95	1
CD2-NE2-CE1	109.00	104.50	4
CG1-CB-CG2	110.70	124.20	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	118.65	3
CA-C-N	116.20	125.20	3
C-CA-CB	109.10	119.00	1
N-CA-C	111.00	98.40	1
C-CA-CB	111.60	102.60	1
CA-CB-OG1	109.60	116.35	1
N-CA-C	113.30	100.26	1
CD1-CG-CD2	110.80	120.69	2
O-C-N	123.00	130.19	1
N-CA-C	111.00	98.41	1
CA-CB-CG2	110.50	118.14	2
N-CA-CB	110.50	118.14	3
C-N-CA	121.70	113.61	1
CA-CB-OG1	109.60	116.34	2
N-CA-C	111.00	98.42	1
CD2-NE2-CE1	109.00	104.51	4
C-CA-CB	109.10	118.99	1
CG1-CB-CG2	110.70	124.18	1
CA-CB-CG	113.90	105.81	1
N-CA-C	112.10	123.33	1
N-CA-CB	111.50	119.14	1
CA-CB-CG	112.60	108.11	2
C-N-CA	121.70	113.62	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CD1-CG-CD2	110.80	120.68	1
CA-C-N	116.20	125.18	1
CA-CB-OG1	109.60	116.33	1
N-CA-CB	110.50	118.13	2
C-CA-CB	109.10	118.97	1
OG1-CB-CG2	109.30	118.28	1
N-CA-C	111.00	98.43	1
CA-CB-CG	113.90	105.82	1
O-C-N	123.00	115.82	1
CG1-CB-CG2	110.70	124.16	1
N-CA-CB	111.50	119.13	1
C-CA-CB	111.40	102.88	1
CA-CB-CG2	110.50	118.13	1
CB-CG-CD	112.60	104.97	1
CD2-NE2-CE1	109.00	104.52	8
CA-CB-CG	113.80	109.32	1
CA-C-N	116.20	125.17	1
C-CA-CB	110.10	118.62	2
C-CA-CB	109.10	118.96	1
C-CA-CB	111.60	120.56	1
CA-CB-CG	113.90	105.83	1
N-CA-CB	110.50	102.88	1
N-CA-CB	110.50	118.12	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-C	111.00	98.46	2
C-CA-CB	110.50	117.22	1
O-C-N	123.00	115.83	1
CA-CB-CG	112.60	108.12	3
C-N-CA	121.70	113.64	1
C-N-CA	121.70	129.76	2
CG1-CB-CG2	110.70	124.14	1
N-CA-CB	111.50	119.11	1
C-CA-CB	110.10	118.61	1
CA-CB-OG1	109.60	116.31	1
N-CA-C	111.00	123.53	1
N-CA-CB	110.50	118.11	1
CA-CB-CG2	110.50	118.11	1
C-CA-CB	111.40	119.90	2
C-CA-CB	109.10	118.94	1
CD2-NE2-CE1	109.00	104.53	3
C-N-CA	121.70	113.65	1
C-CA-CB	110.50	103.79	1
C-CA-CB	110.10	101.60	1
CA-CB-CG	112.60	108.13	4
CA-CB-CG	113.80	109.33	2
CD1-CG-CD2	110.80	120.64	1
CD-NE-CZ	124.40	118.14	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG	113.90	105.86	1
C-CA-CB	110.10	101.61	1
CA-C-N	116.20	125.14	1
C-CA-CB	111.40	119.89	1
N-CA-C	111.00	123.51	2
N-CA-C	113.30	100.34	1
C-CA-CB	110.10	118.59	2
CA-CB-OG1	109.60	116.30	1
N-CA-CB	110.50	118.09	2
C-N-CA	121.70	129.74	1
N-CA-C	111.00	98.50	1
CA-CB-CG2	110.40	117.99	1
N-CA-C	111.00	123.50	1
CA-N-CD	112.00	105.75	1
O-C-N	123.00	115.86	1
C-CA-CB	111.40	119.88	2
CD-NE-CZ	124.40	118.15	1
C-CA-CB	109.10	118.92	1
CD2-NE2-CE1	109.00	104.54	6
C-CA-CB	110.10	118.58	3
CA-CB-CG	112.60	108.14	4
C-CA-CB	111.60	120.52	1
N-CA-C	111.00	98.51	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-OG1	109.60	116.29	2
C-N-CA	121.70	113.67	1
C-N-CA	121.70	129.73	1
N-CA-C	113.30	100.36	1
C-CA-CB	110.10	118.57	1
N-CA-C	113.30	100.37	1
CA-C-O	120.80	113.22	1
C-N-CA	121.70	129.72	2
C-CA-CB	110.50	117.19	1
OG1-CB-CG2	109.30	118.22	1
N-CA-CB	110.50	118.08	1
C-CA-CB	109.10	118.90	1
CA-CB-OG1	109.60	116.28	3
N-CA-C	111.00	98.52	1
CD2-NE2-CE1	109.00	104.55	14
C-CA-CB	110.10	118.56	3
N-CA-C	111.00	98.53	2
CA-C-N	116.20	125.11	1
CA-CB-CG	112.60	108.15	3
N-CA-C	113.30	100.39	1
N-CA-CB	111.50	119.07	2
N-CA-C	113.30	126.21	1
CA-CB-CG	113.90	105.89	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	118.07	1
CA-CB-CG	113.80	109.35	2
CA-C-O	120.80	113.23	1
CA-C-N	116.90	110.22	1
N-CA-C	111.00	98.54	1
C-CA-CB	109.10	118.89	1
N-CA-CB	110.50	118.06	2
CA-CB-OG1	109.60	116.27	1
N-CA-C	111.00	98.55	1
C-CA-CB	110.10	118.55	1
CA-CB-CG	113.90	105.90	1
CG1-CB-CG2	110.70	124.04	1
C-CA-CB	110.10	101.65	1
CD2-NE2-CE1	109.00	104.56	11
C-CA-CB	111.60	120.49	1
CA-CB-CG	112.60	108.16	4
N-CA-CB	110.50	118.05	1
C-CA-CB	111.40	119.84	1
CA-CB-OG1	109.60	116.26	1
C-CA-CB	111.60	120.48	1
CA-CB-CG2	110.50	118.05	1
N-CA-C	113.30	100.42	1
C-CA-CB	110.10	118.54	3

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
O-C-N	123.00	115.90	2
C-N-CA	121.70	113.71	1
CA-CB-CG1	110.40	117.95	1
N-CA-C	111.00	123.43	1
C-CA-CB	110.10	118.53	3
CG1-CB-CG2	110.70	124.01	1
CA-N-CD	112.00	105.79	1
C-N-CA	121.70	129.68	1
CB-CG-CD2	120.80	114.15	1
N-CA-CB	110.50	118.04	2
CA-CB-CG	112.60	108.17	3
CD2-NE2-CE1	109.00	104.57	11
C-CA-CB	109.10	118.85	3
N-CA-C	111.00	98.59	2
CA-CB-CG	113.80	109.37	2
CA-CB-CG2	110.50	118.04	1
C-CA-CB	110.10	118.52	2
CA-CB-OG1	109.60	116.25	1
CA-C-N	116.90	123.55	1
CD1-CG-CD2	110.80	120.55	1
N-CA-CB	110.50	102.97	1
CD1-CG-CD2	110.80	120.54	1
C-CA-CB	110.10	101.69	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
O-C-N	123.00	130.09	1
N-CA-CB	110.50	118.03	2
C-CA-CB	110.10	118.51	2
C-CA-CB	110.50	103.86	1
CD2-NE2-CE1	109.00	104.58	6
CA-CB-CG	113.80	109.38	1
C-CA-CB	110.10	101.70	2
CA-C-N	116.20	125.05	2
N-CA-CB	110.50	102.98	1
N-CA-CB	110.50	118.02	2
CB-CG-CD1	126.90	133.53	1
N-CA-C	111.00	98.62	1
O-C-N	123.00	115.93	2
C-N-CA	121.70	113.74	1
CA-CB-OG1	109.60	116.23	2
CA-CB-CG1	110.40	117.91	1
C-N-CA	121.70	129.66	1
CD-NE-CZ	124.40	118.21	1
C-N-CA	121.70	113.75	1
CA-CB-CG2	110.50	118.01	2
C-CA-CB	110.10	118.49	2
C-CA-CB	110.10	101.71	1
C-N-CA	121.70	129.65	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG	113.90	105.95	1
CA-C-N	116.20	125.03	1
CB-CG-CD	112.60	105.09	1
CA-CB-OG1	109.60	116.22	1
CG1-CB-CG2	110.70	123.94	1
CD1-CG-CD2	110.80	120.51	1
CD2-NE2-CE1	109.00	104.59	14
O-C-N	123.00	115.94	1
N-CA-C	111.00	98.64	1
N-CA-C	111.00	98.65	1
CA-CB-CG	113.80	109.39	1
C-CA-CB	110.10	118.48	1
CA-CB-CG	112.60	108.19	3
N-CA-C	111.00	123.35	1
CA-CB-OG1	109.60	116.21	1
N-CA-C	113.30	100.52	1
N-CA-C	111.00	98.66	3
C-CA-CB	111.60	120.41	1
C-CA-CB	110.10	118.47	1
N-CA-CB	110.50	117.99	2
CD1-CG-CD2	110.80	101.11	1
CD2-NE2-CE1	109.00	104.60	16
N-CA-CB	103.00	107.84	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG1	110.40	117.89	1
N-CA-C	111.00	123.33	1
CA-C-O	120.80	113.32	1
CA-CB-OG1	109.60	116.20	3
C-CA-CB	110.10	118.46	5
CA-CB-CG	112.60	108.20	4
N-CA-CB	111.50	118.98	2
O-C-N	123.00	115.96	1
N-CA-C	111.00	98.68	1
C-CA-CB	111.60	120.40	1
C-CA-CB	110.10	101.74	1
N-CA-C	111.00	98.69	2
N-CA-C	111.00	123.31	1
CD2-NE2-CE1	109.00	104.61	12
CA-C-N	116.20	124.99	2
C-CA-CB	110.10	118.45	2
N-CA-CB	111.50	118.97	1
CA-CB-CG	112.60	108.21	3
C-CA-CB	111.60	120.39	1
O-C-N	123.00	115.97	1
CG1-CB-CG2	110.70	123.87	3
CA-CB-OG1	109.60	116.19	1
CA-CB-CG2	110.50	117.97	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	109.10	118.76	1
C-N-CA	121.70	113.80	2
C-CA-CB	110.10	101.76	1
C-N-CA	121.70	129.60	2
C-CA-CB	110.10	118.44	2
CA-CB-OG1	109.60	116.18	2
N-CA-C	111.00	98.71	2
N-CA-C	111.00	123.28	2
C-CA-CB	111.60	120.37	1
N-CA-C	111.00	98.72	1
CA-CB-CG	112.60	108.22	4
C-CA-CB	110.10	118.43	1
CA-CB-CG	113.80	109.42	1
CA-CB-CG2	110.50	117.95	1
CD2-NE2-CE1	109.00	104.62	8
C-CA-CB	109.10	118.74	1
N-CA-CB	110.50	117.95	2
N-CA-C	111.00	98.73	2
OG1-CB-CG2	109.30	118.06	1
CD1-CG-CD2	110.80	120.44	1
CD-NE-CZ	124.40	118.27	1
C-CA-CB	111.40	119.72	1
N-CA-C	111.00	98.74	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	111.60	120.36	1
C-CA-CB	110.10	118.42	2
N-CA-CB	110.50	117.94	1
N-CA-C	111.00	98.75	2
C-CA-CB	110.10	118.41	2
C-CA-CB	109.10	118.73	1
N-CA-CB	110.50	103.06	1
CD2-NE2-CE1	109.00	104.63	7
CA-C-N	116.20	107.45	1
CA-CB-CG	112.60	108.23	5
CA-CB-CG1	110.40	117.83	1
N-CA-CB	110.50	117.93	1
N-CA-C	111.00	98.76	2
CA-CB-CG	113.80	109.43	2
CA-C-O	120.80	113.37	1
O-C-N	123.00	116.01	1
N-CA-C	111.00	123.24	1
C-CA-CB	110.10	118.40	4
N-CA-C	111.00	98.77	2
CA-CB-OG1	109.60	116.15	2
CA-C-N	116.20	124.94	1
C-N-CA	121.70	129.56	1
NE-CZ-NH2	119.20	115.27	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	111.60	102.87	1
CA-CB-CG2	110.50	117.92	1
C-CA-CB	110.10	118.39	1
N-CA-C	111.00	98.78	2
CA-CB-CG1	110.40	117.82	1
CA-CB-CG	112.60	108.24	2
CD1-CG-CD2	110.80	120.40	1
CA-C-O	120.80	113.38	1
N-CA-C	113.30	100.65	1
CB-CG-CD	112.60	105.18	1
C-CA-CB	111.60	120.33	1
C-N-CA	121.70	129.55	1
N-CA-CB	103.00	107.80	1
CA-CB-OG1	109.60	116.14	1
CA-CB-CG2	110.40	117.81	1
CD2-NE2-CE1	109.00	104.64	4
CA-CB-CG	113.90	106.05	1
CA-C-O	120.80	128.21	1
C-CA-CB	110.10	118.38	1
C-CA-CB	109.10	118.69	1
N-CA-C	111.00	98.80	3
C-N-CA	121.70	113.86	1
N-CA-C	111.00	123.20	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-N-CA	121.70	129.54	1
CA-C-N	116.20	107.49	1
N-CA-CB	110.50	117.91	1
CB-CG-CD1	126.90	133.43	1
CA-CB-CG	113.90	106.06	1
N-CA-CB	110.50	117.90	1
OG1-CB-CG2	109.30	118.01	1
C-CA-CB	110.50	103.97	1
CB-CG-CD2	126.80	120.71	1
CD1-CG-CD2	110.80	120.38	1
N-CA-CB	110.40	116.93	1
N-CA-C	111.00	98.81	1
CD2-NE2-CE1	109.00	104.65	5
CD1-CG-CD2	110.80	120.37	1
CA-CB-CG	112.60	108.25	2
CD-NE-CZ	124.40	130.49	1
N-CA-C	111.00	98.82	1
C-CA-CB	110.10	118.37	1
C-CA-CB	111.60	120.30	1
N-CA-CB	110.50	117.89	4
C-CA-CB	110.10	118.36	3
C-CA-CB	111.40	119.66	1
CA-C-N	116.20	124.90	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-C	113.30	100.69	1
C-CA-CB	110.50	103.98	1
CA-C-N	116.20	107.50	1
N-CA-C	111.00	98.83	1
CD-NE-CZ	124.40	118.31	1
N-CA-C	111.00	123.17	1
CA-CB-OG1	109.60	116.12	1
CA-C-O	120.80	113.41	1
C-CA-CB	110.10	101.84	1
CA-CB-CG	112.60	108.26	5
CA-C-N	116.20	124.89	1
C-CA-CB	110.10	118.35	1
CA-CB-CG	113.80	109.46	2
CD2-NE2-CE1	109.00	104.66	4
CA-CB-CG2	110.40	117.78	2
C-N-CA	121.70	129.52	1
N-CA-C	111.00	98.84	1
C-N-CA	121.70	113.88	1
N-CA-C	111.00	98.85	3
C-N-CA	121.70	113.89	3
CA-C-N	116.20	124.88	1
CB-CG-CD	112.60	105.22	1
C-CA-CB	110.10	101.85	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-C	111.00	123.15	1
OG1-CB-CG2	109.30	117.98	1
C-CA-CB	111.40	119.64	1
CA-C-O	120.80	113.43	2
C-CA-CB	110.10	118.34	2
C-N-CA	121.70	129.50	1
N-CA-CB	110.40	116.90	1
C-CA-CB	110.10	101.86	1
CA-CB-CG	112.60	108.27	3
N-CA-CB	110.50	117.87	1
CG-SD-CE	100.90	91.37	1
CD2-NE2-CE1	109.00	104.67	5
CA-C-N	116.90	123.40	1
C-CA-CB	109.10	118.63	1
CA-CB-CG1	110.40	117.76	2
C-CA-CB	110.10	118.33	1
O-C-N	123.00	116.07	1
N-CA-C	111.00	98.88	2
N-CA-CB	110.50	103.14	1
C-N-CA	121.70	113.91	1
C-CA-CB	111.40	119.62	1
C-N-CA	121.70	129.49	1
CA-CB-CG2	110.50	117.86	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-C	111.00	123.12	1
CA-CB-CG	113.80	109.47	2
CA-C-N	116.20	124.85	1
C-CA-CB	110.10	118.32	2
N-CA-CB	111.50	118.85	1
C-N-CA	121.70	113.92	2
N-CA-C	111.00	98.89	2
CG1-CB-CG2	110.70	123.67	1
CD2-NE2-CE1	109.00	104.68	1
CA-CB-CG	112.60	108.28	4
C-CA-CB	110.50	116.98	1
C-CA-CB	110.10	118.31	1
O-C-N	123.00	116.09	1
CA-CB-OG1	109.60	116.08	2
N-CA-CB	110.40	103.92	1
N-CA-C	111.00	123.09	1
CA-C-N	116.20	124.83	1
N-CA-C	111.00	98.91	1
C-N-CA	121.70	113.93	2
CA-CB-CG1	110.40	117.74	1
C-CA-CB	110.10	118.30	3
CD2-NE2-CE1	109.00	104.69	3
CA-CB-CG2	110.50	117.83	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-C-O	120.80	113.47	2
N-CA-C	113.30	100.80	2
CA-CB-CG2	110.40	117.73	1
CA-CB-CG	113.80	109.49	4
N-CA-C	111.00	98.93	1
CA-CB-CG	113.90	106.14	1
N-CA-CB	110.50	117.82	4
CA-CB-CG	112.60	108.29	2
CA-CB-OG1	109.60	116.06	2
N-CA-CB	110.40	116.86	1
CA-C-N	116.20	124.82	1
CG-SD-CE	100.90	91.42	1
CA-C-N	116.20	124.81	1
CG1-CB-CG2	110.70	123.62	1
C-N-CA	121.70	113.95	1
N-CA-C	111.00	98.95	2
C-CA-CB	110.10	118.28	1
N-CA-CB	110.50	117.81	3
C-CA-CB	110.10	101.93	2
C-CA-CB	110.10	118.27	5
CA-C-O	120.80	113.49	1
CA-C-N	116.90	123.35	1
CA-CB-CG	112.60	108.30	4

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	111.40	119.57	1
N-CA-CB	111.50	118.81	1
C-N-CA	121.70	129.44	1
CD2-NE2-CE1	109.00	104.70	3
CA-C-N	116.20	124.80	1
CA-CB-OG1	109.60	116.05	1
C-N-CA	121.70	129.43	1
CA-C-N	116.20	124.79	2
N-CA-C	113.30	100.84	1
N-CA-C	111.00	98.97	1
CD2-NE2-CE1	109.00	104.71	1
C-CA-CB	110.10	118.26	1
CD-NE-CZ	124.40	118.39	1
CA-CB-OG1	109.60	116.04	2
C-CA-CB	110.10	101.94	1
CA-CB-CG1	110.40	117.69	1
N-CA-C	111.00	98.99	1
C-CA-CB	110.10	101.95	1
N-CA-CB	110.50	117.79	2
CA-CB-OG1	109.60	116.03	2
CD1-CG-CD2	110.80	120.24	1
CA-CB-CG	113.80	109.51	1
O-C-N	123.00	116.14	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	101.96	1
CA-CB-CG	112.60	108.31	1
CA-CB-CG1	110.40	117.68	2
N-CA-C	111.00	99.00	1
C-CA-CB	110.10	118.24	2
CA-CB-CG	113.80	109.52	1
N-CA-C	111.00	122.99	1
CA-CB-CG	112.60	108.32	5
C-CA-CB	109.10	118.52	1
C-CA-CB	110.10	118.23	9
N-CA-CB	110.50	103.22	1
CD2-NE2-CE1	109.00	104.72	1
CG-CD1-CE1	120.70	127.98	1
CD1-CG-CD2	110.80	120.22	1
CD-NE-CZ	124.40	118.41	1
C-N-CA	121.70	114.00	3
CA-CB-CG	113.90	106.20	1
CD1-CG-CD2	110.80	120.21	2
C-CA-CB	110.50	116.92	1
CA-C-N	116.20	124.75	1
C-CA-CB	110.10	118.22	5
C-CA-CB	109.10	99.69	1
C-CA-CB	110.10	101.98	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-OG1	109.60	116.01	1
N-CA-CB	110.50	117.77	1
CA-CB-CG	112.60	108.33	5
CB-CG-CD2	126.80	120.82	1
O-C-N	123.00	129.84	1
C-N-CA	121.70	129.39	2
N-CA-CB	103.00	107.70	1
N-CA-C	111.00	99.04	1
C-CA-CB	110.10	118.21	2
N-CA-C	112.10	101.42	1
C-CA-CB	109.10	118.50	1
CA-CB-CG	113.80	109.53	1
CA-C-N	116.90	123.30	2
C-CA-CB	110.50	104.10	2
C-N-CA	121.70	129.38	1
N-CA-CB	110.40	116.80	1
CA-CB-CG	113.90	106.22	1
CA-CB-OG1	109.60	116.00	3
O-C-N	123.00	116.17	1
C-CA-CB	110.50	116.90	1
N-CA-CB	110.50	117.75	1
C-N-CA	121.70	114.02	1
C-CA-CB	110.10	118.20	3

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CB-CG-CD2	110.70	123.49	1
N-CA-C	111.00	99.06	2
CB-CG-CD	111.30	121.10	1
CA-CB-OG1	109.60	115.99	3
C-N-CA	121.70	114.03	1
CA-CB-CG	112.60	108.34	4
C-CA-CB	111.40	119.49	1
C-N-CA	121.70	129.37	1
C-N-CA	121.70	114.04	2
C-CA-CB	109.10	118.47	1
C-CA-CB	110.10	102.01	1
C-CA-CB	110.10	118.19	2
N-CA-C	111.00	99.08	1
CG-CD-CE	111.30	121.09	1
C-CA-CB	111.40	103.31	1
N-CA-CB	110.40	116.78	1
CA-C-N	116.20	124.71	1
N-CA-CB	110.50	117.73	2
C-CA-CB	110.10	118.18	2
C-CA-CB	109.10	118.46	1
CA-CB-CG	112.60	108.35	4
CD1-CG-CD2	110.80	120.15	1
CA-CB-CG	112.60	116.85	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-C	111.00	122.90	1
CA-C-N	116.20	124.70	2
N-CA-C	113.30	100.97	1
CA-C-O	120.80	113.58	2
C-N-CA	121.70	114.05	2
N-CA-CB	110.50	117.72	2
N-CA-C	111.00	99.10	1
C-CA-CB	110.10	118.17	1
N-CA-C	113.30	100.98	1
N-CA-C	111.00	122.89	1
N-CA-C	112.10	101.48	1
N-CA-C	111.00	99.11	2
CA-CB-CG	113.80	118.05	1
CA-CB-OG1	109.60	115.97	1
C-CA-CB	110.10	102.03	1
N-CA-C	111.00	122.88	1
CA-CB-CG	112.60	108.36	4
C-CA-CB	111.40	119.46	1
C-N-CA	121.70	129.34	1
N-CA-C	111.00	99.12	1
CA-CB-OG1	109.60	115.96	1
CA-CB-CG	113.80	109.56	1
CA-C-N	116.20	124.68	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	117.71	2
C-CA-CB	110.10	118.16	1
CG-CD-NE	112.00	102.67	1
C-CA-CB	110.10	102.05	2
C-CA-CB	111.40	103.35	1
N-CA-CB	110.50	117.70	2
N-CA-C	111.00	99.14	3
CD1-CG-CD2	110.80	120.12	1
C-N-CA	121.70	129.32	1
CD2-NE2-CE1	109.00	104.76	1
N-CA-CB	110.50	103.30	1
CG1-CB-CG2	110.70	123.40	1
C-N-CA	121.70	114.08	4
O-C-N	123.00	116.23	1
CA-CB-CG	112.60	108.37	5
CA-CB-CG	116.30	101.48	1
CB-CG-CD1	110.70	123.40	1
CA-CB-OG1	109.60	115.95	2
C-CA-CB	110.50	116.85	1
CD1-CG-CD2	110.80	120.11	1
N-CA-C	111.00	99.15	1
C-CA-CB	109.10	118.41	1
C-N-CA	121.70	129.31	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	117.69	1
C-CA-CB	110.50	104.16	1
C-CA-CB	110.10	118.13	5
C-N-CA	121.70	114.09	1
CA-CB-OG1	109.60	115.94	1
N-CA-C	111.00	122.83	2
N-CA-CB	110.50	117.68	2
N-CA-C	111.00	99.17	1
C-N-CA	121.70	114.10	1
C-CA-CB	110.10	102.08	1
N-CA-C	111.00	99.18	1
CA-C-O	120.80	113.62	1
CA-CB-CG	113.90	106.30	1
CA-CB-CG	112.60	108.38	6
CA-C-N	116.20	124.64	2
CD2-NE2-CE1	109.00	104.78	2
CA-CB-OG1	109.60	115.93	1
CB-CG-CD2	126.80	120.89	1
O-C-N	123.00	116.25	2
CA-CB-CG	114.10	122.54	1
C-CA-CB	110.10	118.12	1
N-CA-CB	110.50	117.67	2
C-CA-CB	110.10	102.09	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CB-CG-CD2	126.80	120.90	1
CA-CB-OG1	109.60	115.92	1
C-CA-CB	111.60	103.17	1
C-CA-CB	110.10	118.11	4
C-CA-CB	109.10	118.37	1
CA-CB-CG1	110.40	103.23	1
N-CA-CB	110.50	117.66	2
CD1-CG-CD2	110.80	120.07	2
CA-CB-CG	112.60	108.39	5
C-CA-CB	110.10	102.10	2
CA-CB-CG	114.10	105.67	1
CB-CG-CD	111.30	120.99	1
CA-C-O	120.80	113.64	1
N-CA-C	111.00	99.21	2
N-CA-CB	111.50	118.66	1
C-N-CA	121.70	114.12	1
CA-CB-CG1	110.40	117.56	1
CA-C-N	116.20	124.62	1
CA-C-N	116.20	107.78	1
C-CA-CB	109.10	118.36	1
C-CA-CB	110.10	118.10	2
CG1-CB-CG2	110.70	123.33	1
C-CA-CB	110.10	118.09	5

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-OG1	109.60	115.91	3
CA-C-N	116.90	123.21	1
C-N-CA	121.70	114.13	4
N-CA-CB	110.50	117.65	1
N-CA-C	111.00	99.22	1
C-CA-CB	110.50	116.81	2
C-N-CA	121.70	129.27	1
CA-CB-CG	112.60	108.40	2
CD1-CG-CD2	110.80	120.05	1
CA-CB-CG1	110.40	117.55	1
C-CA-CB	109.10	118.35	1
C-CA-CB	110.10	118.08	2
C-CA-CB	111.40	103.42	1
N-CA-C	111.00	99.23	2
N-CA-C	111.00	99.24	1
C-CA-CB	109.10	118.34	1
O-C-N	123.00	116.28	1
C-N-CA	121.70	129.26	2
N-CA-C	111.00	122.75	1
N-CA-C	111.00	99.25	2
C-CA-CB	111.60	119.99	1
C-CA-CB	110.10	118.07	1
CD-NE-CZ	124.40	118.53	3

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-OG1	109.60	115.89	2
CA-CB-CG2	110.50	117.63	1
CA-C-O	120.80	113.67	1
C-N-CA	121.70	114.15	2
CA-CB-CG	112.60	108.41	6
C-CA-CB	110.10	102.13	1
CA-CB-CG	113.80	109.61	1
CA-CB-CG1	110.40	103.27	1
N-CA-C	111.00	99.27	1
C-N-CA	121.70	129.24	1
C-CA-CB	110.10	118.06	4
C-CA-CB	110.10	102.14	1
CA-CB-CG2	110.50	117.62	1
CA-CB-CG	113.90	106.36	1
CA-C-O	120.80	113.68	1
CA-C-N	116.20	107.82	1
CA-CB-CG	114.10	122.48	1
CA-CB-OG1	109.60	115.88	1
C-N-CA	121.70	114.16	1
C-CA-CB	110.10	102.15	1
N-CA-C	111.00	99.28	2
CA-CB-CG	112.60	108.42	7
N-CA-CB	110.50	103.39	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	118.05	1
C-CA-CB	111.60	119.97	1
CD1-CG-CD2	110.80	120.00	1
C-CA-CB	111.60	119.96	1
CA-CB-CG	113.80	109.62	4
O-C-N	123.00	116.31	1
C-N-CA	121.70	129.23	1
C-N-CA	121.70	114.17	1
CA-CB-CG	114.10	122.46	1
N-CA-C	111.00	99.29	2
C-N-CA	121.70	114.18	1
CA-CB-OG1	109.60	115.87	1
C-N-CA	121.70	129.22	4
C-CA-CB	110.10	102.16	1
CD-NE-CZ	124.40	118.55	1
N-CA-CB	110.50	117.60	1
C-CA-CB	111.60	103.24	1
N-CA-C	111.00	99.30	1
C-CA-CB	109.10	118.29	2
CA-C-O	120.80	113.70	1
C-CA-CB	110.10	118.03	3
CA-CB-OG1	109.60	115.86	3
N-CA-C	111.00	99.31	3

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	102.17	1
CD1-CG-CD2	110.80	119.98	1
CA-CB-CG	112.60	108.43	4
CA-C-N	116.20	124.54	1
C-CA-CB	110.50	104.24	1
N-CA-C	111.00	99.32	1
CA-C-O	120.80	113.71	1
CD2-NE2-CE1	109.00	104.83	2
C-CA-CB	111.40	119.32	1
N-CA-C	112.10	122.52	1
N-CA-C	111.00	99.33	2
C-CA-CB	111.60	119.94	1
CG-CD2-CE3	133.90	129.73	1
CD1-CG-CD2	110.80	119.97	1
O-C-N	123.00	116.33	1
C-CA-CB	110.50	104.25	1
C-CA-CB	110.10	118.02	1
C-CA-CB	110.10	102.18	1
N-CA-CB	111.50	118.58	1
N-CA-C	111.00	99.34	2
C-N-CA	121.70	129.20	2
C-CA-CB	110.10	118.01	3
CA-CB-CG	112.60	108.44	4

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.40	116.64	1
CD-NE-CZ	124.40	118.57	1
CD2-NE2-CE1	109.00	104.84	1
CA-CB-CG1	110.40	117.48	1
N-CA-C	111.00	99.35	1
CA-CB-CG	113.90	106.41	1
C-CA-CB	109.10	118.25	1
CG-SD-CE	100.90	91.75	1
C-CA-CB	110.10	118.00	3
C-N-CA	121.70	129.19	1
N-CA-C	111.00	99.36	1
N-CA-CB	110.50	117.57	1
CA-CB-OG1	109.60	115.84	1
CA-CB-OG1	109.60	115.83	1
CA-CB-CG	112.60	108.45	5
C-CA-CB	110.10	117.99	2
C-N-CA	121.70	114.22	1
C-CA-CB	111.60	119.91	1
CB-CG-CD1	126.90	133.13	1
N-CA-C	111.00	122.63	1
N-CA-C	111.00	99.37	2
OE1-CD-NE2	122.60	118.45	1
N-CA-C	111.00	122.62	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-CG1	110.40	117.46	1
CD1-CG-CD2	110.80	119.93	1
CA-CB-OG1	109.60	115.82	3
CA-C-O	120.80	113.75	2
C-N-CA	121.70	114.23	1
C-N-CA	121.70	129.17	2
C-CA-CB	110.10	117.98	2
CD1-CG-CD2	110.80	119.92	1
N-CA-C	111.00	99.39	1
C-N-CA	121.70	129.16	3
CA-C-N	116.90	123.12	1
C-CA-CB	109.10	118.22	1
CA-C-N	116.20	124.49	1
C-N-CA	121.70	114.24	1
N-CA-C	111.00	122.60	2
O-C-N	123.00	116.37	1
CA-C-N	116.20	124.48	1
N-CA-C	112.10	101.75	2
N-CA-C	111.00	99.41	2
C-CA-CB	110.10	102.23	1
C-N-CA	121.70	129.15	1
C-CA-CB	110.10	117.96	3
CD-NE-CZ	124.40	118.61	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
O-C-N	123.00	116.38	1
CA-CB-CG1	110.40	117.44	1
CA-C-O	120.80	113.77	1
N-CA-C	112.10	122.44	1
CA-CB-OG1	109.60	115.81	1
N-CA-C	111.00	99.42	1
CA-CB-CG1	110.40	117.43	1
CA-CB-CG	112.60	108.46	3
C-CA-CB	111.60	103.33	1
CA-CB-OG1	109.60	115.80	2
CD1-CG-CD2	110.80	119.90	1
N-CA-C	111.00	122.58	1
C-CA-CB	110.10	102.25	2
C-N-CA	121.70	129.14	2
CA-CB-CG	112.60	108.47	3
CD1-CG-CD2	110.80	119.89	1
C-CA-CB	110.10	117.95	1
CA-CB-CG	113.80	109.67	2
C-CA-CB	111.60	119.86	1
CD1-CG-CD2	110.80	119.88	1
C-CA-CB	110.50	104.31	1
CA-CB-CG	114.10	122.36	1
C-CA-CB	110.50	116.69	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-C	113.30	101.33	1
N-CA-CB	110.50	117.51	6
CA-CB-OG1	109.60	115.79	1
N-CA-C	111.00	122.55	1
N-CA-CB	110.40	116.59	1
N-CA-C	111.00	99.45	2
N-CA-CB	103.00	107.54	1
CA-CB-CG	112.60	108.48	4
C-CA-CB	110.10	117.93	1
O-C-N	123.00	116.40	1
CD1-CG-CD2	118.60	124.78	1
N-CA-C	111.00	99.46	3
C-CA-CB	111.40	119.23	2
C-N-CA	121.70	114.28	1
C-CA-CB	110.50	104.32	1
N-CA-C	111.00	122.54	1
C-CA-CB	109.10	118.17	1
CA-CB-CG	113.90	106.48	2
CA-CB-OG1	109.60	115.78	2
C-N-CA	121.70	129.12	2
CA-CB-CG	113.80	117.92	1
CA-CB-CG	113.80	109.68	1
CD-NE-CZ	124.40	118.63	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-N-CA	121.70	129.11	1
N-CA-CB	111.50	118.50	1
C-CA-CB	111.40	119.22	1
N-CA-C	112.10	122.39	1
O-C-N	123.00	116.41	3
C-CA-CB	110.10	117.92	2
CG1-CB-CG2	110.70	123.05	2
CA-C-O	120.80	113.80	1
C-CA-CB	109.10	118.15	1
C-N-CA	121.70	114.29	1
C-N-CA	121.70	129.10	1
C-CA-CB	110.10	102.29	2
N-CA-CB	111.50	118.49	1
CA-CB-CG	113.90	106.50	2
CA-CB-OG1	109.60	115.77	1
O-C-N	123.00	116.42	1
C-CA-CB	110.10	117.91	3
N-CA-CB	110.50	117.49	1
CA-CB-CG	112.60	108.49	3
N-CA-CB	110.50	117.48	2
CA-CB-OG1	109.60	115.76	2
N-CA-C	111.00	99.50	3
C-N-CA	121.70	129.09	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	110.10	117.90	3
CA-C-O	120.80	112.18	1
N-CA-C	113.30	101.39	1
CG1-CB-CG2	110.80	101.77	1
N-CA-C	111.00	122.49	1
N-CA-C	111.00	99.51	1
N-CA-CB	110.40	116.56	1
O-C-N	123.00	116.44	2
N-CA-CB	110.50	117.47	3
C-N-CA	121.70	129.08	1
CA-CB-CG1	110.40	117.37	1
C-CA-CB	110.10	117.89	3
CA-C-N	116.20	124.40	1
N-CA-CB	111.50	118.47	1
N-CA-C	111.00	99.52	2
CA-CB-CG	113.80	109.70	2
CA-CB-CG	112.60	108.50	2
CA-CB-OG1	109.60	115.75	2
CA-CB-CG	113.90	106.52	1
CG-SD-CE	100.90	91.88	1
N-CA-C	113.30	101.42	1
CG1-CB-CG2	110.70	122.99	1
C-CA-CB	109.10	118.11	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CB-CG1-CD1	113.80	122.40	1
CB-CG-CD1	126.90	133.05	1
C-CA-CB	110.10	117.88	3
C-CA-CB	111.40	103.62	2
N-CA-C	111.00	99.53	1
CA-C-O	120.80	113.84	2
CA-C-O	120.80	127.76	1
CA-C-N	116.20	124.39	1
C-CA-CB	110.10	102.32	1
N-CA-CB	110.50	117.46	1
CG1-CB-CG2	110.70	122.98	1
CA-CB-OG1	109.60	115.74	3
N-CA-C	111.00	99.54	1
N-CA-CB	111.50	118.46	1
C-CA-CB	110.10	117.87	2
CA-CB-OG1	109.60	115.73	2
O-C-N	123.00	116.46	1
CA-CB-CG	113.80	109.71	1
C-CA-CB	111.60	119.78	1
N-CA-C	111.00	99.55	2
CA-C-O	120.80	127.75	1
CA-C-N	116.20	108.03	1
N-CA-C	111.00	99.56	3

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-C	113.30	101.45	1
C-N-CA	121.70	114.35	1
CA-CB-CG1	110.40	117.34	1
CA-CB-CG2	110.50	117.44	1
C-CA-CB	110.10	117.86	1
CA-CB-CG	113.80	109.72	1
C-N-CA	121.70	129.05	2
CA-CB-OG1	109.60	115.72	4
CA-CB-CG	113.90	106.55	1
N-CA-CB	110.50	117.44	1
CD-NE-CZ	124.40	118.68	1
O-C-N	123.00	116.47	1
ND1-CE1-NE2	108.40	112.48	2
CG1-CB-CG2	110.70	122.94	1
N-CA-C	111.00	99.57	1
N-CA-C	111.00	99.58	3
N-CA-CB	110.50	117.43	2
CB-CG-CD	112.60	105.67	1
C-CA-CB	110.10	117.85	1
CD-NE-CZ	124.40	118.69	2
C-N-CA	121.70	129.04	1
N-CA-C	112.10	101.91	1
N-CA-C	111.00	122.41	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-OG1	109.60	115.71	1
C-CA-CB	110.10	117.84	4
CA-CB-CG	112.60	108.53	5
CA-CB-CG	113.80	109.73	3
N-CA-C	111.00	99.59	1
CD2-NE2-CE1	109.00	104.93	2
C-CA-CB	110.10	102.36	2
N-CA-C	111.00	99.60	4
N-CA-CB	110.50	103.58	1
OG1-CB-CG2	109.30	117.44	1
CA-C-N	116.20	124.34	1
C-CA-CB	110.10	117.83	3
C-CA-CB	110.10	102.37	1
CA-CB-CG1	110.40	117.32	1
CB-CG-CD2	126.80	121.10	1
N-CA-C	111.00	122.40	1
CA-CB-CG2	110.40	117.32	1
N-CA-C	113.30	101.50	1
C-N-CA	121.70	114.37	1
N-CA-CB	110.50	117.42	1
N-CA-C	112.10	122.27	1
N-CA-C	111.00	122.39	2
CB-CG-CD	112.60	105.68	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-C	111.00	99.61	3
CA-C-N	116.20	108.07	1
CA-CB-OG1	109.60	115.70	1
C-CA-CB	109.10	118.05	1
N-CA-C	111.00	99.62	1
CD-NE-CZ	124.40	118.71	1
N-CA-CB	110.50	117.41	1
N-CA-CB	111.50	118.41	1
N-CA-C	112.10	122.26	1
CB-CG-CD2	120.80	114.70	1
CA-CB-CG	113.80	109.74	2
C-CA-CB	110.10	117.82	1
C-CA-CB	109.10	100.16	1
CA-CB-CG	112.60	108.54	2
C-CA-CB	111.60	119.72	1
C-CA-CB	111.40	119.12	1
N-CA-C	111.00	99.63	1
C-N-CA	121.70	129.01	1
C-CA-CB	109.10	100.17	1
C-CA-CB	110.10	117.81	2
CA-CB-CG	113.90	106.60	1
N-CA-C	111.00	99.64	5
N-CA-CB	111.50	118.40	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-C-N	116.20	124.31	1
C-N-CA	121.70	114.40	3
C-CA-CB	111.40	119.11	1
CD1-CG-CD2	110.80	119.72	1
N-CA-C	111.00	99.65	3
CA-CB-CG	112.60	108.55	3
O-C-N	123.00	116.51	1
C-CA-CB	110.10	117.80	4
N-CA-C	111.00	122.35	1
N-CA-C	112.10	122.23	1
C-CA-CB	110.10	102.40	2
CA-C-N	116.90	122.98	1
CD-NE-CZ	124.40	118.73	1
N-CA-C	111.00	99.66	3
CA-C-O	120.80	113.91	1
CA-CB-CG	113.80	109.75	1
CA-CB-CG	113.80	117.85	1
C-CA-CB	109.10	100.19	1
C-CA-CB	110.10	117.79	3
C-CA-CB	111.40	119.09	1
C-N-CA	121.70	114.41	1
ND1-CE1-NE2	108.40	112.45	1
CA-CB-OG1	109.60	115.67	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-C	113.30	101.56	1
N-CA-C	111.00	99.67	1
C-N-CA	121.70	114.42	1
OD1-CG-ND2	122.60	118.56	1
C-CA-CB	109.10	118.00	2
CA-CB-CG1	110.40	117.27	1
C-CA-CB	110.10	117.78	4
CA-C-O	120.80	113.93	2
N-CA-C	111.00	99.68	2
C-N-CA	121.70	128.98	1
O-C-N	123.00	116.53	1
N-CA-C	113.30	101.58	1
CA-CB-CG2	110.50	103.63	1
CD1-CG-CD2	110.80	119.69	1
C-CA-CB	110.10	117.77	3
C-CA-CB	111.40	119.07	1
CD-NE-CZ	124.40	118.75	1
N-CA-C	111.00	99.69	1
C-CA-CB	111.60	119.67	1
CA-CB-CG	116.30	130.43	1
C-N-CA	121.70	128.97	2
CA-CB-CG	116.30	102.17	1
C-CA-CB	110.10	102.43	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-C-N	116.90	110.85	1
CA-C-O	120.80	113.94	1
C-N-CA	121.70	114.43	1
C-N-CA	121.70	114.44	2
N-CA-CB	110.50	117.36	1
CA-C-N	116.20	124.27	1
CA-CB-CG	112.60	108.57	6
C-CA-CB	110.10	117.76	2
N-CA-C	111.00	99.71	1
CA-CB-CG	113.90	106.64	1
C-N-CA	121.70	128.96	2
CA-C-O	120.80	113.95	1
CG1-CB-CG2	110.80	119.67	1
N-CA-CB	110.50	117.35	2
C-CA-CB	109.10	117.97	1
ND1-CE1-NE2	108.40	112.43	1
CD1-CG-CD2	110.80	119.66	1
N-CA-CB	111.50	104.65	1
CA-CB-CG	113.80	109.77	3
C-CA-CB	110.10	117.75	3
C-N-CA	121.70	128.95	1
N-CA-C	111.00	122.28	1
C-CA-CB	110.50	104.46	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-OG1	109.60	115.64	1
CD-NE-CZ	124.40	118.76	1
N-CA-CB	111.50	118.35	1
N-CA-C	111.00	99.73	1
CA-C-O	120.80	113.96	1
CA-CB-CG2	110.50	117.34	1
N-CA-CB	111.50	104.66	1
C-CA-CB	110.10	117.74	3
N-CA-CB	110.50	117.34	1
N-CA-CB	110.40	116.44	1
N-CA-CB	110.50	103.66	1
N-CA-C	113.30	101.63	1
N-CA-C	111.00	122.26	1
C-CA-CB	109.10	100.25	1
CD1-CG-CD2	110.80	119.65	1
N-CA-C	111.00	99.74	3
C-N-CA	121.70	114.46	1
CA-CB-CG	112.60	108.58	1
CA-CB-CG	113.80	109.78	2
N-CA-C	111.00	99.75	4
N-CA-CB	110.50	117.33	2
C-N-CA	121.70	114.47	2
CB-CG-CD1	110.70	122.75	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-OG1	109.60	115.63	1
CA-CB-CG	114.10	106.07	1
C-CA-CB	110.10	102.47	1
CA-C-N	116.20	124.23	3
CA-C-O	120.80	113.97	1
N-CA-C	112.10	102.06	1
CD-NE-CZ	124.40	118.78	1
N-CA-C	113.30	101.65	1
N-CA-C	111.00	99.76	2
O-C-N	123.00	116.58	2
C-N-CA	121.70	128.93	1
CD2-NE2-CE1	109.00	104.99	1
CA-C-O	120.80	113.98	1
N-CA-CB	110.50	117.32	2
CA-CB-CG	112.60	108.59	2
N-CA-CB	110.50	103.68	1
N-CA-C	111.00	122.23	1
N-CA-C	111.00	99.77	1
CA-CB-CG2	110.50	103.68	1
C-N-CA	121.70	114.48	2
C-CA-CB	110.10	102.48	1
C-CA-CB	109.10	117.92	1
C-CA-CB	110.50	104.49	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C-CA-CB	111.40	119.02	1
CB-CG-CD2	110.70	122.73	1
C-CA-CB	110.10	117.72	1
CA-CB-CG	113.60	105.99	1
C-N-CA	121.70	114.49	2
C-N-CA	121.70	128.91	1
C-CA-CB	111.60	103.59	1
C-CA-CB	110.10	117.71	2
N-CA-CB	111.50	118.31	2
N-CA-C	111.00	99.78	1
CB-CG-CD	111.30	120.52	1
CA-C-O	120.80	113.99	1
CB-CG-CD1	126.90	132.91	1
N-CA-CB	110.50	117.31	1
N-CA-CB	110.50	103.69	1
CA-CB-CG	112.60	108.60	1
CA-C-N	116.20	124.20	1
C-N-CA	121.70	114.50	1
N-CA-CB	110.50	117.30	1
C-CA-CB	110.10	117.70	2
C-N-CA	121.70	128.90	1

Too-close contacts?

The following all-atom clashscore is based on a MolProbity analysis. All-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The table below contains clashscores for all the models in this entry.

Model ID	Clash score	Number of clashes
1	158.69	3513
2	182.34	4036
3	158.34	3505
4	154.41	3418
5	204.24	4521
6	144.74	3204
7	227.11	5027

All 27224 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:292:ASN:C	C:292:ASN:CA	1.580
1	C:283:ARG:CA	C:283:ARG:N	1.552
1	C:50:GLU:C	C:50:GLU:CA	1.538
1	C:187:GLN:C	C:187:GLN:CA	1.532
1	C:283:ARG:C	C:283:ARG:CA	1.528
1	C:282:LEU:C	C:282:LEU:CA	1.527
1	C:49:GLY:CA	C:49:GLY:N	1.517
1	C:48:ALA:C	C:48:ALA:CA	1.502
1	C:52:GLY:CA	C:52:GLY:N	1.495
1	C:187:GLN:CA	C:187:GLN:N	1.424
1	C:51:SER:C	C:51:SER:CA	1.394
1	C:186:LYS:C	C:186:LYS:CA	1.394
1	C:187:GLN:HA	C:187:GLN:N	1.345
1	C:181:LYS:HD2	C:187:GLN:HA	1.167

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:95:ILE:HD11	C:99:LEU:HD11	1.103
1	A:308:VAL:HG23	C:388:LEU:HD13	1.095
1	C:103:ILE:HG23	C:196:ASP:HA	1.088
1	C:249:ALA:HB2	C:292:ASN:HA	1.084
1	D:39:PRO:HA	D:304:ARG:HB3	1.071
1	C:185:ILE:HA	C:202:VAL:HG22	1.042
1	D:102:THR:HG21	D:148:CYS:HA	1.034
1	C:74:GLU:HB3	C:298:ALA:HB1	1.023
1	D:152:LEU:HD13	D:196:THR:HG23	1.014
1	F:70:THR:HB	F:83:GLN:HB3	1.013
1	C:182:ILE:HG12	C:202:VAL:HG13	1.011
1	A:413:LEU:HD11	D:269:ILE:HG21	1.010
1	C:260:ASP:HA	C:264:ASN:HA	1.007
1	C:47:GLY:HA2	C:224:VAL:HA	1.002
1	A:218:TYR:HB3	A:290:ILE:HG21	0.989
1	C:176:GLN:HA	C:179:LEU:HD21	0.985
1	D:200:VAL:HG23	D:234:PHE:CZ	0.985
1	C:175:ALA:HA	C:198:LEU:HG	0.983
1	F:95:TYR:CE1	F:123:THR:HB	0.981
1	C:57:VAL:HB	C:59:GLN:HB3	0.980
1	C:179:LEU:HD22	C:197:LEU:HB2	0.978
1	C:106:ILE:HB	C:196:ASP:HA	0.972
1	D:193:ALA:HB1	D:194:PRO:HD2	0.971

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	F:92:THR:HG21	F:127:VAL:HG23	0.971
1	C:37:TYR:HD2	D:55:LEU:HD13	0.967
1	A:364:GLU:HG3	A:365:LEU:HD12	0.966
1	C:95:ILE:HG13	C:186:LYS:HE3	0.964
1	C:124:ASN:HB2	C:153:LEU:HD11	0.964
1	C:106:ILE:HG12	C:195:GLN:HG3	0.959
1	C:44:LEU:HB3	C:244:ILE:HG22	0.957
1	D:80:ILE:HG12	D:92:ALA:HA	0.957
1	C:47:GLY:HA2	C:224:VAL:CA	0.955
1	F:5:LEU:HD11	F:23:CYS:HB3	0.953
1	F:5:LEU:HD22	F:97:CYS:HB3	0.951
1	C:53:LYS:N	C:95:ILE:HB	0.949
1	F:14:GLN:HB3	F:15:PRO:HD2	0.946
1	C:186:LYS:HD2	C:201:ARG:NE	0.945
1	D:250:CYS:HB2	D:273:ILE:HD11	0.945
1	C:248:VAL:HG12	C:250:SER:HB2	0.942
1	C:176:GLN:HA	C:179:LEU:CG	0.941
1	D:139:LEU:HG	D:169:TRP:CD2	0.941
1	C:53:LYS:HG2	C:91:LYS:HG2	0.940
1	A:182:TYR:HB3	B:14:LEU:HD13	0.939
1	C:176:GLN:HA	C:179:LEU:CD2	0.939
1	C:53:LYS:HG3	C:55:THR:HG22	0.937
1	C:96:LYS:HD2	C:142:PHE:HB3	0.932

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	F:46:LEU:HD13	F:113:SER:HA	0.931
1	C:53:LYS:CG	C:55:THR:HG22	0.925
1	D:51:LEU:HD13	D:82:TRP:CE3	0.924
1	C:177:TYR:HA	C:188:ALA:HA	0.923
1	C:294:GLN:HG3	C:304:GLY:HA3	0.921
1	C:301:VAL:HG13	C:302:LEU:HD22	0.917
1	A:143:LEU:HD13	A:158:LEU:HB3	0.916
1	C:99:LEU:HD12	C:186:LYS:CD	0.916
1	A:53:GLU:HB3	A:54:PRO:HD2	0.910
1	C:179:LEU:HD12	C:189:ASP:HB3	0.907
1	F:41:ALA:HA	F:93:ALA:CB	0.906
1	C:294:GLN:HA	C:305:LYS:CB	0.905
1	C:102:ALA:CA	C:198:LEU:HD12	0.904
1	C:176:GLN:CB	C:179:LEU:HD11	0.904
1	C:181:LYS:HA	C:210:THR:HB	0.904
1	C:55:THR:HA	C:207:ILE:HD13	0.898
1	C:62:ILE:HD12	D:143:THR:HB	0.898
1	A:419:SER:CB	D:300:LEU:HD23	0.897
1	D:38:ASP:HB2	D:39:PRO:HD2	0.896
1	C:58:LYS:HA	C:207:ILE:HD11	0.893
1	C:294:GLN:HA	C:305:LYS:HB3	0.890
1	A:418:SER:HB2	D:283:ARG:HD3	0.889
1	A:309:VAL:HG22	A:312:LEU:HD12	0.887

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:179:LEU:HD13	C:197:LEU:HB2	0.886
1	C:207:ILE:HG21	C:226:ALA:H	0.886
1	C:176:GLN:HB3	C:193:SER:HB2	0.885
1	C:175:ALA:HA	C:198:LEU:CG	0.884
1	C:186:LYS:C	C:186:LYS:CB	0.884
1	F:46:LEU:HD23	F:96:TYR:HE2	0.883
1	C:51:SER:HA	C:206:GLY:HA3	0.882
1	C:154:TRP:HB3	C:200:CYS:HB3	0.882
1	C:250:SER:HA	C:307:LYS:HA	0.882
1	C:181:LYS:HG3	C:186:LYS:HB3	0.881
1	C:102:ALA:HB3	C:198:LEU:HD12	0.880
1	C:209:GLU:HG2	C:222:PHE:HA	0.880
1	D:61:MET:SD	D:70:LEU:HD21	0.880
1	C:279:ASN:HA	C:281:TRP:HE3	0.879
1	D:297:TRP:HE1	D:302:ALA:HA	0.879
1	C:44:LEU:HG	C:222:PHE:CD2	0.878
1	C:15:GLU:HG2	C:19:GLN:HG2	0.875
1	C:99:LEU:HB2	C:201:ARG:HD2	0.875
1	C:259:GLU:HA	C:265:ARG:HG3	0.875
1	A:146:PHE:CZ	A:149:LEU:HG	0.872
1	D:271:CYS:HB3	D:290:ASP:HB2	0.871
1	C:147:TYR:HB2	C:202:VAL:HB	0.870
1	A:201:LEU:HD22	A:204:ARG:HG3	0.867

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:95:ILE:HG12	C:186:LYS:HG3	0.865
1	C:50:GLU:HG3	D:98:SER:HB2	0.863
1	C:57:VAL:HB	C:59:GLN:CB	0.862
1	C:154:TRP:CD1	C:200:CYS:HG	0.862
1	D:70:LEU:HD22	D:71:VAL:H	0.862
1	D:93:ILE:HD13	D:94:PRO:N	0.862
1	C:54:ASN:HB2	C:207:ILE:HG12	0.861
1	C:51:SER:HA	C:206:GLY:CA	0.860
1	C:294:GLN:HB2	C:305:LYS:HG3	0.859
1	A:414:LYS:HD3	D:307:VAL:HG23	0.858
1	C:37:TYR:CD2	D:55:LEU:HD13	0.857
1	C:259:GLU:HG2	C:265:ARG:HD3	0.857
1	D:117:LEU:HD21	D:145:TYR:CD2	0.856
1	F:73:ARG:HB2	F:80:LEU:HD13	0.856
1	C:62:ILE:HG12	C:63:LEU:HD13	0.855
1	C:293:LYS:HA	C:293:LYS:HE3	0.855
1	C:214:VAL:HG12	C:215:ASP:H	0.853
1	C:182:ILE:HA	C:202:VAL:H	0.852
1	D:73:ALA:HB3	D:103:CYS:SG	0.851
1	C:178:PHE:HA	C:181:LYS:CG	0.848
1	D:73:ALA:HB2	D:79:LEU:HB2	0.848
1	C:49:GLY:N	D:117:LEU:HB2	0.848
1	E:15:LEU:HD12	E:16:VAL:N	0.848

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:4:LEU:HD12	C:5:GLY:H	0.847
1	C:92:VAL:HG21	D:118:ASP:O	0.847
1	C:99:LEU:HD13	C:178:PHE:HB3	0.847
1	A:298:PHE:HB2	A:342:VAL:HG11	0.845
1	A:343:ILE:HG13	A:347:VAL:HG12	0.844
1	D:158:VAL:HG22	D:168:LEU:HD22	0.843
1	C:92:VAL:HG22	C:206:GLY:O	0.842
1	C:44:LEU:HG	C:222:PHE:HD2	0.839
1	C:102:ALA:CB	C:198:LEU:HD12	0.839
1	C:103:ILE:HG23	C:196:ASP:CA	0.839
1	C:99:LEU:HD22	C:178:PHE:CD2	0.838
1	C:119:LEU:HD21	C:156:ASP:CB	0.838
1	D:204:CYS:HA	D:228:ASP:OD2	0.837
1	C:186:LYS:HZ2	C:201:ARG:HD3	0.835
1	C:45:LEU:HD22	C:293:LYS:CG	0.834
1	C:48:ALA:HB2	C:234:TRP:CG	0.834
1	C:48:ALA:HB2	C:234:TRP:CB	0.833
1	C:54:ASN:CB	C:59:GLN:HG3	0.833
1	C:178:PHE:HB2	C:198:LEU:HD22	0.833
1	D:337:LYS:HE3	D:339:TRP:HB2	0.833
1	C:119:LEU:HD21	C:156:ASP:HB2	0.831
1	C:71:GLU:HG3	C:85:ASP:HA	0.830
1	C:182:ILE:HA	C:201:ARG:NH2	0.830

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:273:ILE:HG22	D:288:GLY:O	0.829
1	C:99:LEU:N	C:198:LEU:HD11	0.828
1	C:88:LYS:CB	D:143:THR:HA	0.827
1	A:223:VAL:HG12	A:246:TYR:CZ	0.826
1	A:315:ASN:HB3	A:319:LYS:H	0.826
1	C:59:GLN:HG2	C:84:SER:HB2	0.825
1	C:181:LYS:HA	C:187:GLN:N	0.825
1	D:40:VAL:N	D:306:GLY:HA3	0.825
1	C:95:ILE:HG23	C:96:LYS:H	0.822
1	C:102:ALA:HB3	C:198:LEU:HB3	0.822
1	D:63:TRP:HE1	D:67:SER:HA	0.821
1	D:308:LEU:HD13	D:339:TRP:CG	0.821
1	A:50:PRO:HG2	A:58:VAL:HG11	0.820
1	C:45:LEU:O	C:46:LEU:HD23	0.819
1	C:185:ILE:HB	C:205:SER:CB	0.818
1	D:29:THR:HG23	D:30:LEU:H	0.818
1	D:71:VAL:HG21	D:105:TYR:HB2	0.818
1	C:52:GLY:HA2	C:186:LYS:CG	0.817
1	C:294:GLN:HB3	C:300:LYS:HB3	0.817
1	D:40:VAL:H	D:306:GLY:HA3	0.817
1	A:419:SER:HB2	D:300:LEU:HD23	0.816
1	C:74:GLU:HG3	C:301:VAL:HG11	0.816
1	C:171:LEU:HB2	C:195:GLN:HB3	0.816

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:58:ILE:HA	D:74:SER:HB3	0.816
1	C:48:ALA:HA	C:234:TRP:CD2	0.815
1	C:76:ASP:HB3	C:77:PRO:HD3	0.815
1	C:99:LEU:HB2	C:201:ARG:CD	0.814
1	C:207:ILE:HD12	C:208:PHE:N	0.813
1	C:154:TRP:H	C:200:CYS:HB3	0.812
1	A:218:TYR:CB	A:290:ILE:HG21	0.810
1	A:416:PRO:HB2	D:42:ARG:HG3	0.810
1	C:296:LEU:HD22	C:298:ALA:H	0.810
1	F:115:THR:HA	F:119:ARG:HH21	0.809
1	C:186:LYS:HB3	C:201:ARG:NH2	0.808
1	D:102:THR:CG2	D:148:CYS:HA	0.807
1	D:113:ALA:HB2	D:123:ILE:HG22	0.807
1	C:52:GLY:N	C:205:SER:HB3	0.806
1	C:54:ASN:HB3	C:59:GLN:HG3	0.805
1	C:95:ILE:CD1	C:99:LEU:HD21	0.805
1	C:341:ILE:HG23	C:345:PHE:CZ	0.805
1	D:301:LYS:HA	D:301:LYS:HE3	0.805
1	C:142:PHE:CZ	D:96:ARG:HB2	0.803
1	C:182:ILE:HB	C:201:ARG:CA	0.803
1	C:54:ASN:N	C:207:ILE:HB	0.803
1	A:301:PHE:HB2	A:337:LEU:HD21	0.802
1	C:244:ILE:HG21	C:286:SER:H	0.802

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	F:94:VAL:HG22	F:124:GLN:HG2	0.802
1	C:92:VAL:HG13	C:205:SER:C	0.801
1	C:296:LEU:HB3	C:299:GLU:H	0.801
1	C:45:LEU:HB2	C:221:MET:HE3	0.800
1	D:318:LEU:HD21	D:327:VAL:HG12	0.800
1	C:224:VAL:HG13	C:227:GLN:HB3	0.799
1	D:51:LEU:HB3	D:336:LEU:HB3	0.799
1	C:308:ILE:HD11	C:341:ILE:HD13	0.798
1	A:117:GLN:HE21	A:358:PHE:HB3	0.797
1	C:150:ALA:HB1	C:199:ARG:HG3	0.797
1	C:211:LYS:HE2	C:218:ASN:HB3	0.797
1	C:360:TYR:HB3	C:361:PRO:HA	0.797
1	D:64:GLY:HA3	D:69:LEU:HD21	0.797
1	C:243:ALA:HB1	C:288:ILE:HG13	0.796
1	C:47:GLY:CA	C:224:VAL:HA	0.795
1	C:92:VAL:CG2	C:206:GLY:HA2	0.795
1	C:171:LEU:HA	C:195:GLN:OE1	0.795
1	C:55:THR:CA	C:207:ILE:HD13	0.794
1	C:102:ALA:HA	C:105:THR:HG22	0.793
1	C:127:ARG:HB2	C:153:LEU:HD21	0.792
1	C:99:LEU:H	C:198:LEU:HD11	0.791
1	D:40:VAL:O	D:307:VAL:HG12	0.791
1	D:308:LEU:HD11	D:337:LYS:HE3	0.791

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:71:GLU:CG	C:85:ASP:HA	0.790
1	D:152:LEU:CD1	D:196:THR:HG23	0.790
1	D:292:PHE:CD1	D:311:HIS:HB3	0.790
1	A:146:PHE:CE2	A:149:LEU:HG	0.789
1	C:53:LYS:HZ3	C:91:LYS:HG3	0.789
1	C:99:LEU:HD12	C:186:LYS:CE	0.789
1	C:202:VAL:HG23	C:203:LEU:H	0.789
1	F:46:LEU:HD23	F:96:TYR:CE2	0.789
1	C:48:ALA:CB	D:117:LEU:HD22	0.788
1	C:99:LEU:HB3	C:201:ARG:HH11	0.788
1	C:186:LYS:HD2	C:201:ARG:CZ	0.788
1	D:225:HIS:CD2	D:245:SER:HB2	0.788
1	D:293:ASN:ND2	D:309:ALA:HA	0.788
1	D:325:MET:HE1	E:53:PRO:HA	0.788
1	C:54:ASN:HB2	C:207:ILE:CB	0.787
1	A:261:TRP:CZ3	A:282:TYR:HB3	0.786
1	C:175:ALA:CB	C:195:GLN:HA	0.786
1	C:238:PHE:CD1	C:286:SER:HB2	0.786
1	C:293:LYS:CE	C:293:LYS:HA	0.786
1	A:419:SER:H	D:283:ARG:HD3	0.786
1	A:33:PRO:HG2	A:38:PHE:CE1	0.785
1	C:95:ILE:CD1	C:99:LEU:HD11	0.785
1	C:179:LEU:HD12	C:189:ASP:CB	0.785

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:151:PHE:CZ	D:154:ASP:HA	0.785
1	C:273:PHE:CE1	F:47:GLU:HA	0.784
1	D:40:VAL:HG12	D:41:GLY:N	0.784
1	C:87:GLU:HA	C:91:LYS:HE3	0.783
1	C:105:THR:HG21	C:195:GLN:HB2	0.783
1	C:174:CYS:HB2	C:178:PHE:CE2	0.783
1	C:321:PRO:HG3	C:339:TYR:CD1	0.783
1	C:50:GLU:C	C:50:GLU:N	0.782
1	C:52:GLY:HA2	C:186:LYS:HB2	0.782
1	C:59:GLN:HB2	C:82:SER:CA	0.782
1	C:179:LEU:CD1	C:189:ASP:HB3	0.782
1	C:181:LYS:HA	C:187:GLN:H	0.782
1	C:188:ALA:HB2	C:296:LEU:HG	0.782
1	C:279:ASN:HB3	C:281:TRP:HB2	0.782
1	D:106:ALA:HB2	D:111:TYR:HB3	0.782
1	C:127:ARG:HD3	C:149:HIS:HA	0.781
1	D:146:LEU:HD23	D:148:CYS:H	0.781
1	A:315:ASN:HB3	A:319:LYS:N	0.780
1	C:179:LEU:HD13	C:197:LEU:CB	0.780
1	C:184:VAL:HB	C:209:GLU:CB	0.780
1	C:185:ILE:CG2	C:205:SER:HB2	0.779
1	A:240:GLN:HA	A:242:ILE:O	0.778
1	C:184:VAL:HG23	C:210:THR:C	0.778

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:334:ILE:HG21	A:339:THR:HB	0.777
1	C:88:LYS:HB2	D:143:THR:HA	0.777
1	D:217:MET:HE1	E:21:MET:SD	0.777
1	A:415:CYS:HB3	D:308:LEU:HB2	0.776
1	C:113:LEU:HD13	C:165:ARG:HD3	0.776
1	D:190:LEU:HD21	D:199:PHE:HB2	0.776
1	F:5:LEU:HD12	F:24:ALA:O	0.775
1	C:154:TRP:CE3	C:197:LEU:HD13	0.773
1	C:51:SER:HB3	C:207:ILE:N	0.772
1	D:286:LEU:HD11	D:327:VAL:HG21	0.772
1	C:48:ALA:HB2	C:234:TRP:HB2	0.771
1	C:52:GLY:HA2	C:186:LYS:CB	0.771
1	C:54:ASN:ND2	C:91:LYS:HD2	0.771
1	C:142:PHE:CE1	D:96:ARG:HB2	0.771
1	C:201:ARG:CZ	C:201:ARG:HB2	0.771
1	C:181:LYS:O	C:210:THR:HA	0.771
1	C:280:LYS:HA	C:283:ARG:O	0.771
1	C:294:GLN:OE1	C:300:LYS:HA	0.771
1	D:281:SER:HA	E:44:HIS:HB3	0.771
1	C:45:LEU:HD23	C:58:LYS:HD2	0.770
1	C:106:ILE:HB	C:196:ASP:CA	0.770
1	C:181:LYS:CD	C:187:GLN:HA	0.770
1	C:246:PHE:HE1	C:248:VAL:HG23	0.770

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:259:GLN:HG2	D:260:GLU:H	0.770
1	A:61:SER:HA	A:76:HIS:ND1	0.769
1	C:178:PHE:HA	C:181:LYS:CB	0.769
1	D:117:LEU:HD11	D:145:TYR:CZ	0.769
1	A:343:ILE:HD11	A:348:MET:HE3	0.766
1	C:184:VAL:HB	C:209:GLU:HB3	0.766
1	A:414:LYS:CA	D:307:VAL:HA	0.765
1	C:45:LEU:HD13	C:245:ILE:HG22	0.765
1	C:53:LYS:NZ	C:91:LYS:HA	0.765
1	C:292:ASN:C	C:292:ASN:CB	0.765
1	D:232:ILE:HG13	D:243:THR:HG22	0.765
1	A:182:TYR:CE2	A:183:SER:HB3	0.764
1	C:46:LEU:CA	C:285:THR:HB	0.764
1	C:341:ILE:HA	C:344:GLU:HG2	0.764
1	E:43:ALA:O	E:50:LEU:HD12	0.764
1	A:417:THR:HG22	D:305:ALA:HA	0.762
1	C:98:ASN:C	C:99:LEU:HD23	0.762
1	C:182:ILE:HA	C:202:VAL:N	0.762
1	C:246:PHE:CD2	C:280:LYS:HB2	0.762
1	C:294:GLN:HB3	C:300:LYS:CB	0.762
1	C:89:ALA:HA	D:119:ASN:CB	0.761
1	C:177:TYR:HA	C:188:ALA:CA	0.761
1	C:182:ILE:HG12	C:183:ASP:HB2	0.761

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:186:LYS:HD3	C:203:LEU:CA	0.761
1	C:210:THR:HG23	C:221:MET:CB	0.761
1	C:247:VAL:HG21	C:292:ASN:O	0.761
1	C:292:ASN:ND2	C:300:LYS:HD2	0.761
1	D:115:GLY:HA3	D:146:LEU:HD22	0.761
1	C:283:ARG:HA	C:283:ARG:N	0.761
1	C:59:GLN:HB2	C:82:SER:N	0.760
1	C:154:TRP:CB	C:200:CYS:HB3	0.760
1	C:181:LYS:HD2	C:187:GLN:N	0.760
1	C:238:PHE:CE2	C:241:VAL:HB	0.760
1	C:294:GLN:CG	C:304:GLY:HA3	0.760
1	F:5:LEU:HG	F:6:GLN:N	0.760
1	C:92:VAL:HA	C:205:SER:O	0.759
1	C:177:TYR:CA	C:188:ALA:HA	0.759
1	C:54:ASN:H	C:207:ILE:HD13	0.759
1	C:279:ASN:HA	C:281:TRP:CE3	0.759
1	D:292:PHE:CE1	D:311:HIS:HB3	0.759
1	A:13:VAL:HG23	A:16:TRP:HE1	0.758
1	C:42:ARG:HB3	C:241:VAL:HG22	0.758
1	C:51:SER:C	C:207:ILE:H	0.758
1	C:62:ILE:HA	C:88:LYS:HE3	0.758
1	C:182:ILE:CG1	C:202:VAL:HG13	0.758
1	C:185:ILE:N	C:209:GLU:HB3	0.758

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:89:ALA:HA	D:119:ASN:HB2	0.757
1	C:103:ILE:CA	C:199:ARG:HB3	0.757
1	C:180:ASP:HB2	C:189:ASP:HB2	0.757
1	C:184:VAL:HG21	C:221:MET:N	0.757
1	D:58:ILE:HG23	D:331:SER:O	0.757
1	A:153:ARG:O	A:156:ILE:HG22	0.756
1	C:95:ILE:HD11	C:99:LEU:CD1	0.756
1	C:154:TRP:HB3	C:200:CYS:CB	0.756
1	C:207:ILE:HG21	C:225:GLY:HA3	0.756
1	C:261:ASN:HA	F:44:LYS:HD2	0.756
1	D:318:LEU:HD11	D:327:VAL:HG11	0.756
1	A:140:SER:HB3	A:161:PHE:CE2	0.755
1	A:245:LEU:O	A:245:LEU:HD13	0.755
1	A:415:CYS:CB	D:308:LEU:HB2	0.755
1	C:46:LEU:HA	C:285:THR:HB	0.755
1	D:203:ALA:H	D:229:ILE:HG23	0.755
1	A:420:LEU:CG	D:301:LYS:HB2	0.754
1	C:209:GLU:HG3	C:222:PHE:HD1	0.754
1	D:48:ARG:C	D:338:ILE:HD13	0.754
1	E:17:GLU:HA	E:17:GLU:OE1	0.754
1	F:62:THR:CG2	F:65:VAL:HG22	0.754
1	C:47:GLY:HA2	C:224:VAL:HG22	0.753
1	C:74:GLU:HB2	C:301:VAL:HG12	0.752

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:143:PRO:HG2	C:146:PHE:HD1	0.752
1	C:175:ALA:C	C:198:LEU:HB2	0.752
1	C:187:GLN:CA	C:210:THR:HB	0.752
1	C:55:THR:N	C:207:ILE:HD13	0.752
1	D:151:PHE:HA	D:157:ILE:HD12	0.752
1	D:225:HIS:NE2	D:245:SER:HB2	0.752
1	C:96:LYS:HB2	C:204:THR:HA	0.751
1	C:99:LEU:CD1	C:178:PHE:HB3	0.751
1	C:246:PHE:CG	C:280:LYS:HD2	0.751
1	C:294:GLN:NE2	C:304:GLY:HA3	0.751
1	C:331:ASP:HB2	C:334:VAL:HG23	0.751
1	D:180:PHE:HB2	D:211:TRP:CZ3	0.750
1	A:344:PHE:CE1	A:360:LYS:HD2	0.749
1	C:51:SER:HB3	C:207:ILE:CG2	0.749
1	C:154:TRP:N	C:200:CYS:HB3	0.749
1	C:296:LEU:HD22	C:298:ALA:N	0.749
1	D:167:ALA:HB3	D:176:GLN:NE2	0.749
1	D:297:TRP:NE1	D:302:ALA:HA	0.749
1	A:204:ARG:HH12	A:270:ASP:HA	0.748
1	C:74:GLU:CB	C:298:ALA:HB1	0.748
1	C:285:THR:HG23	C:286:SER:N	0.748
1	D:79:LEU:CD2	D:112:VAL:HG11	0.748
1	F:33:TYR:HE1	F:35:MET:HE2	0.748

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:301:PHE:CD1	A:337:LEU:HD22	0.747
1	C:53:LYS:HG3	C:55:THR:H	0.747
1	C:55:THR:HA	C:207:ILE:CD1	0.747
1	A:410:MET:HB2	D:314:ARG:HD3	0.746
1	C:53:LYS:HA	C:55:THR:HB	0.746
1	C:95:ILE:HG21	C:205:SER:H	0.746
1	C:207:ILE:HG21	C:226:ALA:N	0.746
1	A:419:SER:N	D:283:ARG:HD3	0.746
1	A:411:LYS:HG3	A:412:PRO:HD3	0.745
1	A:249:ILE:HG23	A:253:VAL:HG21	0.744
1	C:188:ALA:CB	C:296:LEU:HG	0.744
1	C:179:LEU:HD22	C:197:LEU:CB	0.743
1	C:246:PHE:CD2	C:280:LYS:HD2	0.743
1	C:280:LYS:HE3	C:284:ASP:HB3	0.742
1	C:392:GLU:C	C:393:LEU:HD12	0.742
1	D:40:VAL:HG12	D:41:GLY:H	0.742
1	A:13:VAL:HA	A:16:TRP:HD1	0.741
1	A:420:LEU:HG	D:301:LYS:HB2	0.741
1	C:96:LYS:HA	C:186:LYS:CE	0.741
1	C:160:ARG:HA	C:197:LEU:HD21	0.741
1	D:145:TYR:CE1	D:147:SER:HB3	0.741
1	F:87:LEU:O	F:87:LEU:HD22	0.741
1	C:199:ARG:C	C:201:ARG:HB3	0.740

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:221:MET:HG3	C:222:PHE:H	0.740
1	F:35:MET:HG2	F:80:LEU:HG	0.740
1	F:40:GLN:O	F:93:ALA:HB1	0.740
1	A:223:VAL:O	A:226:VAL:HG12	0.739
1	B:23:ILE:O	B:27:VAL:HG23	0.739
1	C:84:SER:HB3	C:91:LYS:HD3	0.739
1	C:150:ALA:HB1	C:199:ARG:O	0.739
1	E:2:ALA:HB1	E:11:GLN:HG2	0.739
1	F:96:TYR:CD1	F:119:ARG:HB2	0.739
1	C:54:ASN:HB2	C:207:ILE:CG1	0.738
1	C:176:GLN:HA	C:179:LEU:CD1	0.738
1	C:210:THR:HG23	C:221:MET:HB3	0.738
1	A:284:LEU:HA	A:287:ARG:HB3	0.737
1	C:177:TYR:CE1	C:187:GLN:HG2	0.737
1	C:234:TRP:CE3	D:117:LEU:HD13	0.737
1	D:235:PHE:CG	D:236:PRO:HD2	0.737
1	D:250:CYS:H	D:264:TYR:HB3	0.737
1	F:62:THR:HG22	F:65:VAL:HG22	0.737
1	A:219:TYR:O	A:223:VAL:HG23	0.736
1	C:176:GLN:CA	C:179:LEU:HD21	0.736
1	C:176:GLN:HB2	C:179:LEU:HD11	0.736
1	A:15:LYS:HD3	A:65:TYR:HA	0.735
1	A:418:SER:HB2	D:283:ARG:HH11	0.735

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:107:PRO:HD2	D:151:PHE:CD2	0.735
1	C:95:ILE:HD12	C:99:LEU:HD21	0.734
1	C:99:LEU:CB	C:201:ARG:HD2	0.734
1	C:102:ALA:HB3	C:198:LEU:CD1	0.734
1	C:56:ILE:HB	C:178:PHE:HZ	0.733
1	C:147:TYR:HB2	C:202:VAL:CB	0.733
1	C:47:GLY:N	C:224:VAL:HG22	0.733
1	C:244:ILE:HD13	C:285:THR:HG23	0.733
1	C:283:ARG:C	C:283:ARG:CB	0.733
1	F:17:GLY:HA3	F:87:LEU:HD11	0.733
1	F:46:LEU:CD1	F:113:SER:HA	0.733
1	A:1:ARG:HB3	A:2:PRO:HD3	0.732
1	A:417:THR:C	D:284:LEU:HD11	0.732
1	D:311:HIS:NE2	D:333:ASP:HB2	0.732
1	A:118:LEU:O	A:118:LEU:HD13	0.731
1	C:332:PRO:HA	C:335:THR:HG22	0.731
1	D:126:LEU:HA	D:133:VAL:HG21	0.731
1	D:251:ARG:HH12	D:253:PHE:HB2	0.731
1	C:99:LEU:HD12	C:186:LYS:HE3	0.730
1	C:182:ILE:HD12	C:200:CYS:SG	0.730
1	C:251:SER:HA	C:308:ILE:HG22	0.730
1	D:318:LEU:HD21	D:327:VAL:CG1	0.730
1	C:42:ARG:HD2	C:241:VAL:CG2	0.728

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:58:LYS:HB2	C:208:PHE:CD2	0.728
1	D:39:PRO:O	D:40:VAL:HG23	0.728
1	A:140:SER:HB3	A:161:PHE:CZ	0.727
1	A:316:LEU:HA	C:358:TYR:OH	0.727
1	C:51:SER:HA	C:206:GLY:N	0.727
1	C:394:LEU:O	C:394:LEU:HD13	0.727
1	D:200:VAL:HG23	D:234:PHE:CE1	0.727
1	F:5:LEU:CD2	F:97:CYS:HB3	0.727
1	F:13:VAL:HG22	F:19:LEU:CD1	0.727
1	A:16:TRP:HB3	A:65:TYR:CE1	0.726
1	C:178:PHE:HB2	C:198:LEU:CD2	0.726
1	C:187:GLN:HB3	C:208:PHE:CZ	0.726
1	C:178:PHE:O	C:198:LEU:HA	0.726
1	C:250:SER:HB3	C:308:ILE:N	0.726
1	A:221:LEU:HD21	A:337:LEU:C	0.725
1	C:175:ALA:HB1	C:195:GLN:HA	0.725
1	C:294:GLN:HG3	C:304:GLY:CA	0.725
1	D:79:LEU:HD22	D:112:VAL:HG11	0.725
1	D:223:THR:CG2	F:2:GLN:HG3	0.725
1	A:226:VAL:O	A:230:THR:HG22	0.724
1	C:105:THR:CG2	C:195:GLN:HB2	0.724
1	A:315:ASN:HD21	C:346:LEU:HD11	0.724
1	C:379:CYS:HA	C:382:ILE:HG22	0.724

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:296:VAL:HB	D:305:ALA:HB3	0.724
1	F:10:GLY:HA3	F:123:THR:HG21	0.724
1	A:379:TYR:HA	A:382:VAL:HG22	0.723
1	D:123:ILE:HD11	D:171:ILE:HG21	0.723
1	A:182:TYR:CE1	B:14:LEU:HD22	0.722
1	C:179:LEU:HD12	C:189:ASP:HA	0.722
1	C:183:ASP:H	C:211:LYS:HB3	0.722
1	D:38:ASP:HB2	D:39:PRO:CD	0.722
1	D:39:PRO:HA	D:304:ARG:CB	0.722
1	D:89:LYS:HD2	D:89:LYS:N	0.722
1	D:150:ARG:NH1	D:192:LEU:HG	0.722
1	D:150:ARG:NH1	D:199:PHE:HB3	0.722
1	A:13:VAL:HA	A:16:TRP:CD1	0.721
1	A:156:ILE:O	A:156:ILE:HD13	0.721
1	C:56:ILE:HG21	C:71:GLU:HA	0.721
1	C:102:ALA:HB3	C:198:LEU:CG	0.721
1	A:23:CYS:SG	A:48:CYS:HB3	0.720
1	A:95:LEU:HB3	A:96:PRO:HD2	0.720
1	C:53:LYS:HB2	C:95:ILE:HA	0.720
1	C:54:ASN:CB	C:59:GLN:H	0.720
1	C:243:ALA:HB1	C:288:ILE:CG1	0.720
1	F:52:ILE:HG21	F:80:LEU:HD11	0.720
1	C:113:LEU:HD13	C:165:ARG:CD	0.719

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:71:GLU:HG3	C:85:ASP:CA	0.718
1	C:102:ALA:HB2	C:172:ILE:HG22	0.718
1	C:151:LYS:HB2	C:182:ILE:HD11	0.718
1	C:103:ILE:CG2	C:196:ASP:HA	0.718
1	C:43:LEU:HD11	C:219:PHE:HD2	0.717
1	C:137:VAL:HG13	C:138:PRO:HD2	0.716
1	C:142:PHE:CG	C:203:LEU:HB2	0.716
1	C:179:LEU:CD2	C:197:LEU:HB2	0.716
1	C:224:VAL:CG1	C:227:GLN:HB3	0.716
1	C:246:PHE:CG	C:289:LEU:HB3	0.716
1	D:96:ARG:H	D:96:ARG:HD2	0.716
1	D:188:MET:SD	D:230:ASN:HA	0.716
1	E:48:ASP:HA	E:50:LEU:N	0.716
1	F:100:CYS:HB3	F:108:CYS:SG	0.716
1	A:420:LEU:CD1	D:301:LYS:HB2	0.715
1	C:53:LYS:NZ	C:91:LYS:HG3	0.715
1	C:119:LEU:HD12	C:158:GLY:HA3	0.715
1	C:238:PHE:CD2	C:241:VAL:HB	0.715
1	D:33:ILE:O	D:34:THR:HG23	0.715
1	D:39:PRO:HB3	D:304:ARG:HD2	0.715
1	D:58:ILE:HD11	D:72:SER:HB2	0.715
1	D:318:LEU:HD11	D:327:VAL:CG1	0.715
1	C:177:TYR:CD2	C:296:LEU:HB2	0.714

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:201:ARG:HB2	C:201:ARG:NH1	0.714
1	D:318:LEU:HD13	D:319:GLY:N	0.714
1	A:413:LEU:CA	D:291:ASP:HB2	0.713
1	C:96:LYS:HB2	C:204:THR:CA	0.713
1	A:79:ARG:HD3	A:98:ARG:HG3	0.712
1	A:15:LYS:HB3	A:65:TYR:HD1	0.711
1	A:413:LEU:HD12	D:295:ASN:HD21	0.711
1	C:179:LEU:CD1	C:197:LEU:HB2	0.711
1	C:181:LYS:HG3	C:186:LYS:C	0.711
1	C:238:PHE:CG	C:286:SER:HB2	0.711
1	C:55:THR:HB	C:95:ILE:HD13	0.710
1	C:59:GLN:HG2	C:84:SER:CB	0.710
1	C:175:ALA:HB1	C:198:LEU:CB	0.710
1	C:249:ALA:HA	C:305:LYS:HB2	0.710
1	C:280:LYS:HG2	C:284:ASP:HB3	0.710
1	A:343:ILE:HG13	A:347:VAL:CG1	0.709
1	C:53:LYS:HE3	C:94:ASP:C	0.709
1	D:43:ILE:HG12	D:44:GLN:H	0.709
1	A:416:PRO:HB2	D:42:ARG:N	0.708
1	C:40:THR:HG21	C:220:HIS:NE2	0.708
1	D:280:LYS:HG2	D:324:GLY:HA3	0.708
1	D:285:LEU:HD12	D:297:TRP:CZ3	0.708
1	A:357:ARG:CD	A:360:LYS:HE3	0.707

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:26:ILE:HD11	D:92:ALA:HB3	0.707
1	C:99:LEU:HD13	C:201:ARG:NH1	0.707
1	C:151:LYS:HA	C:200:CYS:SG	0.707
1	C:234:TRP:CZ3	D:117:LEU:HD13	0.707
1	C:247:VAL:HG11	C:293:LYS:N	0.707
1	A:315:ASN:ND2	C:346:LEU:HD21	0.707
1	D:82:TRP:CH2	D:87:THR:HA	0.707
1	C:178:PHE:HB3	C:181:LYS:HG2	0.706
1	C:190:TYR:CZ	C:191:VAL:HG22	0.706
1	C:186:LYS:NZ	C:203:LEU:HA	0.706
1	C:26:ILE:HD11	D:92:ALA:CB	0.705
1	C:45:LEU:CD2	C:293:LYS:HB3	0.705
1	D:235:PHE:CD2	D:236:PRO:HD2	0.705
1	D:251:ARG:NH1	D:253:PHE:HB2	0.705
1	A:15:LYS:CD	A:65:TYR:HA	0.704
1	C:47:GLY:CA	C:224:VAL:HG22	0.704
1	C:107:VAL:HG11	C:128:VAL:HG13	0.704
1	C:183:ASP:HB3	C:211:LYS:CB	0.704
1	C:184:VAL:CB	C:209:GLU:HB3	0.704
1	C:296:LEU:HB3	C:299:GLU:HB3	0.704
1	D:151:PHE:CE2	D:154:ASP:HA	0.704
1	A:311:LYS:HB2	C:384:GLN:HE21	0.703
1	A:414:LYS:HB3	D:307:VAL:N	0.703

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:244:ILE:HG12	C:287:VAL:HA	0.703
1	C:279:ASN:CB	C:281:TRP:HB2	0.703
1	A:311:LYS:HG3	C:388:LEU:HD12	0.702
1	C:185:ILE:HG22	C:203:LEU:O	0.702
1	C:154:TRP:HE3	C:197:LEU:HD13	0.702
1	D:58:ILE:CD1	D:72:SER:HB2	0.702
1	D:198:LEU:HD12	D:210:LEU:HD21	0.702
1	F:38:VAL:HB	F:96:TYR:CE1	0.702
1	F:42:PRO:HD3	F:93:ALA:HB2	0.702
1	C:54:ASN:HA	C:91:LYS:HD2	0.701
1	C:54:ASN:HB3	C:59:GLN:H	0.701
1	C:176:GLN:HA	C:179:LEU:HD11	0.700
1	D:58:ILE:HA	D:74:SER:CB	0.700
1	A:227:TYR:HB2	A:246:TYR:CE1	0.699
1	A:347:VAL:HG13	A:348:MET:HG3	0.699
1	A:414:LYS:HB3	D:307:VAL:H	0.699
1	C:54:ASN:C	C:207:ILE:HD13	0.699
1	C:185:ILE:HA	C:202:VAL:CG2	0.699
1	E:44:HIS:HA	E:50:LEU:CD1	0.699
1	A:232:LEU:HD21	A:307:ILE:HD13	0.698
1	C:53:LYS:HA	C:55:THR:CA	0.698
1	C:88:LYS:H	C:88:LYS:HD2	0.698
1	C:88:LYS:HD2	C:91:LYS:HZ1	0.698

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:147:TYR:HB3	C:203:LEU:HD23	0.698
1	D:168:LEU:HB2	D:177:THR:HG22	0.698
1	D:291:ASP:HB3	D:293:ASN:N	0.698
1	C:50:GLU:CG	D:98:SER:HB2	0.697
1	C:96:LYS:HB3	C:204:THR:HG22	0.697
1	C:96:LYS:HA	C:186:LYS:NZ	0.696
1	C:151:LYS:CA	C:200:CYS:HB2	0.696
1	C:176:GLN:CG	C:179:LEU:HD11	0.696
1	C:268:ALA:HB1	C:306:SER:CB	0.696
1	D:124:TYR:CE1	D:133:VAL:HG12	0.696
1	D:239:ASN:O	D:255:LEU:HG	0.696
1	C:48:ALA:HB3	D:117:LEU:HD22	0.695
1	C:53:LYS:HB2	C:95:ILE:CA	0.695
1	C:147:TYR:HB3	C:203:LEU:CD2	0.695
1	C:175:ALA:HB1	C:198:LEU:HB3	0.695
1	C:280:LYS:HE3	C:284:ASP:CB	0.695
1	D:211:TRP:HD1	D:213:VAL:HG23	0.695
1	D:338:ILE:HG13	D:339:TRP:N	0.695
1	C:102:ALA:HA	C:105:THR:CG2	0.694
1	C:179:LEU:HB3	C:197:LEU:C	0.694
1	C:106:ILE:CG1	C:195:GLN:HG3	0.694
1	D:57:LYS:HD3	D:75:GLN:HB3	0.694
1	A:420:LEU:HD11	D:301:LYS:HB2	0.693

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:53:LYS:HZ2	C:91:LYS:HA	0.693
1	C:95:ILE:CG1	C:186:LYS:HE3	0.693
1	C:96:LYS:CD	C:204:THR:HG23	0.693
1	C:107:VAL:CG1	C:128:VAL:HG13	0.693
1	C:251:SER:CA	C:308:ILE:HG22	0.693
1	C:292:ASN:HB2	C:365:CYS:SG	0.693
1	E:18:GLN:HE22	E:22:GLU:HB2	0.693
1	C:247:VAL:HG21	C:292:ASN:C	0.692
1	D:99:TRP:HE1	D:101:MET:HB2	0.692
1	A:49:TRP:CH2	A:58:VAL:HB	0.691
1	A:148:HIS:C	A:149:LEU:HD12	0.691
1	C:186:LYS:NZ	C:201:ARG:HD3	0.691
1	C:296:LEU:HB3	C:299:GLU:N	0.691
1	D:64:GLY:HA3	D:69:LEU:CD2	0.691
1	C:52:GLY:H	C:207:ILE:N	0.691
1	A:416:PRO:HB2	D:42:ARG:CG	0.690
1	C:47:GLY:HA2	C:224:VAL:CG2	0.690
1	D:168:LEU:HB2	D:177:THR:CG2	0.690
1	D:285:LEU:HD12	D:297:TRP:CE3	0.690
1	F:35:MET:HG3	F:36:ASN:N	0.690
1	C:102:ALA:HB1	C:195:GLN:HB2	0.688
1	C:177:TYR:HB3	C:178:PHE:CE1	0.688
1	C:342:ARG:HG3	C:361:PRO:HG2	0.688

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:318:LEU:HD22	D:329:THR:HB	0.688
1	A:221:LEU:HD21	A:337:LEU:O	0.687
1	A:275:THR:HG23	A:276:ARG:N	0.687
1	A:370:PHE:CE2	A:374:MET:HB2	0.687
1	C:209:GLU:HG3	C:222:PHE:CD1	0.687
1	C:57:VAL:O	C:295:ASP:HB3	0.687
1	A:413:LEU:N	D:291:ASP:HB2	0.687
1	C:49:GLY:HA3	D:117:LEU:C	0.686
1	C:54:ASN:HA	C:59:GLN:CG	0.686
1	C:102:ALA:C	C:198:LEU:HD12	0.686
1	C:175:ALA:O	C:198:LEU:HB2	0.686
1	C:224:VAL:HG12	C:225:GLY:O	0.686
1	C:250:SER:HB3	C:308:ILE:CA	0.686
1	D:96:ARG:HG2	D:97:SER:N	0.686
1	F:21:LEU:HB2	F:37:TRP:CH2	0.686
1	A:261:TRP:NE1	A:265:LYS:HD3	0.685
1	A:413:LEU:C	D:293:ASN:HB2	0.685
1	C:178:PHE:HA	C:181:LYS:HB2	0.685
1	C:244:ILE:HG12	C:287:VAL:N	0.685
1	A:417:THR:N	D:42:ARG:HG3	0.685
1	E:15:LEU:HD12	E:16:VAL:HG13	0.685
1	F:23:CYS:SG	F:97:CYS:HB2	0.685
1	A:261:TRP:CE2	A:265:LYS:HD3	0.684

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:154:TRP:CA	C:200:CYS:HB3	0.684
1	C:42:ARG:HH11	C:241:VAL:HG22	0.684
1	C:244:ILE:HG12	C:287:VAL:CA	0.684
1	D:152:LEU:CD2	D:192:LEU:HD11	0.684
1	D:293:ASN:CG	D:309:ALA:HA	0.684
1	A:311:LYS:HB2	C:384:GLN:NE2	0.683
1	A:400:GLU:HG2	C:351:ALA:HA	0.683
1	A:414:LYS:C	D:307:VAL:HA	0.683
1	D:223:THR:HG21	F:2:GLN:HG3	0.683
1	A:417:THR:O	D:284:LEU:HD21	0.683
1	A:344:PHE:HE1	A:360:LYS:HD2	0.682
1	C:321:PRO:HB3	C:339:TYR:CE1	0.682
1	C:215:ASP:O	C:217:VAL:HG23	0.681
1	C:282:LEU:C	C:282:LEU:N	0.681
1	D:39:PRO:CA	D:304:ARG:HD2	0.681
1	D:308:LEU:HD13	D:339:TRP:CD2	0.681
1	A:370:PHE:CZ	A:374:MET:HB2	0.680
1	C:44:LEU:HD23	C:222:PHE:O	0.680
1	C:54:ASN:HA	C:59:GLN:HG3	0.680
1	C:179:LEU:HB3	C:197:LEU:O	0.680
1	C:179:LEU:HD23	C:198:LEU:CA	0.680
1	C:294:GLN:HG3	C:305:LYS:N	0.680
1	D:115:GLY:HA3	D:146:LEU:CD2	0.680

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	F:32:ASN:H	F:54:GLN:HG3	0.680
1	A:404:ILE:HG12	A:405:GLN:H	0.679
1	C:52:GLY:C	C:207:ILE:HA	0.679
1	C:54:ASN:HD22	C:59:GLN:HG3	0.679
1	C:163:TYR:HB2	C:196:ASP:CB	0.679
1	C:186:LYS:C	C:209:GLU:H	0.679
1	D:63:TRP:CE3	D:70:LEU:HG	0.679
1	D:124:TYR:CE2	D:133:VAL:HB	0.679
1	E:43:ALA:HA	E:49:PRO:CB	0.679
1	A:408:SER:HA	A:411:LYS:HB3	0.678
1	C:87:GLU:CA	C:91:LYS:HE3	0.678
1	C:96:LYS:HB2	C:204:THR:N	0.678
1	C:99:LEU:HD13	C:181:LYS:HG2	0.678
1	C:137:VAL:CG1	C:138:PRO:HD2	0.678
1	D:63:TRP:NE1	D:67:SER:HA	0.678
1	C:62:ILE:HG12	C:63:LEU:CD1	0.677
1	C:178:PHE:O	C:198:LEU:HD22	0.677
1	C:281:TRP:HA	C:287:VAL:HG12	0.677
1	C:244:ILE:O	C:288:ILE:HB	0.677
1	C:321:PRO:HB3	C:339:TYR:CZ	0.677
1	A:418:SER:CB	D:283:ARG:HD3	0.676
1	C:57:VAL:CG2	C:59:GLN:HB3	0.676
1	C:98:ASN:CB	C:99:LEU:HD23	0.676

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:246:PHE:HD2	C:280:LYS:HB2	0.676
1	A:45:GLU:HG3	B:26:LEU:HD21	0.675
1	A:174:LYS:HD3	A:210:MET:SD	0.675
1	D:225:HIS:HE1	D:247:ASP:HB3	0.675
1	A:261:TRP:CH2	A:282:TYR:HB3	0.674
1	A:413:LEU:HD12	D:295:ASN:ND2	0.674
1	A:416:PRO:CB	D:42:ARG:HG3	0.674
1	C:96:LYS:HD2	C:204:THR:HG23	0.674
1	C:113:LEU:CD1	C:165:ARG:HD3	0.674
1	D:232:ILE:HG13	D:243:THR:CG2	0.674
1	D:318:LEU:CD2	D:329:THR:HB	0.674
1	F:95:TYR:CZ	F:123:THR:HB	0.674
1	A:45:GLU:HG3	B:26:LEU:CD2	0.673
1	A:223:VAL:HG12	A:246:TYR:CE1	0.673
1	C:50:GLU:HG2	D:99:TRP:HB2	0.673
1	C:56:ILE:HA	C:178:PHE:CZ	0.673
1	C:186:LYS:HB2	C:186:LYS:O	0.673
1	D:29:THR:HG23	D:30:LEU:N	0.673
1	C:42:ARG:HD2	C:241:VAL:HG21	0.672
1	C:53:LYS:CA	C:95:ILE:HB	0.672
1	C:292:ASN:ND2	C:305:LYS:HG2	0.672
1	D:14:LEU:HB2	E:19:LEU:HD11	0.672
1	D:232:ILE:HD11	D:241:PHE:CD2	0.672

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:280:LYS:HG2	D:324:GLY:CA	0.672
1	A:335:PRO:HB3	A:371:GLN:NE2	0.671
1	C:57:VAL:HG12	C:58:LYS:O	0.671
1	C:103:ILE:C	C:199:ARG:HB3	0.671
1	C:246:PHE:HA	C:280:LYS:HD3	0.671
1	D:71:VAL:CG1	D:79:LEU:HD11	0.671
1	D:190:LEU:CD2	D:199:PHE:HB2	0.671
1	A:121:LEU:O	A:121:LEU:HD23	0.670
1	A:136:LEU:CD1	A:164:PHE:HB3	0.670
1	B:20:LYS:O	B:23:ILE:HG22	0.670
1	C:110:MET:HG3	C:162:CYS:SG	0.670
1	C:296:LEU:CB	C:299:GLU:HB3	0.670
1	D:281:SER:CA	E:44:HIS:HB3	0.670
1	F:33:TYR:CE2	F:99:ARG:HG3	0.670
1	C:45:LEU:CD1	C:245:ILE:HG22	0.669
1	D:145:TYR:HB3	D:162:GLY:HA3	0.669
1	A:232:LEU:HD21	A:307:ILE:CD1	0.668
1	A:417:THR:HG22	D:305:ALA:CB	0.668
1	C:11:ASP:HB2	C:14:ASN:HD21	0.668
1	C:58:LYS:HD2	C:223:ASP:CG	0.668
1	C:187:GLN:H	C:210:THR:HA	0.668
1	E:43:ALA:C	E:49:PRO:HB2	0.668
1	C:246:PHE:HB3	C:288:ILE:O	0.667

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:150:ARG:CZ	D:199:PHE:HB3	0.667
1	C:233:LYS:NZ	D:188:MET:HA	0.667
1	C:179:LEU:HD23	C:198:LEU:N	0.666
1	C:52:GLY:CA	C:186:LYS:CG	0.665
1	C:96:LYS:HG3	C:203:LEU:HD12	0.665
1	C:227:GLN:HG2	C:228:ARG:N	0.665
1	C:294:GLN:HA	C:305:LYS:CA	0.665
1	C:294:GLN:HE21	C:304:GLY:HA3	0.665
1	D:269:ILE:HD12	D:289:TYR:CE1	0.665
1	D:281:SER:CB	E:44:HIS:HB3	0.665
1	C:88:LYS:HB3	D:143:THR:HA	0.664
1	C:99:LEU:HD22	C:178:PHE:HD2	0.664
1	C:127:ARG:HD2	C:153:LEU:CD2	0.664
1	C:179:LEU:HD23	C:198:LEU:HB2	0.664
1	C:182:ILE:HG23	C:183:ASP:H	0.664
1	D:38:ASP:HB3	D:266:HIS:CE1	0.664
1	D:181:THR:HG21	E:14:LYS:HZ3	0.664
1	D:325:MET:HE1	E:53:PRO:CA	0.664
1	E:52:THR:HG23	E:53:PRO:HD2	0.664
1	A:417:THR:HG22	D:305:ALA:CA	0.663
1	B:11:SER:O	B:14:LEU:HB3	0.663
1	C:1:MET:HB3	D:94:PRO:CD	0.663
1	C:88:LYS:HG3	C:226:ALA:CB	0.663

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:182:ILE:HB	C:201:ARG:N	0.663
1	C:246:PHE:CD1	C:289:LEU:HB3	0.663
1	C:346:LEU:HD13	C:350:THR:HG22	0.663
1	C:233:LYS:HZ3	D:147:SER:CB	0.663
1	A:182:TYR:HB2	B:18:ALA:CB	0.662
1	A:117:GLN:NE2	A:358:PHE:HB3	0.662
1	C:127:ARG:HB3	C:149:HIS:HB2	0.662
1	C:249:ALA:CB	C:292:ASN:HA	0.662
1	E:47:GLU:HA	E:47:GLU:OE2	0.662
1	A:221:LEU:O	A:221:LEU:HD22	0.661
1	A:388:LEU:C	A:388:LEU:HD13	0.661
1	B:25:TRP:CD1	B:31:GLY:HA2	0.661
1	C:28:LYS:O	C:31:GLN:HG2	0.661
1	C:45:LEU:HD21	C:58:LYS:HE2	0.661
1	C:46:LEU:HA	C:285:THR:CG2	0.661
1	C:184:VAL:HG21	C:220:HIS:C	0.661
1	C:184:VAL:HG22	C:220:HIS:HB3	0.661
1	C:249:ALA:HB2	C:292:ASN:CA	0.661
1	C:342:ARG:HD2	C:361:PRO:HB2	0.661
1	D:40:VAL:CA	D:306:GLY:HA3	0.661
1	F:87:LEU:H	F:87:LEU:HD13	0.661
1	C:211:LYS:HE2	C:218:ASN:CB	0.660
1	D:259:GLN:HG2	D:260:GLU:N	0.660

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:62:ILE:CA	C:88:LYS:HE3	0.659
1	C:184:VAL:HG13	C:220:HIS:HB3	0.659
1	C:256:VAL:HG12	C:257:ILE:HG13	0.659
1	E:15:LEU:HD12	E:16:VAL:H	0.659
1	C:53:LYS:HG2	C:91:LYS:CG	0.658
1	C:62:ILE:HD12	D:143:THR:CB	0.658
1	F:30:PHE:CE2	F:73:ARG:HD3	0.658
1	A:143:LEU:CD1	A:158:LEU:HB3	0.657
1	A:262:GLY:HA2	A:265:LYS:CE	0.657
1	C:53:LYS:CB	C:95:ILE:HB	0.657
1	C:54:ASN:HB3	C:59:GLN:N	0.657
1	C:74:GLU:HG3	C:301:VAL:CG1	0.657
1	C:102:ALA:HB1	C:195:GLN:O	0.657
1	C:247:VAL:CG2	C:290:PHE:HB2	0.657
1	F:96:TYR:OH	F:111:VAL:HG12	0.657
1	A:216:ALA:HB1	A:220:TRP:HZ3	0.656
1	A:388:LEU:HG	A:412:PRO:HG3	0.656
1	A:416:PRO:HB2	D:42:ARG:CB	0.656
1	C:101:GLU:HA	C:101:GLU:OE1	0.656
1	C:209:GLU:HG2	C:222:PHE:CA	0.656
1	C:308:ILE:HG23	C:309:GLU:N	0.656
1	D:139:LEU:HG	D:169:TRP:CE2	0.656
1	A:1:ARG:HB3	A:2:PRO:CD	0.655

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:184:VAL:HG12	C:209:GLU:CD	0.655
1	C:294:GLN:CB	C:305:LYS:HG3	0.655
1	A:283:TRP:HD1	A:284:LEU:HD23	0.654
1	C:48:ALA:HB1	D:117:LEU:HD22	0.654
1	C:53:LYS:CD	C:55:THR:HG22	0.654
1	C:103:ILE:HA	C:199:ARG:HB3	0.654
1	C:183:ASP:N	C:211:LYS:HB3	0.654
1	C:266:LEU:HD21	F:113:SER:CB	0.654
1	A:89:GLN:HE21	A:92:ASN:HA	0.653
1	A:201:LEU:O	A:201:LEU:HD13	0.653
1	C:246:PHE:CE1	C:248:VAL:HG23	0.653
1	C:332:PRO:HA	C:335:THR:CG2	0.653
1	D:286:LEU:HB3	D:296:VAL:HG22	0.653
1	F:33:TYR:CD2	F:99:ARG:HG3	0.653
1	A:16:TRP:HB3	A:65:TYR:CZ	0.652
1	A:405:GLN:HG3	A:406:ARG:N	0.652
1	C:248:VAL:CG1	C:250:SER:HB2	0.652
1	C:296:LEU:HD23	C:297:LEU:H	0.652
1	D:59:TYR:CD2	D:316:SER:HB2	0.652
1	C:76:ASP:HB3	C:77:PRO:CD	0.651
1	C:102:ALA:HB3	C:198:LEU:CB	0.651
1	A:315:ASN:ND2	C:346:LEU:HD11	0.651
1	C:345:PHE:O	C:348:ILE:HG22	0.651

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:181:THR:HG21	E:14:LYS:NZ	0.651
1	A:33:PRO:HG3	A:38:PHE:CE2	0.650
1	A:95:LEU:HB3	A:96:PRO:CD	0.650
1	A:160:LEU:C	A:160:LEU:HD23	0.650
1	A:416:PRO:C	D:305:ALA:HB1	0.650
1	C:96:LYS:CD	C:142:PHE:HB3	0.650
1	C:186:LYS:HD2	C:201:ARG:HE	0.650
1	C:292:ASN:HD21	C:305:LYS:HG2	0.650
1	A:182:TYR:HB2	B:18:ALA:HB2	0.649
1	A:413:LEU:HD23	D:289:TYR:HD1	0.649
1	C:196:ASP:HB3	C:197:LEU:HD23	0.649
1	C:346:LEU:O	C:346:LEU:HD13	0.649
1	D:56:ALA:HB3	D:74:SER:O	0.649
1	D:117:LEU:HG	D:145:TYR:CG	0.649
1	F:38:VAL:CG1	F:111:VAL:HG11	0.649
1	A:125:TYR:CD1	A:365:LEU:HD23	0.648
1	C:36:VAL:O	C:39:ALA:HB3	0.648
1	C:58:LYS:HA	C:207:ILE:CD1	0.648
1	C:244:ILE:HG21	C:286:SER:N	0.648
1	D:106:ALA:CB	D:111:TYR:HB3	0.648
1	D:308:LEU:HD11	D:337:LYS:CE	0.648
1	C:46:LEU:C	C:285:THR:HB	0.647
1	C:58:LYS:HG3	C:223:ASP:OD2	0.647

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:386:MET:HE3	C:386:MET:O	0.647
1	D:225:HIS:CD2	D:227:SER:H	0.647
1	F:46:LEU:HD13	F:113:SER:CA	0.647
1	A:316:LEU:C	A:316:LEU:HD22	0.646
1	A:413:LEU:HD12	D:295:ASN:OD1	0.646
1	A:412:PRO:O	A:413:LEU:HD22	0.646
1	A:415:CYS:SG	A:416:PRO:HD3	0.646
1	C:57:VAL:CB	C:59:GLN:HB3	0.646
1	D:190:LEU:HD21	D:199:PHE:CB	0.646
1	F:34:LYS:NZ	F:106:ARG:HG3	0.646
1	C:19:GLN:HA	C:19:GLN:NE2	0.645
1	C:128:VAL:O	C:131:ILE:HG22	0.645
1	C:151:LYS:HD3	C:182:ILE:HD11	0.645
1	C:221:MET:HE1	C:245:ILE:HD12	0.645
1	D:71:VAL:HG12	D:79:LEU:HD11	0.645
1	D:157:ILE:CG2	D:169:TRP:HB3	0.645
1	A:46:TYR:HE1	A:66:LEU:HD12	0.644
1	A:269:GLU:HA	A:269:GLU:OE1	0.644
1	A:416:PRO:HG2	D:41:GLY:CA	0.644
1	C:46:LEU:CD1	C:271:LYS:HE2	0.644
1	C:59:GLN:HB2	C:82:SER:H	0.644
1	C:142:PHE:CD2	C:203:LEU:HB2	0.644
1	D:126:LEU:C	D:126:LEU:HD13	0.644

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:126:LEU:H	D:133:VAL:HG11	0.644
1	D:193:ALA:HB1	D:194:PRO:CD	0.644
1	F:5:LEU:HD23	F:7:GLU:CD	0.644
1	F:59:ILE:H	F:59:ILE:HD12	0.644
1	A:287:ARG:HA	B:1:HIS:NE2	0.643
1	A:418:SER:HB2	D:283:ARG:CD	0.643
1	C:46:LEU:HD11	C:271:LYS:HE2	0.643
1	C:53:LYS:HA	C:55:THR:N	0.643
1	C:103:ILE:HA	C:199:ARG:H	0.643
1	D:134:ARG:HG3	D:135:VAL:H	0.643
1	D:145:TYR:HD1	D:146:LEU:H	0.643
1	A:315:ASN:CG	C:346:LEU:HD21	0.642
1	A:357:ARG:HD2	A:360:LYS:HE3	0.642
1	C:57:VAL:O	C:58:LYS:HG2	0.642
1	C:176:GLN:HG2	C:189:ASP:H	0.642
1	C:249:ALA:HB1	C:305:LYS:HG2	0.642
1	C:331:ASP:HB2	C:334:VAL:CG2	0.642
1	D:23:LYS:HG3	D:26:ALA:O	0.642
1	D:35:ASN:HB2	D:263:THR:CG2	0.642
1	D:248:ALA:O	D:265:SER:HB3	0.642
1	C:103:ILE:HA	C:199:ARG:N	0.641
1	C:124:ASN:HB2	C:153:LEU:CD1	0.641
1	C:178:PHE:HA	C:181:LYS:HG2	0.641

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:186:LYS:HD3	C:203:LEU:N	0.641
1	D:106:ALA:HB1	D:151:PHE:CE2	0.641
1	D:211:TRP:CD1	D:213:VAL:HG23	0.641
1	D:283:ARG:HB2	E:41:CYS:SG	0.641
1	F:5:LEU:CD1	F:23:CYS:HB3	0.641
1	A:249:ILE:HG23	A:253:VAL:CG2	0.640
1	A:413:LEU:HD23	D:289:TYR:CD1	0.640
1	C:45:LEU:HD23	C:58:LYS:CD	0.640
1	C:60:MET:HE2	C:231:ARG:HH22	0.640
1	D:69:LEU:O	D:69:LEU:HD22	0.640
1	C:121:ASN:N	C:122:PRO:HD3	0.639
1	C:141:ASP:O	C:143:PRO:HD3	0.639
1	C:185:ILE:HG13	D:97:SER:CB	0.639
1	C:279:ASN:HB3	C:282:LEU:N	0.639
1	C:294:GLN:HG3	C:305:LYS:H	0.639
1	D:64:GLY:HA2	D:105:TYR:CE2	0.639
1	A:231:LEU:O	A:231:LEU:HD23	0.638
1	C:99:LEU:HD12	C:186:LYS:HD2	0.638
1	C:144:PRO:HB3	C:147:TYR:HE2	0.638
1	A:10:TRP:O	A:13:VAL:HG12	0.637
1	A:174:LYS:HB2	A:210:MET:CE	0.637
1	A:222:LEU:HA	A:297:ASN:HD21	0.637
1	C:99:LEU:HD12	C:186:LYS:CG	0.637

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:187:GLN:HG3	C:208:PHE:CE2	0.637
1	C:233:LYS:HD2	D:188:MET:CE	0.637
1	C:296:LEU:HB3	C:299:GLU:CB	0.637
1	C:88:LYS:HD2	C:91:LYS:NZ	0.636
1	A:25:ARG:O	A:28:THR:HG23	0.635
1	C:50:GLU:HG3	D:98:SER:CB	0.635
1	C:164:GLU:HA	C:164:GLU:OE2	0.635
1	C:163:TYR:O	C:194:ASP:HB2	0.635
1	C:298:ALA:O	C:301:VAL:HG12	0.635
1	C:382:ILE:HG23	C:383:ILE:N	0.635
1	E:43:ALA:CA	E:49:PRO:HB2	0.635
1	A:312:LEU:HB3	A:322:ILE:HG12	0.634
1	C:51:SER:O	C:209:GLU:HB2	0.634
1	D:128:THR:HG22	D:131:GLY:H	0.634
1	D:37:ILE:O	D:266:HIS:HB2	0.634
1	A:227:TYR:O	A:230:THR:HG23	0.633
1	A:316:LEU:O	A:316:LEU:HD13	0.633
1	E:40:TYR:O	E:43:ALA:HB3	0.633
1	C:62:ILE:N	C:88:LYS:HZZ	0.633
1	C:50:GLU:HG2	D:99:TRP:CB	0.632
1	C:96:LYS:HG2	C:96:LYS:O	0.632
1	C:181:LYS:CA	C:187:GLN:N	0.632
1	C:207:ILE:CD1	C:208:PHE:HB2	0.632

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:292:ASN:HD21	C:300:LYS:HD2	0.632
1	C:296:LEU:HD23	C:297:LEU:N	0.631
1	D:129:ARG:HG2	D:129:ARG:NH1	0.631
1	D:129:ARG:HG2	D:129:ARG:HH11	0.631
1	E:35:ALA:HA	E:38:MET:HG2	0.631
1	C:45:LEU:CD2	C:58:LYS:HE2	0.630
1	C:190:TYR:CE2	C:191:VAL:HG22	0.630
1	C:150:ALA:O	C:200:CYS:HB2	0.630
1	D:180:PHE:CZ	D:182:GLY:HA3	0.630
1	D:328:ALA:HB1	D:336:LEU:HD21	0.630
1	F:82:LEU:HG	F:83:GLN:N	0.630
1	A:222:LEU:HD23	A:297:ASN:HD21	0.629
1	A:378:LEU:O	A:382:VAL:HG22	0.629
1	C:178:PHE:CD1	C:181:LYS:HE2	0.629
1	C:211:LYS:HE2	C:218:ASN:CG	0.629
1	D:126:LEU:CA	D:133:VAL:HG21	0.629
1	D:166:CYS:HB2	D:180:PHE:HB3	0.629
1	D:311:HIS:CE1	D:335:PHE:HB2	0.629
1	A:32:PRO:CB	A:33:PRO:HD2	0.628
1	A:413:LEU:CB	D:289:TYR:HB3	0.628
1	C:53:LYS:HD2	C:86:GLY:N	0.628
1	C:102:ALA:HB1	C:195:GLN:CA	0.628
1	C:282:LEU:O	C:283:ARG:HG3	0.628

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:378:LEU:O	A:382:VAL:HG13	0.627
1	C:42:ARG:HD3	C:50:GLU:OE1	0.627
1	C:318:TYR:CD2	C:340:PHE:HB2	0.627
1	D:57:LYS:CD	D:75:GLN:HB3	0.627
1	D:123:ILE:HD11	D:171:ILE:CG2	0.627
1	D:192:LEU:HD22	D:193:ALA:O	0.627
1	F:89:PRO:HB3	F:127:VAL:HG21	0.627
1	A:335:PRO:HB3	A:371:GLN:HE22	0.626
1	C:163:TYR:CD2	C:194:ASP:HB2	0.626
1	C:154:TRP:H	C:200:CYS:CB	0.626
1	C:213:GLN:HB3	C:218:ASN:OD1	0.626
1	C:266:LEU:HD11	F:113:SER:HB3	0.626
1	D:39:PRO:CB	D:304:ARG:HD2	0.626
1	F:30:PHE:HB2	F:78:ASN:CG	0.626
1	C:95:ILE:HG23	C:96:LYS:N	0.625
1	C:106:ILE:HG21	C:196:ASP:HB2	0.625
1	C:175:ALA:CA	C:198:LEU:HB2	0.625
1	C:232:ARG:HA	C:283:ARG:HH12	0.625
1	D:253:PHE:CZ	D:258:ASP:HA	0.625
1	F:73:ARG:HB2	F:80:LEU:CD1	0.625
1	C:56:ILE:HD13	C:174:CYS:SG	0.624
1	C:78:GLN:HG2	C:79:ALA:H	0.624
1	C:99:LEU:HB3	C:201:ARG:NH1	0.624

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:321:PRO:HD3	C:339:TYR:CG	0.624
1	D:47:THR:O	D:48:ARG:HG3	0.624
1	D:111:TYR:OH	D:123:ILE:HG21	0.624
1	F:5:LEU:HD22	F:97:CYS:CB	0.624
1	F:13:VAL:HG22	F:19:LEU:HD11	0.624
1	A:361:LEU:HD13	B:6:PHE:CE1	0.623
1	C:42:ARG:C	C:241:VAL:HG13	0.623
1	C:60:MET:HA	C:225:GLY:O	0.623
1	C:95:ILE:HD11	C:99:LEU:HD21	0.623
1	C:99:LEU:CD1	C:186:LYS:HE3	0.623
1	C:202:VAL:O	C:203:LEU:HD22	0.623
1	D:292:PHE:CE1	D:315:VAL:HG12	0.623
1	F:30:PHE:CZ	F:73:ARG:HG3	0.623
1	A:261:TRP:HZ3	A:282:TYR:HB3	0.622
1	C:52:GLY:CA	C:95:ILE:HG12	0.622
1	C:81:ARG:CB	C:267:GLN:HG3	0.622
1	C:81:ARG:HB2	C:267:GLN:HG3	0.622
1	D:57:LYS:O	D:74:SER:HB2	0.622
1	D:80:ILE:HG12	D:92:ALA:CA	0.622
1	D:126:LEU:O	D:126:LEU:HD13	0.622
1	D:121:CYS:SG	D:139:LEU:HD13	0.622
1	D:233:CYS:HB3	D:278:PHE:HE1	0.622
1	E:44:HIS:CG	E:50:LEU:HD11	0.622

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	E:59:ASN:N	E:60:PRO:HD2	0.622
1	A:259:VAL:N	A:260:PRO:HD2	0.621
1	B:26:LEU:C	B:26:LEU:HD23	0.621
1	C:59:GLN:HB2	C:82:SER:HA	0.621
1	C:144:PRO:HA	C:147:TYR:CE2	0.621
1	C:163:TYR:HB2	C:196:ASP:HB3	0.621
1	C:249:ALA:HB3	C:305:LYS:CB	0.621
1	D:67:SER:O	D:69:LEU:HD13	0.621
1	A:253:VAL:HG13	A:257:PHE:HE1	0.620
1	A:408:SER:HB2	D:271:CYS:SG	0.620
1	C:51:SER:CA	C:207:ILE:H	0.620
1	C:53:LYS:HB3	C:91:LYS:O	0.620
1	C:287:VAL:O	C:288:ILE:HG13	0.620
1	D:211:TRP:HE1	D:213:VAL:HA	0.620
1	D:298:ASP:HB2	D:301:LYS:O	0.620
1	C:268:ALA:HB1	C:306:SER:OG	0.619
1	A:253:VAL:N	A:254:PRO:HD2	0.618
1	A:413:LEU:HB2	D:291:ASP:HB2	0.618
1	C:171:LEU:HB3	C:195:GLN:CG	0.618
1	C:103:ILE:O	C:199:ARG:HB3	0.618
1	C:217:VAL:HG21	C:376:PHE:CE1	0.618
1	D:77:GLY:CA	D:95:LEU:HB2	0.618
1	F:21:LEU:HD12	F:95:TYR:OH	0.618

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:33:PRO:HG2	A:38:PHE:CD1	0.617
1	A:170:SER:O	A:173:ILE:HG22	0.617
1	A:275:THR:HG21	B:11:SER:OG	0.617
1	C:48:ALA:C	D:117:LEU:HB2	0.617
1	C:102:ALA:HB1	C:195:GLN:CB	0.617
1	C:202:VAL:C	C:203:LEU:HD22	0.617
1	C:312:PHE:CZ	C:314:GLU:HB2	0.617
1	D:256:ARG:HB3	E:28:ILE:HG22	0.617
1	A:161:PHE:CE1	A:165:ILE:HD11	0.616
1	C:179:LEU:HB3	C:197:LEU:HB3	0.616
1	C:187:GLN:H	C:210:THR:CA	0.616
1	D:124:TYR:CD1	D:133:VAL:HG12	0.616
1	A:301:PHE:HB2	A:337:LEU:CD2	0.615
1	A:416:PRO:HG2	D:41:GLY:HA2	0.615
1	B:3:GLU:OE2	B:6:PHE:HB3	0.615
1	C:47:GLY:HA2	C:224:VAL:CB	0.615
1	C:182:ILE:CA	C:201:ARG:HA	0.615
1	C:186:LYS:HE2	C:203:LEU:C	0.615
1	C:224:VAL:HG21	C:231:ARG:HH21	0.615
1	C:280:LYS:CA	C:283:ARG:H	0.615
1	D:40:VAL:C	D:306:GLY:HA3	0.615
1	D:168:LEU:HG	D:178:THR:CG2	0.615
1	A:416:PRO:O	D:305:ALA:HB1	0.615

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:314:ARG:HB3	D:332:TRP:CZ3	0.615
1	F:5:LEU:HD11	F:23:CYS:CB	0.615
1	C:46:LEU:HA	C:285:THR:CB	0.614
1	C:233:LYS:HD2	D:188:MET:HE2	0.614
1	D:23:LYS:HA	D:26:ALA:O	0.614
1	F:49:VAL:HG12	F:50:SER:N	0.614
1	C:59:GLN:CD	C:91:LYS:HE2	0.613
1	C:144:PRO:HA	C:147:TYR:CD2	0.613
1	A:356:LEU:HB2	A:358:PHE:CE1	0.612
1	C:53:LYS:HD2	C:85:ASP:C	0.612
1	C:59:GLN:NE2	C:82:SER:HA	0.612
1	C:106:ILE:HD11	C:166:SER:OG	0.612
1	C:176:GLN:HG2	C:189:ASP:CA	0.612
1	D:14:LEU:HB2	E:19:LEU:CD1	0.612
1	D:61:MET:HE1	D:319:GLY:N	0.612
1	D:241:PHE:CD1	D:255:LEU:HD21	0.612
1	E:43:ALA:O	E:49:PRO:HB2	0.612
1	A:405:GLN:HG3	A:406:ARG:H	0.611
1	A:182:TYR:CB	B:14:LEU:HD13	0.611
1	C:58:LYS:CA	C:207:ILE:HD11	0.611
1	C:182:ILE:HG13	C:201:ARG:C	0.611
1	C:102:ALA:N	C:198:LEU:HD12	0.611
1	C:183:ASP:H	C:211:LYS:N	0.611

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:374:MET:O	A:377:ILE:HG22	0.610
1	C:49:GLY:C	D:99:TRP:HB3	0.610
1	C:54:ASN:HB3	C:59:GLN:CA	0.610
1	C:99:LEU:N	C:99:LEU:HD23	0.610
1	C:177:TYR:HB3	C:178:PHE:CD1	0.610
1	C:186:LYS:CE	C:203:LEU:HA	0.610
1	C:183:ASP:H	C:211:LYS:CB	0.610
1	A:388:LEU:O	A:388:LEU:HD22	0.609
1	C:46:LEU:HA	C:284:ASP:O	0.609
1	C:186:LYS:O	C:208:PHE:HA	0.609
1	C:273:PHE:HB3	F:111:VAL:HG22	0.609
1	C:280:LYS:O	C:287:VAL:HG13	0.609
1	D:20:ASP:O	D:23:LYS:HB3	0.609
1	F:34:LYS:HZ2	F:106:ARG:HG3	0.609
1	C:111:SER:O	C:116:PRO:HG3	0.608
1	C:151:LYS:CB	C:182:ILE:HD11	0.608
1	C:171:LEU:HB3	C:195:GLN:HG2	0.608
1	C:182:ILE:HG12	C:183:ASP:N	0.608
1	C:186:LYS:HD3	C:203:LEU:HA	0.608
1	C:235:ILE:O	C:236:GLN:HG3	0.608
1	C:249:ALA:CB	C:305:LYS:HB2	0.608
1	C:270:LEU:HD11	F:113:SER:HB3	0.608
1	C:251:SER:N	C:308:ILE:HG22	0.608

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:63:TRP:CE2	D:321:THR:HG22	0.608
1	C:171:LEU:HD23	C:172:ILE:O	0.607
1	C:53:LYS:N	C:207:ILE:HA	0.607
1	C:244:ILE:HD12	C:246:PHE:H	0.607
1	D:186:ASP:HB3	D:204:CYS:SG	0.607
1	A:413:LEU:CD1	D:269:ILE:HG21	0.607
1	F:30:PHE:O	F:33:TYR:HB3	0.607
1	A:15:LYS:HE2	A:65:TYR:H	0.606
1	A:78:TYR:O	A:79:ARG:HG3	0.606
1	A:262:GLY:HA2	A:265:LYS:HE2	0.606
1	A:334:ILE:O	A:334:ILE:HG13	0.606
1	C:56:ILE:HD12	C:177:TYR:CD2	0.606
1	D:28:ALA:O	D:29:THR:HG22	0.606
1	A:42:THR:O	A:49:TRP:HB3	0.605
1	A:232:LEU:C	A:232:LEU:HD13	0.605
1	C:54:ASN:HB3	C:59:GLN:O	0.605
1	C:201:ARG:HD3	C:203:LEU:HD13	0.605
1	C:42:ARG:O	C:241:VAL:HG13	0.605
1	D:164:THR:HB	D:185:GLY:O	0.605
1	D:248:ALA:HB2	D:271:CYS:O	0.605
1	A:180:TRP:O	A:184:THR:HG22	0.604
1	C:93:GLN:HA	C:204:THR:HG22	0.604
1	C:202:VAL:O	C:203:LEU:HD13	0.604

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:68:ARG:HG2	D:68:ARG:O	0.604
1	D:77:GLY:O	D:95:LEU:HB2	0.604
1	D:229:ILE:HD11	D:243:THR:CG2	0.604
1	D:315:VAL:O	D:331:SER:HA	0.604
1	E:35:ALA:O	E:38:MET:HG2	0.604
1	D:283:ARG:NH2	E:45:ALA:HB2	0.604
1	C:58:LYS:CB	C:208:PHE:HD2	0.603
1	C:143:PRO:HG2	C:146:PHE:CD1	0.603
1	C:151:LYS:CG	C:182:ILE:HD11	0.603
1	C:124:ASN:CB	C:153:LEU:HD11	0.603
1	C:184:VAL:HG22	C:220:HIS:CA	0.603
1	C:292:ASN:CG	C:300:LYS:HD2	0.603
1	C:320:THR:OG1	C:321:PRO:HD2	0.603
1	D:323:ASP:CG	E:54:VAL:HG12	0.603
1	E:12:ALA:HA	E:15:LEU:HG	0.603
1	F:41:ALA:HA	F:93:ALA:HB2	0.603
1	F:37:TRP:NE1	F:95:TYR:HB2	0.603
1	A:27:LEU:HA	A:41:ARG:NH1	0.602
1	A:307:ILE:HD11	C:384:GLN:OE1	0.602
1	A:314:ALA:HB3	A:320:THR:HG21	0.602
1	A:326:LEU:O	A:326:LEU:HD23	0.602
1	C:305:LYS:HD2	C:305:LYS:O	0.602
1	D:38:ASP:CB	D:39:PRO:HD2	0.602

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:124:TYR:CZ	D:133:VAL:HG12	0.602
1	C:52:GLY:C	C:52:GLY:N	0.602
1	C:186:LYS:HZ2	C:201:ARG:CD	0.602
1	A:10:TRP:HB2	A:198:GLN:HE22	0.601
1	A:136:LEU:HB3	A:161:PHE:CD1	0.601
1	A:387:GLN:O	A:390:PHE:HB3	0.601
1	C:105:THR:HG23	C:106:ILE:N	0.601
1	C:119:LEU:HD12	C:157:GLU:O	0.601
1	C:147:TYR:HB2	C:202:VAL:CG1	0.601
1	C:147:TYR:CB	C:202:VAL:HB	0.601
1	C:244:ILE:HD13	C:285:THR:CG2	0.601
1	C:249:ALA:HB1	C:292:ASN:ND2	0.601
1	D:101:MET:HE3	D:147:SER:CB	0.601
1	F:38:VAL:HG13	F:47:GLU:O	0.601
1	A:136:LEU:HD21	A:372:GLY:O	0.600
1	A:364:GLU:HG3	A:365:LEU:CD1	0.600
1	A:406:ARG:HG2	D:267:ASP:O	0.600
1	C:127:ARG:CD	C:152:ALA:HB3	0.600
1	C:151:LYS:HA	C:200:CYS:HB2	0.600
1	C:182:ILE:HG12	C:183:ASP:CB	0.600
1	C:280:LYS:CE	C:284:ASP:HB3	0.600
1	C:281:TRP:CZ2	C:345:PHE:HB3	0.600
1	C:281:TRP:HE1	C:289:LEU:HD11	0.600

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:111:TYR:CD1	D:151:PHE:HE1	0.600
1	F:33:TYR:CZ	F:99:ARG:HB3	0.600
1	A:364:GLU:CG	A:365:LEU:HD12	0.599
1	C:59:GLN:CB	C:82:SER:HA	0.599
1	C:182:ILE:CA	C:202:VAL:N	0.599
1	F:73:ARG:C	F:73:ARG:HD2	0.599
1	F:101:PRO:HG2	F:116:TYR:CE2	0.599
1	C:53:LYS:HZ2	C:91:LYS:CA	0.598
1	C:89:ALA:O	C:92:VAL:HB	0.598
1	C:102:ALA:HB1	C:195:GLN:HA	0.598
1	C:179:LEU:CD2	C:198:LEU:N	0.598
1	C:187:GLN:CB	C:208:PHE:CE2	0.598
1	C:243:ALA:HB3	C:288:ILE:HD11	0.598
1	C:260:ASP:HB3	F:44:LYS:HA	0.598
1	D:36:ASN:O	D:37:ILE:HG13	0.598
1	D:313:ASN:CB	D:332:TRP:HB2	0.598
1	E:48:ASP:HA	E:49:PRO:C	0.598
1	C:26:ILE:O	C:30:LEU:HG	0.597
1	C:294:GLN:CD	C:304:GLY:HA3	0.597
1	D:82:TRP:HH2	D:87:THR:HB	0.597
1	C:50:GLU:CB	D:98:SER:HB2	0.596
1	C:54:ASN:CA	C:59:GLN:HG3	0.596
1	C:176:GLN:O	C:179:LEU:HG	0.596

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:180:ASP:CG	C:212:PHE:HB2	0.596
1	C:185:ILE:HB	C:205:SER:OG	0.596
1	C:232:ARG:HA	C:283:ARG:NH1	0.596
1	C:289:LEU:HD11	C:345:PHE:HB3	0.596
1	F:28:PHE:CD2	F:33:TYR:HD2	0.596
1	A:379:TYR:HA	A:382:VAL:CG2	0.595
1	C:38:ARG:HB3	D:55:LEU:HD11	0.595
1	C:51:SER:HB3	C:207:ILE:HG22	0.595
1	C:181:LYS:HG3	C:186:LYS:CB	0.595
1	C:208:PHE:O	C:209:GLU:HG3	0.595
1	C:210:THR:CG2	C:221:MET:HB3	0.595
1	C:244:ILE:CD1	C:246:PHE:H	0.595
1	C:249:ALA:HB3	C:305:LYS:HB2	0.595
1	C:296:LEU:O	C:300:LYS:HG2	0.595
1	D:250:CYS:HB2	D:273:ILE:CD1	0.595
1	E:54:VAL:HG22	E:55:PRO:N	0.595
1	F:17:GLY:HA3	F:87:LEU:CD1	0.595
1	A:75:GLY:HA2	A:102:GLU:OE1	0.594
1	C:176:GLN:HA	C:179:LEU:HG	0.594
1	C:181:LYS:CG	C:201:ARG:HH22	0.594
1	C:253:TYR:O	C:256:VAL:HA	0.594
1	C:280:LYS:HA	C:283:ARG:H	0.594
1	C:278:ASN:ND2	C:283:ARG:HB2	0.594

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:23:LYS:HG3	D:27:ASP:HA	0.594
1	D:75:GLN:HG2	D:75:GLN:O	0.594
1	D:126:LEU:O	D:126:LEU:HD22	0.594
1	D:233:CYS:O	D:241:PHE:HB2	0.594
1	D:281:SER:HA	E:44:HIS:CB	0.594
1	C:34:LYS:HZ2	D:55:LEU:N	0.594
1	C:49:GLY:HA2	D:117:LEU:H	0.593
1	C:185:ILE:H	C:209:GLU:HB3	0.593
1	C:243:ALA:CB	C:288:ILE:HD11	0.593
1	F:21:LEU:HB2	F:37:TRP:HH2	0.593
1	A:151:CYS:O	A:154:ASN:HB2	0.592
1	A:404:ILE:HG12	A:405:GLN:N	0.592
1	C:293:LYS:CA	C:293:LYS:HE3	0.592
1	C:334:VAL:O	C:338:LYS:HD3	0.592
1	D:212:ASP:OD2	D:215:GLU:HB2	0.592
1	E:43:ALA:HA	E:49:PRO:HB2	0.592
1	A:239:GLU:HG3	A:240:GLN:N	0.591
1	C:45:LEU:HD23	C:223:ASP:OD1	0.591
1	C:181:LYS:HA	C:187:GLN:CA	0.591
1	C:212:PHE:CE2	C:372:ILE:HD13	0.591
1	E:13:ARG:O	E:16:VAL:HG22	0.591
1	F:115:THR:HA	F:119:ARG:NH2	0.591
1	A:308:VAL:HG23	C:388:LEU:CD1	0.590

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:88:LYS:HG3	C:226:ALA:HB3	0.590
1	C:98:ASN:HB2	C:99:LEU:HD23	0.590
1	C:99:LEU:HD22	C:178:PHE:HB2	0.590
1	C:183:ASP:HB3	C:211:LYS:CD	0.590
1	C:214:VAL:HG12	C:215:ASP:N	0.590
1	C:249:ALA:HB1	C:305:LYS:CG	0.590
1	C:280:LYS:HB3	C:286:SER:O	0.590
1	A:161:PHE:CZ	A:165:ILE:HD11	0.589
1	A:400:GLU:HG2	C:351:ALA:O	0.589
1	A:413:LEU:HD12	D:295:ASN:CG	0.589
1	C:46:LEU:HD12	C:58:LYS:NZ	0.589
1	C:60:MET:N	C:82:SER:HB3	0.589
1	C:180:ASP:HB2	C:189:ASP:CB	0.589
1	C:184:VAL:HG11	C:221:MET:O	0.589
1	D:63:TRP:HA	D:70:LEU:HD23	0.589
1	E:16:VAL:HG23	E:17:GLU:N	0.589
1	C:183:ASP:H	C:211:LYS:H	0.589
1	A:113:SER:HB3	B:13:TYR:CZ	0.588
1	C:52:GLY:CA	C:186:LYS:HG3	0.588
1	C:60:MET:O	C:226:ALA:HB2	0.588
1	C:389:ARG:HG2	C:389:ARG:O	0.588
1	D:54:HIS:HB2	D:334:SER:OG	0.588
1	E:37:LEU:O	E:37:LEU:HD23	0.588

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	F:30:PHE:CD2	F:75:ASN:HB2	0.588
1	A:275:THR:OG1	B:11:SER:HB3	0.587
1	C:102:ALA:CB	C:195:GLN:HB2	0.587
1	C:177:TYR:O	C:181:LYS:HB2	0.587
1	C:177:TYR:O	C:188:ALA:HA	0.587
1	C:266:LEU:O	C:266:LEU:HD13	0.587
1	E:9:ILE:O	E:12:ALA:HB3	0.587
1	F:62:THR:HG22	F:65:VAL:CG2	0.587
1	D:191:SER:HG	D:234:PHE:HD2	0.587
1	A:13:VAL:HG13	A:14:GLN:N	0.586
1	C:57:VAL:HB	C:59:GLN:CA	0.586
1	C:171:LEU:HB3	C:195:GLN:CD	0.586
1	C:184:VAL:HB	C:209:GLU:CA	0.586
1	F:99:ARG:HG2	F:100:CYS:N	0.586
1	D:145:TYR:HD1	D:146:LEU:N	0.586
1	A:122:TYR:O	A:126:THR:HG22	0.585
1	C:56:ILE:HA	C:178:PHE:CE1	0.585
1	C:151:LYS:HA	C:200:CYS:CB	0.585
1	C:289:LEU:HD21	C:361:PRO:HG3	0.585
1	D:69:LEU:N	D:69:LEU:HD13	0.585
1	D:49:ARG:O	D:338:ILE:HG23	0.585
1	A:33:PRO:HG3	A:38:PHE:CD2	0.584
1	A:185:ALA:HB1	A:194:LEU:CD1	0.584

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:244:ILE:HG12	C:286:SER:C	0.584
1	C:282:LEU:C	C:282:LEU:CB	0.584
1	D:177:THR:HG23	D:178:THR:N	0.584
1	D:229:ILE:HG13	D:243:THR:HB	0.584
1	A:415:CYS:O	D:296:VAL:HB	0.584
1	D:40:VAL:H	D:306:GLY:CA	0.584
1	C:187:GLN:O	C:210:THR:HB	0.583
1	C:250:SER:O	C:308:ILE:HB	0.583
1	F:49:VAL:HG11	F:69:PHE:CZ	0.583
1	F:71:ILE:H	F:71:ILE:HD13	0.583
1	A:322:ILE:O	A:325:ARG:HB2	0.582
1	C:11:ASP:C	C:15:GLU:HB2	0.582
1	C:201:ARG:CB	C:201:ARG:CZ	0.582
1	C:23:ASN:ND2	D:89:LYS:HD3	0.582
1	D:152:LEU:HG	D:192:LEU:HD11	0.582
1	E:13:ARG:HD3	E:13:ARG:O	0.582
1	F:99:ARG:O	F:101:PRO:HD3	0.582
1	A:205:LEU:C	A:205:LEU:HD23	0.581
1	A:316:LEU:HB3	C:360:TYR:O	0.581
1	C:55:THR:HG23	C:56:ILE:N	0.581
1	C:52:GLY:O	C:95:ILE:HD13	0.581
1	C:182:ILE:HG12	C:183:ASP:CA	0.581
1	C:187:GLN:HB3	C:208:PHE:CE1	0.581

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:180:ASP:OD1	C:212:PHE:HB2	0.581
1	C:260:ASP:CA	C:264:ASN:HA	0.581
1	C:280:LYS:HE3	C:284:ASP:OD2	0.581
1	D:4:LEU:HD11	D:8:ARG:HG3	0.581
1	D:67:SER:O	D:68:ARG:HB3	0.581
1	C:233:LYS:NZ	D:147:SER:HB2	0.581
1	D:229:ILE:CD1	D:243:THR:HB	0.581
1	E:54:VAL:HG23	E:55:PRO:HD2	0.581
1	D:292:PHE:HD2	D:293:ASN:HD22	0.581
1	C:74:GLU:HG2	C:302:LEU:HD23	0.580
1	C:208:PHE:CD1	C:223:ASP:N	0.580
1	C:211:LYS:HG3	C:219:PHE:O	0.580
1	A:185:ALA:CB	A:194:LEU:HD11	0.579
1	A:348:MET:O	A:360:LYS:HD2	0.579
1	C:53:LYS:O	C:91:LYS:HG2	0.579
1	C:147:TYR:HB2	C:202:VAL:HG12	0.579
1	C:179:LEU:HD22	C:197:LEU:CA	0.579
1	D:4:LEU:C	D:4:LEU:HD13	0.579
1	D:241:PHE:CE1	D:255:LEU:HD21	0.579
1	F:13:VAL:HG12	F:14:GLN:O	0.579
1	F:96:TYR:HH	F:111:VAL:HG12	0.579
1	A:415:CYS:H	D:307:VAL:N	0.579
1	A:343:ILE:HG12	A:348:MET:SD	0.578

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:415:CYS:CB	A:416:PRO:HD3	0.578
1	C:48:ALA:HA	C:234:TRP:CE2	0.578
1	C:187:GLN:HB3	C:210:THR:HG22	0.578
1	C:184:VAL:HG22	C:220:HIS:CB	0.577
1	D:9:GLN:O	D:12:GLU:HB3	0.577
1	D:38:ASP:HB3	D:266:HIS:CD2	0.577
1	D:269:ILE:HD12	D:289:TYR:CZ	0.577
1	A:33:PRO:HG2	A:38:PHE:CZ	0.576
1	C:56:ILE:HD13	C:174:CYS:HB3	0.576
1	C:127:ARG:NH1	C:149:HIS:HA	0.576
1	C:182:ILE:HG23	C:183:ASP:N	0.576
1	C:271:LYS:HA	C:274:ASP:OD1	0.576
1	D:66:ASP:CG	E:56:ALA:HA	0.576
1	D:117:LEU:HD11	D:145:TYR:CE1	0.576
1	D:233:CYS:HB3	D:278:PHE:CE1	0.576
1	A:413:LEU:CB	D:291:ASP:HB2	0.575
1	C:1:MET:HB3	D:94:PRO:HD3	0.575
1	C:95:ILE:HG21	C:205:SER:O	0.575
1	C:142:PHE:CG	C:203:LEU:CB	0.575
1	C:297:LEU:HB3	C:368:ASP:OD2	0.575
1	D:101:MET:HE3	D:147:SER:HB2	0.575
1	D:164:THR:HG21	D:184:THR:HA	0.575
1	D:225:HIS:CE1	D:247:ASP:HB3	0.575

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:218:TYR:O	A:219:TYR:HB2	0.574
1	A:305:ILE:HG23	A:306:CYS:N	0.574
1	C:8:LYS:HG3	C:9:THR:N	0.574
1	C:15:GLU:O	C:19:GLN:HG2	0.574
1	C:61:ARG:O	C:82:SER:HB2	0.574
1	F:38:VAL:HG11	F:111:VAL:HG11	0.574
1	F:65:VAL:O	F:65:VAL:HG23	0.574
1	A:406:ARG:HD3	D:270:ILE:HB	0.573
1	A:411:LYS:CG	A:412:PRO:HD3	0.573
1	A:45:GLU:OE1	B:26:LEU:HG	0.573
1	C:45:LEU:CD1	C:293:LYS:HB3	0.573
1	C:50:GLU:HG2	D:99:TRP:N	0.573
1	C:178:PHE:C	C:201:ARG:HH12	0.573
1	C:234:TRP:HZ3	D:99:TRP:CD1	0.573
1	D:111:TYR:OH	D:171:ILE:HG13	0.573
1	A:174:LYS:HB2	A:210:MET:SD	0.572
1	A:392:LYS:HD2	A:407:ASP:OD2	0.572
1	A:412:PRO:C	D:291:ASP:HB2	0.572
1	A:416:PRO:HG2	D:42:ARG:H	0.572
1	C:92:VAL:HG22	C:206:GLY:HA2	0.572
1	C:110:MET:HG2	C:110:MET:O	0.572
1	D:77:GLY:C	D:95:LEU:HD12	0.572
1	D:126:LEU:N	D:133:VAL:HG21	0.572

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:252:LEU:C	D:252:LEU:HD13	0.572
1	E:48:ASP:CG	E:49:PRO:HA	0.572
1	F:12:LEU:N	F:12:LEU:HD22	0.572
1	A:299:LEU:O	A:299:LEU:HD22	0.571
1	C:96:LYS:O	C:100:LYS:HG2	0.571
1	C:143:PRO:HD2	C:146:PHE:CD1	0.571
1	C:184:VAL:HG21	C:221:MET:O	0.571
1	D:117:LEU:HD11	D:145:TYR:CE2	0.571
1	D:222:PHE:CZ	D:260:GLU:HB2	0.571
1	E:71:LEU:C	E:71:LEU:HD13	0.571
1	A:288:LEU:HB3	A:289:PRO:CD	0.570
1	D:190:LEU:HD21	D:199:PHE:CG	0.570
1	F:38:VAL:HG12	F:39:ARG:N	0.570
1	C:201:ARG:HE	C:202:VAL:N	0.570
1	A:47:ALA:HB3	A:98:ARG:NH1	0.569
1	C:11:ASP:O	C:15:GLU:HB2	0.569
1	C:45:LEU:HB3	C:223:ASP:OD1	0.569
1	C:62:ILE:HB	C:88:LYS:HD3	0.569
1	C:96:LYS:CB	C:204:THR:HG22	0.569
1	C:103:ILE:HA	C:199:ARG:CA	0.569
1	C:127:ARG:HH11	C:149:HIS:HA	0.569
1	C:163:TYR:CB	C:196:ASP:HB3	0.569
1	C:183:ASP:HB3	C:211:LYS:HD3	0.569

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:52:GLY:H	C:207:ILE:CA	0.569
1	D:63:TRP:CD1	D:321:THR:HG22	0.569
1	D:102:THR:HG21	D:148:CYS:SG	0.569
1	D:311:HIS:CD2	D:313:ASN:H	0.569
1	D:223:THR:OG1	F:2:GLN:HG2	0.569
1	D:311:HIS:HD2	D:313:ASN:H	0.569
1	A:216:ALA:HB1	A:220:TRP:CZ3	0.568
1	A:279:ASN:HB2	A:282:TYR:CD1	0.568
1	A:275:THR:O	B:8:SER:HB3	0.568
1	C:92:VAL:HG22	C:206:GLY:C	0.568
1	C:183:ASP:HB3	C:211:LYS:HB2	0.568
1	C:304:GLY:O	C:305:LYS:HD2	0.568
1	D:115:GLY:CA	D:146:LEU:HD22	0.568
1	D:217:MET:HG2	D:218:CYS:N	0.568
1	F:14:GLN:HB3	F:15:PRO:CD	0.568
1	C:201:ARG:HH21	C:202:VAL:H	0.568
1	C:142:PHE:HD1	C:204:THR:HG1	0.568
1	A:1:ARG:C	A:1:ARG:HD3	0.567
1	A:311:LYS:HD3	A:311:LYS:O	0.567
1	C:45:LEU:HG	C:46:LEU:HG	0.567
1	C:52:GLY:C	C:95:ILE:HD13	0.567
1	C:56:ILE:HG22	C:85:ASP:H	0.567
1	C:177:TYR:CG	C:178:PHE:CE1	0.567

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:55:THR:OG1	C:181:LYS:HE2	0.567
1	C:182:ILE:CG1	C:183:ASP:HB2	0.567
1	C:187:GLN:HB2	C:208:PHE:CD2	0.567
1	C:221:MET:HE1	C:245:ILE:HB	0.567
1	D:245:SER:H	D:273:ILE:HG13	0.567
1	D:292:PHE:O	D:315:VAL:HG13	0.567
1	C:58:LYS:HB2	C:208:PHE:HD2	0.567
1	C:14:ASN:H	C:14:ASN:HD22	0.567
1	A:195:LEU:C	A:195:LEU:HD23	0.566
1	C:207:ILE:O	C:207:ILE:HG23	0.566
1	C:47:GLY:CA	C:224:VAL:CA	0.566
1	C:281:TRP:CZ2	C:345:PHE:CD1	0.566
1	D:14:LEU:CB	E:19:LEU:HD11	0.566
1	C:233:LYS:HZ3	D:147:SER:HB2	0.566
1	D:172:GLU:HA	D:172:GLU:OE1	0.566
1	D:278:PHE:CD2	D:285:LEU:HD22	0.566
1	F:9:GLY:O	F:123:THR:HG21	0.566
1	A:222:LEU:HD23	A:297:ASN:ND2	0.565
1	A:316:LEU:HD12	C:360:TYR:O	0.565
1	C:99:LEU:HD22	C:178:PHE:CB	0.565
1	C:177:TYR:CD1	C:178:PHE:CD1	0.565
1	C:182:ILE:HB	C:201:ARG:HA	0.565
1	D:199:PHE:CE2	D:211:TRP:CD1	0.565

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:88:LYS:HB2	D:143:THR:CB	0.564
1	C:96:LYS:HE2	C:140:PHE:HD2	0.564
1	C:181:LYS:HG3	C:201:ARG:HH22	0.564
1	C:273:PHE:CZ	F:47:GLU:HA	0.564
1	D:54:HIS:NE2	D:80:ILE:HB	0.564
1	D:240:ALA:HB1	D:253:PHE:O	0.564
1	E:33:ALA:HA	E:36:ASP:OD1	0.564
1	F:40:GLN:HB2	F:46:LEU:HG	0.564
1	F:15:PRO:O	F:87:LEU:HD13	0.564
1	A:261:TRP:CZ2	A:265:LYS:HG2	0.563
1	C:48:ALA:HB1	D:117:LEU:CD2	0.563
1	C:103:ILE:HG22	C:107:VAL:H	0.563
1	C:175:ALA:HA	C:198:LEU:CD2	0.563
1	C:182:ILE:HA	C:201:ARG:HA	0.563
1	C:184:VAL:O	C:202:VAL:HG22	0.563
1	C:202:VAL:HG23	C:203:LEU:N	0.563
1	C:209:GLU:HA	C:222:PHE:HA	0.563
1	C:284:ASP:C	C:285:THR:HG22	0.563
1	D:39:PRO:CA	D:304:ARG:HB3	0.563
1	D:329:THR:O	D:329:THR:HG23	0.563
1	F:71:ILE:CD1	F:71:ILE:H	0.563
1	A:221:LEU:HD21	A:337:LEU:CA	0.562
1	C:221:MET:CE	C:245:ILE:HD12	0.562

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:378:ASP:O	C:381:ASP:HB2	0.562
1	D:37:ILE:HG21	D:302:ALA:O	0.562
1	D:57:LYS:HB3	D:332:TRP:CD1	0.562
1	D:57:LYS:HD3	D:75:GLN:OE1	0.562
1	D:99:TRP:CZ2	D:101:MET:HA	0.562
1	F:30:PHE:HD2	F:75:ASN:HB2	0.562
1	A:49:TRP:CZ2	A:58:VAL:HB	0.561
1	A:41:ARG:HE	A:50:PRO:HA	0.561
1	A:88:LEU:O	A:88:LEU:HD12	0.561
1	A:311:LYS:HE3	C:385:ARG:NH1	0.561
1	A:334:ILE:HG22	A:337:LEU:HB3	0.561
1	A:414:LYS:HD2	D:307:VAL:HB	0.561
1	C:45:LEU:HD22	C:293:LYS:HG2	0.561
1	C:95:ILE:HG13	C:186:LYS:CE	0.561
1	D:295:ASN:HD22	D:304:ARG:NE	0.561
1	A:162:ALA:O	A:166:LEU:HD23	0.560
1	A:189:HIS:CD2	B:25:TRP:CE2	0.560
1	A:414:LYS:C	D:308:LEU:H	0.560
1	C:95:ILE:O	C:99:LEU:HG	0.560
1	C:171:LEU:N	C:171:LEU:HD13	0.560
1	C:186:LYS:CD	C:203:LEU:HA	0.560
1	C:266:LEU:HD21	F:113:SER:OG	0.560
1	C:313:PRO:HG3	F:63:GLY:O	0.560

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:394:LEU:HD22	D:311:HIS:O	0.560
1	D:22:ARG:O	D:25:CYS:HB2	0.560
1	F:59:ILE:HG21	F:61:TYR:CE1	0.560
1	F:103:PRO:O	F:105:THR:HG22	0.560
1	A:9:LEU:C	A:9:LEU:HD23	0.559
1	A:121:LEU:HA	A:124:ILE:CG2	0.559
1	A:302:VAL:O	A:305:ILE:HG22	0.559
1	A:416:PRO:HD2	D:307:VAL:O	0.559
1	C:162:CYS:O	C:163:TYR:HB3	0.559
1	C:176:GLN:CA	C:179:LEU:HD11	0.559
1	D:123:ILE:CD1	D:171:ILE:HG21	0.559
1	A:138:ILE:O	A:142:ILE:HG13	0.558
1	C:4:LEU:HD12	C:5:GLY:N	0.558
1	C:273:PHE:HB3	F:111:VAL:CG2	0.558
1	C:279:ASN:CB	C:282:LEU:H	0.558
1	C:45:LEU:O	C:285:THR:HG21	0.558
1	D:1:MET:HG3	D:2:SER:N	0.558
1	E:15:LEU:CD1	E:16:VAL:HG13	0.558
1	C:88:LYS:N	C:91:LYS:HZ1	0.558
1	C:182:ILE:CB	C:201:ARG:CA	0.557
1	F:37:TRP:HD1	F:49:VAL:HG21	0.557
1	D:180:PHE:HD1	D:211:TRP:HZ3	0.557
1	A:251:TRP:O	A:254:PRO:HD2	0.556

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:315:ASN:O	A:318:CYS:HB2	0.556
1	C:60:MET:C	C:82:SER:HB2	0.556
1	C:184:VAL:HB	C:209:GLU:C	0.556
1	C:209:GLU:HG2	C:222:PHE:CB	0.556
1	C:253:TYR:O	C:256:VAL:HG22	0.556
1	C:249:ALA:O	C:305:LYS:HD3	0.556
1	D:204:CYS:HA	D:228:ASP:CG	0.556
1	F:68:ARG:HG2	F:68:ARG:O	0.556
1	A:365:LEU:HD21	B:3:GLU:HB2	0.555
1	C:53:LYS:CA	C:55:THR:H	0.555
1	C:187:GLN:C	C:187:GLN:CB	0.555
1	C:246:PHE:CZ	C:281:TRP:CZ2	0.555
1	C:281:TRP:CA	C:287:VAL:HG12	0.555
1	A:47:ALA:HB3	A:98:ARG:HH12	0.554
1	A:190:GLN:HE22	A:193:GLY:HA3	0.554
1	A:231:LEU:C	A:231:LEU:HD23	0.554
1	A:343:ILE:CD1	A:348:MET:HE3	0.554
1	A:364:GLU:HG3	A:365:LEU:N	0.554
1	C:185:ILE:CB	C:205:SER:CB	0.554
1	C:360:TYR:HB3	C:361:PRO:CA	0.554
1	D:54:HIS:O	D:334:SER:HB3	0.554
1	C:30:LEU:O	C:34:LYS:HG2	0.553
1	C:176:GLN:HG2	C:179:LEU:CD1	0.553

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:179:LEU:HD12	C:189:ASP:CA	0.553
1	C:46:LEU:O	C:223:ASP:HA	0.553
1	C:250:SER:HA	C:307:LYS:CA	0.553
1	A:411:LYS:O	D:291:ASP:HA	0.553
1	A:344:PHE:HE1	A:360:LYS:HZ3	0.553
1	A:66:LEU:N	A:66:LEU:HD13	0.552
1	C:150:ALA:CB	C:199:ARG:HG3	0.552
1	C:207:ILE:CG2	C:225:GLY:HA3	0.552
1	C:229:ASP:O	C:231:ARG:HG3	0.552
1	C:279:ASN:O	C:283:ARG:HB2	0.552
1	A:400:GLU:OE1	C:353:GLY:HA3	0.552
1	D:75:GLN:HB2	D:99:TRP:CE3	0.552
1	D:293:ASN:OD1	D:309:ALA:HB2	0.552
1	F:89:PRO:HA	F:92:THR:HG22	0.552
1	A:123:ILE:O	A:123:ILE:HG23	0.551
1	C:54:ASN:HB2	C:207:ILE:HB	0.551
1	C:97:ASN:OD1	C:100:LYS:HE2	0.551
1	C:151:LYS:C	C:200:CYS:HB2	0.551
1	D:233:CYS:HG	D:278:PHE:HD1	0.551
1	C:181:LYS:CA	C:187:GLN:H	0.551
1	A:91:ASP:HB2	A:94:SER:OG	0.550
1	A:304:VAL:O	A:307:ILE:HG22	0.550
1	C:119:LEU:HD13	C:159:VAL:N	0.550

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:180:ASP:HB3	C:188:ALA:O	0.550
1	C:252:SER:CB	C:256:VAL:HG13	0.550
1	C:354:ASP:OD1	C:356:ARG:HG3	0.550
1	C:367:VAL:HG12	C:368:ASP:N	0.550
1	D:61:MET:HE1	D:319:GLY:HA3	0.550
1	C:229:ASP:OD2	F:112:THR:HG22	0.550
1	A:174:LYS:HB2	A:210:MET:HE2	0.549
1	C:54:ASN:CA	C:59:GLN:CG	0.549
1	C:186:LYS:C	C:186:LYS:HB2	0.549
1	C:244:ILE:HG21	C:286:SER:CA	0.549
1	C:260:ASP:HA	C:263:THR:O	0.549
1	C:294:GLN:HG3	C:304:GLY:C	0.549
1	D:212:ASP:HB3	D:215:GLU:O	0.549
1	F:73:ARG:CB	F:80:LEU:HD13	0.549
1	A:232:LEU:HD23	C:387:HIS:NE2	0.548
1	C:53:LYS:NZ	C:86:GLY:HA3	0.548
1	C:179:LEU:HB3	C:197:LEU:CB	0.548
1	C:52:GLY:H	C:207:ILE:HA	0.548
1	C:208:PHE:CD1	C:209:GLU:N	0.548
1	C:281:TRP:HZ2	C:345:PHE:CG	0.548
1	D:58:ILE:HG22	D:334:SER:HA	0.548
1	C:48:ALA:N	C:222:PHE:HZ	0.548
1	A:257:PHE:O	A:260:PRO:HD2	0.547

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:8:LYS:HB3	C:8:LYS:NZ	0.547
1	C:49:GLY:C	C:50:GLU:C	0.547
1	C:65:VAL:HG12	C:66:ASN:N	0.547
1	C:187:GLN:NE2	C:210:THR:HG21	0.547
1	C:240:ASP:HB2	D:57:LYS:NZ	0.547
1	C:393:LEU:N	C:393:LEU:HD12	0.547
1	D:38:ASP:HB3	D:266:HIS:NE2	0.547
1	D:126:LEU:H	D:133:VAL:HG21	0.547
1	D:232:ILE:CG1	D:243:THR:HG22	0.547
1	D:325:MET:CE	E:53:PRO:HA	0.547
1	C:52:GLY:N	C:207:ILE:H	0.547
1	A:275:THR:HG23	A:276:ARG:H	0.546
1	A:413:LEU:CD1	D:295:ASN:HD21	0.546
1	C:74:GLU:HB3	C:298:ALA:CB	0.546
1	C:91:LYS:HB2	C:91:LYS:HZZ	0.546
1	C:99:LEU:CA	C:198:LEU:CD1	0.546
1	C:178:PHE:CB	C:181:LYS:HG2	0.546
1	D:229:ILE:HD11	D:243:THR:HG21	0.546
1	F:28:PHE:CD2	F:33:TYR:CD2	0.546
1	A:185:ALA:HB1	A:190:GLN:OE1	0.545
1	C:42:ARG:C	C:43:LEU:HD12	0.545
1	C:60:MET:HG2	C:61:ARG:N	0.545
1	C:88:LYS:HB2	D:143:THR:CA	0.545

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:119:LEU:HD23	C:124:ASN:CG	0.545
1	C:126:PHE:CZ	C:130:TYR:CZ	0.545
1	C:176:GLN:HG2	C:189:ASP:N	0.545
1	C:185:ILE:HG13	D:97:SER:HB3	0.545
1	C:386:MET:HE1	C:392:GLU:CD	0.545
1	D:241:PHE:C	D:252:LEU:HD22	0.545
1	D:280:LYS:CG	D:324:GLY:HA3	0.545
1	D:325:MET:HE1	E:53:PRO:CB	0.545
1	E:44:HIS:CD2	E:50:LEU:HD11	0.545
1	F:11:GLY:H	F:125:VAL:HG22	0.545
1	D:183:HIS:HE1	D:205:ASP:H	0.545
1	A:27:LEU:C	A:27:LEU:HD13	0.544
1	A:125:TYR:CE1	A:365:LEU:HD23	0.544
1	A:133:PHE:O	A:137:VAL:HG23	0.544
1	C:53:LYS:CA	C:55:THR:HB	0.544
1	C:87:GLU:C	C:91:LYS:HB2	0.544
1	C:92:VAL:CB	C:206:GLY:HA2	0.544
1	C:92:VAL:HG13	C:205:SER:CA	0.544
1	C:106:ILE:HB	C:196:ASP:CB	0.544
1	C:178:PHE:CA	C:181:LYS:HG2	0.544
1	C:180:ASP:O	C:182:ILE:HG22	0.544
1	C:383:ILE:HG23	C:384:GLN:N	0.544
1	D:64:GLY:HA2	D:105:TYR:CD2	0.544

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:190:GLN:NE2	A:193:GLY:HA3	0.543
1	A:336:LEU:HB2	A:375:VAL:HG21	0.543
1	A:332:THR:OG1	A:378:LEU:HD11	0.543
1	B:3:GLU:CD	B:6:PHE:HB3	0.543
1	C:15:GLU:HG2	C:19:GLN:CG	0.543
1	C:117:VAL:HG13	C:118:GLU:N	0.543
1	C:160:ARG:O	C:164:GLU:HG2	0.543
1	C:294:GLN:CA	C:305:LYS:HG3	0.543
1	A:243:PHE:O	A:246:TYR:HB3	0.542
1	C:58:LYS:HE2	C:293:LYS:O	0.542
1	C:58:LYS:HE3	C:294:GLN:O	0.542
1	C:52:GLY:N	C:205:SER:C	0.542
1	C:257:ILE:HG22	C:258:ARG:O	0.542
1	D:61:MET:CG	D:70:LEU:HD21	0.542
1	D:266:HIS:CD2	D:268:ASN:H	0.542
1	C:154:TRP:CG	C:155:GLU:N	0.542
1	A:39:CYS:HB2	A:81:CYS:SG	0.541
1	A:83:ALA:O	A:84:GLU:HB2	0.541
1	A:219:TYR:OH	A:289:PRO:HB2	0.541
1	A:373:LEU:O	A:373:LEU:HD22	0.541
1	C:51:SER:HB3	C:207:ILE:HG23	0.541
1	C:58:LYS:HB2	C:223:ASP:HB3	0.541
1	C:186:LYS:H22	C:203:LEU:HD13	0.541

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:211:LYS:HD2	C:220:HIS:CE1	0.541
1	C:256:VAL:HB	C:307:LYS:HD3	0.541
1	C:321:PRO:HD3	C:339:TYR:CD2	0.541
1	D:111:TYR:OH	D:123:ILE:HD13	0.541
1	A:64:TRP:O	A:65:TYR:HB3	0.540
1	C:74:GLU:CB	C:301:VAL:HG12	0.540
1	C:102:ALA:CB	C:198:LEU:HB3	0.540
1	C:238:PHE:CE2	C:244:ILE:HG23	0.540
1	C:265:ARG:HA	C:267:GLN:HE22	0.540
1	C:277:TRP:CZ2	F:48:TRP:HB3	0.540
1	C:279:ASN:HB3	C:282:LEU:H	0.540
1	D:96:ARG:HG2	D:97:SER:H	0.540
1	F:10:GLY:CA	F:125:VAL:HG22	0.540
1	F:101:PRO:CG	F:116:TYR:HE2	0.540
1	A:229:TYR:O	A:232:LEU:HB3	0.539
1	A:325:ARG:O	A:326:LEU:HB3	0.539
1	D:244:GLY:HA2	D:273:ILE:HD11	0.539
1	E:37:LEU:C	E:37:LEU:HD23	0.539
1	F:70:THR:O	F:82:LEU:HD12	0.539
1	C:146:PHE:HD2	C:149:HIS:HE2	0.539
1	D:293:ASN:N	D:293:ASN:HD22	0.539
1	A:297:ASN:O	A:300:ILE:HG12	0.538
1	C:57:VAL:HA	C:295:ASP:OD2	0.538

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:78:GLN:HG2	C:79:ALA:N	0.538
1	C:93:GLN:H	C:95:ILE:CG2	0.538
1	C:129:ASP:OD1	C:132:LEU:HD12	0.538
1	C:185:ILE:N	C:209:GLU:CB	0.538
1	D:221:THR:HG22	E:22:GLU:OE1	0.538
1	F:44:LYS:HG2	F:45:GLY:N	0.538
1	A:205:LEU:O	A:205:LEU:HD23	0.537
1	A:283:TRP:CD1	A:284:LEU:H	0.537
1	A:374:MET:HA	A:377:ILE:HG22	0.537
1	A:404:ILE:CG1	A:405:GLN:H	0.537
1	A:275:THR:OG1	B:8:SER:HA	0.537
1	C:49:GLY:CA	D:117:LEU:N	0.537
1	C:124:ASN:HB3	C:156:ASP:OD1	0.537
1	C:104:GLU:OE1	C:135:MET:HA	0.537
1	C:183:ASP:CB	C:202:VAL:HG13	0.537
1	D:221:THR:HG22	E:22:GLU:CD	0.537
1	A:415:CYS:N	D:307:VAL:CA	0.537
1	D:308:LEU:HG	D:308:LEU:O	0.537
1	F:16:GLY:O	F:86:SER:HA	0.537
1	A:53:GLU:HB3	A:54:PRO:CD	0.536
1	A:209:LEU:O	A:209:LEU:HD22	0.536
1	C:51:SER:HB2	C:207:ILE:O	0.536
1	C:53:LYS:CA	C:55:THR:N	0.536

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:184:VAL:C	C:209:GLU:HB3	0.536
1	C:52:GLY:N	C:207:ILE:CA	0.536
1	C:59:GLN:N	C:225:GLY:HA2	0.536
1	C:252:SER:HB2	C:256:VAL:CG2	0.536
1	C:280:LYS:HG2	C:283:ARG:O	0.536
1	C:289:LEU:HG	C:361:PRO:HB3	0.536
1	C:360:TYR:CD2	C:362:HIS:HB2	0.536
1	D:93:ILE:HG12	D:124:TYR:CE1	0.536
1	D:225:HIS:CD2	D:227:SER:N	0.536
1	F:33:TYR:CE1	F:35:MET:HE2	0.536
1	F:37:TRP:CZ2	F:95:TYR:CD2	0.536
1	A:72:VAL:O	A:72:VAL:HG13	0.535
1	A:123:ILE:O	A:124:ILE:HG22	0.535
1	A:173:ILE:HG23	A:174:LYS:N	0.535
1	C:54:ASN:HA	C:59:GLN:HG2	0.535
1	C:86:GLY:O	C:91:LYS:HE3	0.535
1	C:177:TYR:C	C:188:ALA:HA	0.535
1	C:150:ALA:O	C:200:CYS:HA	0.535
1	D:28:ALA:C	D:29:THR:HG22	0.535
1	D:222:PHE:CD1	D:253:PHE:CE1	0.535
1	F:38:VAL:HG11	F:96:TYR:OH	0.535
1	C:221:MET:SD	C:245:ILE:HD12	0.534
1	D:71:VAL:CG2	D:105:TYR:HB2	0.534

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:210:LEU:HB3	D:219:ARG:O	0.534
1	C:52:GLY:H	C:207:ILE:H	0.534
1	A:283:TRP:O	A:284:LEU:HB2	0.533
1	C:54:ASN:CB	C:207:ILE:HB	0.533
1	C:179:LEU:HD23	C:198:LEU:CB	0.533
1	C:186:LYS:H	C:209:GLU:HB2	0.533
1	C:280:LYS:CG	C:284:ASP:HB3	0.533
1	C:289:LEU:CD2	C:361:PRO:HG3	0.533
1	C:177:TYR:OH	C:295:ASP:HB2	0.533
1	D:192:LEU:HD21	D:196:THR:HA	0.533
1	A:323:LYS:C	A:325:ARG:H	0.532
1	A:329:SER:O	A:333:LEU:HD13	0.532
1	C:53:LYS:HD3	C:55:THR:HG22	0.532
1	C:89:ALA:HB2	D:142:HIS:O	0.532
1	C:113:LEU:N	C:113:LEU:HD23	0.532
1	C:185:ILE:CB	C:205:SER:HB2	0.532
1	C:186:LYS:HD3	C:202:VAL:C	0.532
1	C:210:THR:HG23	C:221:MET:HB2	0.532
1	C:278:ASN:HB2	C:283:ARG:HB2	0.532
1	C:47:GLY:N	C:285:THR:HB	0.532
1	C:346:LEU:C	C:346:LEU:HD13	0.532
1	D:61:MET:HE1	D:319:GLY:CA	0.532
1	D:289:TYR:C	D:291:ASP:H	0.532

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:220:TRP:HH2	A:251:TRP:HE3	0.532
1	A:54:PRO:O	A:81:CYS:HB3	0.531
1	A:257:PHE:CE2	A:289:PRO:HG3	0.531
1	C:131:ILE:HD11	C:199:ARG:HD2	0.531
1	C:342:ARG:HG2	C:342:ARG:O	0.531
1	D:39:PRO:HB3	D:304:ARG:HH11	0.531
1	D:77:GLY:HA2	D:95:LEU:HD12	0.531
1	D:222:PHE:CE2	D:251:ARG:HD2	0.531
1	E:9:ILE:HG23	E:10:ALA:N	0.531
1	D:66:ASP:OD2	E:56:ALA:HA	0.531
1	F:33:TYR:CZ	F:99:ARG:CB	0.531
1	A:264:VAL:HG13	A:268:TYR:CD2	0.530
1	C:176:GLN:HB3	C:193:SER:CB	0.530
1	C:280:LYS:HA	C:283:ARG:C	0.530
1	C:280:LYS:HE3	C:284:ASP:CG	0.530
1	D:292:PHE:CE2	D:311:HIS:N	0.530
1	D:311:HIS:CD2	D:312:ASP:N	0.530
1	E:49:PRO:O	E:50:LEU:HB3	0.530
1	F:92:THR:CG2	F:127:VAL:HG23	0.530
1	C:143:PRO:CG	C:146:PHE:HD1	0.530
1	A:234:PHE:CD2	A:235:SER:N	0.529
1	A:265:LYS:HG2	A:274:TRP:CZ2	0.529
1	A:224:GLU:OE2	A:336:LEU:HD21	0.529

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:54:ASN:ND2	C:59:GLN:HG3	0.529
1	C:74:GLU:CG	C:302:LEU:HD23	0.529
1	C:113:LEU:HD13	C:165:ARG:NE	0.529
1	C:177:TYR:HA	C:188:ALA:CB	0.529
1	C:208:PHE:CD2	C:223:ASP:CB	0.529
1	C:333:ARG:H	C:336:ARG:HG3	0.529
1	C:379:CYS:O	C:380:ARG:HB2	0.529
1	D:157:ILE:HG23	D:169:TRP:HB3	0.529
1	D:313:ASN:HB2	D:332:TRP:HB2	0.529
1	F:46:LEU:N	F:46:LEU:HD12	0.529
1	A:10:TRP:CD1	A:198:GLN:HE22	0.528
1	A:410:MET:HB3	D:314:ARG:NH1	0.528
1	C:40:THR:HG21	C:220:HIS:CD2	0.528
1	C:74:GLU:HB2	C:298:ALA:O	0.528
1	C:185:ILE:H	C:209:GLU:CB	0.528
1	C:224:VAL:HG13	C:227:GLN:CB	0.528
1	C:278:ASN:CG	C:283:ARG:HB2	0.528
1	C:362:HIS:CG	C:363:PHE:H	0.528
1	D:173:THR:O	D:173:THR:HG23	0.528
1	D:210:LEU:C	D:210:LEU:HD13	0.528
1	C:207:ILE:O	C:207:ILE:HG13	0.528
1	C:45:LEU:HD21	C:293:LYS:O	0.527
1	C:71:GLU:HG2	C:85:ASP:HA	0.527

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:180:ASP:HB2	C:189:ASP:CA	0.527
1	C:208:PHE:CG	C:223:ASP:CB	0.527
1	D:196:THR:CG2	D:197:ARG:H	0.527
1	D:222:PHE:CD1	D:253:PHE:CD1	0.527
1	A:414:LYS:N	D:293:ASN:HB2	0.527
1	E:70:ILE:O	E:70:ILE:HG23	0.527
1	F:10:GLY:HA2	F:125:VAL:CG2	0.527
1	A:333:LEU:H	A:333:LEU:HD13	0.526
1	A:339:THR:HG23	A:340:HIS:N	0.526
1	A:361:LEU:HD23	A:364:GLU:OE2	0.526
1	A:392:LYS:HB2	A:407:ASP:OD2	0.526
1	C:209:GLU:CG	C:222:PHE:CD1	0.526
1	C:270:LEU:CD1	F:113:SER:H	0.526
1	D:54:HIS:HE2	D:80:ILE:HB	0.526
1	D:152:LEU:HD21	D:192:LEU:HD11	0.526
1	C:37:TYR:HE1	C:42:ARG:NH2	0.526
1	D:314:ARG:HH21	D:332:TRP:HH2	0.526
1	A:72:VAL:O	A:72:VAL:HG22	0.525
1	A:119:LEU:C	A:119:LEU:HD13	0.525
1	A:419:SER:HB3	D:283:ARG:HG3	0.525
1	C:51:SER:HA	C:206:GLY:H	0.525
1	C:176:GLN:HG2	C:179:LEU:HD11	0.525
1	E:52:THR:HG23	E:53:PRO:CD	0.525

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	F:37:TRP:HE1	F:95:TYR:HB2	0.525
1	D:233:CYS:SG	D:278:PHE:HD1	0.525
1	A:66:LEU:HD22	A:69:ALA:HB2	0.524
1	A:74:GLN:HG2	A:74:GLN:O	0.524
1	C:59:GLN:C	C:82:SER:HA	0.524
1	C:175:ALA:HA	C:198:LEU:CB	0.524
1	C:184:VAL:HG22	C:220:HIS:HA	0.524
1	C:185:ILE:HG12	C:209:GLU:OE1	0.524
1	C:234:TRP:CH2	D:99:TRP:CG	0.524
1	C:249:ALA:CB	C:305:LYS:CB	0.524
1	C:284:ASP:O	C:285:THR:HG22	0.524
1	C:342:ARG:CD	C:361:PRO:HB2	0.524
1	D:284:LEU:HB3	D:296:VAL:CG1	0.524
1	D:284:LEU:HB3	D:296:VAL:HG11	0.524
1	E:63:GLU:HA	E:63:GLU:OE1	0.524
1	C:208:PHE:HD1	C:209:GLU:N	0.524
1	A:149:LEU:HD22	D:311:HIS:ND1	0.523
1	A:400:GLU:HG2	C:351:ALA:C	0.523
1	C:50:GLU:HB3	C:209:GLU:OE1	0.523
1	C:234:TRP:CZ2	C:237:CYS:SG	0.523
1	D:4:LEU:O	D:4:LEU:HD13	0.523
1	D:292:PHE:CD2	D:311:HIS:N	0.523
1	F:69:PHE:CE2	F:82:LEU:HD13	0.523

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:245:LEU:C	A:245:LEU:HD13	0.522
1	A:253:VAL:HG13	A:257:PHE:CE1	0.522
1	A:379:TYR:CA	A:382:VAL:HG22	0.522
1	C:87:GLU:HA	C:91:LYS:CE	0.522
1	D:71:VAL:HG21	D:105:TYR:CD1	0.522
1	D:161:SER:O	D:187:VAL:HG23	0.522
1	C:34:LYS:NZ	D:55:LEU:H	0.522
1	A:414:LYS:HD3	D:307:VAL:CG2	0.521
1	C:45:LEU:HD13	C:293:LYS:CB	0.521
1	C:59:GLN:CD	C:82:SER:HA	0.521
1	C:127:ARG:CB	C:153:LEU:HD21	0.521
1	C:159:VAL:HB	C:196:ASP:CG	0.521
1	C:175:ALA:CB	C:198:LEU:CB	0.521
1	C:198:LEU:C	C:198:LEU:HD13	0.521
1	C:237:CYS:SG	D:99:TRP:CE3	0.521
1	D:167:ALA:HB1	D:178:THR:O	0.521
1	F:30:PHE:CE1	F:80:LEU:HD21	0.521
1	F:101:PRO:HG2	F:116:TYR:OH	0.521
1	C:146:PHE:CD2	C:149:HIS:NE2	0.520
1	C:207:ILE:HD11	C:208:PHE:HB2	0.520
1	C:249:ALA:CB	C:292:ASN:HD22	0.520
1	C:390:GLN:HA	C:390:GLN:OE1	0.520
1	D:60:ALA:HA	D:317:CYS:SG	0.520

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:234:TRP:HH2	D:99:TRP:CG	0.520
1	C:201:ARG:NE	C:202:VAL:N	0.520
1	A:156:ILE:CG1	A:246:TYR:HE2	0.519
1	A:201:LEU:HD22	A:204:ARG:CG	0.519
1	A:307:ILE:HD11	C:384:GLN:CD	0.519
1	A:335:PRO:HB3	A:371:GLN:CD	0.519
1	C:45:LEU:HD22	C:293:LYS:HG3	0.519
1	C:45:LEU:HD23	C:58:LYS:CE	0.519
1	C:52:GLY:HA3	C:95:ILE:HG12	0.519
1	C:154:TRP:CD1	C:200:CYS:SG	0.519
1	C:186:LYS:NZ	C:203:LEU:HD13	0.519
1	C:279:ASN:HB3	C:281:TRP:CB	0.519
1	C:313:PRO:HG3	F:63:GLY:C	0.519
1	D:77:GLY:CA	D:95:LEU:HD12	0.519
1	D:83:ASP:HB3	D:86:THR:O	0.519
1	D:188:MET:HG2	D:188:MET:O	0.519
1	D:211:TRP:CD1	D:213:VAL:N	0.519
1	D:180:PHE:HD1	D:211:TRP:CZ3	0.519
1	D:212:ASP:O	D:213:VAL:HB	0.519
1	D:280:LYS:HD3	D:322:ASP:O	0.519
1	D:295:ASN:ND2	D:304:ARG:HD3	0.519
1	F:14:GLN:CB	F:15:PRO:HD2	0.519
1	A:71:SER:HB3	A:107:LYS:O	0.518

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:206:VAL:O	A:210:MET:HG3	0.518
1	A:390:PHE:HE2	A:394:TRP:CE3	0.518
1	C:51:SER:CB	C:207:ILE:N	0.518
1	C:57:VAL:HG22	C:80:ALA:O	0.518
1	C:149:HIS:CD2	C:150:ALA:N	0.518
1	C:152:ALA:O	C:155:GLU:HB3	0.518
1	A:315:ASN:HD21	C:346:LEU:HD21	0.518
1	C:360:TYR:CE2	C:362:HIS:HB2	0.518
1	D:4:LEU:HD13	D:8:ARG:HG2	0.518
1	D:160:SER:HB2	D:187:VAL:HG11	0.518
1	D:244:GLY:O	D:245:SER:HB3	0.518
1	D:292:PHE:CE1	D:315:VAL:CG1	0.518
1	F:73:ARG:HG2	F:74:ASP:N	0.518
1	C:202:VAL:CG2	C:203:LEU:H	0.518
1	A:184:THR:HG23	A:185:ALA:N	0.517
1	C:54:ASN:HB2	C:207:ILE:CG2	0.517
1	C:176:GLN:N	C:179:LEU:HD21	0.517
1	C:186:LYS:HZ2	C:203:LEU:HA	0.517
1	C:362:HIS:CG	C:363:PHE:N	0.517
1	D:80:ILE:HG23	D:91:HIS:O	0.517
1	F:28:PHE:CG	F:29:THR:N	0.517
1	A:336:LEU:O	A:336:LEU:HD12	0.516
1	B:5:THR:HG23	B:6:PHE:N	0.516

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:50:GLU:HB3	C:209:GLU:CD	0.516
1	C:54:ASN:HB2	C:207:ILE:HG21	0.516
1	C:163:TYR:CD2	C:197:LEU:HG	0.516
1	C:223:ASP:CG	C:224:VAL:H	0.516
1	C:229:ASP:CG	C:270:LEU:HB3	0.516
1	E:23:ALA:O	E:24:ASN:HB2	0.516
1	F:87:LEU:N	F:87:LEU:HD13	0.516
1	A:284:LEU:HD22	A:287:ARG:HD3	0.515
1	A:413:LEU:HD23	D:271:CYS:HB2	0.515
1	A:414:LYS:HG3	D:304:ARG:HH11	0.515
1	C:99:LEU:CD2	C:99:LEU:N	0.515
1	C:106:ILE:CG1	C:196:ASP:N	0.515
1	C:111:SER:HA	C:116:PRO:HB2	0.515
1	C:151:LYS:CD	C:182:ILE:HD11	0.515
1	C:222:PHE:CD1	C:223:ASP:N	0.515
1	D:296:VAL:HG12	D:297:TRP:N	0.515
1	F:21:LEU:CB	F:37:TRP:HH2	0.515
1	F:7:GLU:OE2	F:120:GLY:HA3	0.515
1	F:126:THR:HG21	F:129:SER:HA	0.515
1	A:357:ARG:HD2	A:360:LYS:CE	0.514
1	C:25:LYS:NZ	C:28:LYS:HD2	0.514
1	C:57:VAL:HG11	C:81:ARG:HA	0.514
1	C:183:ASP:C	C:211:LYS:HB2	0.514

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:183:ASP:HA	C:202:VAL:HG13	0.514
1	C:95:ILE:CG1	C:186:LYS:HG3	0.514
1	C:208:PHE:CD2	C:223:ASP:HB2	0.514
1	D:222:PHE:HE2	D:251:ARG:CD	0.514
1	D:254:ASP:OD2	D:261:LEU:HB3	0.514
1	E:67:PHE:CG	E:68:CYS:N	0.514
1	C:201:ARG:HG3	C:201:ARG:O	0.514
1	A:59:ASN:HB2	A:76:HIS:HB3	0.513
1	C:55:THR:CB	C:95:ILE:HD13	0.513
1	C:106:ILE:CD1	C:195:GLN:HG3	0.513
1	C:154:TRP:CD1	C:155:GLU:N	0.513
1	C:163:TYR:CE2	C:194:ASP:N	0.513
1	C:174:CYS:CB	C:178:PHE:CE2	0.513
1	D:311:HIS:CG	D:312:ASP:N	0.513
1	D:150:ARG:NH2	D:199:PHE:HD2	0.513
1	A:161:PHE:CZ	A:165:ILE:CD1	0.512
1	A:182:TYR:CE1	B:14:LEU:CD2	0.512
1	A:279:ASN:CB	A:282:TYR:CD1	0.512
1	A:416:PRO:CG	D:42:ARG:H	0.512
1	C:56:ILE:HD13	C:174:CYS:CB	0.512
1	C:163:TYR:CD2	C:194:ASP:CB	0.512
1	C:184:VAL:CA	C:209:GLU:HB3	0.512
1	C:231:ARG:HB3	C:235:ILE:HG22	0.512

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:54:HIS:HB3	D:74:SER:OG	0.512
1	D:156:GLN:HG2	D:157:ILE:N	0.512
1	D:210:LEU:HD13	D:211:TRP:N	0.512
1	D:266:HIS:CG	D:267:ASP:N	0.512
1	E:54:VAL:CG2	E:55:PRO:HD2	0.512
1	A:344:PHE:HE1	A:360:LYS:CD	0.512
1	C:53:LYS:CG	C:55:THR:H	0.512
1	D:259:GLN:CG	D:260:GLU:H	0.512
1	A:189:HIS:CD2	B:25:TRP:NE1	0.511
1	A:188:GLN:O	A:189:HIS:HB3	0.511
1	A:390:PHE:O	A:394:TRP:HB2	0.511
1	C:37:TYR:HA	C:40:THR:HG22	0.511
1	C:45:LEU:HD21	C:293:LYS:HB3	0.511
1	C:52:GLY:HA2	C:186:LYS:HG2	0.511
1	C:89:ALA:HA	D:119:ASN:HB3	0.511
1	C:103:ILE:HA	C:199:ARG:CB	0.511
1	C:99:LEU:CA	C:198:LEU:HD11	0.511
1	C:276:ILE:HG23	C:277:TRP:N	0.511
1	D:3:GLU:O	D:7:LEU:HD22	0.511
1	D:81:ILE:HG22	D:91:HIS:HB3	0.511
1	D:143:THR:O	D:163:ASP:HB2	0.511
1	C:183:ASP:N	C:211:LYS:H	0.511
1	A:68:TRP:CH2	A:111:ARG:HG3	0.510

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:242:ILE:O	A:242:ILE:HG23	0.510
1	C:179:LEU:CG	C:197:LEU:HB2	0.510
1	C:208:PHE:CG	C:223:ASP:HB3	0.510
1	C:247:VAL:HG23	C:290:PHE:HB2	0.510
1	C:364:THR:O	C:365:CYS:HB2	0.510
1	D:159:THR:HG22	D:167:ALA:O	0.510
1	D:250:CYS:CB	D:273:ILE:HD11	0.510
1	C:54:ASN:HD22	C:59:GLN:NE2	0.510
1	A:118:LEU:C	A:118:LEU:HD13	0.509
1	A:132:SER:O	A:136:LEU:HG	0.509
1	A:230:THR:O	A:231:LEU:HB3	0.509
1	C:42:ARG:HG3	C:220:HIS:O	0.509
1	C:53:LYS:HA	C:55:THR:CB	0.509
1	C:163:TYR:CZ	C:197:LEU:HD12	0.509
1	C:183:ASP:HB2	C:202:VAL:HG13	0.509
1	C:102:ALA:H	C:198:LEU:CD1	0.509
1	C:208:PHE:CE2	C:223:ASP:HB2	0.509
1	C:299:GLU:HA	C:299:GLU:OE1	0.509
1	D:79:LEU:CA	D:93:ILE:HG22	0.509
1	D:197:ARG:HG2	D:197:ARG:O	0.509
1	D:253:PHE:HZ	D:258:ASP:HA	0.509
1	E:44:HIS:HA	E:50:LEU:HD12	0.509
1	F:13:VAL:HG11	F:87:LEU:HD11	0.509

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	F:62:THR:HG23	F:64:SER:N	0.509
1	A:16:TRP:HZ3	A:20:ARG:NE	0.509
1	C:45:LEU:HD22	C:293:LYS:CB	0.508
1	C:50:GLU:HA	C:209:GLU:OE2	0.508
1	F:30:PHE:CE2	F:73:ARG:CD	0.508
1	C:51:SER:HB3	C:206:GLY:C	0.507
1	C:92:VAL:O	C:93:GLN:HB3	0.507
1	C:159:VAL:HB	C:196:ASP:OD2	0.507
1	C:340:PHE:O	C:341:ILE:HG13	0.507
1	D:64:GLY:CA	D:105:TYR:CE2	0.507
1	D:150:ARG:O	D:157:ILE:HD12	0.507
1	D:168:LEU:HG	D:178:THR:HG22	0.507
1	F:10:GLY:HA3	F:123:THR:CG2	0.507
1	A:344:PHE:CD1	A:360:LYS:HD2	0.506
1	C:142:PHE:CD1	C:203:LEU:HB2	0.506
1	C:151:LYS:HB2	C:182:ILE:CD1	0.506
1	D:52:ARG:HG2	D:53:GLY:N	0.506
1	D:242:ALA:CB	D:278:PHE:HZ	0.506
1	F:5:LEU:CD2	F:7:GLU:HG3	0.506
1	A:253:VAL:CG1	A:257:PHE:HE1	0.506
1	C:270:LEU:H	C:273:PHE:HD2	0.506
1	C:55:THR:HB	C:95:ILE:CD1	0.505
1	C:57:VAL:CG1	C:59:GLN:HA	0.505

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:144:PRO:CA	C:147:TYR:CE2	0.505
1	C:177:TYR:CD1	C:178:PHE:HD1	0.505
1	C:212:PHE:CD2	C:372:ILE:HD13	0.505
1	C:221:MET:HG3	C:222:PHE:N	0.505
1	C:250:SER:C	C:308:ILE:H	0.505
1	C:301:VAL:HG13	C:302:LEU:CD2	0.505
1	D:61:MET:HG2	D:70:LEU:HD21	0.505
1	D:93:ILE:HG12	D:124:TYR:CZ	0.505
1	D:124:TYR:CE2	D:133:VAL:CG1	0.505
1	D:143:THR:O	D:143:THR:HG23	0.505
1	D:226:GLU:CB	F:28:PHE:CD1	0.505
1	D:276:VAL:HG22	D:287:ALA:HB2	0.505
1	D:291:ASP:HB3	D:293:ASN:H	0.505
1	E:18:GLN:NE2	E:22:GLU:HB2	0.505
1	E:42:GLU:HA	E:42:GLU:OE1	0.505
1	F:30:PHE:CD1	F:78:ASN:ND2	0.505
1	F:73:ARG:HG2	F:74:ASP:H	0.505
1	D:197:ARG:NH2	D:214:ARG:HH21	0.505
1	A:59:ASN:HB2	A:76:HIS:CB	0.504
1	A:219:TYR:O	A:222:LEU:HB3	0.504
1	A:326:LEU:C	A:326:LEU:HD23	0.504
1	D:37:ILE:HD13	D:302:ALA:O	0.504
1	D:57:LYS:CB	D:332:TRP:CD1	0.504

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:70:LEU:O	D:81:ILE:HG13	0.504
1	D:121:CYS:HB3	D:146:LEU:HD13	0.504
1	D:336:LEU:C	D:336:LEU:HD13	0.504
1	F:62:THR:CG2	F:65:VAL:H	0.504
1	F:62:THR:HG23	F:64:SER:H	0.504
1	A:57:PHE:CB	A:78:TYR:CE2	0.503
1	A:275:THR:HG21	B:11:SER:CB	0.503
1	A:352:ALA:O	A:353:ARG:HG3	0.503
1	C:344:GLU:HG3	C:345:PHE:CD1	0.503
1	D:273:ILE:CG2	D:289:TYR:CD2	0.503
1	F:69:PHE:CE2	F:82:LEU:CD1	0.503
1	F:99:ARG:HB3	F:118:TYR:HE2	0.503
1	A:253:VAL:CG1	A:257:PHE:CE1	0.502
1	A:203:CYS:SG	A:273:CYS:HB2	0.502
1	A:314:ALA:HB3	A:320:THR:CG2	0.502
1	A:315:ASN:HB3	A:319:LYS:CA	0.502
1	A:358:PHE:CD2	A:359:ILE:N	0.502
1	C:106:ILE:HG13	C:196:ASP:HB2	0.502
1	C:211:LYS:HD2	C:220:HIS:HE1	0.502
1	C:281:TRP:CZ2	C:345:PHE:CB	0.502
1	C:376:PHE:CE2	C:380:ARG:CD	0.502
1	C:381:ASP:O	C:385:ARG:HG2	0.502
1	C:386:MET:HE1	C:392:GLU:OE2	0.502

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:57:LYS:HD2	D:57:LYS:N	0.502
1	A:415:CYS:HB2	D:308:LEU:HB2	0.502
1	F:30:PHE:CE1	F:80:LEU:CD2	0.502
1	F:69:PHE:CZ	F:82:LEU:CD1	0.502
1	A:126:THR:HG1	A:129:TYR:HE2	0.502
1	A:234:PHE:CG	A:235:SER:N	0.501
1	C:37:TYR:CE1	C:42:ARG:NH2	0.501
1	C:52:GLY:CA	C:186:LYS:HG2	0.501
1	C:99:LEU:CD1	C:201:ARG:CZ	0.501
1	C:178:PHE:HD1	C:181:LYS:HD3	0.501
1	C:183:ASP:N	C:211:LYS:CB	0.501
1	C:234:TRP:CZ3	D:99:TRP:CD1	0.501
1	C:281:TRP:HZ2	C:345:PHE:HB3	0.501
1	D:180:PHE:CD1	D:211:TRP:CZ3	0.501
1	D:225:HIS:NE2	D:227:SER:HB2	0.501
1	D:273:ILE:HG21	D:289:TYR:CE2	0.501
1	F:38:VAL:HB	F:96:TYR:CZ	0.501
1	F:62:THR:HG21	F:65:VAL:HG22	0.501
1	C:95:ILE:CG2	C:205:SER:H	0.501
1	D:51:LEU:HG	D:52:ARG:N	0.501
1	A:325:ARG:C	A:327:ALA:H	0.500
1	A:400:GLU:HG2	C:351:ALA:CA	0.500
1	C:228:ARG:NE	C:230:GLU:HB3	0.500

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:315:ASN:HD21	C:346:LEU:CD1	0.500
1	D:27:ASP:O	D:28:ALA:HB2	0.500
1	D:63:TRP:CE2	D:321:THR:CG2	0.500
1	D:93:ILE:CG1	D:124:TYR:CE1	0.500
1	D:256:ARG:HB3	E:28:ILE:CG2	0.500
1	A:252:GLY:C	A:254:PRO:HD2	0.499
1	A:261:TRP:CZ2	A:265:LYS:CG	0.499
1	C:95:ILE:CG1	C:99:LEU:HD11	0.499
1	C:99:LEU:CD2	C:178:PHE:CD2	0.499
1	C:208:PHE:CD2	C:223:ASP:HB3	0.499
1	C:244:ILE:HD11	C:246:PHE:HA	0.499
1	C:260:ASP:OD2	C:264:ASN:HB3	0.499
1	C:346:LEU:O	C:350:THR:HG22	0.499
1	D:14:LEU:O	D:18:ILE:HG22	0.499
1	F:33:TYR:CE2	F:99:ARG:CG	0.499
1	F:32:ASN:O	F:33:TYR:HB2	0.499
1	C:281:TRP:HD1	C:359:CYS:SG	0.499
1	A:49:TRP:CZ2	A:58:VAL:CG2	0.498
1	A:57:PHE:HB3	A:78:TYR:CE2	0.498
1	A:136:LEU:HD13	A:164:PHE:HB3	0.498
1	A:185:ALA:HB1	A:194:LEU:HD11	0.498
1	A:185:ALA:O	A:188:GLN:HB3	0.498
1	A:426:ALA:HB1	E:29:LYS:HE3	0.498

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:190:TYR:CE2	C:191:VAL:CG2	0.498
1	C:99:LEU:O	C:198:LEU:HD13	0.498
1	C:44:LEU:H	C:244:ILE:HA	0.498
1	C:246:PHE:HZ	C:281:TRP:CH2	0.498
1	C:281:TRP:HE1	C:289:LEU:CD1	0.498
1	A:417:THR:H	D:42:ARG:HG3	0.498
1	D:242:ALA:HB3	D:278:PHE:CZ	0.498
1	D:51:LEU:CB	D:336:LEU:HB3	0.498
1	E:42:GLU:C	E:49:PRO:HG2	0.498
1	F:79:THR:O	F:79:THR:HG23	0.498
1	F:101:PRO:CG	F:116:TYR:CE2	0.498
1	A:33:PRO:CG	A:38:PHE:CE2	0.497
1	A:72:VAL:N	A:73:PRO:CD	0.497
1	A:323:LYS:O	A:324:CYS:HB3	0.497
1	A:416:PRO:CG	D:41:GLY:HA2	0.497
1	C:99:LEU:HD13	C:201:ARG:CZ	0.497
1	C:102:ALA:HB2	C:172:ILE:CG2	0.497
1	C:119:LEU:HD11	C:156:ASP:CB	0.497
1	C:127:ARG:HD3	C:149:HIS:CA	0.497
1	C:99:LEU:O	C:199:ARG:HB2	0.497
1	D:221:THR:HG22	E:22:GLU:OE2	0.497
1	A:59:ASN:N	A:59:ASN:HD22	0.497
1	A:368:THR:O	A:369:SER:HB3	0.496

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	B:23:ILE:HG23	B:24:ALA:N	0.496
1	C:252:SER:HB3	C:256:VAL:HG13	0.496
1	D:71:VAL:CG2	D:105:TYR:CD1	0.496
1	D:183:HIS:CE1	D:205:ASP:H	0.496
1	A:66:LEU:H	A:66:LEU:HD13	0.495
1	A:282:TYR:CD1	A:282:TYR:N	0.495
1	A:428:SER:O	A:431:TYR:HB2	0.495
1	C:84:SER:C	C:86:GLY:H	0.495
1	C:106:ILE:CB	C:196:ASP:CA	0.495
1	C:142:PHE:HB2	C:203:LEU:HG	0.495
1	C:259:GLU:HA	C:265:ARG:CG	0.495
1	D:139:LEU:HD12	D:169:TRP:CG	0.495
1	D:191:SER:O	D:199:PHE:HB2	0.495
1	C:88:LYS:N	C:91:LYS:NZ	0.495
1	A:18:GLU:HG2	A:19:TYR:N	0.494
1	A:274:TRP:CE3	A:274:TRP:HA	0.494
1	C:57:VAL:HG11	C:82:SER:H	0.494
1	C:81:ARG:C	C:83:ASN:N	0.494
1	C:53:LYS:HZZ	C:91:LYS:C	0.494
1	C:183:ASP:CG	C:202:VAL:HG11	0.494
1	C:235:ILE:HG13	C:283:ARG:HA	0.494
1	F:41:ALA:HA	F:93:ALA:HB3	0.494
1	A:119:LEU:O	A:119:LEU:HD13	0.493

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:1:MET:HB3	D:94:PRO:HD2	0.493
1	C:93:GLN:HA	C:204:THR:CG2	0.493
1	C:172:ILE:HG23	C:175:ALA:HB2	0.493
1	C:175:ALA:HB1	C:198:LEU:HB2	0.493
1	C:273:PHE:CB	F:111:VAL:HG23	0.493
1	D:51:LEU:HD13	D:82:TRP:CZ3	0.493
1	D:106:ALA:CB	D:151:PHE:CZ	0.493
1	C:62:ILE:CD1	D:143:THR:HB	0.493
1	F:74:ASP:OD1	F:79:THR:HG22	0.493
1	C:56:ILE:CB	C:178:PHE:HZ	0.493
1	C:88:LYS:H	C:91:LYS:HZ1	0.493
1	D:45:MET:SD	D:46:ARG:N	0.493
1	A:100:LEU:H	A:100:LEU:HD13	0.492
1	A:414:LYS:CB	D:307:VAL:HA	0.492
1	B:18:ALA:O	B:19:ALA:HB2	0.492
1	C:153:LEU:O	C:159:VAL:HG21	0.492
1	C:178:PHE:HA	C:181:LYS:CD	0.492
1	C:183:ASP:CB	C:211:LYS:HB3	0.492
1	D:70:LEU:CB	D:82:TRP:HD1	0.492
1	D:139:LEU:HG	D:169:TRP:CE3	0.492
1	D:226:GLU:CB	F:28:PHE:HD1	0.492
1	E:19:LEU:O	E:19:LEU:HD22	0.492
1	F:21:LEU:HD12	F:95:TYR:CZ	0.492

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:54:ASN:H	C:207:ILE:CD1	0.492
1	A:118:LEU:HD21	B:10:VAL:HG22	0.491
1	A:123:ILE:HA	A:126:THR:HG22	0.491
1	A:124:ILE:O	A:125:TYR:HB3	0.491
1	A:250:GLY:O	A:254:PRO:HD3	0.491
1	A:203:CYS:SG	A:273:CYS:CB	0.491
1	A:334:ILE:HD12	A:339:THR:HG21	0.491
1	C:178:PHE:CD1	C:181:LYS:CE	0.491
1	C:207:ILE:O	C:208:PHE:HB3	0.491
1	C:235:ILE:C	C:235:ILE:HD13	0.491
1	C:297:LEU:O	C:300:LYS:HG2	0.491
1	D:77:GLY:C	D:95:LEU:HB2	0.491
1	D:145:TYR:CD1	D:146:LEU:N	0.491
1	D:252:LEU:HD12	D:261:LEU:CD2	0.491
1	A:18:GLU:O	A:19:TYR:HB3	0.490
1	A:57:PHE:HB3	A:78:TYR:CZ	0.490
1	A:315:ASN:HB3	A:319:LYS:HB2	0.490
1	A:417:THR:HG22	D:305:ALA:HB1	0.490
1	C:52:GLY:CA	C:52:GLY:H	0.490
1	C:102:ALA:HB1	C:195:GLN:C	0.490
1	C:181:LYS:CB	C:201:ARG:HH22	0.490
1	C:355:GLY:O	C:356:ARG:HB2	0.490
1	F:3:VAL:HG12	F:118:TYR:CD1	0.490

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	F:13:VAL:HG22	F:19:LEU:HD12	0.490
1	F:35:MET:HG3	F:36:ASN:H	0.490
1	A:10:TRP:CG	A:198:GLN:HE22	0.489
1	A:18:GLU:HG2	A:19:TYR:H	0.489
1	A:418:SER:HB2	D:283:ARG:NH1	0.489
1	C:49:GLY:HA2	D:117:LEU:N	0.489
1	C:176:GLN:C	C:179:LEU:HG	0.489
1	C:183:ASP:CA	C:202:VAL:HG13	0.489
1	C:106:ILE:CB	C:196:ASP:HA	0.489
1	C:185:ILE:HG22	C:205:SER:HB2	0.489
1	C:281:TRP:CH2	C:345:PHE:CD1	0.489
1	D:157:ILE:O	D:157:ILE:HG23	0.489
1	A:413:LEU:N	D:291:ASP:CB	0.489
1	C:292:ASN:HD22	C:293:LYS:N	0.489
1	A:70:SER:O	A:71:SER:HB2	0.488
1	A:88:LEU:HD23	A:97:TRP:CE3	0.488
1	A:174:LYS:HD2	B:7:THR:HG21	0.488
1	A:262:GLY:HA2	A:265:LYS:HE3	0.488
1	A:384:ASN:O	A:387:GLN:HB3	0.488
1	A:415:CYS:HB3	A:416:PRO:HD3	0.488
1	C:12:GLN:HA	C:15:GLU:CB	0.488
1	C:53:LYS:HB2	C:95:ILE:HB	0.488
1	C:60:MET:CA	C:82:SER:HB3	0.488

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:151:LYS:CB	C:182:ILE:CD1	0.488
1	C:249:ALA:CB	C:292:ASN:ND2	0.488
1	C:250:SER:C	C:308:ILE:HG22	0.488
1	C:250:SER:HA	C:306:SER:O	0.488
1	C:277:TRP:CZ2	F:48:TRP:CB	0.488
1	C:34:LYS:NZ	D:55:LEU:HB2	0.488
1	D:117:LEU:CD1	D:145:TYR:CE1	0.488
1	D:196:THR:CG2	D:197:ARG:N	0.488
1	D:316:SER:HB3	D:332:TRP:CZ3	0.488
1	D:324:GLY:O	D:325:MET:HB2	0.488
1	D:332:TRP:O	D:333:ASP:HB2	0.488
1	F:12:LEU:H	F:12:LEU:HD22	0.488
1	F:56:GLY:N	F:73:ARG:HH22	0.488
1	A:341:GLU:O	A:345:ALA:HB2	0.487
1	C:53:LYS:CB	C:55:THR:HB	0.487
1	C:52:GLY:C	C:95:ILE:HB	0.487
1	C:129:ASP:O	C:130:TYR:HB2	0.487
1	C:326:PRO:O	C:327:GLU:HB3	0.487
1	C:394:LEU:HD11	D:293:ASN:HD21	0.487
1	F:13:VAL:CG1	F:17:GLY:HA3	0.487
1	F:13:VAL:CG2	F:19:LEU:HD12	0.487
1	C:42:ARG:HH11	C:241:VAL:CG2	0.487
1	B:25:TRP:CD1	B:31:GLY:CA	0.486

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:51:SER:CA	C:207:ILE:N	0.486
1	C:51:SER:CB	C:207:ILE:HG23	0.486
1	C:53:LYS:HE3	C:95:ILE:N	0.486
1	C:86:GLY:C	C:91:LYS:HE3	0.486
1	C:186:LYS:CA	C:209:GLU:O	0.486
1	C:230:GLU:HA	F:109:PHE:CE2	0.486
1	C:285:THR:HG23	C:286:SER:H	0.486
1	C:325:THR:OG1	C:326:PRO:HD2	0.486
1	C:373:ARG:C	C:373:ARG:HD3	0.486
1	A:414:LYS:HA	D:307:VAL:HA	0.486
1	F:69:PHE:CZ	F:82:LEU:HD11	0.486
1	C:201:ARG:NH2	C:202:VAL:H	0.486
1	A:68:TRP:O	A:72:VAL:HG12	0.485
1	A:128:GLY:HA3	A:369:SER:OG	0.485
1	C:48:ALA:CB	C:234:TRP:CD2	0.485
1	C:58:LYS:HA	C:207:ILE:CG1	0.485
1	C:182:ILE:CD1	C:183:ASP:HB2	0.485
1	C:54:ASN:CB	C:207:ILE:HG12	0.485
1	C:186:LYS:H	C:209:GLU:CB	0.485
1	C:295:ASP:OD1	C:299:GLU:HB3	0.485
1	D:203:ALA:O	D:229:ILE:HG23	0.485
1	A:419:SER:HB3	D:300:LEU:HD23	0.485
1	F:59:ILE:CG2	F:61:TYR:CE1	0.485

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:182:TYR:CD1	B:14:LEU:CD1	0.484
1	A:342:VAL:O	A:345:ALA:HB3	0.484
1	C:207:ILE:HD12	C:208:PHE:CA	0.484
1	C:273:PHE:CE1	F:47:GLU:CA	0.484
1	D:1:MET:HE3	D:2:SER:O	0.484
1	D:273:ILE:CG2	D:289:TYR:CE2	0.484
1	D:314:ARG:HB3	D:332:TRP:CE3	0.484
1	A:13:VAL:HG23	A:16:TRP:NE1	0.483
1	A:113:SER:OG	A:114:PRO:HD2	0.483
1	A:375:VAL:HG13	A:379:TYR:CE1	0.483
1	C:163:TYR:CE2	C:197:LEU:HG	0.483
1	C:175:ALA:HA	C:198:LEU:HD23	0.483
1	C:187:GLN:CG	C:208:PHE:CE2	0.483
1	C:186:LYS:CD	C:203:LEU:CA	0.483
1	C:217:VAL:CG2	C:376:PHE:HE1	0.483
1	C:44:LEU:O	C:244:ILE:HB	0.483
1	C:266:LEU:HD13	C:270:LEU:HD12	0.483
1	D:192:LEU:HD23	D:193:ALA:N	0.483
1	C:261:ASN:H	F:44:LYS:HG3	0.483
1	D:82:TRP:HH2	D:87:THR:CB	0.483
1	C:135:MET:SD	C:136:ASN:N	0.483
1	D:297:TRP:HE1	D:302:ALA:CA	0.483
1	F:35:MET:SD	F:97:CYS:SG	0.483

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:186:ALA:HB3	B:21:GLU:OE2	0.482
1	C:50:GLU:HB3	C:209:GLU:OE2	0.482
1	C:100:LYS:HG3	C:101:GLU:N	0.482
1	C:119:LEU:HD11	C:156:ASP:HB3	0.482
1	C:144:PRO:HB3	C:147:TYR:CE2	0.482
1	C:171:LEU:HG	C:194:ASP:OD2	0.482
1	C:187:GLN:C	C:187:GLN:CG	0.482
1	C:187:GLN:CB	C:208:PHE:CZ	0.482
1	C:227:GLN:OE1	C:234:TRP:HB3	0.482
1	C:238:PHE:CE2	C:241:VAL:CG1	0.482
1	C:280:LYS:HA	C:283:ARG:N	0.482
1	A:315:ASN:OD1	C:346:LEU:HD21	0.482
1	D:70:LEU:HD22	D:71:VAL:N	0.482
1	D:81:ILE:O	D:82:TRP:HB3	0.482
1	D:207:SER:HB2	D:223:THR:HB	0.482
1	F:5:LEU:HD23	F:7:GLU:OE2	0.482
1	F:30:PHE:CG	F:78:ASN:ND2	0.482
1	A:10:TRP:HB2	A:198:GLN:NE2	0.481
1	A:253:VAL:N	A:254:PRO:CD	0.481
1	C:13:ARG:HD3	C:16:GLU:HG2	0.481
1	C:126:PHE:CZ	C:130:TYR:CE1	0.481
1	C:280:LYS:CA	C:283:ARG:N	0.481
1	D:18:ILE:O	D:19:ARG:HB2	0.481

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	F:92:THR:OG1	F:126:THR:HA	0.481
1	A:227:TYR:HB2	A:246:TYR:CZ	0.480
1	C:177:TYR:CE2	C:295:ASP:C	0.480
1	C:184:VAL:CG2	C:220:HIS:CA	0.480
1	C:187:GLN:H	C:210:THR:HB	0.480
1	C:292:ASN:C	C:292:ASN:HD22	0.480
1	C:281:TRP:HZ2	C:345:PHE:CB	0.480
1	D:73:ALA:O	D:74:SER:HB3	0.480
1	D:111:TYR:CD1	D:151:PHE:CE1	0.480
1	D:234:PHE:HA	D:241:PHE:CB	0.480
1	D:326:ALA:O	D:327:VAL:HG22	0.480
1	F:28:PHE:HD2	F:33:TYR:CD2	0.480
1	C:246:PHE:HE1	C:248:VAL:CG2	0.480
1	C:34:LYS:NZ	D:55:LEU:N	0.480
1	A:204:ARG:NH1	A:270:ASP:HA	0.479
1	A:387:GLN:NE2	A:390:PHE:CD2	0.479
1	C:45:LEU:CD2	C:58:LYS:CE	0.479
1	C:175:ALA:O	C:198:LEU:HD23	0.479
1	C:238:PHE:CE2	C:241:VAL:CB	0.479
1	C:267:GLN:CD	C:267:GLN:H	0.479
1	D:139:LEU:CD2	D:169:TRP:CE3	0.479
1	D:152:LEU:O	D:153:ASP:HB2	0.479
1	D:292:PHE:CE1	D:311:HIS:CB	0.479

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:415:CYS:N	D:307:VAL:N	0.479
1	A:9:LEU:O	A:9:LEU:HD23	0.478
1	A:89:GLN:HG2	A:89:GLN:O	0.478
1	A:224:GLU:CD	A:336:LEU:HD11	0.478
1	A:410:MET:HG3	A:410:MET:O	0.478
1	A:416:PRO:HD3	D:339:TRP:HE1	0.478
1	C:53:LYS:HB2	C:95:ILE:CB	0.478
1	C:177:TYR:HD1	C:181:LYS:HD3	0.478
1	C:266:LEU:C	C:266:LEU:HD13	0.478
1	C:188:ALA:HB1	C:296:LEU:HG	0.478
1	D:71:VAL:HG13	D:79:LEU:HD11	0.478
1	D:175:GLN:HG2	D:176:GLN:N	0.478
1	D:200:VAL:HG13	D:209:LYS:O	0.478
1	D:241:PHE:CE1	D:255:LEU:CD2	0.478
1	D:311:HIS:CG	D:312:ASP:H	0.478
1	D:48:ARG:HH11	D:326:ALA:HB2	0.478
1	E:10:ALA:O	E:11:GLN:HB3	0.478
1	F:62:THR:HG23	F:63:GLY:N	0.478
1	C:99:LEU:CD1	C:201:ARG:NH1	0.478
1	D:283:ARG:NE	E:41:CYS:SG	0.478
1	A:153:ARG:CZ	A:227:TYR:CE2	0.477
1	A:182:TYR:CD2	A:183:SER:HB3	0.477
1	A:304:VAL:O	A:308:VAL:HG12	0.477

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:408:SER:CB	D:271:CYS:SG	0.477
1	C:26:ILE:HG23	C:27:GLU:N	0.477
1	C:53:LYS:HG3	C:84:SER:HG	0.477
1	C:119:LEU:HD13	C:159:VAL:HG13	0.477
1	C:287:VAL:O	C:287:VAL:HG23	0.477
1	C:297:LEU:N	C:297:LEU:HD23	0.477
1	D:139:LEU:HD23	D:169:TRP:CZ3	0.477
1	D:325:MET:O	D:326:ALA:HB2	0.477
1	F:44:LYS:HG2	F:45:GLY:O	0.477
1	C:228:ARG:HH21	F:114:THR:HG23	0.477
1	C:186:LYS:CB	C:201:ARG:NH2	0.477
1	A:119:LEU:O	A:122:TYR:HB3	0.476
1	A:201:LEU:O	A:204:ARG:HB2	0.476
1	A:316:LEU:HA	C:358:TYR:HH	0.476
1	C:45:LEU:CD1	C:293:LYS:CB	0.476
1	C:85:ASP:CB	C:98:ASN:ND2	0.476
1	C:127:ARG:HB2	C:153:LEU:CD2	0.476
1	C:150:ALA:HB1	C:199:ARG:CG	0.476
1	C:246:PHE:C	C:246:PHE:CD1	0.476
1	C:342:ARG:N	C:345:PHE:CD2	0.476
1	D:4:LEU:CD1	D:8:ARG:HG3	0.476
1	D:75:GLN:HB2	D:99:TRP:CZ3	0.476
1	D:122:SER:HB3	D:138:GLU:HB3	0.476

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:229:ILE:CD1	D:243:THR:HG21	0.476
1	D:245:SER:H	D:273:ILE:CG1	0.476
1	D:318:LEU:CD2	D:327:VAL:HG12	0.476
1	A:416:PRO:CB	D:42:ARG:N	0.476
1	A:62:CYS:SG	A:66:LEU:HD21	0.475
1	A:182:TYR:CD1	B:14:LEU:CD2	0.475
1	A:185:ALA:HB1	A:194:LEU:HD12	0.475
1	C:1:MET:HG2	C:2:GLY:N	0.475
1	C:41:HIS:O	C:43:LEU:HD12	0.475
1	C:54:ASN:HA	C:91:LYS:CD	0.475
1	C:209:GLU:CG	C:222:PHE:HA	0.475
1	C:238:PHE:CD1	C:286:SER:CB	0.475
1	C:271:LYS:HD3	C:306:SER:CB	0.475
1	C:384:GLN:HA	C:387:HIS:HD2	0.475
1	D:82:TRP:CH2	D:87:THR:CB	0.475
1	D:96:ARG:CD	D:96:ARG:H	0.475
1	D:213:VAL:O	D:214:ARG:HB3	0.475
1	D:232:ILE:HD11	D:241:PHE:CE2	0.475
1	D:291:ASP:CG	D:292:PHE:N	0.475
1	F:1:MET:SD	F:4:GLN:CG	0.475
1	F:99:ARG:NH1	F:101:PRO:HA	0.475
1	C:50:GLU:C	C:50:GLU:CB	0.474
1	C:50:GLU:CG	D:99:TRP:N	0.474

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:87:GLU:N	C:91:LYS:HE3	0.474
1	C:96:LYS:HA	C:186:LYS:HZ3	0.474
1	C:207:ILE:HG21	C:225:GLY:CA	0.474
1	C:209:GLU:HG2	C:222:PHE:HB2	0.474
1	C:270:LEU:CD2	F:113:SER:H	0.474
1	C:273:PHE:CB	F:111:VAL:CG2	0.474
1	C:388:LEU:O	C:389:ARG:HB3	0.474
1	D:95:LEU:HD13	D:100:VAL:CG2	0.474
1	D:124:TYR:CE2	D:133:VAL:CB	0.474
1	D:297:TRP:CD1	D:302:ALA:HA	0.474
1	D:63:TRP:NE1	D:321:THR:HG22	0.474
1	C:200:CYS:SG	C:201:ARG:N	0.474
1	C:325:THR:O	C:325:THR:HG23	0.474
1	A:283:TRP:NE1	A:287:ARG:HB2	0.473
1	A:417:THR:HG23	A:418:SER:H	0.473
1	C:96:LYS:HD3	C:204:THR:CG2	0.473
1	C:217:VAL:CG2	C:376:PHE:CE1	0.473
1	C:231:ARG:C	C:235:ILE:HG22	0.473
1	C:249:ALA:CB	C:305:LYS:CG	0.473
1	C:268:ALA:O	C:271:LYS:HB3	0.473
1	D:38:ASP:CB	D:39:PRO:CD	0.473
1	D:112:VAL:HB	D:124:TYR:HB3	0.473
1	D:117:LEU:HG	D:145:TYR:CD1	0.473

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:215:GLU:HA	D:215:GLU:OE1	0.473
1	D:318:LEU:C	D:318:LEU:HD13	0.473
1	F:101:PRO:HG2	F:116:TYR:CZ	0.473
1	A:414:LYS:C	D:308:LEU:N	0.472
1	C:134:VAL:HG13	C:137:VAL:HG21	0.472
1	C:182:ILE:HA	C:201:ARG:HH21	0.472
1	C:244:ILE:HG13	C:246:PHE:N	0.472
1	D:79:LEU:HD12	D:80:ILE:H	0.472
1	D:226:GLU:CD	D:226:GLU:H	0.472
1	A:414:LYS:N	D:293:ASN:CB	0.472
1	E:12:ALA:C	E:14:LYS:H	0.472
1	F:31:SER:O	F:32:ASN:HB2	0.472
1	F:55:SER:C	F:73:ARG:HH22	0.472
1	F:71:ILE:HG12	F:72:SER:N	0.472
1	F:71:ILE:N	F:71:ILE:HD13	0.472
1	A:216:ALA:O	A:220:TRP:HE3	0.472
1	C:49:GLY:CA	D:117:LEU:H	0.472
1	A:105:GLU:HA	A:105:GLU:OE2	0.471
1	A:327:ALA:O	A:328:LYS:HB2	0.471
1	A:404:ILE:CG1	A:405:GLN:N	0.471
1	C:56:ILE:CD1	C:174:CYS:SG	0.471
1	C:71:GLU:HG2	C:85:ASP:OD1	0.471
1	C:93:GLN:N	C:95:ILE:CG2	0.471

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:151:LYS:CG	C:182:ILE:CD1	0.471
1	C:246:PHE:CD1	C:289:LEU:CB	0.471
1	C:394:LEU:HD11	D:293:ASN:ND2	0.471
1	D:41:GLY:HA2	D:306:GLY:O	0.471
1	D:63:TRP:CZ3	D:70:LEU:HG	0.471
1	D:164:THR:HG21	D:185:GLY:H	0.471
1	D:211:TRP:CZ2	D:216:GLY:HA2	0.471
1	D:211:TRP:CH2	D:216:GLY:HA2	0.471
1	D:225:HIS:CD2	D:245:SER:CB	0.471
1	D:311:HIS:CD2	D:312:ASP:H	0.471
1	C:228:ARG:HH21	F:114:THR:CG2	0.471
1	F:33:TYR:HE1	F:35:MET:CE	0.471
1	C:49:GLY:C	C:49:GLY:N	0.471
1	C:184:VAL:N	C:209:GLU:O	0.471
1	A:410:MET:HA	D:290:ASP:HB3	0.470
1	A:416:PRO:HG2	D:42:ARG:N	0.470
1	C:54:ASN:CG	C:226:ALA:H	0.470
1	C:159:VAL:HB	C:196:ASP:OD1	0.470
1	C:179:LEU:CD2	C:197:LEU:C	0.470
1	C:185:ILE:HG13	D:97:SER:HA	0.470
1	D:80:ILE:HG12	D:92:ALA:CB	0.470
1	D:190:LEU:HD23	D:191:SER:N	0.470
1	F:28:PHE:HE2	F:33:TYR:HB2	0.470

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	F:37:TRP:O	F:49:VAL:HB	0.470
1	C:182:ILE:CA	C:202:VAL:H	0.470
1	E:16:VAL:CG2	E:17:GLU:N	0.470
1	A:174:LYS:CE	B:7:THR:HG21	0.469
1	A:256:LEU:O	A:260:PRO:HD3	0.469
1	A:361:LEU:HD13	B:6:PHE:HE1	0.469
1	A:413:LEU:CD2	D:289:TYR:CD1	0.469
1	C:127:ARG:CB	C:149:HIS:HB2	0.469
1	C:183:ASP:CB	C:211:LYS:CB	0.469
1	C:341:ILE:CG2	C:345:PHE:CZ	0.469
1	C:383:ILE:CG2	C:384:GLN:N	0.469
1	D:266:HIS:HD2	D:268:ASN:OD1	0.469
1	A:305:ILE:CG2	A:306:CYS:N	0.469
1	D:197:ARG:NH2	D:214:ARG:NH2	0.469
1	F:56:GLY:N	F:73:ARG:NH2	0.469
1	C:57:VAL:CG1	C:81:ARG:HA	0.468
1	C:95:ILE:CG2	C:96:LYS:N	0.468
1	C:54:ASN:ND2	C:226:ALA:CB	0.468
1	C:238:PHE:C	C:238:PHE:CD1	0.468
1	C:281:TRP:NE1	C:289:LEU:CD1	0.468
1	C:321:PRO:CG	C:339:TYR:CD1	0.468
1	C:339:TYR:O	C:343:ASP:HB2	0.468
1	C:26:ILE:CD1	D:92:ALA:HB3	0.468

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:150:ARG:NH2	D:199:PHE:HB3	0.468
1	F:38:VAL:HG11	F:96:TYR:CZ	0.468
1	C:45:LEU:HG	C:46:LEU:N	0.468
1	C:99:LEU:HD22	C:178:PHE:CG	0.467
1	C:106:ILE:CB	C:196:ASP:CB	0.467
1	C:134:VAL:HG21	C:146:PHE:CZ	0.467
1	C:187:GLN:NE2	C:210:THR:CG2	0.467
1	C:244:ILE:CG2	C:286:SER:CA	0.467
1	C:244:ILE:HG12	C:286:SER:O	0.467
1	E:9:ILE:CG2	E:10:ALA:N	0.467
1	E:52:THR:CG2	E:53:PRO:N	0.467
1	F:5:LEU:HD21	F:7:GLU:HG3	0.467
1	C:149:HIS:HD2	C:150:ALA:H	0.467
1	A:358:PHE:CG	A:359:ILE:N	0.467
1	A:401:HIS:ND1	A:402:LEU:N	0.467
1	C:52:GLY:N	C:205:SER:CB	0.467
1	D:177:THR:CG2	D:178:THR:N	0.467
1	D:293:ASN:N	D:293:ASN:ND2	0.467
1	A:6:THR:O	A:6:THR:HG23	0.466
1	A:149:LEU:HD13	D:310:GLY:C	0.466
1	A:184:THR:CG2	A:185:ALA:N	0.466
1	A:228:LEU:HA	A:228:LEU:HD23	0.466
1	C:53:LYS:HZ1	C:94:ASP:HB2	0.466

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:178:PHE:C	C:201:ARG:NH1	0.466
1	C:201:ARG:CA	C:201:ARG:CZ	0.466
1	C:244:ILE:HD11	C:246:PHE:CA	0.466
1	D:199:PHE:CE2	D:211:TRP:CG	0.466
1	A:413:LEU:N	D:291:ASP:CG	0.466
1	C:15:GLU:HG2	C:15:GLU:O	0.466
1	A:412:PRO:C	D:291:ASP:CB	0.465
1	C:59:GLN:OE1	C:91:LYS:HE2	0.465
1	C:92:VAL:HG13	C:205:SER:HA	0.465
1	C:92:VAL:HG22	C:206:GLY:CA	0.465
1	C:126:PHE:CE1	C:130:TYR:CE1	0.465
1	C:179:LEU:CB	C:197:LEU:HB3	0.465
1	C:270:LEU:HD11	F:113:SER:CB	0.465
1	C:296:LEU:CD2	C:297:LEU:N	0.465
1	F:10:GLY:CA	F:125:VAL:CG2	0.465
1	A:70:SER:C	A:72:VAL:H	0.464
1	A:120:PHE:O	A:121:LEU:HB3	0.464
1	A:129:TYR:C	A:129:TYR:CD1	0.464
1	A:283:TRP:C	A:285:ILE:H	0.464
1	A:415:CYS:CB	D:308:LEU:CB	0.464
1	A:415:CYS:SG	A:416:PRO:CD	0.464
1	C:23:ASN:HA	C:26:ILE:HG22	0.464
1	C:57:VAL:HG23	C:59:GLN:HB3	0.464

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:71:GLU:HG3	C:85:ASP:N	0.464
1	C:70:GLY:O	C:84:SER:HA	0.464
1	C:140:PHE:HZ	C:146:PHE:CE1	0.464
1	C:177:TYR:C	C:177:TYR:CD1	0.464
1	C:179:LEU:HD22	C:197:LEU:C	0.464
1	C:182:ILE:CA	C:201:ARG:CA	0.464
1	C:182:ILE:HG23	C:211:LYS:HB3	0.464
1	C:183:ASP:CA	C:211:LYS:CB	0.464
1	C:206:GLY:C	C:207:ILE:HG22	0.464
1	C:244:ILE:CD1	C:246:PHE:N	0.464
1	D:95:LEU:HD13	D:100:VAL:HG21	0.464
1	D:124:TYR:CG	D:133:VAL:HG12	0.464
1	E:62:ARG:O	E:63:GLU:HG2	0.464
1	C:52:GLY:CA	C:205:SER:HB3	0.463
1	C:60:MET:HE2	C:231:ARG:NH2	0.463
1	C:65:VAL:CG1	C:66:ASN:N	0.463
1	C:95:ILE:HG13	C:99:LEU:HG	0.463
1	C:376:PHE:CE2	C:380:ARG:HD3	0.463
1	D:51:LEU:CD1	D:89:LYS:NZ	0.463
1	D:57:LYS:HB2	D:332:TRP:HA	0.463
1	E:35:ALA:CA	E:38:MET:HG2	0.463
1	F:82:LEU:HD12	F:83:GLN:H	0.463
1	A:307:ILE:CG2	A:308:VAL:N	0.463

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:80:ILE:CG2	D:81:ILE:N	0.463
1	A:64:TRP:C	A:66:LEU:H	0.462
1	A:189:HIS:CD2	B:25:TRP:CZ2	0.462
1	A:347:VAL:O	A:348:MET:HB2	0.462
1	C:58:LYS:CB	C:208:PHE:CD2	0.462
1	C:103:ILE:HG23	C:196:ASP:C	0.462
1	C:177:TYR:CB	C:178:PHE:CE1	0.462
1	C:181:LYS:CG	C:186:LYS:C	0.462
1	C:48:ALA:N	C:222:PHE:CZ	0.462
1	C:256:VAL:HG21	C:307:LYS:HD2	0.462
1	C:360:TYR:HD2	C:361:PRO:C	0.462
1	D:51:LEU:HB3	D:336:LEU:CB	0.462
1	D:117:LEU:CD2	D:145:TYR:CG	0.462
1	D:133:VAL:CG1	D:134:ARG:N	0.462
1	D:199:PHE:C	D:199:PHE:CD1	0.462
1	A:415:CYS:SG	A:416:PRO:N	0.462
1	C:382:ILE:CG2	C:383:ILE:N	0.462
1	A:1:ARG:N	A:2:PRO:HD2	0.461
1	C:60:MET:C	C:82:SER:CB	0.461
1	C:74:GLU:CB	C:302:LEU:HD23	0.461
1	C:95:ILE:HA	C:95:ILE:HD12	0.461
1	C:99:LEU:HB2	C:186:LYS:HZ1	0.461
1	C:177:TYR:CE1	C:187:GLN:CG	0.461

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:177:TYR:CE2	C:295:ASP:HB2	0.461
1	C:190:TYR:CG	C:191:VAL:N	0.461
1	C:174:CYS:O	C:198:LEU:HD23	0.461
1	C:48:ALA:CB	C:234:TRP:HB2	0.461
1	C:276:ILE:CG2	C:277:TRP:N	0.461
1	C:360:TYR:CD2	C:361:PRO:C	0.461
1	D:39:PRO:HD3	D:304:ARG:CZ	0.461
1	D:40:VAL:HB	D:305:ALA:O	0.461
1	D:151:PHE:CE2	D:153:ASP:C	0.461
1	D:180:PHE:CE1	D:218:CYS:SG	0.461
1	D:229:ILE:CG1	D:243:THR:HB	0.461
1	D:233:CYS:SG	D:278:PHE:CD1	0.461
1	F:38:VAL:HG13	F:111:VAL:HG11	0.461
1	C:53:LYS:NZ	C:91:LYS:CG	0.461
1	C:159:VAL:CG2	C:160:ARG:N	0.461
1	E:59:ASN:N	E:60:PRO:CD	0.461
1	A:15:LYS:CG	A:65:TYR:HA	0.460
1	A:33:PRO:CG	A:38:PHE:CZ	0.460
1	A:227:TYR:HB2	A:246:TYR:HE1	0.460
1	C:52:GLY:C	C:95:ILE:CG1	0.460
1	C:53:LYS:C	C:91:LYS:HG2	0.460
1	C:53:LYS:CB	C:95:ILE:CB	0.460
1	C:62:ILE:HG21	D:143:THR:HG21	0.460

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:96:LYS:CB	C:204:THR:CG2	0.460
1	C:208:PHE:C	C:208:PHE:CD1	0.460
1	D:229:ILE:CD1	D:243:THR:CB	0.460
1	D:283:ARG:CB	E:41:CYS:SG	0.460
1	C:88:LYS:CD	C:88:LYS:H	0.460
1	D:37:ILE:CG2	D:38:ASP:N	0.460
1	D:146:LEU:CD2	D:148:CYS:H	0.460
1	D:158:VAL:HG12	D:159:THR:N	0.460
1	A:121:LEU:CA	A:124:ILE:CG2	0.459
1	A:222:LEU:O	A:222:LEU:HD22	0.459
1	C:318:TYR:CG	C:319:THR:N	0.459
1	D:77:GLY:HA2	D:95:LEU:HB2	0.459
1	D:123:ILE:HD13	D:171:ILE:HG13	0.459
1	D:225:HIS:CE1	D:226:GLU:HG2	0.459
1	D:292:PHE:HB2	D:313:ASN:O	0.459
1	C:144:PRO:CB	C:147:TYR:HE2	0.459
1	A:156:ILE:HG13	A:246:TYR:OH	0.458
1	A:156:ILE:HD12	A:224:GLU:HB2	0.458
1	A:401:HIS:CG	A:402:LEU:H	0.458
1	C:96:LYS:CE	C:142:PHE:HB3	0.458
1	C:99:LEU:HA	C:198:LEU:HD13	0.458
1	C:109:ALA:O	C:110:MET:HB3	0.458
1	C:180:ASP:OD2	C:212:PHE:HB2	0.458

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:152:LEU:HA	D:152:LEU:HD23	0.458
1	E:35:ALA:HA	E:38:MET:HE3	0.458
1	F:73:ARG:CG	F:74:ASP:N	0.458
1	A:156:ILE:C	A:156:ILE:HD13	0.457
1	A:140:SER:CB	A:161:PHE:CE2	0.457
1	C:53:LYS:CB	C:95:ILE:CA	0.457
1	C:59:GLN:NE2	C:82:SER:CA	0.457
1	C:147:TYR:C	C:147:TYR:CD1	0.457
1	C:183:ASP:H	C:211:LYS:CA	0.457
1	C:233:LYS:HZ1	D:188:MET:HA	0.457
1	D:211:TRP:CD1	D:213:VAL:CG2	0.457
1	D:295:ASN:ND2	D:304:ARG:CZ	0.457
1	F:59:ILE:N	F:59:ILE:HD12	0.457
1	F:19:LEU:O	F:84:MET:HB3	0.457
1	A:275:THR:CG2	A:276:ARG:N	0.457
1	C:183:ASP:N	C:211:LYS:N	0.457
1	E:54:VAL:CG2	E:55:PRO:N	0.457
1	A:24:GLN:O	A:28:THR:HG22	0.456
1	A:219:TYR:CE1	A:253:VAL:HG11	0.456
1	A:239:GLU:HA	A:239:GLU:OE1	0.456
1	A:307:ILE:HG12	C:384:GLN:NE2	0.456
1	A:413:LEU:HB2	D:289:TYR:HB3	0.456
1	A:414:LYS:CD	D:307:VAL:HB	0.456

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:418:SER:CA	D:283:ARG:HD3	0.456
1	C:110:MET:CG	C:162:CYS:SG	0.456
1	C:119:LEU:CD1	C:159:VAL:H	0.456
1	C:131:ILE:CD1	C:199:ARG:HD2	0.456
1	C:269:ALA:O	C:270:LEU:HB2	0.456
1	C:45:LEU:HD22	C:293:LYS:HB3	0.456
1	C:249:ALA:CB	C:305:LYS:HG2	0.456
1	C:355:GLY:C	C:357:HIS:N	0.456
1	D:69:LEU:C	D:69:LEU:HD22	0.456
1	D:70:LEU:O	D:71:VAL:HG22	0.456
1	D:79:LEU:HD12	D:80:ILE:N	0.456
1	D:150:ARG:NH1	D:192:LEU:HA	0.456
1	D:225:HIS:CD2	D:227:SER:C	0.456
1	D:296:VAL:CG1	D:297:TRP:N	0.456
1	E:27:ARG:HD2	E:27:ARG:N	0.456
1	F:99:ARG:HB3	F:118:TYR:CE2	0.456
1	C:55:THR:CG2	C:56:ILE:N	0.456
1	A:150:HIS:HB3	A:154:ASN:HD21	0.455
1	A:185:ALA:CB	A:194:LEU:CD1	0.455
1	C:1:MET:HG2	C:2:GLY:H	0.455
1	C:185:ILE:O	C:202:VAL:HG22	0.455
1	C:274:ASP:HB2	F:109:PHE:CE1	0.455
1	C:283:ARG:C	C:285:THR:N	0.455

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:334:VAL:HG13	C:338:LYS:NZ	0.455
1	D:57:LYS:CD	D:57:LYS:H	0.455
1	D:116:GLY:C	D:118:ASP:H	0.455
1	D:118:ASP:O	D:119:ASN:HB2	0.455
1	D:180:PHE:CB	D:211:TRP:CZ3	0.455
1	D:257:ALA:O	D:258:ASP:HB2	0.455
1	F:11:GLY:O	F:13:VAL:HG23	0.455
1	F:100:CYS:CB	F:108:CYS:SG	0.455
1	A:307:ILE:HG12	C:384:GLN:CD	0.454
1	A:375:VAL:HG13	A:379:TYR:HE1	0.454
1	C:105:THR:HG21	C:195:GLN:OE1	0.454
1	C:106:ILE:CB	C:196:ASP:HB2	0.454
1	C:102:ALA:N	C:198:LEU:CD1	0.454
1	C:292:ASN:CG	C:365:CYS:HG	0.454
1	D:82:TRP:CH2	D:87:THR:HB	0.454
1	D:134:ARG:CG	D:135:VAL:N	0.454
1	D:137:ARG:CG	D:138:GLU:N	0.454
1	D:222:PHE:CE2	D:251:ARG:CD	0.454
1	F:46:LEU:CD1	F:46:LEU:N	0.454
1	A:80:PHE:HB3	A:88:LEU:HB2	0.453
1	A:167:ARG:HA	A:213:CYS:HB3	0.453
1	A:307:ILE:HG23	A:308:VAL:N	0.453
1	A:311:LYS:C	A:311:LYS:HD3	0.453

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:335:PRO:HB3	A:371:GLN:OE1	0.453
1	B:3:GLU:OE1	B:6:PHE:HB3	0.453
1	C:53:LYS:HE3	C:94:ASP:CA	0.453
1	C:63:LEU:N	C:63:LEU:HD12	0.453
1	C:162:CYS:C	C:164:GLU:H	0.453
1	C:169:TYR:CG	C:170:GLN:N	0.453
1	C:175:ALA:HA	C:198:LEU:HB2	0.453
1	C:181:LYS:HE3	C:186:LYS:O	0.453
1	C:96:LYS:CB	C:204:THR:HA	0.453
1	C:294:GLN:CA	C:305:LYS:CG	0.453
1	D:22:ARG:HG2	D:259:GLN:OE1	0.453
1	D:101:MET:HG3	D:145:TYR:CE1	0.453
1	D:183:HIS:CE1	D:205:ASP:HB3	0.453
1	D:319:GLY:O	D:327:VAL:HG13	0.453
1	F:10:GLY:HA2	F:125:VAL:HG22	0.453
1	C:279:ASN:O	C:283:ARG:N	0.453
1	C:308:ILE:CG2	C:309:GLU:N	0.453
1	A:71:SER:HB3	A:108:ARG:HB2	0.452
1	A:260:PRO:O	A:264:VAL:HG23	0.452
1	A:409:SER:C	A:411:LYS:H	0.452
1	C:55:THR:OG1	C:95:ILE:CD1	0.452
1	C:106:ILE:HA	C:106:ILE:HD13	0.452
1	C:163:TYR:HD2	C:194:ASP:C	0.452

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:252:SER:CB	C:256:VAL:CG1	0.452
1	C:269:ALA:HB1	C:273:PHE:CE2	0.452
1	C:274:ASP:HB2	F:109:PHE:HE1	0.452
1	C:279:ASN:HB3	C:281:TRP:C	0.452
1	D:124:TYR:CE2	D:133:VAL:HG12	0.452
1	D:139:LEU:HD23	D:140:ALA:O	0.452
1	D:213:VAL:C	D:215:GLU:H	0.452
1	D:204:CYS:O	D:228:ASP:HA	0.452
1	D:280:LYS:CG	D:324:GLY:CA	0.452
1	A:33:PRO:CG	A:38:PHE:CD2	0.451
1	A:32:PRO:HB3	A:33:PRO:HD2	0.451
1	A:79:ARG:CZ	A:98:ARG:HE	0.451
1	A:405:GLN:CG	A:406:ARG:N	0.451
1	C:103:ILE:O	C:104:GLU:HB2	0.451
1	C:186:LYS:C	C:209:GLU:C	0.451
1	D:4:LEU:CD1	D:8:ARG:CG	0.451
1	D:62:HIS:O	D:70:LEU:HD22	0.451
1	D:225:HIS:CE1	D:226:GLU:CD	0.451
1	D:220:GLN:OE1	E:22:GLU:HG2	0.451
1	E:54:VAL:CG2	E:55:PRO:CD	0.451
1	C:294:GLN:CG	C:305:LYS:N	0.451
1	D:96:ARG:CG	D:97:SER:N	0.451
1	C:52:GLY:N	C:207:ILE:HA	0.450

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:379:CYS:C	C:381:ASP:H	0.450
1	D:106:ALA:HB2	D:151:PHE:CZ	0.450
1	C:89:ALA:CA	D:119:ASN:CB	0.450
1	D:120:ILE:CG2	D:138:GLU:HB2	0.450
1	D:226:GLU:HB3	F:28:PHE:HD1	0.450
1	A:120:PHE:CD2	A:121:LEU:N	0.449
1	A:415:CYS:CB	A:416:PRO:CD	0.449
1	C:54:ASN:HB3	C:59:GLN:C	0.449
1	C:58:LYS:CG	C:58:LYS:O	0.449
1	C:102:ALA:CB	C:195:GLN:CB	0.449
1	C:103:ILE:HG13	C:131:ILE:HD11	0.449
1	C:127:ARG:CB	C:153:LEU:CD2	0.449
1	C:183:ASP:HB3	C:211:LYS:HB3	0.449
1	C:184:VAL:CA	C:209:GLU:O	0.449
1	C:47:GLY:O	C:234:TRP:CD1	0.449
1	C:240:ASP:HB2	D:57:LYS:CE	0.449
1	C:312:PHE:HZ	C:314:GLU:HB2	0.449
1	D:57:LYS:C	D:74:SER:HB2	0.449
1	D:57:LYS:H	D:57:LYS:HD2	0.449
1	D:59:TYR:C	D:59:TYR:CD1	0.449
1	D:158:VAL:HG11	D:190:LEU:HD11	0.449
1	D:311:HIS:HE1	D:335:PHE:CD2	0.449
1	F:94:VAL:CG2	F:124:GLN:HG2	0.449

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:256:VAL:HG12	C:257:ILE:N	0.449
1	D:99:TRP:CG	D:100:VAL:N	0.449
1	A:409:SER:C	A:411:LYS:N	0.448
1	C:46:LEU:C	C:224:VAL:HG23	0.448
1	C:127:ARG:CD	C:153:LEU:CD2	0.448
1	C:183:ASP:CA	C:211:LYS:HB3	0.448
1	C:44:LEU:O	C:244:ILE:HG22	0.448
1	C:268:ALA:CB	C:306:SER:CB	0.448
1	D:165:THR:O	D:165:THR:HG23	0.448
1	D:242:ALA:CB	D:278:PHE:CZ	0.448
1	D:287:ALA:C	D:294:CYS:HG	0.448
1	D:313:ASN:HB3	D:332:TRP:HB2	0.448
1	F:13:VAL:CG1	F:17:GLY:CA	0.448
1	C:261:ASN:N	F:44:LYS:HG3	0.448
1	F:35:MET:CG	F:36:ASN:N	0.448
1	A:76:HIS:H	A:102:GLU:CD	0.447
1	A:308:VAL:O	A:311:LYS:HB3	0.447
1	C:106:ILE:CG2	C:196:ASP:HB2	0.447
1	C:279:ASN:CB	C:282:LEU:N	0.447
1	D:115:GLY:HA3	D:146:LEU:CG	0.447
1	D:230:ASN:HB2	D:273:ILE:O	0.447
1	D:266:HIS:CG	D:267:ASP:H	0.447
1	D:336:LEU:HD13	D:337:LYS:N	0.447

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:308:LEU:CD1	D:337:LYS:HE3	0.447
1	E:48:ASP:OD1	E:49:PRO:HA	0.447
1	F:73:ARG:CB	F:80:LEU:CD1	0.447
1	A:242:ILE:O	A:243:PHE:HB2	0.446
1	A:344:PHE:CE1	A:360:LYS:CD	0.446
1	B:17:GLN:HA	B:20:LYS:CE	0.446
1	C:55:THR:OG1	C:178:PHE:CD1	0.446
1	C:178:PHE:CD1	C:178:PHE:N	0.446
1	C:88:LYS:CG	C:226:ALA:CB	0.446
1	C:234:TRP:CE2	C:237:CYS:HB3	0.446
1	C:244:ILE:CG1	C:286:SER:C	0.446
1	D:168:LEU:HB2	D:178:THR:HG22	0.446
1	D:234:PHE:HA	D:241:PHE:HB3	0.446
1	D:316:SER:O	D:317:CYS:HB2	0.446
1	C:296:LEU:CD2	C:298:ALA:H	0.446
1	D:225:HIS:NE2	D:245:SER:CB	0.446
1	A:316:LEU:C	A:318:CYS:N	0.445
1	A:415:CYS:HB2	D:308:LEU:CB	0.445
1	C:53:LYS:CE	C:94:ASP:CB	0.445
1	C:171:LEU:CB	C:195:GLN:CG	0.445
1	C:180:ASP:HB3	C:188:ALA:C	0.445
1	C:185:ILE:CA	C:202:VAL:HG22	0.445
1	D:63:TRP:CD2	D:321:THR:HG22	0.445

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:85:TYR:C	D:85:TYR:CD1	0.445
1	F:39:ARG:HG3	F:49:VAL:HG21	0.445
1	F:44:LYS:CG	F:45:GLY:N	0.445
1	A:405:GLN:CG	A:406:ARG:H	0.445
1	C:78:GLN:CG	C:79:ALA:H	0.445
1	D:211:TRP:NE1	D:213:VAL:N	0.445
1	C:37:TYR:C	C:39:ALA:H	0.444
1	C:97:ASN:CG	C:100:LYS:HE2	0.444
1	C:181:LYS:HA	C:210:THR:CB	0.444
1	C:182:ILE:HA	C:201:ARG:CA	0.444
1	C:224:VAL:HG13	C:227:GLN:HE21	0.444
1	C:278:ASN:ND2	C:283:ARG:CB	0.444
1	D:124:TYR:CZ	D:133:VAL:CB	0.444
1	D:186:ASP:O	D:203:ALA:HA	0.444
1	D:318:LEU:CD2	D:327:VAL:CG1	0.444
1	A:417:THR:N	D:42:ARG:CG	0.444
1	C:117:VAL:CG1	C:118:GLU:N	0.444
1	A:156:ILE:CG1	A:246:TYR:CE2	0.443
1	A:185:ALA:HB3	A:194:LEU:HD11	0.443
1	A:413:LEU:HD21	D:269:ILE:HB	0.443
1	C:54:ASN:HD22	C:91:LYS:HD2	0.443
1	C:81:ARG:HB3	C:267:GLN:HG3	0.443
1	D:70:LEU:HB3	D:82:TRP:HD1	0.443

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:96:ARG:HD2	D:96:ARG:N	0.443
1	D:150:ARG:HE	D:158:VAL:HG21	0.443
1	D:181:THR:CG2	E:14:LYS:NZ	0.443
1	E:13:ARG:C	E:16:VAL:HG22	0.443
1	C:53:LYS:HB2	C:55:THR:HB	0.442
1	C:92:VAL:HA	C:95:ILE:HG22	0.442
1	C:99:LEU:HA	C:198:LEU:CD1	0.442
1	C:251:SER:HA	C:308:ILE:CG2	0.442
1	C:279:ASN:C	C:282:LEU:H	0.442
1	C:247:VAL:HG22	C:290:PHE:HB2	0.442
1	C:301:VAL:CG1	C:302:LEU:HD22	0.442
1	C:294:GLN:CA	C:305:LYS:CB	0.442
1	D:167:ALA:HB2	D:179:THR:OG1	0.442
1	E:2:ALA:CB	E:11:GLN:HG2	0.442
1	A:259:VAL:N	A:260:PRO:CD	0.442
1	C:54:ASN:ND2	C:91:LYS:NZ	0.442
1	A:136:LEU:CD2	A:376:ALA:HB2	0.441
1	C:52:GLY:C	C:95:ILE:HG12	0.441
1	C:110:MET:CB	C:162:CYS:SG	0.441
1	C:113:LEU:HD13	C:165:ARG:HE	0.441
1	C:119:LEU:CD1	C:159:VAL:N	0.441
1	C:163:TYR:CG	C:194:ASP:HB2	0.441
1	C:74:GLU:CG	C:301:VAL:CG1	0.441

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:302:LEU:HA	C:302:LEU:HD13	0.441
1	F:13:VAL:CG1	F:87:LEU:HD11	0.441
1	D:203:ALA:H	D:229:ILE:CG2	0.441
1	D:211:TRP:NE1	D:213:VAL:H	0.441
1	E:48:ASP:CA	E:50:LEU:N	0.441
1	A:120:PHE:C	A:122:TYR:H	0.440
1	A:222:LEU:HA	A:297:ASN:ND2	0.440
1	A:257:PHE:CD2	A:289:PRO:HG2	0.440
1	C:59:GLN:CD	C:91:LYS:CE	0.440
1	C:171:LEU:C	C:171:LEU:HD22	0.440
1	C:184:VAL:CB	C:209:GLU:C	0.440
1	C:187:GLN:C	C:210:THR:HB	0.440
1	C:45:LEU:O	C:244:ILE:HD12	0.440
1	C:268:ALA:CB	C:306:SER:HA	0.440
1	C:278:ASN:CB	C:283:ARG:HB2	0.440
1	C:348:ILE:HD11	F:106:ARG:NH2	0.440
1	D:120:ILE:CD1	D:140:ALA:HB2	0.440
1	F:116:TYR:O	F:117:ALA:HB2	0.440
1	C:182:ILE:CG1	C:183:ASP:N	0.440
1	A:258:VAL:C	A:260:PRO:HD2	0.439
1	A:280:MET:HG2	A:284:LEU:HG	0.439
1	C:48:ALA:CA	C:48:ALA:O	0.439
1	C:99:LEU:O	C:199:ARG:HA	0.439

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:182:ILE:CB	C:201:ARG:HA	0.439
1	C:201:ARG:HB2	C:201:ARG:HH11	0.439
1	C:184:VAL:CG2	C:220:HIS:HB3	0.439
1	C:42:ARG:CB	C:241:VAL:HG22	0.439
1	C:294:GLN:HA	C:305:LYS:HA	0.439
1	D:164:THR:HG21	D:183:HIS:O	0.439
1	A:315:ASN:CB	A:319:LYS:H	0.439
1	F:38:VAL:CG1	F:39:ARG:N	0.439
1	A:243:PHE:O	A:247:VAL:HG23	0.438
1	A:261:TRP:CE3	A:261:TRP:HA	0.438
1	A:336:LEU:CB	A:375:VAL:HG21	0.438
1	C:12:GLN:HA	C:15:GLU:HB2	0.438
1	C:233:LYS:HD2	D:188:MET:HE3	0.438
1	C:234:TRP:CH2	C:237:CYS:SG	0.438
1	C:342:ARG:HG3	C:361:PRO:CG	0.438
1	D:82:TRP:CZ3	D:87:THR:HA	0.438
1	D:191:SER:C	D:234:PHE:HE2	0.438
1	D:200:VAL:CG1	D:232:ILE:CD1	0.438
1	D:274:THR:HG21	D:316:SER:H	0.438
1	E:5:ASN:ND2	E:6:THR:HG23	0.438
1	A:239:GLU:CG	A:240:GLN:N	0.438
1	C:292:ASN:ND2	C:300:LYS:CD	0.438
1	D:42:ARG:NH1	D:340:ASN:HD21	0.438

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:326:LEU:O	A:330:THR:HG22	0.437
1	A:401:HIS:CG	A:402:LEU:N	0.437
1	C:42:ARG:CZ	C:42:ARG:HB2	0.437
1	C:51:SER:C	C:205:SER:HB3	0.437
1	C:175:ALA:C	C:179:LEU:CD2	0.437
1	C:372:ILE:HG22	C:373:ARG:N	0.437
1	D:52:ARG:HG2	D:53:GLY:H	0.437
1	D:54:HIS:CE1	D:80:ILE:HB	0.437
1	D:190:LEU:CD2	D:191:SER:N	0.437
1	D:150:ARG:HH11	D:192:LEU:CB	0.437
1	D:63:TRP:NE1	D:321:THR:CG2	0.437
1	A:71:SER:O	A:107:LYS:HB3	0.436
1	A:182:TYR:HB2	B:18:ALA:HB3	0.436
1	A:220:TRP:O	A:221:LEU:HB3	0.436
1	C:119:LEU:HD22	C:153:LEU:CD1	0.436
1	C:163:TYR:HB2	C:196:ASP:HB2	0.436
1	C:217:VAL:HG21	C:376:PHE:CZ	0.436
1	C:294:GLN:CA	C:305:LYS:HB3	0.436
1	D:60:ALA:O	D:61:MET:HB2	0.436
1	D:82:TRP:CH2	D:87:THR:CA	0.436
1	E:10:ALA:C	E:12:ALA:H	0.436
1	E:32:LYS:HA	E:32:LYS:HD3	0.436
1	D:59:TYR:HD1	D:101:MET:O	0.436

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:50:PRO:HG2	A:58:VAL:CG1	0.435
1	B:25:TRP:NE1	B:31:GLY:HA2	0.435
1	C:58:LYS:C	C:225:GLY:HA2	0.435
1	C:184:VAL:CG2	C:220:HIS:C	0.435
1	C:244:ILE:CD1	C:285:THR:CG2	0.435
1	C:296:LEU:HB3	C:299:GLU:CA	0.435
1	C:376:PHE:CE2	C:380:ARG:HD2	0.435
1	D:20:ASP:OD1	D:23:LYS:HE3	0.435
1	D:139:LEU:CD1	D:169:TRP:CG	0.435
1	D:295:ASN:HD22	D:304:ARG:CD	0.435
1	A:282:TYR:H	A:282:TYR:HD1	0.435
1	C:25:LYS:HA	C:25:LYS:HD2	0.434
1	C:46:LEU:HD12	C:58:LYS:HZ1	0.434
1	C:59:GLN:CD	C:82:SER:CA	0.434
1	C:102:ALA:CA	C:105:THR:HG22	0.434
1	C:181:LYS:CG	C:186:LYS:HB3	0.434
1	C:44:LEU:CB	C:244:ILE:HG22	0.434
1	D:134:ARG:HG3	D:135:VAL:N	0.434
1	D:200:VAL:CG2	D:234:PHE:CE1	0.434
1	E:47:GLU:OE1	E:51:LEU:HD22	0.434
1	A:138:ILE:HG22	A:142:ILE:CD1	0.433
1	A:148:HIS:CD2	A:384:ASN:ND2	0.433
1	A:261:TRP:CE2	A:265:LYS:CD	0.433

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:50:GLU:CA	C:209:GLU:CD	0.433
1	C:50:GLU:HG2	D:99:TRP:CA	0.433
1	C:56:ILE:HA	C:178:PHE:HZ	0.433
1	C:60:MET:O	C:88:LYS:HE2	0.433
1	C:96:LYS:CD	C:204:THR:CG2	0.433
1	C:114:VAL:HG13	C:115:PRO:HD3	0.433
1	C:149:HIS:O	C:153:LEU:HD23	0.433
1	C:182:ILE:HG13	C:201:ARG:O	0.433
1	C:188:ALA:HB1	C:296:LEU:CD2	0.433
1	C:292:ASN:OD1	C:300:LYS:HD2	0.433
1	D:35:ASN:HB2	D:263:THR:HG21	0.433
1	D:124:TYR:CD2	D:133:VAL:CG1	0.433
1	D:145:TYR:CD1	D:147:SER:N	0.433
1	D:200:VAL:HG23	D:234:PHE:HZ	0.433
1	D:222:PHE:HE2	D:251:ARG:HD2	0.433
1	D:253:PHE:CE1	D:258:ASP:C	0.433
1	F:38:VAL:HG11	F:111:VAL:CG1	0.433
1	A:126:THR:OG1	A:129:TYR:HE2	0.433
1	A:10:TRP:CB	A:198:GLN:HE22	0.433
1	C:43:LEU:HA	C:243:ALA:O	0.432
1	C:163:TYR:C	C:163:TYR:CD1	0.432
1	C:175:ALA:CA	C:198:LEU:CB	0.432
1	C:294:GLN:CB	C:305:LYS:N	0.432

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:4:LEU:HD13	D:8:ARG:CG	0.432
1	D:152:LEU:HD11	D:192:LEU:HD21	0.432
1	D:318:LEU:HD22	D:329:THR:CB	0.432
1	C:177:TYR:O	C:188:ALA:N	0.432
1	D:263:THR:O	D:263:THR:HG23	0.432
1	A:315:ASN:CB	A:319:LYS:HB2	0.431
1	A:402:LEU:HA	A:402:LEU:HD23	0.431
1	B:22:PHE:HE2	B:26:LEU:HD12	0.431
1	C:20:ARG:HG2	C:20:ARG:NH1	0.431
1	C:48:ALA:HB2	C:234:TRP:CD2	0.431
1	C:52:GLY:HA2	C:186:LYS:HG3	0.431
1	C:93:GLN:H	C:95:ILE:HG23	0.431
1	C:114:VAL:O	C:114:VAL:HG22	0.431
1	C:175:ALA:C	C:179:LEU:HD21	0.431
1	C:186:LYS:CE	C:203:LEU:C	0.431
1	C:184:VAL:CG1	C:209:GLU:CD	0.431
1	C:216:LYS:H	C:216:LYS:HD2	0.431
1	C:223:ASP:CG	C:224:VAL:N	0.431
1	C:376:PHE:CZ	C:380:ARG:HD2	0.431
1	D:17:GLN:O	D:20:ASP:HB3	0.431
1	D:139:LEU:CD2	D:169:TRP:CZ3	0.431
1	E:5:ASN:HD21	E:6:THR:HG23	0.431
1	F:27:GLY:O	F:28:PHE:HB2	0.431

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	F:37:TRP:HB3	F:49:VAL:HB	0.431
1	D:167:ALA:CB	D:176:GLN:NE2	0.431
1	A:311:LYS:C	A:311:LYS:CD	0.430
1	A:334:ILE:CG2	A:337:LEU:HB3	0.430
1	A:411:LYS:CB	A:412:PRO:HD3	0.430
1	B:10:VAL:O	B:14:LEU:HB2	0.430
1	C:147:TYR:HB3	C:203:LEU:HD22	0.430
1	C:207:ILE:HG13	C:208:PHE:CB	0.430
1	C:277:TRP:HB3	F:108:CYS:O	0.430
1	D:251:ARG:HB2	D:260:GLU:HG3	0.430
1	D:39:PRO:HA	D:304:ARG:HD2	0.430
1	A:54:PRO:HA	A:81:CYS:SG	0.429
1	A:136:LEU:HB3	A:161:PHE:HD1	0.429
1	C:103:ILE:HG13	C:131:ILE:CD1	0.429
1	C:119:LEU:CD1	C:159:VAL:HG13	0.429
1	C:143:PRO:CG	C:146:PHE:CD1	0.429
1	C:186:LYS:CE	C:203:LEU:CA	0.429
1	C:102:ALA:CB	C:195:GLN:HA	0.429
1	C:147:TYR:CB	C:203:LEU:CD2	0.429
1	C:294:GLN:HA	C:305:LYS:CG	0.429
1	C:321:PRO:O	C:322:GLU:HB3	0.429
1	D:71:VAL:HG21	D:105:TYR:CB	0.429
1	D:49:ARG:N	D:338:ILE:HG21	0.429

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	E:43:ALA:HA	E:49:PRO:HB3	0.429
1	D:281:SER:OG	E:44:HIS:HB3	0.429
1	D:225:HIS:CG	D:226:GLU:N	0.429
1	A:45:GLU:CD	B:26:LEU:HG	0.428
1	A:95:LEU:CB	A:96:PRO:CD	0.428
1	A:390:PHE:CE2	A:394:TRP:HB2	0.428
1	C:51:SER:C	C:207:ILE:C	0.428
1	D:117:LEU:HD21	D:145:TYR:CG	0.428
1	F:30:PHE:CD1	F:78:ASN:CG	0.428
1	C:207:ILE:CD1	C:208:PHE:N	0.428
1	A:174:LYS:HD2	B:7:THR:CG2	0.427
1	A:261:TRP:CH2	A:282:TYR:CB	0.427
1	A:420:LEU:HG	D:301:LYS:CB	0.427
1	A:275:THR:HG1	B:11:SER:HB3	0.427
1	C:88:LYS:O	C:89:ALA:HB3	0.427
1	C:99:LEU:CD2	C:178:PHE:CB	0.427
1	C:103:ILE:HG12	C:199:ARG:CA	0.427
1	C:103:ILE:HG23	C:196:ASP:O	0.427
1	C:163:TYR:CD2	C:194:ASP:CA	0.427
1	C:201:ARG:HE	C:202:VAL:C	0.427
1	C:352:SER:C	C:354:ASP:N	0.427
1	F:84:MET:HE3	F:87:LEU:HD12	0.427
1	F:33:TYR:OH	F:99:ARG:HB3	0.427

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:52:GLY:N	C:208:PHE:N	0.427
1	C:187:GLN:HE21	C:208:PHE:HZ	0.427
1	C:280:LYS:CA	C:283:ARG:O	0.427
1	A:78:TYR:HB3	A:99:ASP:OD1	0.426
1	A:121:LEU:H	A:124:ILE:HG22	0.426
1	A:138:ILE:HG22	A:142:ILE:HD11	0.426
1	A:146:PHE:HZ	A:149:LEU:HG	0.426
1	A:174:LYS:CB	A:210:MET:CE	0.426
1	A:237:LEU:HA	A:237:LEU:HD23	0.426
1	A:241:TRP:CZ3	A:245:LEU:HG	0.426
1	C:55:THR:CB	C:95:ILE:CD1	0.426
1	C:185:ILE:HG23	C:202:VAL:CG2	0.426
1	C:187:GLN:HG2	C:188:ALA:H	0.426
1	C:255:MET:HG2	C:255:MET:O	0.426
1	C:269:ALA:C	C:271:LYS:H	0.426
1	D:106:ALA:HB1	D:151:PHE:CZ	0.426
1	D:168:LEU:CB	D:177:THR:HG22	0.426
1	D:222:PHE:CD2	D:251:ARG:CZ	0.426
1	D:226:GLU:HB2	F:28:PHE:CD1	0.426
1	D:48:ARG:NH1	D:326:ALA:HB2	0.426
1	E:12:ALA:HA	E:15:LEU:CG	0.426
1	D:225:HIS:HD2	D:227:SER:O	0.426
1	D:292:PHE:HD1	D:313:ASN:O	0.426

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:13:VAL:CG1	A:14:GLN:N	0.426
1	C:87:GLU:O	C:91:LYS:N	0.426
1	C:51:SER:CB	C:207:ILE:O	0.425
1	C:106:ILE:HG12	C:196:ASP:N	0.425
1	C:182:ILE:CG2	C:211:LYS:O	0.425
1	C:187:GLN:CA	C:210:THR:CB	0.425
1	C:52:GLY:H	C:205:SER:C	0.425
1	C:232:ARG:HG2	C:283:ARG:NH2	0.425
1	C:273:PHE:CG	F:111:VAL:CG2	0.425
1	D:39:PRO:HB3	D:304:ARG:NH1	0.425
1	D:124:TYR:CE1	D:133:VAL:C	0.425
1	D:194:PRO:HG2	D:195:ASP:H	0.425
1	D:287:ALA:C	D:294:CYS:SG	0.425
1	A:12:THR:O	A:65:TYR:HE1	0.425
1	C:250:SER:CB	C:308:ILE:N	0.425
1	A:230:THR:C	A:232:LEU:H	0.424
1	A:203:CYS:SG	A:273:CYS:HB3	0.424
1	A:299:LEU:C	A:299:LEU:HD22	0.424
1	C:201:ARG:C	C:201:ARG:NE	0.424
1	C:247:VAL:HG13	C:249:ALA:CB	0.424
1	D:280:LYS:HA	D:280:LYS:HD2	0.424
1	F:35:MET:CE	F:80:LEU:HD23	0.424
1	D:292:PHE:HE2	D:310:GLY:H	0.424

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	F:75:ASN:ND2	F:76:ALA:N	0.424
1	A:15:LYS:HG2	A:65:TYR:HA	0.423
1	A:18:GLU:C	A:20:ARG:H	0.423
1	A:156:ILE:HG12	A:246:TYR:HE2	0.423
1	A:205:LEU:C	A:205:LEU:CD2	0.423
1	C:89:ALA:CA	D:119:ASN:HB3	0.423
1	C:98:ASN:HB2	C:99:LEU:CD2	0.423
1	C:99:LEU:HG	C:186:LYS:HE3	0.423
1	C:127:ARG:HD2	C:153:LEU:HD21	0.423
1	C:183:ASP:O	C:220:HIS:CG	0.423
1	C:252:SER:HB2	C:256:VAL:HG22	0.423
1	D:51:LEU:HD12	D:89:LYS:HZ1	0.423
1	C:38:ARG:NH2	D:55:LEU:HG	0.423
1	D:65:THR:HA	D:322:ASP:OD1	0.423
1	D:145:TYR:CE1	D:147:SER:CB	0.423
1	D:145:TYR:CZ	D:147:SER:HB3	0.423
1	D:296:VAL:O	D:304:ARG:HG3	0.423
1	E:19:LEU:C	E:19:LEU:HD22	0.423
1	F:88:LYS:HA	F:88:LYS:HD3	0.423
1	C:54:ASN:HD21	C:91:LYS:NZ	0.423
1	C:54:ASN:HD22	C:59:GLN:CG	0.423
1	C:105:THR:CG2	C:106:ILE:N	0.423
1	A:334:ILE:HB	A:339:THR:HG22	0.422

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:399:LEU:O	A:400:GLU:HG3	0.422
1	A:415:CYS:HB3	D:308:LEU:CB	0.422
1	B:17:GLN:HA	B:20:LYS:HE2	0.422
1	B:23:ILE:HG12	B:27:VAL:CG2	0.422
1	C:57:VAL:HG11	C:81:ARG:CA	0.422
1	C:61:ARG:C	C:88:LYS:NZ	0.422
1	C:62:ILE:HD12	C:88:LYS:HD3	0.422
1	C:95:ILE:HD11	C:99:LEU:CD2	0.422
1	C:163:TYR:CD2	C:194:ASP:C	0.422
1	C:250:SER:HB3	C:308:ILE:HA	0.422
1	C:270:LEU:HD21	F:113:SER:N	0.422
1	C:338:LYS:HE3	C:363:PHE:CE1	0.422
1	D:225:HIS:HD2	D:227:SER:C	0.422
1	F:12:LEU:C	F:13:VAL:HG23	0.422
1	C:96:LYS:CE	C:140:PHE:HD2	0.422
1	D:266:HIS:HD2	D:268:ASN:H	0.422
1	A:339:THR:CG2	A:340:HIS:N	0.422
1	F:59:ILE:HG22	F:60:SER:N	0.422
1	A:261:TRP:CZ2	A:274:TRP:CZ2	0.421
1	C:53:LYS:HE2	C:94:ASP:HB3	0.421
1	C:81:ARG:HG3	C:265:ARG:NH2	0.421
1	C:95:ILE:CD1	C:99:LEU:CD2	0.421
1	D:222:PHE:CE2	D:224:GLY:HA3	0.421

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:232:ILE:HA	D:243:THR:HG22	0.421
1	A:44:ASP:H	A:98:ARG:NH2	0.421
1	D:134:ARG:CG	D:135:VAL:H	0.421
1	A:75:GLY:HA2	A:102:GLU:CD	0.420
1	A:136:LEU:C	A:161:PHE:HE1	0.420
1	A:160:LEU:HB2	A:220:TRP:HB3	0.420
1	A:189:HIS:CG	A:189:HIS:O	0.420
1	A:261:TRP:HA	A:261:TRP:HE3	0.420
1	C:49:GLY:HA3	D:118:ASP:N	0.420
1	C:59:GLN:CD	C:82:SER:C	0.420
1	C:88:LYS:HD3	D:143:THR:OG1	0.420
1	C:142:PHE:CD2	C:143:PRO:O	0.420
1	C:186:LYS:C	C:209:GLU:N	0.420
1	C:44:LEU:O	C:244:ILE:CB	0.420
1	D:197:ARG:O	D:198:LEU:HB3	0.420
1	D:288:GLY:HA3	D:315:VAL:HG21	0.420
1	D:318:LEU:HD11	D:327:VAL:HG13	0.420
1	A:181:MET:C	A:181:MET:SD	0.419
1	B:16:GLY:O	B:19:ALA:HB3	0.419
1	C:19:GLN:HA	C:19:GLN:HE21	0.419
1	C:76:ASP:CB	C:77:PRO:CD	0.419
1	C:179:LEU:HD21	C:194:ASP:O	0.419
1	C:217:VAL:HG21	C:376:PHE:HE1	0.419

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:266:LEU:HD13	C:270:LEU:CD1	0.419
1	C:273:PHE:CG	F:111:VAL:HG23	0.419
1	C:279:ASN:OD1	C:281:TRP:HB2	0.419
1	C:356:ARG:O	C:357:HIS:CG	0.419
1	C:379:CYS:C	C:381:ASP:N	0.419
1	D:206:ALA:HB2	D:225:HIS:O	0.419
1	D:314:ARG:CG	D:315:VAL:N	0.419
1	D:318:LEU:CD1	D:327:VAL:CG1	0.419
1	F:39:ARG:HG3	F:49:VAL:CG2	0.419
1	F:99:ARG:N	F:118:TYR:CE2	0.419
1	A:173:ILE:CG2	A:174:LYS:N	0.419
1	D:63:TRP:HE1	D:67:SER:CA	0.419
1	C:292:ASN:CB	C:365:CYS:SG	0.419
1	A:49:TRP:CD1	A:50:PRO:O	0.418
1	C:48:ALA:HB1	D:117:LEU:CG	0.418
1	C:151:LYS:HG3	C:182:ILE:CD1	0.418
1	C:56:ILE:O	C:177:TYR:CE2	0.418
1	C:174:CYS:O	C:178:PHE:CD2	0.418
1	C:348:ILE:HA	C:348:ILE:HD12	0.418
1	D:63:TRP:CG	D:321:THR:HG22	0.418
1	D:150:ARG:HH12	D:199:PHE:HB3	0.418
1	F:16:GLY:O	F:87:LEU:HD13	0.418
1	D:292:PHE:HD2	D:293:ASN:ND2	0.418

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:261:ASN:HB2	F:44:LYS:HZ2	0.418
1	A:129:TYR:CD1	A:130:ALA:N	0.417
1	A:136:LEU:HD12	A:164:PHE:CD2	0.417
1	A:227:TYR:HB2	A:246:TYR:OH	0.417
1	A:325:ARG:C	A:327:ALA:N	0.417
1	A:334:ILE:CG2	A:339:THR:HB	0.417
1	A:436:GLN:CD	A:436:GLN:H	0.417
1	B:26:LEU:HA	B:31:GLY:HA3	0.417
1	C:13:ARG:HA	C:13:ARG:HD3	0.417
1	C:55:THR:HG23	C:56:ILE:H	0.417
1	C:60:MET:N	C:82:SER:CB	0.417
1	C:261:ASN:HB2	F:44:LYS:NZ	0.417
1	C:294:GLN:CB	C:300:LYS:CB	0.417
1	D:104:ALA:O	D:105:TYR:HB3	0.417
1	D:111:TYR:CE1	D:151:PHE:HE1	0.417
1	D:124:TYR:CZ	D:133:VAL:HB	0.417
1	D:231:ALA:CB	D:275:SER:HA	0.417
1	A:418:SER:CB	D:283:ARG:CD	0.417
1	A:121:LEU:C	A:121:LEU:HD23	0.416
1	A:336:LEU:C	A:336:LEU:HD12	0.416
1	C:54:ASN:HB3	C:59:GLN:CG	0.416
1	C:124:ASN:HD22	C:153:LEU:HD11	0.416
1	C:99:LEU:CD1	C:186:LYS:CG	0.416

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:289:LEU:HD22	C:359:CYS:HB3	0.416
1	C:296:LEU:HB2	C:299:GLU:HB3	0.416
1	A:315:ASN:HD21	C:346:LEU:CG	0.416
1	D:183:HIS:CE1	D:205:ASP:N	0.416
1	D:211:TRP:CH2	D:216:GLY:CA	0.416
1	F:1:MET:SD	F:4:GLN:HG2	0.416
1	F:12:LEU:CD2	F:12:LEU:H	0.416
1	F:59:ILE:CD1	F:59:ILE:H	0.416
1	A:280:MET:HG2	A:284:LEU:CD1	0.415
1	C:8:LYS:HB3	C:8:LYS:HZ3	0.415
1	C:175:ALA:HB3	C:194:ASP:C	0.415
1	C:187:GLN:CD	C:210:THR:HG21	0.415
1	C:281:TRP:CZ2	C:345:PHE:CG	0.415
1	D:4:LEU:HD21	D:8:ARG:HE	0.415
1	D:6:GLN:HA	D:6:GLN:OE1	0.415
1	D:61:MET:C	D:61:MET:SD	0.415
1	D:133:VAL:HG13	D:134:ARG:H	0.415
1	F:2:GLN:CD	F:3:VAL:N	0.415
1	F:30:PHE:CG	F:78:ASN:CG	0.415
1	B:5:THR:CG2	B:6:PHE:N	0.415
1	D:311:HIS:NE2	D:333:ASP:CB	0.415
1	C:270:LEU:HD11	F:113:SER:H	0.415
1	A:9:LEU:C	A:9:LEU:CD2	0.414

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:152:THR:O	A:155:TYR:HB3	0.414
1	A:220:TRP:C	A:222:LEU:H	0.414
1	A:236:VAL:HB	C:216:LYS:HB3	0.414
1	A:238:SER:O	A:239:GLU:HB2	0.414
1	A:223:VAL:CG1	A:246:TYR:CE1	0.414
1	A:420:LEU:HD11	D:301:LYS:CB	0.414
1	C:52:GLY:C	C:208:PHE:H	0.414
1	C:53:LYS:HG3	C:84:SER:OG	0.414
1	C:53:LYS:CD	C:85:ASP:C	0.414
1	C:153:LEU:N	C:153:LEU:HD22	0.414
1	C:171:LEU:H	C:171:LEU:HD13	0.414
1	C:52:GLY:HA3	C:186:LYS:CG	0.414
1	D:57:LYS:HD2	D:75:GLN:HB3	0.414
1	C:224:VAL:HB	C:225:GLY:H	0.414
1	C:296:LEU:CB	C:299:GLU:H	0.414
1	A:375:VAL:O	A:379:TYR:HD1	0.414
1	A:225:GLY:C	A:300:ILE:HD12	0.413
1	A:232:LEU:C	A:232:LEU:CD1	0.413
1	C:95:ILE:CG1	C:99:LEU:CD1	0.413
1	C:126:PHE:C	C:126:PHE:CD1	0.413
1	C:162:CYS:C	C:164:GLU:N	0.413
1	C:179:LEU:C	C:181:LYS:N	0.413
1	C:186:LYS:HD3	C:203:LEU:O	0.413

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:250:SER:CA	C:308:ILE:N	0.413
1	C:273:PHE:O	C:277:TRP:CD1	0.413
1	D:139:LEU:HD21	D:169:TRP:CE3	0.413
1	D:188:MET:HG2	D:230:ASN:O	0.413
1	D:311:HIS:CD2	D:331:SER:OG	0.413
1	D:56:ALA:O	D:334:SER:HB2	0.413
1	C:254:ASN:H	C:254:ASN:HD22	0.413
1	D:1:MET:CG	D:2:SER:N	0.413
1	B:2:ALA:O	B:5:THR:HG22	0.413
1	A:27:LEU:O	A:27:LEU:HD13	0.412
1	A:402:LEU:O	A:403:HIS:CG	0.412
1	D:124:TYR:CZ	D:133:VAL:CG1	0.412
1	D:150:ARG:HG2	D:158:VAL:HB	0.412
1	D:292:PHE:CD1	D:313:ASN:O	0.412
1	F:30:PHE:CD1	F:78:ASN:OD1	0.412
1	C:54:ASN:HD22	C:59:GLN:HE21	0.412
1	C:181:LYS:N	C:187:GLN:O	0.412
1	A:39:CYS:SG	A:87:TRP:CD1	0.411
1	A:288:LEU:CB	A:289:PRO:CD	0.411
1	A:224:GLU:OE1	A:336:LEU:HD11	0.411
1	B:1:HIS:N	B:4:GLY:HA3	0.411
1	B:20:LYS:HA	B:23:ILE:HG22	0.411
1	C:45:LEU:C	C:46:LEU:HD23	0.411

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:96:LYS:HA	C:186:LYS:HE2	0.411
1	C:251:SER:HA	C:309:GLU:OE2	0.411
1	D:37:ILE:C	D:266:HIS:ND1	0.411
1	D:225:HIS:CE1	D:249:THR:OG1	0.411
1	D:292:PHE:HE1	D:315:VAL:HG12	0.411
1	E:12:ALA:O	E:13:ARG:HB3	0.411
1	F:21:LEU:HG	F:95:TYR:CZ	0.411
1	F:126:THR:HG21	F:128:SER:O	0.411
1	C:142:PHE:HE2	C:147:TYR:HD2	0.411
1	C:180:ASP:OD2	C:212:PHE:HD1	0.411
1	C:234:TRP:HH2	D:99:TRP:CB	0.411
1	C:54:ASN:O	C:59:GLN:N	0.411
1	C:91:LYS:CB	C:91:LYS:HZ2	0.411
1	C:149:HIS:HD2	C:150:ALA:N	0.411
1	D:183:HIS:ND1	D:184:THR:N	0.411
1	C:142:PHE:CG	C:142:PHE:O	0.411
1	C:245:ILE:O	C:245:ILE:HG23	0.411
1	C:269:ALA:O	C:270:LEU:CB	0.411
1	C:23:ASN:O	C:26:ILE:HG22	0.410
1	C:49:GLY:HA3	D:117:LEU:CA	0.410
1	C:201:ARG:CA	C:201:ARG:NE	0.410
1	C:51:SER:CA	C:206:GLY:HA3	0.410
1	C:180:ASP:OD2	C:212:PHE:CD1	0.410

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:246:PHE:CZ	C:281:TRP:CH2	0.410
1	D:88:ASN:C	D:89:LYS:HD2	0.410
1	D:101:MET:HG3	D:145:TYR:HE1	0.410
1	D:251:ARG:HG3	D:251:ARG:NH1	0.410
1	E:61:PHE:CD2	E:61:PHE:O	0.410
1	C:61:ARG:N	C:82:SER:HB2	0.410
1	A:261:TRP:CZ3	A:282:TYR:O	0.409
1	A:319:LYS:O	A:320:THR:HB	0.409
1	A:357:ARG:HD3	A:360:LYS:HE3	0.409
1	A:388:LEU:O	A:388:LEU:HD13	0.409
1	A:430:MET:C	A:430:MET:SD	0.409
1	C:57:VAL:CG2	C:59:GLN:CB	0.409
1	C:144:PRO:O	C:147:TYR:CE2	0.409
1	C:183:ASP:HA	C:202:VAL:CG1	0.409
1	C:244:ILE:CD1	C:280:LYS:HB3	0.409
1	C:278:ASN:CB	C:283:ARG:HD2	0.409
1	D:66:ASP:CG	E:56:ALA:CB	0.409
1	D:105:TYR:CE2	D:106:ALA:O	0.409
1	D:229:ILE:CD1	D:243:THR:CG2	0.409
1	D:297:TRP:CD1	D:298:ASP:O	0.409
1	A:415:CYS:N	D:307:VAL:HA	0.409
1	E:37:LEU:C	E:37:LEU:CD2	0.409
1	F:109:PHE:CD2	F:109:PHE:O	0.409

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:78:GLN:CG	C:79:ALA:N	0.409
1	D:126:LEU:H	D:133:VAL:CG1	0.409
1	C:75:GLU:HA	C:75:GLU:OE1	0.409
1	D:48:ARG:O	D:49:ARG:HB3	0.409
1	D:101:MET:C	D:101:MET:SD	0.409
1	A:146:PHE:CD2	A:146:PHE:O	0.408
1	A:136:LEU:O	A:161:PHE:CE1	0.408
1	A:204:ARG:NH1	A:270:ASP:CG	0.408
1	C:57:VAL:HG12	C:59:GLN:HA	0.408
1	C:59:GLN:CD	C:91:LYS:CD	0.408
1	C:181:LYS:HA	C:187:GLN:C	0.408
1	C:212:PHE:CE2	C:213:GLN:O	0.408
1	C:248:VAL:C	C:250:SER:N	0.408
1	D:160:SER:HB2	D:187:VAL:CG1	0.408
1	E:44:HIS:HA	E:50:LEU:HD11	0.408
1	F:28:PHE:CE2	F:29:THR:O	0.408
1	F:36:ASN:CG	F:37:TRP:N	0.408
1	F:95:TYR:CD2	F:95:TYR:O	0.408
1	F:96:TYR:C	F:96:TYR:CD1	0.408
1	C:229:ASP:O	F:109:PHE:CE2	0.408
1	C:47:GLY:N	C:224:VAL:CG2	0.408
1	C:187:GLN:H	C:210:THR:CB	0.408
1	C:289:LEU:CD2	C:360:TYR:H	0.408

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	E:5:ASN:CG	E:6:THR:N	0.408
1	C:46:LEU:O	C:224:VAL:N	0.408
1	C:315:PHE:O	C:316:ALA:HB2	0.408
1	A:182:TYR:CD1	A:182:TYR:O	0.407
1	B:13:TYR:CD2	B:13:TYR:O	0.407
1	C:27:GLU:HA	C:27:GLU:OE1	0.407
1	C:180:ASP:C	C:182:ILE:H	0.407
1	C:40:THR:OG1	C:220:HIS:CD2	0.407
1	C:246:PHE:HB3	C:289:LEU:HA	0.407
1	C:265:ARG:HA	C:267:GLN:NE2	0.407
1	C:307:LYS:HE2	C:310:ASP:OD2	0.407
1	C:318:TYR:CE2	C:319:THR:O	0.407
1	D:80:ILE:HG23	D:81:ILE:N	0.407
1	D:117:LEU:CD2	D:145:TYR:CD2	0.407
1	D:244:GLY:HA2	D:273:ILE:CD1	0.407
1	E:42:GLU:O	E:49:PRO:HD2	0.407
1	F:42:PRO:HD3	F:93:ALA:CB	0.407
1	F:30:PHE:CB	F:78:ASN:CG	0.407
1	F:109:PHE:O	F:116:TYR:CE1	0.407
1	F:126:THR:CG2	F:128:SER:C	0.407
1	C:127:ARG:HH11	C:149:HIS:CA	0.407
1	C:301:VAL:CG1	C:302:LEU:N	0.407
1	D:313:ASN:HA	D:313:ASN:HD22	0.407

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:13:VAL:O	A:16:TRP:CD1	0.406
1	A:206:VAL:HG13	A:207:PHE:N	0.406
1	A:400:GLU:HG2	C:350:THR:O	0.406
1	B:26:LEU:C	B:26:LEU:CD2	0.406
1	C:105:THR:CG2	C:195:GLN:CD	0.406
1	C:146:PHE:O	C:147:TYR:CD2	0.406
1	C:183:ASP:HA	C:184:VAL:O	0.406
1	C:278:ASN:CG	C:283:ARG:CB	0.406
1	C:250:SER:C	C:308:ILE:HB	0.406
1	C:312:PHE:CZ	C:340:PHE:HE2	0.406
1	D:14:LEU:HA	D:14:LEU:HD13	0.406
1	D:241:PHE:HE1	D:255:LEU:CD2	0.406
1	C:102:ALA:H	C:198:LEU:HD11	0.406
1	C:233:LYS:NZ	D:147:SER:CB	0.406
1	E:25:ILE:HG13	E:26:ASP:N	0.406
1	A:29:GLU:HG2	A:29:GLU:O	0.406
1	A:46:TYR:CD2	A:46:TYR:O	0.406
1	A:120:PHE:O	A:121:LEU:CB	0.406
1	A:18:GLU:C	A:20:ARG:N	0.405
1	A:57:PHE:CD1	A:57:PHE:O	0.405
1	A:124:ILE:CD1	A:362:PHE:CE1	0.405
1	A:221:LEU:HD21	A:337:LEU:HA	0.405
1	A:225:GLY:CA	A:300:ILE:HD12	0.405

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:163:TYR:HE2	C:176:GLN:HB2	0.405
1	C:182:ILE:HA	C:201:ARG:C	0.405
1	C:163:TYR:CB	C:196:ASP:CB	0.405
1	C:250:SER:CB	C:308:ILE:HB	0.405
1	C:256:VAL:C	C:257:ILE:HG13	0.405
1	C:268:ALA:HB1	C:306:SER:HA	0.405
1	C:280:LYS:CE	C:284:ASP:CB	0.405
1	A:307:ILE:CD1	C:384:GLN:CD	0.405
1	D:45:MET:SD	D:46:ARG:HG2	0.405
1	D:69:LEU:C	D:69:LEU:CD2	0.405
1	D:72:SER:C	D:79:LEU:CD1	0.405
1	D:139:LEU:C	D:139:LEU:CD2	0.405
1	D:211:TRP:NE1	D:213:VAL:HA	0.405
1	C:140:PHE:HZ	C:146:PHE:CZ	0.405
1	C:208:PHE:C	C:208:PHE:HD1	0.405
1	D:211:TRP:HE3	D:218:CYS:SG	0.405
1	C:99:LEU:CB	C:201:ARG:NH1	0.405
1	C:267:GLN:HG2	C:268:ALA:N	0.405
1	C:190:TYR:CD1	C:370:GLU:OE2	0.405
1	A:182:TYR:CD2	A:183:SER:CB	0.404
1	A:261:TRP:CE2	A:265:LYS:CG	0.404
1	A:323:LYS:C	A:325:ARG:N	0.404
1	A:390:PHE:CE2	A:394:TRP:CE3	0.404

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:414:LYS:HB3	D:307:VAL:HA	0.404
1	C:89:ALA:HB1	D:119:ASN:O	0.404
1	C:59:GLN:NE2	C:91:LYS:HE2	0.404
1	C:154:TRP:CZ3	C:189:ASP:OD1	0.404
1	C:171:LEU:CB	C:195:GLN:CD	0.404
1	C:187:GLN:CB	C:208:PHE:CD2	0.404
1	C:256:VAL:HB	C:307:LYS:CD	0.404
1	D:55:LEU:C	D:55:LEU:CD2	0.404
1	D:57:LYS:H	D:57:LYS:HE2	0.404
1	D:111:TYR:CG	D:151:PHE:CE1	0.404
1	D:231:ALA:HB3	D:275:SER:HA	0.404
1	A:415:CYS:N	D:307:VAL:C	0.404
1	C:228:ARG:NH2	F:114:THR:HG23	0.404
1	C:142:PHE:HD2	C:143:PRO:O	0.404
1	F:28:PHE:CE2	F:33:TYR:HD2	0.404
1	A:161:PHE:CD2	A:162:ALA:N	0.404
1	C:316:ALA:HB3	C:317:ARG:H	0.404
1	C:292:ASN:CG	C:365:CYS:SG	0.404
1	C:52:GLY:C	C:95:ILE:CD1	0.403
1	C:85:ASP:CG	C:98:ASN:HD21	0.403
1	C:99:LEU:CA	C:198:LEU:HD13	0.403
1	C:178:PHE:HA	C:181:LYS:HD3	0.403
1	C:178:PHE:CG	C:181:LYS:HE2	0.403

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	C:235:ILE:C	C:235:ILE:CD1	0.403
1	C:388:LEU:C	C:390:GLN:N	0.403
1	D:149:CYS:SG	D:157:ILE:HD11	0.403
1	A:417:THR:O	D:284:LEU:HD11	0.403
1	E:19:LEU:C	E:19:LEU:CD2	0.403
1	F:35:MET:HE2	F:80:LEU:HD23	0.403
1	F:21:LEU:CB	F:37:TRP:CH2	0.403
1	A:46:TYR:HE1	A:66:LEU:CD1	0.403
1	C:58:LYS:HB3	C:208:PHE:HD2	0.403
1	C:367:VAL:CG1	C:368:ASP:N	0.403
1	D:96:ARG:HH21	D:135:VAL:HG21	0.403
1	D:79:LEU:O	D:93:ILE:HG22	0.403
1	A:78:TYR:C	A:78:TYR:CD1	0.402
1	A:413:LEU:HG	D:289:TYR:CG	0.402
1	A:416:PRO:HB2	D:42:ARG:CA	0.402
1	C:37:TYR:HA	C:40:THR:CG2	0.402
1	C:53:LYS:HZ3	C:86:GLY:CA	0.402
1	C:174:CYS:CB	C:178:PHE:CZ	0.402
1	C:175:ALA:CB	C:198:LEU:HB2	0.402
1	C:308:ILE:HD11	C:341:ILE:CD1	0.402
1	C:346:LEU:C	C:346:LEU:CD1	0.402
1	C:26:ILE:CD1	D:92:ALA:CB	0.402
1	D:183:HIS:CE1	D:203:ALA:HB1	0.402

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	F:96:TYR:CD1	F:96:TYR:O	0.402
1	A:121:LEU:N	A:124:ILE:HG22	0.402
1	C:207:ILE:CG2	C:226:ALA:H	0.402
1	C:177:TYR:HD1	C:177:TYR:O	0.402
1	A:1:ARG:CB	A:2:PRO:CD	0.401
1	A:125:TYR:CD1	A:365:LEU:CD2	0.401
1	C:43:LEU:HB2	C:221:MET:HA	0.401
1	C:119:LEU:HD21	C:156:ASP:HB3	0.401
1	C:186:LYS:HD3	C:203:LEU:C	0.401
1	C:184:VAL:CG1	C:220:HIS:HB3	0.401
1	C:58:LYS:CD	C:223:ASP:CG	0.401
1	C:54:ASN:ND2	C:226:ALA:HB3	0.401
1	C:294:GLN:CB	C:300:LYS:HB2	0.401
1	C:360:TYR:CD2	C:361:PRO:O	0.401
1	D:59:TYR:CD1	D:59:TYR:O	0.401
1	D:188:MET:O	D:189:SER:HB2	0.401
1	F:110:ASP:OD2	F:116:TYR:CD2	0.401
1	C:182:ILE:CA	C:201:ARG:NH2	0.401
1	C:234:TRP:O	C:236:GLN:N	0.401
1	A:97:TRP:CD1	A:99:ASP:OD2	0.401
1	C:106:ILE:HG21	C:196:ASP:OD2	0.401
1	D:311:HIS:CE1	D:333:ASP:O	0.401
1	A:136:LEU:HB3	A:161:PHE:CE1	0.400

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	D:225:HIS:CE1	D:226:GLU:OE1	0.400
1	D:181:THR:O	D:181:THR:HG23	0.400
1	D:235:PHE:HD2	D:237:ASN:OD1	0.400
2	C:46:LEU:CB	C:46:LEU:CG	1.581
2	C:246:PHE:C	C:246:PHE:CA	1.568
2	C:279:ASN:C	C:279:ASN:CA	1.550
2	C:286:SER:CA	C:286:SER:N	1.538
2	C:285:THR:C	C:285:THR:CA	1.524
2	C:282:LEU:C	C:282:LEU:CA	1.498
2	C:46:LEU:C	C:46:LEU:CA	1.497
2	C:280:LYS:C	C:280:LYS:CA	1.489
2	C:287:VAL:CA	C:287:VAL:N	1.489
2	C:249:ALA:CA	C:249:ALA:N	1.479
2	C:189:ASP:CA	C:189:ASP:N	1.478
2	C:50:GLU:C	C:50:GLU:CA	1.468
2	C:187:GLN:CA	C:187:GLN:N	1.466
2	C:286:SER:C	C:286:SER:CA	1.463
2	C:50:GLU:C	C:51:SER:N	1.462
2	C:248:VAL:C	C:248:VAL:CA	1.456
2	C:282:LEU:C	C:283:ARG:N	1.448
2	C:293:LYS:CA	C:293:LYS:N	1.442
2	C:188:ALA:C	C:188:ALA:CA	1.432
2	C:283:ARG:CA	C:283:ARG:N	1.417

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:280:LYS:C	C:281:TRP:N	1.415
2	C:187:GLN:C	C:188:ALA:N	1.413
2	C:186:LYS:C	C:186:LYS:CA	1.400
2	C:286:SER:C	C:286:SER:CB	1.388
2	C:51:SER:CA	C:51:SER:N	1.376
2	C:292:ASN:C	C:292:ASN:CA	1.368
2	C:281:TRP:CA	C:281:TRP:N	1.338
2	C:46:LEU:CB	C:46:LEU:HG	1.314
2	C:286:SER:C	C:286:SER:HB2	1.306
2	C:188:ALA:CA	C:188:ALA:N	1.281
2	C:187:GLN:C	C:187:GLN:CA	1.269
2	C:281:TRP:C	C:282:LEU:C	1.265
2	C:283:ARG:HA	C:283:ARG:N	1.172
2	F:46:LEU:HD11	F:111:VAL:HA	1.172
2	C:103:ILE:HB	C:199:ARG:HB3	1.154
2	D:79:LEU:HD11	D:112:VAL:HG11	1.150
2	C:282:LEU:C	C:282:LEU:N	1.137
2	C:274:ASP:HA	C:277:TRP:HB3	1.127
2	C:44:LEU:HB3	C:244:ILE:HG23	1.126
2	C:188:ALA:C	C:188:ALA:CB	1.125
2	C:188:ALA:HB1	C:294:GLN:HA	1.120
2	C:181:LYS:HB2	C:210:THR:HG22	1.090
2	C:203:LEU:HD13	D:96:ARG:HG3	1.086

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:181:LYS:HA	C:210:THR:HA	1.077
2	A:416:PRO:HA	D:34:THR:HG21	1.075
2	C:245:ILE:HD13	C:375:VAL:HG13	1.075
2	C:289:LEU:HB3	C:361:PRO:HA	1.075
2	D:205:ASP:HB2	F:117:ALA:HB1	1.074
2	C:280:LYS:HA	C:284:ASP:HA	1.064
2	A:148:HIS:HB2	C:393:LEU:HB2	1.057
2	F:125:VAL:HB	F:127:VAL:HG22	1.057
2	C:154:TRP:HB2	C:179:LEU:HD21	1.043
2	D:293:ASN:HB3	D:309:ALA:HB2	1.040
2	C:184:VAL:HA	C:209:GLU:HA	1.039
2	D:254:ASP:HB2	D:261:LEU:HD21	1.039
2	C:60:MET:HA	C:300:LYS:HD2	1.038
2	C:175:ALA:HA	C:198:LEU:HD12	1.037
2	F:10:GLY:HA3	F:123:THR:HG21	1.036
2	C:46:LEU:HA	C:293:LYS:HD2	1.028
2	C:163:TYR:HB3	C:197:LEU:HD23	1.027
2	C:58:LYS:HE3	C:98:ASN:HB3	1.023
2	C:103:ILE:HG13	C:131:ILE:HD13	1.019
2	C:185:ILE:HG23	C:205:SER:HB2	1.017
2	F:38:VAL:HG11	F:46:LEU:HD13	1.017
2	D:204:CYS:HA	D:228:ASP:HB3	1.010
2	C:142:PHE:HD2	C:203:LEU:HD23	1.007

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:247:VAL:HB	C:292:ASN:N	1.001
2	F:71:ILE:HD11	F:80:LEU:HD11	0.998
2	C:181:LYS:HG2	C:209:GLU:H	0.997
2	C:280:LYS:HA	C:284:ASP:CA	0.997
2	D:193:ALA:HB1	D:194:PRO:HD2	0.984
2	C:100:LYS:HA	C:103:ILE:CG2	0.983
2	C:160:ARG:HA	C:197:LEU:HD21	0.981
2	C:103:ILE:HB	C:199:ARG:CB	0.980
2	C:82:SER:HB3	C:226:ALA:HB2	0.979
2	C:56:ILE:HG23	C:190:TYR:HA	0.977
2	C:321:PRO:HG2	C:324:ALA:HB3	0.974
2	C:182:ILE:HG21	C:202:VAL:N	0.973
2	C:43:LEU:HB2	C:45:LEU:HD11	0.971
2	D:276:VAL:HG13	D:285:LEU:HD21	0.971
2	C:184:VAL:HG22	C:209:GLU:HB3	0.970
2	C:50:GLU:HB2	C:208:PHE:HA	0.968
2	C:100:LYS:HA	C:103:ILE:HG23	0.968
2	C:280:LYS:CA	C:280:LYS:O	0.968
2	A:53:GLU:HG2	A:54:PRO:HD2	0.966
2	A:156:ILE:HD11	A:223:VAL:HG23	0.963
2	C:59:GLN:HA	C:174:CYS:HA	0.963
2	C:56:ILE:HG22	C:91:LYS:HD2	0.961
2	C:45:LEU:C	C:286:SER:HA	0.960

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:100:VAL:HG11	D:114:CYS:HB3	0.959
2	D:31:SER:HA	F:26:SER:HB2	0.956
2	D:31:SER:HA	F:26:SER:CB	0.953
2	C:50:GLU:CB	C:181:LYS:HG3	0.950
2	C:296:LEU:HD12	C:299:GLU:HB2	0.948
2	C:72:GLY:HA3	C:76:ASP:HB3	0.947
2	A:419:SER:N	D:263:THR:HG23	0.947
2	C:247:VAL:CB	C:281:TRP:HA	0.946
2	C:184:VAL:HG13	C:209:GLU:HG2	0.943
2	C:244:ILE:HB	C:287:VAL:HB	0.941
2	C:268:ALA:HA	C:280:LYS:HE3	0.940
2	C:289:LEU:HG	C:361:PRO:HB3	0.940
2	C:185:ILE:HG21	C:204:THR:N	0.939
2	C:46:LEU:HG	C:283:ARG:N	0.938
2	D:56:ALA:HB1	D:75:GLN:HB3	0.938
2	C:182:ILE:HG12	C:202:VAL:HG22	0.937
2	C:244:ILE:HB	C:287:VAL:CB	0.937
2	C:166:SER:HA	C:171:LEU:HD21	0.936
2	C:2:GLY:HA3	C:33:ASP:HA	0.935
2	C:26:ILE:HD13	D:89:LYS:HG2	0.935
2	D:151:PHE:HA	D:157:ILE:HG22	0.935
2	D:126:LEU:HA	D:133:VAL:HG21	0.934
2	A:415:CYS:HA	D:270:ILE:HD12	0.933

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:102:ALA:HB3	C:198:LEU:HB3	0.929
2	C:176:GLN:HG2	C:299:GLU:HG3	0.929
2	C:389:ARG:HB3	C:394:LEU:HD21	0.928
2	C:280:LYS:HE2	C:284:ASP:HB2	0.926
2	C:289:LEU:HG	C:361:PRO:CB	0.926
2	A:411:LYS:HG3	A:412:PRO:HD2	0.924
2	A:49:TRP:CZ2	A:58:VAL:HB	0.923
2	A:330:THR:HG23	A:331:LEU:HD23	0.923
2	D:51:LEU:HB3	D:336:LEU:HB3	0.923
2	C:88:LYS:HE3	C:226:ALA:HB1	0.922
2	C:172:ILE:HG23	C:253:TYR:HB3	0.920
2	C:296:LEU:HD12	C:299:GLU:CB	0.920
2	C:46:LEU:HA	C:293:LYS:CD	0.918
2	C:301:VAL:HG23	C:368:ASP:HB3	0.918
2	C:53:LYS:HA	C:91:LYS:HG3	0.917
2	D:190:LEU:HG	D:199:PHE:CE2	0.917
2	A:75:GLY:HA3	A:102:GLU:HG2	0.916
2	C:106:ILE:HB	C:196:ASP:H	0.915
2	A:348:MET:HG2	A:360:LYS:HD2	0.914
2	A:370:PHE:CE1	A:373:LEU:HD13	0.914
2	D:38:ASP:HB3	D:39:PRO:HD2	0.914
2	C:185:ILE:HG23	C:205:SER:CB	0.913
2	C:346:LEU:HD21	C:361:PRO:HG3	0.911

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:204:CYS:HA	D:228:ASP:CB	0.911
2	C:183:ASP:HB3	C:211:LYS:HB3	0.909
2	C:244:ILE:HB	C:287:VAL:CG2	0.909
2	C:186:LYS:HG2	D:97:SER:HB3	0.908
2	C:54:ASN:HA	C:57:VAL:HG23	0.907
2	C:280:LYS:CA	C:284:ASP:HA	0.907
2	C:181:LYS:HE3	C:208:PHE:HA	0.906
2	C:186:LYS:HB3	C:205:SER:HB3	0.906
2	C:282:LEU:CA	C:282:LEU:O	0.903
2	F:38:VAL:CG1	F:46:LEU:HD13	0.903
2	C:127:ARG:NH1	C:131:ILE:HB	0.902
2	C:181:LYS:HA	C:210:THR:CA	0.902
2	C:182:ILE:HB	C:201:ARG:C	0.902
2	C:287:VAL:HA	C:287:VAL:N	0.901
2	C:244:ILE:HG22	C:286:SER:C	0.900
2	C:187:GLN:NE2	D:117:LEU:HG	0.900
2	C:111:SER:HA	C:116:PRO:HB2	0.899
2	A:182:TYR:CD1	B:14:LEU:HD22	0.898
2	A:294:ILE:HG23	A:342:VAL:HG12	0.898
2	C:346:LEU:HD11	C:361:PRO:HD3	0.897
2	C:213:GLN:HB3	C:218:ASN:HB3	0.896
2	C:53:LYS:HA	C:82:SER:HA	0.895
2	A:185:ALA:HB1	A:194:LEU:HD21	0.894

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:271:CYS:HB2	D:290:ASP:HB2	0.894
2	C:105:THR:HB	C:195:GLN:HB3	0.893
2	C:147:TYR:CD2	C:202:VAL:HB	0.892
2	C:247:VAL:HG23	C:248:VAL:N	0.892
2	D:318:LEU:HD11	D:327:VAL:HG11	0.892
2	A:174:LYS:HD2	A:210:MET:HB2	0.890
2	C:30:LEU:HD22	D:89:LYS:NZ	0.890
2	C:46:LEU:C	C:46:LEU:N	0.890
2	C:51:SER:HA	C:207:ILE:HG23	0.887
2	C:142:PHE:CD2	C:203:LEU:HD23	0.887
2	F:102:ALA:HB1	F:103:PRO:HD2	0.887
2	C:208:PHE:CE1	C:210:THR:HG23	0.886
2	A:407:ASP:H	A:413:LEU:HG	0.885
2	C:370:GLU:HG2	C:372:ILE:HB	0.885
2	D:89:LYS:HE2	D:92:ALA:HB2	0.885
2	F:46:LEU:HD11	F:111:VAL:CA	0.884
2	A:60:VAL:HB	A:76:HIS:NE2	0.883
2	C:286:SER:HB2	C:287:VAL:N	0.883
2	C:154:TRP:CD1	C:200:CYS:HG	0.881
2	C:246:PHE:CE1	C:289:LEU:HD22	0.880
2	C:181:LYS:CA	C:210:THR:HA	0.879
2	C:211:LYS:HB2	C:220:HIS:HA	0.879
2	C:34:LYS:HB3	D:55:LEU:HD12	0.878

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:289:LEU:HD13	C:290:PHE:N	0.878
2	A:1:ARG:HB3	A:2:PRO:HD3	0.876
2	C:234:TRP:CD1	D:117:LEU:HD23	0.872
2	D:200:VAL:HG23	D:234:PHE:CZ	0.872
2	C:55:THR:HA	C:95:ILE:HD13	0.870
2	C:127:ARG:HG2	C:149:HIS:HB3	0.870
2	C:182:ILE:HD12	C:201:ARG:HB3	0.870
2	C:271:LYS:HB2	C:280:LYS:HE3	0.870
2	D:71:VAL:HG13	D:79:LEU:HD21	0.869
2	C:208:PHE:HE1	C:210:THR:HG23	0.868
2	C:281:TRP:HA	C:281:TRP:N	0.867
2	C:248:VAL:HG13	C:271:LYS:HD2	0.866
2	C:298:ALA:HA	C:301:VAL:HG22	0.865
2	A:334:ILE:HG21	A:339:THR:HB	0.864
2	C:175:ALA:CA	C:198:LEU:HD12	0.864
2	D:33:ILE:HD11	F:78:ASN:HB3	0.864
2	D:79:LEU:HB3	D:93:ILE:HG22	0.864
2	C:286:SER:C	C:286:SER:N	0.863
2	C:54:ASN:HB3	C:207:ILE:HG23	0.862
2	C:154:TRP:HB3	C:200:CYS:HB3	0.862
2	D:34:THR:HB	F:29:THR:CB	0.862
2	D:297:TRP:HE1	D:302:ALA:HA	0.861
2	A:355:THR:HG23	A:356:LEU:HD23	0.860

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:245:ILE:HG23	C:282:LEU:HG	0.859
2	C:188:ALA:HB2	C:293:LYS:HZ1	0.858
2	C:247:VAL:HB	C:291:LEU:C	0.858
2	D:318:LEU:HD13	D:319:GLY:N	0.858
2	F:12:LEU:HD12	F:126:THR:HG22	0.858
2	C:244:ILE:HD12	C:287:VAL:HG21	0.857
2	C:280:LYS:HA	C:284:ASP:N	0.857
2	C:50:GLU:HB2	C:181:LYS:HG3	0.856
2	C:53:LYS:HD2	C:75:GLU:HB2	0.856
2	C:154:TRP:CB	C:179:LEU:HD11	0.856
2	C:181:LYS:HD2	C:201:ARG:HE	0.855
2	D:139:LEU:HG	D:169:TRP:CD2	0.855
2	D:181:THR:HG21	E:3:SER:HA	0.855
2	C:46:LEU:HD12	C:286:SER:C	0.854
2	C:182:ILE:HG21	C:202:VAL:H	0.854
2	C:59:GLN:HB3	C:251:SER:HB2	0.852
2	C:206:GLY:O	C:207:ILE:HG22	0.852
2	D:220:GLN:HG2	E:22:GLU:HG3	0.852
2	C:107:VAL:HG21	C:119:LEU:HD11	0.851
2	C:178:PHE:HA	C:201:ARG:NE	0.851
2	C:175:ALA:N	C:198:LEU:HD12	0.851
2	A:236:VAL:HG12	A:240:GLN:HB3	0.849
2	C:3:CYS:HB2	C:35:GLN:HB3	0.849

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:163:TYR:CB	C:197:LEU:HD23	0.849
2	C:172:ILE:HG21	C:192:PRO:HB2	0.849
2	C:53:LYS:HB3	C:91:LYS:HE3	0.848
2	D:193:ALA:HB2	D:234:PHE:CE2	0.848
2	C:179:LEU:HD13	C:197:LEU:CA	0.847
2	C:181:LYS:CG	C:209:GLU:H	0.847
2	C:188:ALA:HB2	C:293:LYS:NZ	0.847
2	C:46:LEU:HD11	C:280:LYS:C	0.846
2	C:55:THR:HG22	C:91:LYS:HB3	0.846
2	D:7:LEU:HD21	E:16:VAL:HG21	0.846
2	D:20:ASP:O	D:26:ALA:HA	0.846
2	C:53:LYS:HE3	C:81:ARG:HG3	0.843
2	D:71:VAL:HG21	D:105:TYR:HB2	0.842
2	C:45:LEU:CG	C:282:LEU:HB3	0.841
2	A:236:VAL:HG12	A:237:LEU:H	0.840
2	C:46:LEU:HD22	C:284:ASP:N	0.840
2	D:69:LEU:HD21	D:81:ILE:HB	0.840
2	A:142:ILE:HD11	A:146:PHE:CZ	0.839
2	C:184:VAL:HA	C:209:GLU:HG2	0.839
2	C:288:ILE:HD11	C:360:TYR:HB2	0.839
2	C:48:ALA:HB2	C:372:ILE:HD11	0.838
2	C:50:GLU:C	C:50:GLU:HA	0.838
2	C:188:ALA:HA	C:188:ALA:N	0.838

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:149:LEU:HD22	A:150:HIS:N	0.837
2	A:361:LEU:HD13	A:365:LEU:HG	0.837
2	C:45:LEU:HA	C:286:SER:HB3	0.837
2	C:106:ILE:HG13	C:195:GLN:HB2	0.837
2	C:106:ILE:HG22	C:196:ASP:HB2	0.837
2	D:47:THR:HG22	D:48:ARG:H	0.837
2	C:247:VAL:HG22	C:281:TRP:N	0.836
2	C:182:ILE:HB	C:201:ARG:CA	0.835
2	E:54:VAL:HG13	E:55:PRO:HD2	0.835
2	A:236:VAL:HA	C:35:GLN:HB2	0.834
2	C:103:ILE:CG2	C:199:ARG:HA	0.832
2	C:184:VAL:HA	C:209:GLU:CB	0.831
2	C:229:ASP:HB3	F:112:THR:HG23	0.831
2	C:30:LEU:HA	C:33:ASP:CB	0.829
2	C:88:LYS:HB3	D:143:THR:HA	0.829
2	C:379:CYS:HA	C:382:ILE:HG22	0.829
2	C:53:LYS:HD2	C:190:TYR:HB2	0.827
2	D:328:ALA:HB1	D:336:LEU:HD21	0.826
2	C:154:TRP:CB	C:179:LEU:HD21	0.825
2	C:177:TYR:HA	C:296:LEU:HG	0.825
2	C:179:LEU:HD13	C:197:LEU:C	0.825
2	C:102:ALA:O	C:195:GLN:HA	0.825
2	C:305:LYS:HE2	C:307:LYS:HA	0.825

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:404:ILE:CB	F:57:ALA:HB2	0.824
2	C:44:LEU:CB	C:244:ILE:HG23	0.824
2	C:280:LYS:HG2	C:284:ASP:HB2	0.824
2	D:106:ALA:HB2	D:111:TYR:HB3	0.824
2	F:46:LEU:HD21	F:112:THR:N	0.824
2	A:232:LEU:HD11	A:307:ILE:HG12	0.823
2	C:181:LYS:HB3	C:201:ARG:NH2	0.823
2	C:188:ALA:HB1	C:294:GLN:CA	0.823
2	F:41:ALA:HB2	F:44:LYS:HG2	0.823
2	C:77:PRO:HG2	C:81:ARG:HH11	0.822
2	C:183:ASP:HA	C:202:VAL:HG11	0.822
2	C:45:LEU:HD13	C:221:MET:CA	0.821
2	C:186:LYS:CB	C:205:SER:HB3	0.821
2	C:184:VAL:HA	C:209:GLU:CA	0.820
2	C:245:ILE:HG23	C:282:LEU:HD12	0.819
2	D:292:PHE:CE1	D:311:HIS:HB2	0.819
2	C:293:LYS:HG2	C:294:GLN:H	0.818
2	A:308:VAL:O	A:312:LEU:HG	0.817
2	C:181:LYS:HG2	C:209:GLU:N	0.817
2	A:153:ARG:HA	A:156:ILE:HG22	0.816
2	C:45:LEU:HD21	C:282:LEU:HD13	0.816
2	A:404:ILE:HB	F:57:ALA:HB2	0.814
2	C:99:LEU:HA	C:178:PHE:HD2	0.814

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:248:VAL:C	C:283:ARG:HG3	0.814
2	C:154:TRP:HB3	C:200:CYS:SG	0.813
2	C:57:VAL:HG22	C:189:ASP:O	0.812
2	C:99:LEU:HB2	C:178:PHE:HE2	0.812
2	C:185:ILE:HG21	C:203:LEU:C	0.812
2	C:296:LEU:HD13	C:297:LEU:N	0.812
2	F:52:ILE:HD12	F:59:ILE:HB	0.812
2	A:142:ILE:HD13	A:143:LEU:N	0.811
2	C:290:PHE:CE2	C:362:HIS:HB3	0.811
2	C:53:LYS:CA	C:91:LYS:HG3	0.810
2	C:187:GLN:CD	D:117:LEU:HG	0.810
2	A:111:ARG:HG2	A:112:SER:H	0.809
2	A:416:PRO:HG2	D:248:ALA:H	0.809
2	C:53:LYS:HA	C:82:SER:CA	0.809
2	D:6:GLN:HA	D:6:GLN:HE21	0.809
2	C:191:VAL:HG11	C:252:SER:HA	0.808
2	A:185:ALA:CB	A:194:LEU:HD21	0.807
2	C:30:LEU:HA	C:33:ASP:HB2	0.807
2	C:246:PHE:HB3	C:289:LEU:HA	0.807
2	D:100:VAL:HG13	D:115:GLY:O	0.807
2	C:54:ASN:HB3	C:207:ILE:CG2	0.806
2	C:95:ILE:HD11	C:178:PHE:CD1	0.806
2	C:103:ILE:HG12	C:131:ILE:HG21	0.806

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:45:LEU:HD13	C:221:MET:HA	0.805
2	C:59:GLN:HA	C:174:CYS:CA	0.805
2	C:151:LYS:H	C:200:CYS:HB2	0.805
2	A:80:PHE:HB3	A:88:LEU:HG	0.803
2	C:142:PHE:O	C:203:LEU:HD21	0.803
2	D:48:ARG:HG2	D:49:ARG:H	0.803
2	A:276:ARG:HD3	A:278:SER:HB2	0.802
2	C:26:ILE:HD11	D:92:ALA:HB2	0.802
2	C:103:ILE:HG22	C:199:ARG:HA	0.802
2	A:60:VAL:HG12	A:61:SER:H	0.801
2	A:161:PHE:HE1	A:165:ILE:HD12	0.801
2	C:56:ILE:HB	C:190:TYR:HA	0.800
2	C:102:ALA:CB	C:198:LEU:HB3	0.800
2	C:247:VAL:CG2	C:281:TRP:HA	0.800
2	D:80:ILE:HD12	D:89:LYS:HE3	0.800
2	C:107:VAL:HB	C:199:ARG:HH22	0.799
2	F:37:TRP:CH2	F:82:LEU:HD22	0.799
2	A:294:ILE:CG2	A:342:VAL:HG12	0.798
2	C:53:LYS:CA	C:82:SER:HA	0.798
2	C:53:LYS:HB3	C:56:ILE:CG2	0.797
2	C:175:ALA:HA	C:198:LEU:CD1	0.797
2	C:188:ALA:CA	C:225:GLY:HA3	0.797
2	C:59:GLN:HE22	C:191:VAL:HG12	0.797

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:254:PRO:HA	A:257:PHE:CZ	0.795
2	C:188:ALA:C	C:188:ALA:HB1	0.795
2	C:247:VAL:HG21	C:292:ASN:O	0.795
2	C:290:PHE:CD1	C:364:THR:HB	0.795
2	C:36:VAL:HG12	C:39:ALA:HB3	0.794
2	C:50:GLU:HB2	C:208:PHE:CA	0.793
2	C:180:ASP:HB2	C:296:LEU:HD21	0.793
2	C:280:LYS:CG	C:284:ASP:HA	0.793
2	C:320:THR:HG23	C:321:PRO:HD2	0.793
2	A:100:LEU:HD22	A:103:CYS:SG	0.792
2	C:177:TYR:CD2	C:300:LYS:HB2	0.792
2	D:71:VAL:CG1	D:79:LEU:HD21	0.792
2	C:46:LEU:HD12	C:286:SER:CA	0.791
2	D:153:ASP:HA	E:61:PHE:HB2	0.791
2	D:286:LEU:HD12	D:287:ALA:H	0.791
2	C:50:GLU:CG	C:181:LYS:HG3	0.790
2	C:99:LEU:HD23	C:198:LEU:O	0.790
2	C:175:ALA:CB	C:194:ASP:HB3	0.790
2	C:127:ARG:NE	C:153:LEU:HD12	0.789
2	C:103:ILE:CB	C:199:ARG:HB3	0.788
2	D:273:ILE:HD11	D:287:ALA:HB1	0.788
2	D:4:LEU:HD23	E:9:ILE:CD1	0.787
2	A:261:TRP:CG	A:282:TYR:HH	0.786

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:48:ALA:CA	C:297:LEU:HB2	0.786
2	C:178:PHE:CG	C:201:ARG:HD2	0.785
2	C:184:VAL:HG22	C:209:GLU:CB	0.784
2	C:82:SER:CB	C:226:ALA:HB2	0.783
2	A:34:ALA:HB3	A:38:PHE:CE1	0.782
2	C:257:ILE:HG12	C:258:ARG:H	0.782
2	A:404:ILE:HG12	F:57:ALA:HB2	0.781
2	C:47:GLY:HA3	C:282:LEU:HA	0.780
2	C:51:SER:HB2	C:187:GLN:HA	0.780
2	C:154:TRP:HB3	C:200:CYS:CB	0.780
2	D:79:LEU:HD11	D:112:VAL:CG1	0.780
2	D:232:ILE:HD11	D:241:PHE:CD1	0.780
2	A:215:ALA:HB1	A:257:PHE:HZ	0.779
2	C:82:SER:HB2	C:88:LYS:HG3	0.779
2	F:30:PHE:CZ	F:73:ARG:HG3	0.779
2	C:88:LYS:HB3	D:143:THR:CB	0.778
2	C:95:ILE:HG21	C:207:ILE:CG1	0.778
2	C:30:LEU:HD22	D:89:LYS:HZ2	0.777
2	C:268:ALA:HB2	C:306:SER:HB2	0.777
2	D:81:ILE:HG12	D:90:VAL:HG13	0.776
2	C:83:ASN:HA	C:91:LYS:N	0.775
2	D:153:ASP:HA	E:61:PHE:CB	0.775
2	D:273:ILE:CD1	D:287:ALA:HB1	0.774

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:106:ILE:HG21	C:162:CYS:CB	0.773
2	C:181:LYS:HB2	C:210:THR:CG2	0.773
2	A:126:THR:HG22	A:129:TYR:HE2	0.772
2	C:58:LYS:CE	C:98:ASN:HB3	0.772
2	A:145:GLY:HA2	D:293:ASN:HD22	0.771
2	A:237:LEU:HD12	A:238:SER:N	0.771
2	A:339:THR:O	A:342:VAL:HG22	0.771
2	C:99:LEU:HB2	C:178:PHE:CE2	0.771
2	C:184:VAL:CG1	C:209:GLU:HG2	0.771
2	C:103:ILE:HD13	C:104:GLU:N	0.770
2	C:311:TYR:CD2	C:313:PRO:HD3	0.770
2	C:46:LEU:HD23	C:286:SER:N	0.769
2	C:179:LEU:C	C:201:ARG:HG3	0.769
2	D:297:TRP:NE1	D:302:ALA:HA	0.769
2	C:102:ALA:HB1	C:195:GLN:N	0.768
2	C:56:ILE:CG2	C:190:TYR:HA	0.768
2	C:244:ILE:HG22	C:286:SER:O	0.768
2	C:280:LYS:CE	C:284:ASP:HB2	0.768
2	C:281:TRP:CZ2	C:371:ASN:HB3	0.768
2	A:218:TYR:HB2	A:290:ILE:HG13	0.767
2	C:50:GLU:CA	C:50:GLU:O	0.767
2	C:100:LYS:CA	C:103:ILE:HG23	0.767
2	C:181:LYS:HA	C:210:THR:CB	0.767

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:140:SER:HB3	A:158:LEU:HD22	0.766
2	C:252:SER:HB3	C:258:ARG:HB3	0.766
2	D:151:PHE:O	D:157:ILE:HA	0.766
2	D:110:ASN:HA	D:126:LEU:HD21	0.764
2	F:5:LEU:HD12	F:97:CYS:SG	0.764
2	C:232:ARG:NE	F:101:PRO:HG2	0.764
2	C:99:LEU:HA	C:198:LEU:CD2	0.763
2	C:343:ASP:H	C:346:LEU:HD23	0.763
2	A:190:GLN:O	A:194:LEU:HG	0.762
2	C:53:LYS:HB3	C:56:ILE:HG22	0.762
2	C:46:LEU:HD23	C:285:THR:C	0.761
2	C:183:ASP:CB	C:211:LYS:HB3	0.761
2	D:23:LYS:CD	D:28:ALA:HB3	0.761
2	A:254:PRO:HA	A:257:PHE:CE2	0.759
2	C:2:GLY:HA3	C:33:ASP:CA	0.759
2	C:142:PHE:CZ	C:146:PHE:HB3	0.759
2	C:177:TYR:CE2	C:300:LYS:HD3	0.759
2	C:178:PHE:HB3	C:198:LEU:HD21	0.759
2	C:184:VAL:HA	C:209:GLU:CG	0.759
2	C:246:PHE:CD1	C:289:LEU:HD22	0.759
2	C:383:ILE:H	C:386:MET:HG3	0.759
2	C:99:LEU:HA	C:178:PHE:CD2	0.757
2	D:80:ILE:HG13	D:89:LYS:HG3	0.757

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:93:ILE:HD12	D:124:TYR:HE1	0.757
2	D:139:LEU:HD23	D:169:TRP:CZ3	0.757
2	E:1:MET:HG3	E:2:ALA:H	0.757
2	A:214:VAL:HG13	A:218:TYR:HE1	0.756
2	C:45:LEU:HG	C:282:LEU:HB3	0.756
2	C:56:ILE:HG21	C:91:LYS:NZ	0.756
2	C:58:LYS:HE2	C:174:CYS:SG	0.756
2	C:143:PRO:HG2	C:146:PHE:HD1	0.756
2	C:175:ALA:HB3	C:194:ASP:CG	0.756
2	A:235:SER:HA	C:35:GLN:NE2	0.755
2	C:3:CYS:HA	C:36:VAL:N	0.755
2	C:153:LEU:O	C:159:VAL:HG21	0.755
2	C:106:ILE:N	C:195:GLN:HB2	0.755
2	A:141:ALA:HA	D:44:GLN:O	0.754
2	C:102:ALA:CB	C:198:LEU:HD13	0.754
2	C:177:TYR:HE2	C:300:LYS:HD3	0.754
2	F:35:MET:SD	F:80:LEU:HB3	0.754
2	F:82:LEU:HG	F:83:GLN:N	0.754
2	C:181:LYS:HZ2	C:201:ARG:HH21	0.754
2	C:51:SER:HB2	C:187:GLN:CA	0.753
2	C:211:LYS:HD3	C:220:HIS:CE1	0.753
2	D:93:ILE:HD12	D:124:TYR:CE1	0.753
2	C:37:TYR:CD2	D:55:LEU:HD22	0.752

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:46:LEU:HG	C:283:ARG:HA	0.752
2	C:179:LEU:CA	C:201:ARG:HG3	0.752
2	D:37:ILE:HD13	D:268:ASN:HA	0.752
2	F:30:PHE:HZ	F:73:ARG:HG3	0.752
2	F:87:LEU:HD13	F:88:LYS:N	0.752
2	A:121:LEU:HD21	A:365:LEU:HD12	0.751
2	C:127:ARG:HH11	C:131:ILE:HB	0.751
2	C:71:GLU:CG	C:75:GLU:HA	0.750
2	C:207:ILE:HD12	C:208:PHE:H	0.750
2	C:245:ILE:HD11	C:375:VAL:HA	0.750
2	C:246:PHE:CD1	C:289:LEU:HA	0.750
2	C:55:THR:HA	C:95:ILE:CB	0.749
2	C:288:ILE:CG1	C:360:TYR:HB2	0.749
2	A:148:HIS:CB	C:393:LEU:HB2	0.748
2	A:149:LEU:HD22	A:150:HIS:H	0.748
2	A:335:PRO:HG3	A:374:MET:HG2	0.748
2	C:84:SER:HA	C:91:LYS:HD3	0.748
2	C:106:ILE:CG2	C:196:ASP:HB2	0.748
2	D:49:ARG:HB2	D:338:ILE:HG22	0.748
2	D:62:HIS:O	D:70:LEU:HD12	0.748
2	D:223:THR:HB	F:2:GLN:HB3	0.748
2	C:37:TYR:CE2	D:55:LEU:HD22	0.747
2	C:166:SER:CA	C:171:LEU:HD21	0.747

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:283:ARG:HB3	C:293:LYS:CB	0.747
2	C:189:ASP:N	C:294:GLN:HG3	0.747
2	C:182:ILE:HD13	C:202:VAL:C	0.746
2	C:280:LYS:HD3	C:284:ASP:H	0.746
2	D:120:ILE:HD11	D:138:GLU:HB2	0.746
2	F:93:ALA:N	F:127:VAL:HB	0.746
2	D:103:CYS:HA	D:114:CYS:SG	0.745
2	D:235:PHE:CG	D:236:PRO:HD2	0.745
2	C:232:ARG:HH12	F:105:THR:HG23	0.745
2	A:153:ARG:NH2	A:231:LEU:HD11	0.744
2	C:124:ASN:HB2	C:153:LEU:HD21	0.744
2	C:54:ASN:O	C:207:ILE:HG21	0.744
2	C:238:PHE:HB3	C:241:VAL:HG21	0.744
2	D:44:GLN:HG2	D:307:VAL:HG11	0.744
2	A:139:ALA:HA	A:142:ILE:HG22	0.743
2	A:215:ALA:HB1	A:257:PHE:CZ	0.743
2	C:84:SER:HA	C:91:LYS:CE	0.743
2	F:38:VAL:HB	F:96:TYR:CE1	0.743
2	A:160:LEU:HB2	A:220:TRP:CD1	0.742
2	C:234:TRP:HE1	D:145:TYR:HB2	0.742
2	D:153:ASP:HB3	E:61:PHE:CD2	0.742
2	D:191:SER:HB2	D:232:ILE:HG23	0.742
2	A:63:PRO:HG2	A:66:LEU:HD12	0.741

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:175:ALA:H	C:198:LEU:HD12	0.741
2	C:248:VAL:HG23	C:306:SER:H	0.741
2	C:49:GLY:H	C:296:LEU:HA	0.741
2	A:344:PHE:HE2	A:364:GLU:HB3	0.740
2	A:404:ILE:HB	F:57:ALA:CB	0.740
2	C:45:LEU:CD2	C:282:LEU:HD13	0.740
2	C:46:LEU:C	C:293:LYS:HG3	0.740
2	C:46:LEU:HG	C:283:ARG:CA	0.740
2	C:82:SER:CB	C:88:LYS:HG3	0.740
2	C:280:LYS:HG2	C:284:ASP:HA	0.740
2	D:180:PHE:HB2	D:211:TRP:CZ3	0.740
2	C:52:GLY:HA2	C:225:GLY:C	0.739
2	C:83:ASN:HA	C:91:LYS:H	0.739
2	C:106:ILE:HG21	C:162:CYS:HB2	0.739
2	C:188:ALA:N	C:225:GLY:HA3	0.739
2	C:247:VAL:HG12	C:290:PHE:C	0.739
2	C:288:ILE:CD1	C:360:TYR:HB2	0.739
2	C:50:GLU:HG3	C:181:LYS:HG3	0.738
2	C:83:ASN:N	C:91:LYS:HG2	0.737
2	C:181:LYS:HD2	C:201:ARG:NE	0.737
2	D:58:ILE:HG23	D:59:TYR:H	0.737
2	F:125:VAL:HG12	F:126:THR:H	0.737
2	A:9:LEU:HD11	A:191:TRP:CH2	0.736

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:38:PHE:CE2	A:54:PRO:HD3	0.736
2	C:154:TRP:CA	C:200:CYS:HB3	0.736
2	C:177:TYR:CD1	C:296:LEU:HB2	0.736
2	C:187:GLN:HB3	C:224:VAL:HA	0.736
2	C:47:GLY:N	C:293:LYS:HB2	0.736
2	A:185:ALA:CB	A:194:LEU:HD11	0.735
2	C:54:ASN:CB	C:57:VAL:HG23	0.735
2	C:55:THR:HG23	C:91:LYS:HD2	0.735
2	C:179:LEU:HD13	C:197:LEU:HA	0.735
2	C:48:ALA:N	C:297:LEU:HB2	0.735
2	A:143:LEU:O	A:144:LEU:HD23	0.734
2	C:246:PHE:HA	C:280:LYS:C	0.734
2	D:110:ASN:HA	D:126:LEU:CD2	0.734
2	D:184:THR:HA	E:2:ALA:HB2	0.734
2	F:65:VAL:HG12	F:69:PHE:HD1	0.734
2	F:46:LEU:CD1	F:111:VAL:HA	0.734
2	A:344:PHE:HA	A:348:MET:SD	0.733
2	A:53:GLU:CG	A:54:PRO:HD2	0.732
2	A:309:VAL:HB	A:312:LEU:HD12	0.732
2	C:60:MET:HA	C:251:SER:HA	0.732
2	C:95:ILE:HG21	C:207:ILE:HD13	0.732
2	C:115:PRO:HG2	C:165:ARG:HH12	0.732
2	C:166:SER:HA	C:171:LEU:CD2	0.732

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:173:ASP:HB2	C:253:TYR:HB2	0.732
2	C:268:ALA:HB2	C:306:SER:CB	0.732
2	D:152:LEU:HD22	D:196:THR:CG2	0.732
2	A:416:PRO:HB3	D:247:ASP:HB3	0.731
2	C:151:LYS:HA	C:200:CYS:SG	0.731
2	D:70:LEU:O	D:81:ILE:HG22	0.731
2	D:199:PHE:HB3	D:211:TRP:HB3	0.731
2	F:92:THR:HG23	F:127:VAL:HA	0.731
2	C:154:TRP:HB2	C:179:LEU:CD2	0.730
2	D:63:TRP:CD1	D:67:SER:HA	0.730
2	D:232:ILE:HD12	D:243:THR:HB	0.730
2	C:56:ILE:HG23	C:190:TYR:CA	0.729
2	C:102:ALA:HB2	C:198:LEU:HD13	0.729
2	D:61:MET:HE1	D:328:ALA:HB3	0.729
2	D:243:THR:HG23	D:251:ARG:HE	0.729
2	F:92:THR:HA	F:127:VAL:CG1	0.729
2	C:45:LEU:CA	C:286:SER:HA	0.728
2	C:182:ILE:CG2	C:201:ARG:HA	0.728
2	C:184:VAL:HG23	C:186:LYS:H	0.728
2	C:248:VAL:HG13	C:271:LYS:CD	0.728
2	C:321:PRO:HB3	C:339:TYR:CE2	0.728
2	D:211:TRP:CH2	D:216:GLY:HA2	0.728
2	A:404:ILE:CG1	F:57:ALA:HB2	0.727

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:55:THR:HA	C:95:ILE:HB	0.727
2	C:127:ARG:HG2	C:149:HIS:CB	0.727
2	C:301:VAL:HG23	C:368:ASP:CB	0.727
2	D:81:ILE:HD11	D:91:HIS:HB3	0.727
2	A:377:ILE:HG23	A:381:PHE:CE2	0.726
2	C:59:GLN:HG3	C:174:CYS:H	0.726
2	C:127:ARG:NH2	C:128:VAL:HG22	0.726
2	C:135:MET:HG2	C:136:ASN:H	0.726
2	C:265:ARG:HB2	C:268:ALA:HB3	0.726
2	D:124:TYR:CE2	D:126:LEU:HB3	0.726
2	A:34:ALA:HB3	A:38:PHE:CZ	0.725
2	C:72:GLY:CA	C:76:ASP:HB3	0.725
2	C:124:ASN:HB2	C:153:LEU:HD11	0.725
2	C:182:ILE:HB	C:201:ARG:CB	0.725
2	C:182:ILE:N	C:201:ARG:HG2	0.725
2	D:153:ASP:HB3	E:61:PHE:CG	0.725
2	D:281:SER:HA	E:44:HIS:CD2	0.725
2	E:54:VAL:HG13	E:55:PRO:CD	0.725
2	C:179:LEU:N	C:201:ARG:HH11	0.725
2	A:41:ARG:HE	A:50:PRO:HA	0.724
2	C:106:ILE:CB	C:196:ASP:HB2	0.724
2	C:178:PHE:HA	C:201:ARG:CZ	0.724
2	C:286:SER:CB	C:287:VAL:N	0.724

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:80:ILE:HD12	D:89:LYS:CE	0.724
2	D:121:CYS:HB3	D:139:LEU:HB3	0.724
2	D:168:LEU:HB2	D:177:THR:CG2	0.724
2	C:13:ARG:HG2	C:14:ASN:H	0.723
2	C:154:TRP:CB	C:200:CYS:HB3	0.723
2	C:297:LEU:HD21	C:371:ASN:N	0.723
2	D:34:THR:HB	F:29:THR:OG1	0.723
2	D:46:ARG:HA	D:310:GLY:HA2	0.723
2	C:47:GLY:C	C:297:LEU:HA	0.722
2	C:61:ARG:HG2	C:62:ILE:H	0.722
2	C:124:ASN:HB2	C:153:LEU:CD2	0.722
2	C:208:PHE:CE2	C:223:ASP:HB2	0.722
2	C:295:ASP:HA	C:300:LYS:NZ	0.722
2	D:205:ASP:HB2	F:117:ALA:CB	0.722
2	D:232:ILE:CD1	D:243:THR:HB	0.722
2	A:63:PRO:HB2	A:65:TYR:CE2	0.721
2	C:150:ALA:HB1	C:199:ARG:O	0.721
2	C:55:THR:HB	C:95:ILE:N	0.720
2	C:106:ILE:HD12	C:195:GLN:HG3	0.720
2	C:246:PHE:HB3	C:289:LEU:N	0.720
2	C:345:PHE:O	C:348:ILE:HG22	0.720
2	C:103:ILE:CG1	C:199:ARG:HB3	0.719
2	C:181:LYS:HA	C:210:THR:HB	0.719

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:50:GLU:OE1	C:296:LEU:HD22	0.719
2	C:48:ALA:HB1	C:210:THR:HG21	0.718
2	C:50:GLU:HG3	C:208:PHE:CD1	0.718
2	C:61:ARG:HB3	C:61:ARG:NH1	0.718
2	C:106:ILE:HG13	C:195:GLN:CB	0.718
2	C:187:GLN:HG3	C:222:PHE:CE1	0.718
2	C:247:VAL:CG1	C:281:TRP:HA	0.718
2	C:280:LYS:HE2	C:284:ASP:CB	0.718
2	F:59:ILE:HG13	F:71:ILE:CG2	0.718
2	A:218:TYR:HB3	A:290:ILE:CD1	0.717
2	C:23:ASN:CA	C:26:ILE:HG22	0.717
2	C:95:ILE:HG12	C:207:ILE:HD11	0.717
2	C:182:ILE:CG2	C:202:VAL:N	0.717
2	C:248:VAL:HG12	C:280:LYS:CE	0.717
2	C:13:ARG:HG2	C:14:ASN:N	0.716
2	A:16:TRP:CZ2	A:45:GLU:HB3	0.715
2	A:46:TYR:CE1	A:63:PRO:HG3	0.715
2	A:414:LYS:HA	D:36:ASN:HB3	0.715
2	B:20:LYS:HD3	B:23:ILE:CG2	0.715
2	C:48:ALA:HA	C:297:LEU:H	0.715
2	C:88:LYS:HB3	D:143:THR:CA	0.715
2	C:182:ILE:HD11	C:185:ILE:HB	0.715
2	D:37:ILE:HG21	D:268:ASN:HA	0.715

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:47:THR:HG22	D:48:ARG:N	0.715
2	D:57:LYS:HB2	D:59:TYR:CE1	0.715
2	F:92:THR:HA	F:127:VAL:HG11	0.715
2	C:106:ILE:CB	C:196:ASP:H	0.714
2	C:104:GLU:O	C:108:ALA:HB3	0.714
2	C:147:TYR:CD2	C:203:LEU:HB2	0.714
2	D:59:TYR:CE1	D:75:GLN:HB2	0.714
2	D:313:ASN:ND2	D:333:ASP:HB2	0.714
2	E:15:LEU:HD12	E:16:VAL:N	0.714
2	F:35:MET:HG2	F:36:ASN:N	0.714
2	A:261:TRP:HZ3	A:283:TRP:HA	0.713
2	C:46:LEU:HD21	C:280:LYS:C	0.713
2	C:46:LEU:HD22	C:283:ARG:C	0.713
2	C:51:SER:HA	C:54:ASN:HB3	0.713
2	C:84:SER:CA	C:91:LYS:HD3	0.713
2	C:265:ARG:HB3	C:306:SER:HB3	0.713
2	C:178:PHE:CE1	C:207:ILE:HD11	0.712
2	C:189:ASP:HB2	C:294:GLN:C	0.712
2	C:177:TYR:HE2	C:251:SER:HB3	0.712
2	F:14:GLN:HB2	F:15:PRO:HD2	0.712
2	A:145:GLY:HA2	D:293:ASN:ND2	0.711
2	C:26:ILE:HD13	D:89:LYS:CG	0.711
2	C:53:LYS:HE3	C:81:ARG:CG	0.711

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:181:LYS:C	C:201:ARG:HG2	0.711
2	C:251:SER:N	C:300:LYS:HE3	0.711
2	D:158:VAL:HG22	D:168:LEU:HD22	0.711
2	D:235:PHE:CD2	D:236:PRO:HD2	0.711
2	D:313:ASN:HB3	D:332:TRP:CE3	0.711
2	C:183:ASP:H	C:202:VAL:HG22	0.710
2	C:245:ILE:HG12	C:281:TRP:CE3	0.710
2	C:271:LYS:CB	C:280:LYS:HG3	0.710
2	C:246:PHE:O	C:281:TRP:HB2	0.710
2	D:37:ILE:HG12	D:38:ASP:H	0.710
2	D:69:LEU:HD13	D:70:LEU:N	0.710
2	A:191:TRP:HE1	A:195:LEU:HD23	0.709
2	C:54:ASN:HB3	C:207:ILE:CG1	0.709
2	C:55:THR:HG22	C:91:LYS:CB	0.709
2	C:106:ILE:CD1	C:195:GLN:HG3	0.709
2	C:297:LEU:HD21	C:371:ASN:H	0.709
2	E:20:LYS:HD3	E:24:ASN:ND2	0.709
2	F:48:TRP:HE1	F:51:ASP:HB3	0.709
2	A:334:ILE:HD12	A:339:THR:HG21	0.708
2	C:41:HIS:HB2	C:219:PHE:CD2	0.708
2	C:46:LEU:CG	C:286:SER:N	0.708
2	C:46:LEU:HA	C:293:LYS:CG	0.708
2	C:88:LYS:HE3	C:226:ALA:CB	0.708

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:182:ILE:CD1	C:201:ARG:HB3	0.708
2	C:209:GLU:CG	C:222:PHE:HA	0.708
2	C:286:SER:C	C:286:SER:H	0.708
2	A:39:CYS:HB3	A:87:TRP:NE1	0.707
2	A:330:THR:HA	A:333:LEU:CD2	0.707
2	C:106:ILE:HD13	C:163:TYR:N	0.707
2	C:160:ARG:HA	C:197:LEU:CD2	0.707
2	C:245:ILE:HB	C:288:ILE:HG23	0.707
2	C:278:ASN:HB2	C:348:ILE:HG12	0.707
2	C:320:THR:CG2	C:321:PRO:HD2	0.707
2	C:55:THR:HA	C:95:ILE:CD1	0.706
2	C:186:LYS:HG2	D:97:SER:CB	0.706
2	C:246:PHE:HB3	C:289:LEU:CA	0.706
2	D:200:VAL:HG11	D:241:PHE:CE1	0.706
2	F:112:THR:HG22	F:114:THR:HG22	0.706
2	C:181:LYS:H	C:201:ARG:NH1	0.706
2	A:142:ILE:HG12	A:146:PHE:CE2	0.705
2	A:407:ASP:N	A:413:LEU:HG	0.705
2	C:56:ILE:HG21	C:190:TYR:CD1	0.705
2	C:71:GLU:HG3	C:75:GLU:HA	0.705
2	C:181:LYS:HB3	C:201:ARG:CZ	0.705
2	C:296:LEU:H	C:300:LYS:HB2	0.705
2	D:209:LYS:HD3	D:218:CYS:SG	0.705

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:262:MET:SD	D:302:ALA:HB2	0.705
2	E:15:LEU:O	E:19:LEU:HD22	0.705
2	A:136:LEU:CD2	A:376:ALA:HB2	0.704
2	C:273:PHE:CE2	F:48:TRP:HB3	0.704
2	C:175:ALA:HB2	C:198:LEU:HB2	0.703
2	C:177:TYR:CB	C:296:LEU:HB3	0.703
2	C:292:ASN:CA	C:305:LYS:HA	0.703
2	D:34:THR:CB	F:29:THR:HG21	0.703
2	D:254:ASP:CB	D:261:LEU:HD21	0.703
2	F:125:VAL:HB	F:127:VAL:CG2	0.703
2	A:95:LEU:HB2	A:96:PRO:HD2	0.702
2	A:141:ALA:HB1	D:44:GLN:HB2	0.702
2	C:51:SER:CA	C:54:ASN:HB2	0.702
2	C:54:ASN:CG	C:57:VAL:HG23	0.702
2	C:137:VAL:HG22	C:138:PRO:HD2	0.702
2	C:154:TRP:HB3	C:179:LEU:HD11	0.702
2	C:173:ASP:CB	C:253:TYR:HB2	0.702
2	C:177:TYR:HB2	C:296:LEU:HB3	0.702
2	C:181:LYS:CD	C:201:ARG:HE	0.702
2	C:244:ILE:CB	C:287:VAL:HB	0.702
2	C:321:PRO:HG3	C:339:TYR:CD1	0.702
2	D:21:ALA:HB1	E:27:ARG:NE	0.702
2	D:50:THR:HB	D:335:PHE:CZ	0.702

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:123:ILE:HD12	D:171:ILE:CD1	0.702
2	D:222:PHE:HE2	D:251:ARG:HD2	0.702
2	A:141:ALA:HA	D:44:GLN:C	0.701
2	C:34:LYS:CB	D:55:LEU:HD12	0.701
2	C:160:ARG:CA	C:197:LEU:HD21	0.701
2	C:191:VAL:CG1	C:252:SER:HA	0.701
2	C:246:PHE:C	C:246:PHE:HA	0.701
2	C:271:LYS:HG3	C:280:LYS:HG3	0.701
2	C:247:VAL:N	C:280:LYS:C	0.701
2	C:292:ASN:OD1	C:301:VAL:HG11	0.701
2	C:321:PRO:HG2	C:324:ALA:CB	0.701
2	A:75:GLY:HA3	A:102:GLU:CG	0.700
2	C:280:LYS:HG2	C:284:ASP:CB	0.700
2	C:300:LYS:HB3	C:300:LYS:NZ	0.700
2	F:30:PHE:CD1	F:78:ASN:HB2	0.700
2	F:34:LYS:HE2	F:53:SER:HA	0.700
2	A:146:PHE:HA	D:291:ASP:HB3	0.699
2	A:276:ARG:HD3	A:278:SER:CB	0.699
2	C:2:GLY:O	C:36:VAL:HG22	0.699
2	C:58:LYS:HG3	C:58:LYS:O	0.699
2	C:184:VAL:CG2	C:209:GLU:HB3	0.699
2	C:245:ILE:HG23	C:282:LEU:CD1	0.699
2	C:280:LYS:HD3	C:284:ASP:N	0.699

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:288:ILE:HD13	C:289:LEU:N	0.699
2	D:34:THR:HB	F:29:THR:HG21	0.699
2	D:82:TRP:CZ3	D:89:LYS:HB2	0.699
2	F:94:VAL:HG11	F:129:SER:CA	0.699
2	C:300:LYS:HB3	C:300:LYS:HZ3	0.698
2	D:226:GLU:HB3	F:28:PHE:CD2	0.698
2	E:59:ASN:HB2	E:60:PRO:HD2	0.698
2	A:236:VAL:HB	A:240:GLN:H	0.697
2	C:60:MET:HB3	C:173:ASP:CG	0.697
2	A:160:LEU:CD2	A:336:LEU:HD21	0.696
2	C:47:GLY:CA	C:282:LEU:HA	0.696
2	C:154:TRP:CG	C:200:CYS:HG	0.696
2	A:185:ALA:HB1	A:194:LEU:HD11	0.695
2	C:46:LEU:HB3	C:285:THR:C	0.695
2	C:48:ALA:CB	C:210:THR:HG21	0.695
2	C:83:ASN:ND2	C:90:THR:HG23	0.695
2	C:247:VAL:HG21	C:292:ASN:C	0.695
2	D:69:LEU:HD22	D:70:LEU:H	0.695
2	D:106:ALA:HB2	D:151:PHE:CE2	0.695
2	F:46:LEU:CD1	F:111:VAL:HG22	0.695
2	F:35:MET:SD	F:80:LEU:HD13	0.695
2	C:60:MET:HG2	C:61:ARG:N	0.694
2	C:283:ARG:HB3	C:293:LYS:HB3	0.694

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:289:LEU:CB	C:361:PRO:HA	0.694
2	D:293:ASN:HB3	D:309:ALA:CB	0.694
2	F:37:TRP:HA	F:95:TYR:HE1	0.694
2	F:125:VAL:CB	F:127:VAL:HG22	0.694
2	C:265:ARG:CG	C:268:ALA:HB3	0.693
2	C:267:GLN:HG3	C:283:ARG:NH1	0.693
2	C:298:ALA:CA	C:301:VAL:HG22	0.693
2	D:52:ARG:HG2	D:53:GLY:N	0.693
2	F:12:LEU:HD12	F:126:THR:CG2	0.693
2	C:46:LEU:C	C:282:LEU:C	0.692
2	C:54:ASN:HA	C:57:VAL:CG2	0.692
2	C:87:GLU:HG3	C:88:LYS:H	0.692
2	C:184:VAL:CA	C:209:GLU:HA	0.692
2	C:283:ARG:HB3	C:293:LYS:CA	0.692
2	A:117:GLN:HG3	A:118:LEU:HD22	0.691
2	C:178:PHE:HB3	C:198:LEU:CD2	0.691
2	C:246:PHE:HA	C:280:LYS:O	0.691
2	C:321:PRO:HD3	C:339:TYR:CD2	0.691
2	D:23:LYS:HE2	D:28:ALA:HB3	0.691
2	D:292:PHE:CE1	D:315:VAL:HG12	0.691
2	F:46:LEU:HD11	F:111:VAL:HG22	0.691
2	A:68:TRP:CE2	A:105:GLU:HG2	0.690
2	C:37:TYR:CE1	C:42:ARG:HD2	0.690

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:46:LEU:CD1	C:281:TRP:N	0.690
2	C:84:SER:HA	C:91:LYS:NZ	0.690
2	C:153:LEU:HA	C:156:ASP:OD1	0.690
2	C:268:ALA:HA	C:280:LYS:CE	0.690
2	C:348:ILE:HD11	F:106:ARG:NH1	0.690
2	A:140:SER:O	D:45:MET:HA	0.690
2	A:218:TYR:CB	A:290:ILE:HG13	0.689
2	D:123:ILE:HG21	D:137:ARG:H	0.689
2	D:210:LEU:HD11	D:255:LEU:CD1	0.689
2	C:99:LEU:HA	C:198:LEU:HD23	0.688
2	C:124:ASN:HB2	C:153:LEU:CD1	0.688
2	C:176:GLN:HG2	C:299:GLU:CG	0.688
2	C:244:ILE:HB	C:287:VAL:HG23	0.688
2	C:289:LEU:HD12	C:361:PRO:HB2	0.688
2	D:199:PHE:HB3	D:211:TRP:CD1	0.688
2	D:286:LEU:HD21	D:294:CYS:SG	0.688
2	A:17:ARG:HD3	A:20:ARG:NH2	0.687
2	C:45:LEU:HD11	C:221:MET:HG3	0.687
2	C:293:LYS:HA	C:295:ASP:HB3	0.687
2	A:236:VAL:CG1	A:240:GLN:HB3	0.686
2	C:59:GLN:HG2	C:60:MET:N	0.686
2	A:309:VAL:HG23	A:312:LEU:HB2	0.685
2	C:183:ASP:HA	C:202:VAL:CG1	0.685

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:42:ARG:O	C:241:VAL:HG13	0.685
2	C:265:ARG:CB	C:306:SER:HB3	0.685
2	D:126:LEU:CA	D:133:VAL:HG21	0.685
2	F:103:PRO:HG2	F:104:PHE:H	0.685
2	C:3:CYS:N	C:36:VAL:H	0.685
2	A:39:CYS:SG	A:81:CYS:HB3	0.684
2	A:276:ARG:CD	A:278:SER:HB2	0.684
2	C:3:CYS:CB	C:35:GLN:HB3	0.684
2	C:77:PRO:HG2	C:81:ARG:NH1	0.684
2	C:178:PHE:HB3	C:198:LEU:CG	0.684
2	C:182:ILE:HG23	C:202:VAL:HG13	0.684
2	C:184:VAL:HG23	C:186:LYS:N	0.684
2	C:248:VAL:HG22	C:291:LEU:O	0.684
2	D:117:LEU:HB2	D:145:TYR:CE1	0.684
2	D:223:THR:HB	F:2:GLN:CG	0.684
2	F:100:CYS:SG	F:101:PRO:HD2	0.684
2	A:142:ILE:HD13	A:143:LEU:H	0.683
2	A:182:TYR:HB2	B:18:ALA:CB	0.683
2	A:237:LEU:H	A:240:GLN:HB3	0.683
2	A:348:MET:HG2	A:360:LYS:CD	0.683
2	C:247:VAL:CG1	C:290:PHE:HB3	0.683
2	C:257:ILE:HG12	C:258:ARG:N	0.683
2	D:34:THR:HB	F:29:THR:CG2	0.683

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:47:THR:HB	D:337:LYS:HE3	0.683
2	D:63:TRP:CD1	D:321:THR:HG1	0.683
2	D:54:HIS:NE2	D:80:ILE:HG23	0.683
2	A:8:SER:HB3	A:11:GLU:HG2	0.682
2	C:45:LEU:HD22	C:208:PHE:HZ	0.682
2	C:191:VAL:HG11	C:252:SER:CA	0.682
2	C:293:LYS:HG2	C:294:GLN:N	0.682
2	D:18:ILE:HD11	E:23:ALA:CB	0.682
2	D:57:LYS:HG2	D:332:TRP:CD1	0.682
2	C:46:LEU:HB2	C:283:ARG:O	0.681
2	C:82:SER:HB2	C:88:LYS:CG	0.681
2	C:142:PHE:HB3	C:203:LEU:CD2	0.681
2	D:70:LEU:HG	D:71:VAL:N	0.681
2	E:1:MET:HG3	E:2:ALA:N	0.681
2	A:174:LYS:HD3	A:210:MET:SD	0.680
2	A:411:LYS:HG3	A:412:PRO:CD	0.680
2	B:26:LEU:HA	B:31:GLY:HA3	0.680
2	C:23:ASN:HA	C:26:ILE:HG22	0.680
2	C:46:LEU:C	C:46:LEU:H	0.680
2	C:57:VAL:HG11	C:188:ALA:HB3	0.680
2	C:117:VAL:HG21	C:162:CYS:SG	0.680
2	C:127:ARG:CG	C:149:HIS:HB3	0.680
2	C:171:LEU:HB3	C:195:GLN:NE2	0.680

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:271:LYS:HB2	C:280:LYS:CE	0.680
2	D:155:ASN:O	D:171:ILE:HG22	0.680
2	A:182:TYR:HD1	B:14:LEU:HD22	0.679
2	C:135:MET:HG2	C:136:ASN:N	0.679
2	C:184:VAL:CG2	C:186:LYS:HG3	0.679
2	C:184:VAL:HG22	C:209:GLU:CD	0.679
2	C:238:PHE:HB3	C:241:VAL:CG2	0.679
2	D:58:ILE:HG22	D:331:SER:O	0.679
2	F:37:TRP:HD1	F:49:VAL:HB	0.679
2	A:174:LYS:CD	A:210:MET:HB2	0.678
2	A:182:TYR:HB3	B:14:LEU:CD1	0.678
2	C:95:ILE:HG21	C:207:ILE:CD1	0.678
2	C:106:ILE:HB	C:196:ASP:N	0.678
2	C:156:ASP:O	C:159:VAL:HG22	0.678
2	D:111:TYR:HE2	D:171:ILE:HD12	0.678
2	D:177:THR:HG23	D:178:THR:HG22	0.678
2	F:92:THR:C	F:127:VAL:HB	0.678
2	A:126:THR:HG22	A:129:TYR:CE2	0.677
2	C:46:LEU:HD22	C:284:ASP:C	0.677
2	C:106:ILE:HG13	C:195:GLN:CG	0.677
2	C:50:GLU:O	C:223:ASP:HB3	0.677
2	C:51:SER:OG	C:226:ALA:HB3	0.677
2	C:280:LYS:CD	C:284:ASP:HB2	0.677

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:47:GLY:O	C:297:LEU:HA	0.677
2	D:69:LEU:HD11	D:81:ILE:CG2	0.677
2	C:44:LEU:HD23	C:222:PHE:CD2	0.676
2	C:55:THR:HB	C:95:ILE:CA	0.676
2	C:154:TRP:HB2	C:179:LEU:HD11	0.676
2	C:154:TRP:HE3	C:197:LEU:HD12	0.676
2	A:149:LEU:HB3	C:392:GLU:HB2	0.675
2	A:330:THR:HA	A:333:LEU:HD22	0.675
2	C:53:LYS:CD	C:190:TYR:HB2	0.675
2	D:111:TYR:CE2	D:123:ILE:HG13	0.675
2	D:284:LEU:CD2	D:296:VAL:HG13	0.675
2	C:88:LYS:CG	D:143:THR:HA	0.674
2	C:300:LYS:O	C:303:ALA:HB3	0.674
2	D:123:ILE:CG2	D:136:SER:HB3	0.674
2	A:416:PRO:HG2	D:248:ALA:N	0.673
2	C:54:ASN:CG	C:207:ILE:HG13	0.673
2	C:82:SER:C	C:88:LYS:HA	0.673
2	C:150:ALA:HB1	C:199:ARG:C	0.673
2	D:80:ILE:CD1	D:89:LYS:HG3	0.673
2	D:123:ILE:HG21	D:137:ARG:N	0.673
2	A:161:PHE:CE1	A:165:ILE:HD12	0.672
2	A:259:VAL:HB	A:260:PRO:HD3	0.672
2	C:44:LEU:HD23	C:222:PHE:HD2	0.672

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:46:LEU:HB2	C:293:LYS:HD2	0.672
2	C:96:LYS:HB3	C:204:THR:HA	0.672
2	C:181:LYS:CB	C:210:THR:HG22	0.672
2	C:279:ASN:C	C:279:ASN:CB	0.672
2	C:280:LYS:CG	C:284:ASP:HB2	0.672
2	C:178:PHE:HD1	C:181:LYS:HZ3	0.672
2	A:232:LEU:CD1	A:307:ILE:HG12	0.671
2	C:45:LEU:HD22	C:221:MET:HB3	0.671
2	C:84:SER:HA	C:91:LYS:CD	0.671
2	A:147:ARG:HG2	A:148:HIS:H	0.670
2	C:30:LEU:HA	C:33:ASP:HB3	0.670
2	C:103:ILE:HD13	C:104:GLU:CA	0.670
2	C:185:ILE:CG2	C:203:LEU:HB3	0.670
2	C:289:LEU:HD13	C:290:PHE:H	0.670
2	C:26:ILE:CD1	D:89:LYS:HG2	0.670
2	D:111:TYR:H	D:126:LEU:HD11	0.670
2	A:334:ILE:CG2	A:339:THR:HB	0.669
2	A:374:MET:HA	A:377:ILE:HG22	0.669
2	C:55:THR:HG21	C:84:SER:OG	0.669
2	C:57:VAL:HG11	C:188:ALA:CB	0.669
2	C:81:ARG:O	C:88:LYS:HB2	0.669
2	C:153:LEU:HB3	C:199:ARG:HE	0.669
2	D:106:ALA:CB	D:111:TYR:HB3	0.669

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	F:46:LEU:HD21	F:112:THR:H	0.669
2	A:180:TRP:HA	A:184:THR:CG2	0.668
2	C:150:ALA:CB	C:199:ARG:HB2	0.668
2	C:180:ASP:HB2	C:296:LEU:CD2	0.668
2	C:246:PHE:C	C:281:TRP:HB2	0.668
2	C:247:VAL:HG12	C:291:LEU:N	0.668
2	C:173:ASP:N	C:253:TYR:HB2	0.668
2	C:297:LEU:O	C:301:VAL:HG13	0.668
2	D:23:LYS:HD3	D:28:ALA:N	0.668
2	D:134:ARG:HA	D:134:ARG:HE	0.668
2	D:199:PHE:HE1	D:201:SER:HB3	0.668
2	D:281:SER:HA	E:44:HIS:NE2	0.668
2	A:62:CYS:HB2	A:63:PRO:HD2	0.667
2	C:8:LYS:HG3	C:9:THR:H	0.667
2	C:45:LEU:CD1	C:221:MET:HA	0.667
2	C:46:LEU:HD21	C:280:LYS:CA	0.667
2	C:54:ASN:O	C:95:ILE:HB	0.667
2	C:106:ILE:C	C:196:ASP:HB2	0.667
2	C:115:PRO:HG2	C:165:ARG:NH1	0.667
2	C:127:ARG:CZ	C:153:LEU:HD12	0.667
2	C:184:VAL:HG13	C:209:GLU:CG	0.667
2	C:191:VAL:HG11	C:252:SER:CB	0.667
2	C:154:TRP:N	C:200:CYS:HB3	0.667

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:250:SER:N	C:295:ASP:HB2	0.667
2	A:113:SER:OG	A:114:PRO:HA	0.666
2	A:336:LEU:HD12	A:375:VAL:HG21	0.666
2	C:45:LEU:HG	C:282:LEU:CD1	0.666
2	C:58:LYS:HD3	C:95:ILE:CD1	0.666
2	F:112:THR:CG2	F:114:THR:HG22	0.666
2	A:232:LEU:C	A:232:LEU:HD23	0.665
2	C:124:ASN:CB	C:153:LEU:HD21	0.665
2	C:331:ASP:OD2	C:334:VAL:HG23	0.665
2	C:189:ASP:HA	C:189:ASP:N	0.665
2	C:106:ILE:HG13	C:195:GLN:CD	0.664
2	C:151:LYS:HG3	C:202:VAL:HG13	0.664
2	C:185:ILE:HG21	C:203:LEU:HB3	0.664
2	C:187:GLN:O	C:208:PHE:HB2	0.664
2	C:288:ILE:HG12	C:360:TYR:N	0.664
2	C:281:TRP:H22	C:371:ASN:HB3	0.664
2	D:280:LYS:HE3	E:54:VAL:CG1	0.664
2	E:37:LEU:C	E:37:LEU:HD23	0.664
2	F:5:LEU:H	F:5:LEU:HD23	0.664
2	F:125:VAL:HG12	F:126:THR:N	0.664
2	C:8:LYS:HG3	C:9:THR:N	0.663
2	C:46:LEU:HA	C:293:LYS:HG3	0.663
2	C:51:SER:C	C:226:ALA:H	0.663

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:106:ILE:CG1	C:195:GLN:HB2	0.663
2	C:178:PHE:HE1	C:181:LYS:HE2	0.663
2	C:211:LYS:CB	C:220:HIS:HA	0.663
2	C:88:LYS:CB	D:143:THR:HA	0.663
2	D:164:THR:HB	D:185:GLY:O	0.663
2	D:288:GLY:HA2	D:294:CYS:HB3	0.663
2	F:94:VAL:HB	F:128:SER:C	0.663
2	A:27:LEU:HA	A:41:ARG:NH1	0.662
2	A:315:ASN:OD1	A:316:LEU:HD23	0.662
2	A:355:THR:HG23	A:356:LEU:N	0.662
2	C:50:GLU:HB3	C:181:LYS:CE	0.662
2	C:106:ILE:HD13	C:163:TYR:H	0.662
2	C:171:LEU:HB3	C:195:GLN:HG2	0.662
2	C:51:SER:HA	C:51:SER:N	0.662
2	A:205:LEU:C	A:205:LEU:HD23	0.661
2	A:415:CYS:HA	D:270:ILE:CD1	0.661
2	C:151:LYS:HA	C:200:CYS:O	0.661
2	D:7:LEU:CD2	E:16:VAL:HG21	0.661
2	D:24:ALA:HB2	D:27:ASP:HB3	0.661
2	D:242:ALA:HB2	D:252:LEU:HB3	0.661
2	D:322:ASP:O	E:54:VAL:HG12	0.661
2	A:144:LEU:CD1	D:46:ARG:HG3	0.660
2	C:83:ASN:C	C:91:LYS:HG2	0.660

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:182:ILE:HB	C:202:VAL:N	0.660
2	D:49:ARG:CB	D:338:ILE:HG22	0.660
2	F:65:VAL:HG12	F:69:PHE:CD1	0.660
2	A:1:ARG:CB	A:2:PRO:HD3	0.659
2	C:248:VAL:HG23	C:306:SER:N	0.659
2	C:321:PRO:HG3	C:339:TYR:CG	0.659
2	C:43:LEU:C	C:45:LEU:HD12	0.658
2	C:53:LYS:HB3	C:91:LYS:CE	0.658
2	C:57:VAL:HG13	C:294:GLN:C	0.658
2	C:150:ALA:HB1	C:199:ARG:HB2	0.658
2	C:184:VAL:HG22	C:209:GLU:CG	0.658
2	C:245:ILE:CG2	C:282:LEU:HD12	0.658
2	D:139:LEU:HA	D:169:TRP:CZ2	0.658
2	C:92:VAL:HG13	C:205:SER:O	0.657
2	C:103:ILE:CG1	C:131:ILE:HG21	0.657
2	C:185:ILE:HG21	C:203:LEU:CA	0.657
2	A:174:LYS:HD2	A:210:MET:CB	0.656
2	A:257:PHE:CE1	A:286:ILE:HD11	0.656
2	C:55:THR:HG23	C:91:LYS:CD	0.656
2	C:256:VAL:HG13	C:257:ILE:N	0.656
2	C:283:ARG:CB	C:293:LYS:HB3	0.656
2	D:71:VAL:CG2	D:105:TYR:HB2	0.656
2	D:190:LEU:HG	D:199:PHE:HE2	0.656

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:223:THR:HB	F:2:GLN:CB	0.656
2	E:14:LYS:O	E:15:LEU:HG	0.656
2	A:182:TYR:HB3	B:14:LEU:HD13	0.655
2	C:75:GLU:HB3	C:190:TYR:CB	0.655
2	C:203:LEU:HD22	C:204:THR:N	0.655
2	C:248:VAL:HG23	C:305:LYS:HB2	0.655
2	D:81:ILE:HG12	D:90:VAL:CG1	0.655
2	C:179:LEU:N	C:201:ARG:HG3	0.654
2	C:248:VAL:HG12	C:280:LYS:HD2	0.654
2	D:31:SER:HA	F:26:SER:HB3	0.654
2	C:50:GLU:C	C:208:PHE:HB2	0.653
2	C:53:LYS:CB	C:91:LYS:HE3	0.653
2	C:215:ASP:OD1	C:217:VAL:HG12	0.653
2	C:296:LEU:HD12	C:299:GLU:H	0.653
2	D:52:ARG:HG2	D:53:GLY:H	0.653
2	D:69:LEU:HD22	D:82:TRP:O	0.653
2	A:13:VAL:HB	A:191:TRP:CZ2	0.652
2	A:156:ILE:HG12	A:224:GLU:CG	0.652
2	A:374:MET:O	A:377:ILE:HG22	0.652
2	B:11:SER:O	B:14:LEU:HB3	0.652
2	C:40:THR:HG21	C:220:HIS:ND1	0.652
2	C:50:GLU:HB3	C:181:LYS:NZ	0.652
2	C:60:MET:HG2	C:61:ARG:H	0.652

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:157:GLU:HA	C:160:ARG:HG2	0.652
2	C:186:LYS:HB3	C:205:SER:CB	0.652
2	C:249:ALA:HB2	C:294:GLN:HB3	0.652
2	D:79:LEU:HB3	D:93:ILE:CG2	0.652
2	A:148:HIS:HB2	C:393:LEU:CB	0.651
2	A:255:LEU:HD23	A:259:VAL:HG23	0.651
2	A:406:ARG:HA	A:413:LEU:HD12	0.651
2	C:44:LEU:HB3	C:244:ILE:CG2	0.651
2	C:45:LEU:HB2	C:208:PHE:CZ	0.651
2	C:59:GLN:CB	C:251:SER:HB2	0.651
2	C:127:ARG:HB3	C:153:LEU:CD1	0.651
2	D:105:TYR:CZ	D:109:GLY:HA2	0.651
2	A:140:SER:HB2	D:45:MET:HG3	0.650
2	A:312:LEU:CD1	A:326:LEU:HD23	0.650
2	C:60:MET:HB3	C:173:ASP:OD2	0.650
2	C:245:ILE:H	C:286:SER:CB	0.650
2	C:292:ASN:C	C:292:ASN:CB	0.650
2	D:284:LEU:HD23	D:296:VAL:HG13	0.650
2	A:249:ILE:HG23	A:253:VAL:CG2	0.649
2	A:288:LEU:N	A:289:PRO:HD2	0.649
2	C:246:PHE:C	C:246:PHE:CB	0.649
2	C:338:LYS:HE3	C:363:PHE:CB	0.649
2	D:124:TYR:HE2	D:126:LEU:HB3	0.649

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:164:THR:HG21	D:184:THR:C	0.649
2	C:232:ARG:HE	F:101:PRO:HG2	0.649
2	A:137:VAL:HG23	A:165:ILE:CD1	0.648
2	A:222:LEU:C	A:222:LEU:HD13	0.648
2	C:43:LEU:HB2	C:45:LEU:CD1	0.648
2	C:45:LEU:CG	C:282:LEU:HD13	0.648
2	C:51:SER:CA	C:207:ILE:HG23	0.648
2	C:67:GLY:C	C:257:ILE:HD12	0.648
2	C:181:LYS:O	C:182:ILE:HG13	0.648
2	C:300:LYS:HE2	C:303:ALA:HB3	0.648
2	C:393:LEU:O	C:393:LEU:HD22	0.648
2	D:63:TRP:NE1	D:67:SER:HA	0.648
2	E:20:LYS:C	E:20:LYS:HD2	0.648
2	F:12:LEU:HA	F:126:THR:HG22	0.648
2	A:277:ASN:HD21	A:283:TRP:HB2	0.647
2	C:46:LEU:CG	C:46:LEU:HB2	0.647
2	C:184:VAL:HG23	C:186:LYS:CA	0.647
2	C:188:ALA:CA	C:225:GLY:CA	0.647
2	C:147:TYR:HD2	C:203:LEU:HB2	0.647
2	C:45:LEU:O	C:223:ASP:HA	0.647
2	C:247:VAL:HG22	C:281:TRP:HA	0.647
2	D:37:ILE:CG2	D:268:ASN:HA	0.647
2	F:59:ILE:C	F:59:ILE:HD13	0.647

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:56:ILE:HG13	C:191:VAL:O	0.646
2	C:59:GLN:CB	C:174:CYS:HB3	0.646
2	C:59:GLN:HA	C:174:CYS:CB	0.646
2	C:185:ILE:C	C:205:SER:HB2	0.646
2	C:246:PHE:HB2	C:287:VAL:O	0.646
2	C:285:THR:C	C:285:THR:CB	0.646
2	A:147:ARG:HD2	A:148:HIS:N	0.645
2	C:56:ILE:HB	C:191:VAL:N	0.645
2	C:56:ILE:HG21	C:190:TYR:HD1	0.645
2	C:95:ILE:HG13	C:178:PHE:CZ	0.645
2	C:175:ALA:HB3	C:194:ASP:OD1	0.645
2	D:37:ILE:HG21	D:268:ASN:CA	0.645
2	D:81:ILE:O	D:90:VAL:HG12	0.645
2	D:105:TYR:CE2	D:109:GLY:HA2	0.645
2	F:92:THR:HG23	F:127:VAL:CA	0.645
2	C:23:ASN:HA	C:26:ILE:CG2	0.644
2	C:26:ILE:HD11	D:92:ALA:CB	0.644
2	D:58:ILE:HG23	D:59:TYR:N	0.644
2	A:38:PHE:HE2	A:54:PRO:HD3	0.643
2	A:62:CYS:HB2	A:63:PRO:CD	0.643
2	A:335:PRO:HG3	A:374:MET:CG	0.643
2	A:335:PRO:HD3	A:374:MET:SD	0.643
2	C:56:ILE:HB	C:190:TYR:CA	0.643

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:187:GLN:HB3	C:223:ASP:C	0.643
2	C:151:LYS:H	C:200:CYS:HA	0.643
2	C:268:ALA:O	C:271:LYS:HB3	0.643
2	D:23:LYS:HB2	D:27:ASP:H	0.643
2	D:80:ILE:CG1	D:89:LYS:HG3	0.643
2	D:234:PHE:HA	D:241:PHE:CB	0.643
2	D:240:ALA:HB1	D:253:PHE:O	0.643
2	D:242:ALA:HB3	D:285:LEU:HD11	0.643
2	C:53:LYS:HD3	C:190:TYR:HD1	0.642
2	C:159:VAL:HB	C:196:ASP:CG	0.642
2	C:166:SER:HB3	C:171:LEU:CD1	0.642
2	C:178:PHE:CD2	C:201:ARG:HD2	0.642
2	C:191:VAL:CG1	C:192:PRO:HD2	0.642
2	C:370:GLU:CG	C:372:ILE:HB	0.642
2	D:59:TYR:HE1	D:75:GLN:HB2	0.641
2	D:283:ARG:HB2	E:41:CYS:SG	0.641
2	F:46:LEU:CD1	F:111:VAL:HG13	0.641
2	A:334:ILE:CD1	A:339:THR:HG21	0.640
2	C:51:SER:CB	C:187:GLN:HA	0.640
2	C:178:PHE:CD1	C:201:ARG:HD2	0.640
2	F:3:VAL:HG22	F:27:GLY:HA3	0.640
2	A:243:PHE:HA	A:246:TYR:CD1	0.639
2	C:52:GLY:HA3	C:188:ALA:O	0.639

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:103:ILE:HB	C:199:ARG:CA	0.639
2	C:292:ASN:HB3	C:305:LYS:HB3	0.639
2	C:176:GLN:CG	C:299:GLU:HG3	0.639
2	C:234:TRP:HD1	D:117:LEU:HD23	0.639
2	D:139:LEU:HG	D:169:TRP:CE2	0.639
2	D:277:SER:OG	D:318:LEU:HD12	0.639
2	A:43:PHE:CE2	A:45:GLU:HA	0.638
2	A:57:PHE:HB2	A:78:TYR:CD1	0.638
2	A:139:ALA:HA	A:142:ILE:CG2	0.638
2	A:311:LYS:HD3	A:311:LYS:O	0.638
2	C:46:LEU:O	C:49:GLY:HA2	0.638
2	C:267:GLN:HB2	C:283:ARG:NH2	0.638
2	D:128:THR:HG23	D:130:GLU:O	0.638
2	F:52:ILE:HG22	F:71:ILE:HD13	0.638
2	F:94:VAL:HG11	F:129:SER:HA	0.638
2	A:253:VAL:N	A:254:PRO:HD2	0.637
2	A:409:SER:HA	A:411:LYS:C	0.637
2	C:51:SER:HA	C:54:ASN:CB	0.637
2	C:55:THR:CA	C:95:ILE:HB	0.637
2	C:171:LEU:HB3	C:195:GLN:CD	0.637
2	C:251:SER:HB3	C:300:LYS:HD3	0.637
2	C:296:LEU:CD1	C:299:GLU:H	0.637
2	D:23:LYS:CE	D:28:ALA:HB3	0.637

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:318:LEU:HD11	D:327:VAL:CG1	0.637
2	A:302:VAL:O	A:305:ILE:HG22	0.636
2	C:52:GLY:HA3	C:188:ALA:C	0.636
2	C:54:ASN:HB3	C:207:ILE:HG13	0.636
2	C:102:ALA:HA	C:194:ASP:O	0.636
2	A:415:CYS:SG	D:37:ILE:HG22	0.636
2	D:151:PHE:CA	D:157:ILE:HG22	0.636
2	D:276:VAL:CG1	D:285:LEU:HD21	0.636
2	A:167:ARG:C	A:167:ARG:HD3	0.635
2	C:46:LEU:HD22	C:280:LYS:HA	0.635
2	C:92:VAL:CG1	C:204:THR:HG22	0.635
2	C:173:ASP:CA	C:253:TYR:HB2	0.635
2	C:50:GLU:HG3	C:181:LYS:HB2	0.634
2	C:54:ASN:CA	C:57:VAL:HG23	0.634
2	C:189:ASP:HB2	C:294:GLN:O	0.634
2	C:305:LYS:HE2	C:307:LYS:CA	0.634
2	C:305:LYS:HE3	C:308:ILE:HD12	0.634
2	D:234:PHE:HA	D:241:PHE:HB3	0.634
2	E:40:TYR:CE1	E:44:HIS:HB2	0.634
2	A:236:VAL:HG12	A:237:LEU:N	0.633
2	A:361:LEU:HD11	A:365:LEU:CD1	0.633
2	C:154:TRP:CE3	C:179:LEU:HD21	0.633
2	D:139:LEU:HD23	D:169:TRP:CH2	0.633

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:152:LEU:CD2	D:192:LEU:HD13	0.633
2	C:96:LYS:O	C:99:LEU:HB3	0.632
2	C:189:ASP:HB2	C:294:GLN:HG2	0.632
2	C:186:LYS:N	C:205:SER:HB2	0.632
2	C:224:VAL:HG23	C:285:THR:HG21	0.632
2	D:51:LEU:HG	D:82:TRP:CD2	0.632
2	A:309:VAL:HB	A:326:LEU:HD21	0.631
2	C:3:CYS:CA	C:36:VAL:H	0.631
2	C:50:GLU:CB	C:181:LYS:HE3	0.631
2	C:53:LYS:O	C:56:ILE:HG22	0.631
2	C:60:MET:HB3	C:173:ASP:CB	0.631
2	C:143:PRO:HB2	C:144:PRO:HD2	0.631
2	C:208:PHE:HD1	C:209:GLU:CA	0.631
2	C:305:LYS:CE	C:307:LYS:HA	0.631
2	D:193:ALA:HB1	D:194:PRO:CD	0.631
2	D:225:HIS:NE2	D:251:ARG:HG2	0.631
2	D:332:TRP:CD1	D:333:ASP:H	0.631
2	C:59:GLN:CA	C:174:CYS:HB3	0.630
2	C:153:LEU:HB3	C:199:ARG:NE	0.630
2	C:184:VAL:CB	C:209:GLU:HG2	0.630
2	C:211:LYS:HE3	C:218:ASN:ND2	0.630
2	A:343:ILE:C	A:343:ILE:HD13	0.629
2	C:83:ASN:HB3	C:86:GLY:O	0.629

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:159:VAL:HG11	C:199:ARG:HH21	0.629
2	C:224:VAL:HG21	C:227:GLN:NE2	0.629
2	C:265:ARG:CZ	C:309:GLU:HB3	0.629
2	C:266:LEU:O	C:266:LEU:HD13	0.629
2	D:33:ILE:HD11	F:78:ASN:CB	0.629
2	C:62:ILE:HG21	C:64:HIS:HB3	0.628
2	C:75:GLU:HB3	C:190:TYR:HB3	0.628
2	D:31:SER:O	D:32:GLN:HG2	0.628
2	A:60:VAL:HG12	A:61:SER:N	0.627
2	A:156:ILE:HG12	A:224:GLU:HG2	0.627
2	C:95:ILE:HD11	C:178:PHE:CG	0.627
2	C:209:GLU:HG3	C:221:MET:C	0.627
2	C:189:ASP:N	C:294:GLN:HA	0.627
2	D:77:GLY:O	D:95:LEU:HB2	0.627
2	D:315:VAL:O	D:331:SER:HA	0.627
2	E:71:LEU:C	E:71:LEU:HD23	0.627
2	C:93:GLN:O	C:96:LYS:HG2	0.626
2	C:267:GLN:HB2	C:283:ARG:CZ	0.626
2	F:15:PRO:O	F:87:LEU:HB3	0.626
2	A:218:TYR:HB3	A:290:ILE:HD11	0.625
2	C:56:ILE:CG1	C:191:VAL:H	0.625
2	C:107:VAL:HG11	C:128:VAL:HG22	0.625
2	C:209:GLU:HB2	C:222:PHE:HA	0.625

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:224:VAL:CG2	C:285:THR:HG21	0.625
2	D:61:MET:CE	D:328:ALA:HB3	0.625
2	D:311:HIS:CE1	D:337:LYS:HG3	0.625
2	F:73:ARG:HB2	F:80:LEU:HB2	0.625
2	A:158:LEU:HB2	D:46:ARG:HE	0.624
2	A:309:VAL:HB	A:326:LEU:CD2	0.624
2	B:20:LYS:O	B:23:ILE:HG22	0.624
2	C:46:LEU:CD2	C:286:SER:N	0.624
2	C:84:SER:OG	C:94:ASP:HB3	0.624
2	C:179:LEU:HB2	C:197:LEU:O	0.624
2	C:72:GLY:H	C:76:ASP:N	0.624
2	A:146:PHE:CB	D:291:ASP:HB3	0.623
2	C:51:SER:HB2	C:207:ILE:O	0.623
2	C:51:SER:N	C:54:ASN:HB2	0.623
2	C:95:ILE:CG2	C:207:ILE:HD13	0.623
2	C:183:ASP:H	C:202:VAL:CG2	0.623
2	C:247:VAL:HG22	C:281:TRP:CA	0.623
2	C:59:GLN:NE2	C:252:SER:HA	0.623
2	C:201:ARG:HH22	C:296:LEU:HD23	0.623
2	C:60:MET:CA	C:300:LYS:HD2	0.623
2	D:100:VAL:CG1	D:114:CYS:HB3	0.623
2	E:24:ASN:C	E:25:ILE:HD12	0.623
2	F:41:ALA:HB3	F:42:PRO:C	0.623

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:60:VAL:H	A:76:HIS:CD2	0.622
2	A:144:LEU:HD13	D:45:MET:C	0.622
2	A:231:LEU:O	A:231:LEU:HD23	0.622
2	C:53:LYS:HB2	C:189:ASP:O	0.622
2	C:113:LEU:H	C:113:LEU:HD13	0.622
2	D:296:VAL:HB	D:305:ALA:O	0.622
2	A:160:LEU:HB2	A:220:TRP:HD1	0.621
2	A:384:ASN:O	A:387:GLN:HB3	0.621
2	C:59:GLN:HB2	C:174:CYS:HB3	0.621
2	C:208:PHE:CD1	C:209:GLU:N	0.621
2	C:224:VAL:HB	C:227:GLN:CD	0.621
2	D:37:ILE:HG12	D:38:ASP:N	0.621
2	D:101:MET:HB2	D:145:TYR:OH	0.621
2	F:10:GLY:HA3	F:123:THR:CG2	0.621
2	D:34:THR:OG1	F:29:THR:HG21	0.621
2	A:404:ILE:N	F:57:ALA:HB2	0.621
2	C:182:ILE:HD11	C:185:ILE:CG1	0.620
2	C:214:VAL:HG13	C:373:ARG:HD3	0.620
2	C:358:TYR:HB2	C:385:ARG:HH12	0.620
2	D:51:LEU:HD11	D:82:TRP:HB2	0.620
2	A:113:SER:CB	A:114:PRO:HA	0.619
2	A:121:LEU:O	A:121:LEU:HD13	0.619
2	C:51:SER:H	C:54:ASN:CB	0.619

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:74:GLU:HG3	C:249:ALA:CB	0.619
2	C:175:ALA:CB	C:198:LEU:HB2	0.619
2	C:186:LYS:CA	C:205:SER:HB3	0.619
2	C:292:ASN:CB	C:305:LYS:HA	0.619
2	C:293:LYS:HE3	C:294:GLN:N	0.619
2	C:295:ASP:CG	C:300:LYS:HZ1	0.619
2	C:286:SER:N	C:286:SER:O	0.619
2	C:191:VAL:HG12	C:192:PRO:HD2	0.618
2	C:88:LYS:CE	C:226:ALA:HB1	0.618
2	F:13:VAL:HG11	F:17:GLY:HA3	0.618
2	A:156:ILE:HG13	A:220:TRP:CZ2	0.617
2	A:182:TYR:CE2	A:183:SER:HB2	0.617
2	A:283:TRP:CZ3	B:5:THR:HG23	0.617
2	A:285:ILE:O	A:285:ILE:HD13	0.617
2	C:45:LEU:HD13	C:221:MET:CB	0.617
2	C:92:VAL:HG22	C:206:GLY:O	0.617
2	D:20:ASP:OD1	D:26:ALA:HB1	0.617
2	D:232:ILE:HD11	D:241:PHE:CE1	0.617
2	F:3:VAL:HG22	F:27:GLY:C	0.617
2	F:5:LEU:N	F:5:LEU:HD23	0.617
2	A:10:TRP:O	A:13:VAL:HG12	0.616
2	A:216:ALA:HB2	A:254:PRO:HG3	0.616
2	C:172:ILE:HB	C:193:SER:N	0.616

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:245:ILE:HD13	C:375:VAL:CG1	0.616
2	C:271:LYS:CG	C:280:LYS:HG3	0.616
2	A:89:GLN:HG2	A:91:ASP:O	0.615
2	A:152:THR:HG21	A:238:SER:CB	0.615
2	A:160:LEU:CD2	A:221:LEU:HD21	0.615
2	C:100:LYS:C	C:103:ILE:HG23	0.615
2	C:184:VAL:HG21	C:186:LYS:HG3	0.615
2	C:187:GLN:CD	C:224:VAL:HG12	0.615
2	C:223:ASP:CG	C:293:LYS:HE2	0.615
2	C:245:ILE:N	C:287:VAL:H	0.615
2	A:416:PRO:CB	D:247:ASP:HB3	0.614
2	C:36:VAL:HG12	C:39:ALA:CB	0.614
2	C:107:VAL:CG2	C:119:LEU:HD11	0.614
2	C:178:PHE:CE1	C:181:LYS:HD2	0.614
2	C:181:LYS:CE	C:208:PHE:HA	0.614
2	C:247:VAL:O	C:280:LYS:HB3	0.614
2	D:51:LEU:HB3	D:336:LEU:CB	0.614
2	D:77:GLY:O	D:95:LEU:HD23	0.614
2	D:123:ILE:HG23	D:135:VAL:O	0.614
2	A:275:THR:OG1	B:8:SER:HA	0.613
2	C:50:GLU:HB3	C:181:LYS:HE3	0.613
2	C:106:ILE:HG21	C:162:CYS:HB3	0.613
2	C:177:TYR:HA	C:296:LEU:CB	0.613

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:181:LYS:C	C:210:THR:HA	0.613
2	D:69:LEU:C	D:69:LEU:HD13	0.613
2	D:123:ILE:HD12	D:171:ILE:HD11	0.613
2	D:225:HIS:HE2	D:251:ARG:HG2	0.613
2	D:293:ASN:CB	D:309:ALA:HB2	0.613
2	A:95:LEU:HB2	A:96:PRO:CD	0.612
2	C:88:LYS:HB3	D:143:THR:HB	0.612
2	C:210:THR:OG1	C:221:MET:HB2	0.612
2	D:37:ILE:HG21	D:267:ASP:O	0.612
2	D:118:ASP:CG	D:120:ILE:HG22	0.612
2	F:30:PHE:CG	F:78:ASN:HB2	0.612
2	F:48:TRP:NE1	F:51:ASP:HB3	0.612
2	C:91:LYS:HZ1	C:190:TYR:HD1	0.612
2	A:108:ARG:HA	A:108:ARG:NE	0.611
2	A:343:ILE:HG12	A:347:VAL:CG1	0.611
2	B:26:LEU:HD23	B:31:GLY:HA3	0.611
2	C:95:ILE:HG12	C:207:ILE:CD1	0.611
2	C:95:ILE:HG23	C:96:LYS:N	0.611
2	C:178:PHE:HE1	C:207:ILE:HD11	0.611
2	C:245:ILE:HG23	C:282:LEU:CG	0.611
2	C:321:PRO:HG3	C:339:TYR:CE1	0.611
2	A:225:GLY:CA	A:300:ILE:HD12	0.610
2	A:237:LEU:HB2	C:34:LYS:HD3	0.610

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:45:LEU:HG	C:282:LEU:HD13	0.610
2	C:58:LYS:HE2	C:174:CYS:CB	0.610
2	C:82:SER:HB2	C:88:LYS:CB	0.610
2	C:246:PHE:O	C:247:VAL:HG13	0.610
2	C:47:GLY:N	C:282:LEU:C	0.610
2	D:62:HIS:C	D:70:LEU:HD12	0.610
2	A:184:THR:HG23	A:185:ALA:N	0.609
2	A:288:LEU:C	A:288:LEU:HD13	0.609
2	C:102:ALA:HB3	C:198:LEU:CB	0.609
2	C:176:GLN:HA	C:179:LEU:HB3	0.609
2	C:177:TYR:CE2	C:251:SER:HB3	0.609
2	C:211:LYS:HB2	C:219:PHE:O	0.609
2	C:288:ILE:HG12	C:360:TYR:H	0.609
2	C:289:LEU:HD12	C:362:HIS:N	0.609
2	D:233:CYS:O	D:241:PHE:HB2	0.609
2	F:36:ASN:HB2	F:50:SER:O	0.609
2	F:92:THR:HG23	F:127:VAL:HB	0.609
2	A:361:LEU:O	A:361:LEU:HD13	0.608
2	C:71:GLU:HG2	C:75:GLU:HA	0.608
2	C:103:ILE:HD11	C:131:ILE:CG2	0.608
2	C:141:ASP:O	C:143:PRO:HD3	0.608
2	C:281:TRP:CZ2	C:375:VAL:HG23	0.608
2	C:300:LYS:CB	C:300:LYS:HZ3	0.608

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:178:LEU:O	A:178:LEU:HD23	0.607
2	C:59:GLN:NE2	C:191:VAL:HG12	0.607
2	C:178:PHE:O	C:198:LEU:HA	0.607
2	C:290:PHE:CZ	C:362:HIS:HB3	0.607
2	C:301:VAL:CG2	C:368:ASP:HB3	0.607
2	D:4:LEU:HD23	E:9:ILE:HD12	0.607
2	D:44:GLN:O	D:45:MET:HB2	0.607
2	A:418:SER:OG	D:265:SER:HB3	0.607
2	C:107:VAL:HB	C:199:ARG:HH12	0.606
2	C:208:PHE:CD2	C:223:ASP:CB	0.606
2	C:188:ALA:O	C:225:GLY:HA2	0.606
2	F:80:LEU:HD23	F:81:TYR:N	0.606
2	A:213:CYS:SG	A:214:VAL:HG23	0.605
2	A:400:GLU:HA	A:400:GLU:OE2	0.605
2	A:404:ILE:HG22	F:55:SER:HB2	0.605
2	C:45:LEU:HG	C:282:LEU:CB	0.605
2	C:46:LEU:HB2	C:283:ARG:C	0.605
2	C:56:ILE:CB	C:190:TYR:HA	0.605
2	C:290:PHE:CE1	C:364:THR:HB	0.605
2	C:293:LYS:HE3	C:294:GLN:CA	0.605
2	D:232:ILE:HD11	D:241:PHE:HD1	0.605
2	A:211:GLN:CG	A:286:ILE:HD13	0.604
2	A:265:LYS:HD2	A:274:TRP:CD2	0.604

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:22:ALA:O	C:23:ASN:HB2	0.604
2	C:44:LEU:HD12	C:238:PHE:HB2	0.604
2	C:111:SER:HA	C:116:PRO:CB	0.604
2	C:190:TYR:O	C:191:VAL:HG23	0.604
2	C:296:LEU:HD13	C:297:LEU:H	0.604
2	C:288:ILE:O	C:359:CYS:HB3	0.604
2	D:18:ILE:HG23	D:22:ARG:CZ	0.604
2	D:115:GLY:HA3	D:146:LEU:HD13	0.604
2	D:292:PHE:HE1	D:315:VAL:HG12	0.604
2	F:37:TRP:CD1	F:49:VAL:HB	0.604
2	F:46:LEU:HD11	F:111:VAL:CB	0.604
2	A:82:THR:HB	A:88:LEU:CD2	0.603
2	A:142:ILE:CD1	A:143:LEU:HD23	0.603
2	A:255:LEU:O	A:258:VAL:HG12	0.603
2	A:301:PHE:HE1	A:333:LEU:HG	0.603
2	A:354:GLY:O	A:357:ARG:HD2	0.603
2	C:46:LEU:CD2	C:280:LYS:HA	0.603
2	C:54:ASN:CB	C:207:ILE:HG23	0.603
2	D:80:ILE:HD11	D:82:TRP:CE3	0.603
2	A:414:LYS:O	D:270:ILE:HD13	0.603
2	D:280:LYS:HE3	E:54:VAL:HG13	0.603
2	F:87:LEU:HD22	F:88:LYS:H	0.603
2	C:81:ARG:HE	C:87:GLU:H	0.603

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:53:LYS:HD2	C:75:GLU:CB	0.602
2	C:247:VAL:HG12	C:290:PHE:HB3	0.602
2	C:249:ALA:N	C:283:ARG:HG3	0.602
2	A:76:HIS:CG	A:77:VAL:H	0.601
2	C:89:ALA:HB1	D:140:ALA:HB1	0.601
2	C:208:PHE:CD2	C:223:ASP:HB2	0.601
2	C:293:LYS:CA	C:295:ASP:HB3	0.601
2	A:119:LEU:O	A:122:TYR:HB3	0.600
2	A:146:PHE:CD2	D:39:PRO:HG3	0.600
2	A:377:ILE:HG13	A:381:PHE:CE2	0.600
2	C:58:LYS:HB2	C:178:PHE:CD1	0.600
2	C:92:VAL:HG22	C:205:SER:O	0.600
2	C:127:ARG:NH2	C:153:LEU:HD12	0.600
2	C:154:TRP:HA	C:197:LEU:HD13	0.600
2	C:233:LYS:O	C:236:GLN:HG2	0.600
2	C:245:ILE:CD1	C:375:VAL:HA	0.600
2	C:248:VAL:C	C:248:VAL:CB	0.600
2	C:266:LEU:C	C:266:LEU:HD13	0.600
2	D:108:SER:HB3	E:65:LYS:HD3	0.600
2	D:111:TYR:N	D:126:LEU:HD11	0.600
2	A:60:VAL:HB	A:76:HIS:CD2	0.599
2	A:170:SER:O	A:173:ILE:HG22	0.599
2	A:182:TYR:HB2	B:18:ALA:HB2	0.599

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:46:LEU:CA	C:282:LEU:C	0.599
2	C:57:VAL:CG1	C:189:ASP:H	0.599
2	C:182:ILE:HB	C:201:ARG:HB3	0.599
2	E:1:MET:N	E:15:LEU:HD22	0.599
2	E:20:LYS:HD2	E:20:LYS:O	0.599
2	C:60:MET:H	C:252:SER:H	0.599
2	C:60:MET:H	C:252:SER:N	0.599
2	A:124:ILE:HG22	A:125:TYR:N	0.598
2	C:44:LEU:HD13	C:244:ILE:HG21	0.598
2	C:45:LEU:HA	C:286:SER:CB	0.598
2	C:50:GLU:HB2	C:208:PHE:CG	0.598
2	C:50:GLU:HG3	C:181:LYS:CB	0.598
2	C:82:SER:O	C:91:LYS:HB2	0.598
2	C:102:ALA:HB3	C:198:LEU:HD22	0.598
2	C:113:LEU:O	C:116:PRO:HG3	0.598
2	C:154:TRP:CG	C:179:LEU:HD21	0.598
2	C:172:ILE:HG13	C:193:SER:O	0.598
2	C:244:ILE:C	C:287:VAL:HB	0.598
2	D:106:ALA:HB1	D:107:PRO:HD2	0.598
2	D:186:ASP:O	D:203:ALA:HB1	0.598
2	F:31:SER:HA	F:73:ARG:HH21	0.598
2	A:267:LEU:HD12	A:268:TYR:CD1	0.597
2	A:283:TRP:CH2	B:1:HIS:HA	0.597

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:43:LEU:HD13	C:245:ILE:HG21	0.597
2	C:131:ILE:HD11	C:150:ALA:HB2	0.597
2	C:186:LYS:HD3	C:186:LYS:O	0.597
2	C:265:ARG:CB	C:268:ALA:HB3	0.597
2	D:117:LEU:HB2	D:145:TYR:CD1	0.597
2	F:13:VAL:CG1	F:17:GLY:HA3	0.597
2	C:53:LYS:HE3	C:75:GLU:OE1	0.596
2	C:84:SER:CB	C:94:ASP:HB3	0.596
2	C:175:ALA:HB3	C:194:ASP:HB3	0.596
2	C:50:GLU:OE1	C:210:THR:HG22	0.596
2	C:47:GLY:N	C:282:LEU:CA	0.596
2	C:346:LEU:HD21	C:361:PRO:CG	0.596
2	D:278:PHE:CE2	D:285:LEU:HD12	0.596
2	D:283:ARG:HG2	D:283:ARG:O	0.596
2	F:7:GLU:OE1	F:122:GLY:HA2	0.596
2	A:344:PHE:CD2	A:364:GLU:HG2	0.595
2	C:82:SER:HB2	C:88:LYS:HA	0.595
2	C:100:LYS:HA	C:103:ILE:HG21	0.595
2	C:217:VAL:HG13	C:219:PHE:CE1	0.595
2	C:281:TRP:CH2	C:290:PHE:CE2	0.595
2	D:126:LEU:H	D:133:VAL:HG11	0.595
2	C:72:GLY:H	C:76:ASP:H	0.595
2	A:265:LYS:HD2	A:274:TRP:CE3	0.594

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:276:ARG:C	A:276:ARG:HD2	0.594
2	A:334:ILE:HB	A:339:THR:HG22	0.594
2	A:415:CYS:HB2	D:35:ASN:O	0.594
2	A:415:CYS:HB3	A:416:PRO:CD	0.594
2	C:3:CYS:SG	C:35:GLN:HB3	0.594
2	C:62:ILE:CG2	C:64:HIS:HB3	0.594
2	C:223:ASP:O	C:224:VAL:HG13	0.594
2	C:268:ALA:CB	C:306:SER:HB2	0.594
2	D:69:LEU:HD11	D:81:ILE:HG22	0.594
2	D:134:ARG:HA	D:134:ARG:NE	0.594
2	F:38:VAL:HG13	F:47:GLU:O	0.594
2	A:3:GLN:HG3	A:11:GLU:OE2	0.593
2	A:214:VAL:HG13	A:218:TYR:CE1	0.593
2	A:361:LEU:HD11	A:365:LEU:HD11	0.593
2	C:107:VAL:CG1	C:128:VAL:HG13	0.593
2	C:175:ALA:H	C:198:LEU:CD1	0.593
2	C:251:SER:HA	C:300:LYS:HD2	0.593
2	D:292:PHE:CD1	D:311:HIS:HB2	0.593
2	A:249:ILE:HG23	A:253:VAL:HG21	0.592
2	A:334:ILE:O	A:334:ILE:HG13	0.592
2	A:377:ILE:HG23	A:381:PHE:HE2	0.592
2	A:392:LYS:HB2	A:405:GLN:CD	0.592
2	C:48:ALA:HA	C:297:LEU:N	0.592

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:99:LEU:CD2	C:199:ARG:HA	0.592
2	C:271:LYS:HB2	C:280:LYS:CD	0.592
2	D:54:HIS:HB2	D:334:SER:OG	0.592
2	F:19:LEU:O	F:84:MET:HB2	0.592
2	C:45:LEU:HB3	C:46:LEU:O	0.591
2	C:96:LYS:HD3	C:204:THR:CG2	0.591
2	C:44:LEU:O	C:286:SER:HB3	0.591
2	C:177:TYR:OH	C:295:ASP:HA	0.591
2	C:315:PHE:HE1	C:336:ARG:HG2	0.591
2	D:16:ASN:O	D:20:ASP:HB2	0.591
2	D:287:ALA:O	D:294:CYS:HB2	0.591
2	F:21:LEU:HB2	F:37:TRP:CH2	0.591
2	F:21:LEU:HD22	F:95:TYR:HD2	0.591
2	A:211:GLN:CD	A:286:ILE:HD13	0.590
2	A:265:LYS:HD2	A:274:TRP:HB2	0.590
2	C:50:GLU:CG	C:208:PHE:CD1	0.590
2	C:107:VAL:HB	C:199:ARG:NH2	0.590
2	C:187:GLN:HG3	C:222:PHE:HE1	0.590
2	C:189:ASP:CA	C:294:GLN:HG3	0.590
2	C:338:LYS:HE3	C:363:PHE:HB2	0.590
2	D:78:LYS:HG2	D:80:ILE:HG22	0.590
2	D:152:LEU:HD22	D:196:THR:HG21	0.590
2	D:226:GLU:HB2	D:247:ASP:OD2	0.590

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	E:50:LEU:HD13	E:55:PRO:CD	0.590
2	E:50:LEU:HD13	E:55:PRO:HD2	0.590
2	A:27:LEU:HA	A:41:ARG:HH11	0.589
2	B:20:LYS:HD3	B:20:LYS:O	0.589
2	C:46:LEU:HG	C:282:LEU:C	0.589
2	C:67:GLY:CA	C:257:ILE:HD12	0.589
2	C:55:THR:CA	C:95:ILE:HD13	0.589
2	C:105:THR:HB	C:194:ASP:O	0.589
2	C:209:GLU:CD	C:222:PHE:HA	0.589
2	C:280:LYS:CB	C:284:ASP:HA	0.589
2	C:291:LEU:HD13	C:363:PHE:HD1	0.589
2	D:23:LYS:HD3	D:28:ALA:HB3	0.589
2	D:120:ILE:HG12	D:138:GLU:OE2	0.589
2	E:30:VAL:HG13	E:31:SER:N	0.589
2	F:46:LEU:C	F:46:LEU:HD12	0.589
2	F:94:VAL:HG23	F:123:THR:O	0.589
2	A:63:PRO:CG	A:66:LEU:HD12	0.588
2	A:236:VAL:HB	A:240:GLN:N	0.588
2	A:297:ASN:O	A:300:ILE:HG12	0.588
2	C:44:LEU:H	C:241:VAL:HG11	0.588
2	D:153:ASP:OD1	D:156:GLN:HB3	0.588
2	F:19:LEU:HD12	F:21:LEU:HD11	0.588
2	A:361:LEU:CD1	A:365:LEU:HG	0.587

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:54:ASN:HB3	C:207:ILE:CB	0.587
2	C:89:ALA:O	C:92:VAL:HB	0.587
2	C:184:VAL:CA	C:209:GLU:HG2	0.587
2	C:224:VAL:HG21	C:227:GLN:HE22	0.587
2	C:280:LYS:C	C:280:LYS:CB	0.587
2	C:285:THR:O	C:285:THR:HG23	0.587
2	C:46:LEU:CA	C:293:LYS:HD2	0.587
2	D:37:ILE:HG23	D:268:ASN:O	0.587
2	D:80:ILE:HD12	D:89:LYS:CD	0.587
2	D:183:HIS:NE2	D:205:ASP:HB3	0.587
2	F:13:VAL:HG12	F:14:GLN:N	0.587
2	C:247:VAL:N	C:281:TRP:N	0.587
2	A:299:LEU:O	A:299:LEU:HD22	0.586
2	C:46:LEU:HD22	C:285:THR:N	0.586
2	C:88:LYS:HD3	D:144:GLY:N	0.586
2	D:23:LYS:HB3	D:27:ASP:O	0.586
2	D:83:ASP:OD2	D:86:THR:HG23	0.586
2	D:128:THR:HG21	D:132:ASN:O	0.586
2	F:14:GLN:HB2	F:15:PRO:CD	0.586
2	C:208:PHE:HD1	C:209:GLU:N	0.586
2	A:222:LEU:O	A:222:LEU:HD22	0.585
2	A:255:LEU:O	A:255:LEU:HD23	0.585
2	A:417:THR:HG22	D:34:THR:OG1	0.585

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:274:ASP:OD2	C:277:TRP:HB3	0.585
2	C:283:ARG:HB3	C:293:LYS:HD3	0.585
2	D:221:THR:HG22	E:22:GLU:OE2	0.585
2	A:9:LEU:C	A:9:LEU:HD13	0.584
2	A:153:ARG:CA	A:156:ILE:HG22	0.584
2	A:235:SER:OG	A:239:GLU:HG3	0.584
2	A:336:LEU:HG	A:375:VAL:HG21	0.584
2	C:51:SER:CB	C:187:GLN:C	0.584
2	C:53:LYS:CG	C:91:LYS:HE3	0.584
2	C:172:ILE:HD13	C:192:PRO:HB2	0.584
2	C:246:PHE:C	C:281:TRP:CA	0.584
2	A:416:PRO:C	D:34:THR:HG21	0.584
2	D:123:ILE:HG12	D:124:TYR:N	0.584
2	C:57:VAL:CB	C:189:ASP:H	0.583
2	C:88:LYS:HE2	D:144:GLY:H	0.583
2	C:169:TYR:O	C:171:LEU:HG	0.583
2	C:356:ARG:HH11	C:357:HIS:HB2	0.583
2	C:290:PHE:HD1	C:364:THR:HG22	0.583
2	C:51:SER:N	C:54:ASN:HD22	0.583
2	A:69:ALA:O	A:72:VAL:HB	0.582
2	A:136:LEU:HB2	A:165:ILE:HD11	0.582
2	C:46:LEU:CB	C:283:ARG:N	0.582
2	C:46:LEU:CG	C:46:LEU:HB3	0.582

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:46:LEU:CG	C:283:ARG:HA	0.582
2	C:52:GLY:HA2	C:226:ALA:N	0.582
2	C:56:ILE:HB	C:191:VAL:H	0.582
2	C:189:ASP:CB	C:294:GLN:HG2	0.582
2	C:176:GLN:O	C:299:GLU:HG3	0.582
2	D:4:LEU:HG	E:9:ILE:HD11	0.582
2	A:141:ALA:HB2	D:44:GLN:H	0.581
2	A:146:PHE:CA	D:291:ASP:HB3	0.581
2	C:296:LEU:HD12	C:299:GLU:N	0.581
2	C:340:PHE:O	C:344:GLU:HG3	0.581
2	D:21:ALA:HB1	E:27:ARG:CZ	0.581
2	C:226:ALA:O	D:117:LEU:HD11	0.581
2	F:13:VAL:H	F:126:THR:CG2	0.581
2	A:25:ARG:HG2	A:26:SER:N	0.580
2	A:242:ILE:O	A:242:ILE:HG23	0.580
2	A:332:THR:OG1	A:378:LEU:HD11	0.580
2	C:46:LEU:HD22	C:284:ASP:CA	0.580
2	C:51:SER:CA	C:54:ASN:CB	0.580
2	C:151:LYS:HD2	C:151:LYS:O	0.580
2	C:186:LYS:HZ3	C:187:GLN:HG3	0.580
2	C:248:VAL:CG1	C:280:LYS:HD2	0.580
2	D:83:ASP:CG	D:86:THR:HG23	0.580
2	A:120:PHE:CZ	A:124:ILE:HD12	0.579

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:34:LYS:HG2	D:55:LEU:HB2	0.579
2	C:46:LEU:CD1	C:286:SER:CA	0.579
2	C:56:ILE:HG13	C:191:VAL:C	0.579
2	D:206:ALA:HB1	D:225:HIS:HB2	0.579
2	F:52:ILE:CD1	F:59:ILE:HB	0.579
2	C:46:LEU:CA	C:293:LYS:HG3	0.578
2	C:57:VAL:CG2	C:189:ASP:H	0.578
2	C:147:TYR:CE2	C:202:VAL:HB	0.578
2	C:98:ASN:O	C:198:LEU:HD22	0.578
2	C:99:LEU:O	C:198:LEU:HD22	0.578
2	C:208:PHE:CE1	C:221:MET:HB3	0.578
2	C:245:ILE:HG12	C:281:TRP:CZ3	0.578
2	C:252:SER:CB	C:258:ARG:HB3	0.578
2	C:246:PHE:CB	C:289:LEU:HA	0.578
2	C:326:PRO:HB2	C:330:GLU:OE2	0.578
2	C:332:PRO:O	C:333:ARG:HG3	0.578
2	F:124:GLN:HB3	F:127:VAL:O	0.578
2	A:283:TRP:CH2	B:5:THR:HG23	0.577
2	C:50:GLU:C	C:54:ASN:HD22	0.577
2	C:56:ILE:CB	C:191:VAL:H	0.577
2	C:88:LYS:HE3	C:226:ALA:C	0.577
2	C:144:PRO:HA	C:203:LEU:HD12	0.577
2	C:189:ASP:HB2	C:294:GLN:CG	0.577

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:124:TYR:CE1	D:133:VAL:HG12	0.577
2	D:199:PHE:CD1	D:211:TRP:HB3	0.577
2	D:254:ASP:HB2	D:261:LEU:CD2	0.577
2	F:46:LEU:HD11	F:111:VAL:CG2	0.577
2	A:163:SER:O	A:166:LEU:HB3	0.576
2	A:412:PRO:HB3	F:104:PHE:O	0.576
2	C:59:GLN:HG2	C:173:ASP:HB3	0.576
2	C:82:SER:C	C:91:LYS:HB2	0.576
2	C:231:ARG:NH2	C:235:ILE:HG13	0.576
2	F:92:THR:HG23	F:127:VAL:CB	0.576
2	A:108:ARG:HA	A:108:ARG:HE	0.575
2	A:197:TYR:HA	A:200:SER:HB2	0.575
2	A:382:VAL:O	A:382:VAL:HG23	0.575
2	A:414:LYS:HG2	F:31:SER:OG	0.575
2	C:95:ILE:CG1	C:178:PHE:CE1	0.575
2	C:96:LYS:HG3	C:97:ASN:N	0.575
2	C:175:ALA:HB3	C:194:ASP:CB	0.575
2	C:247:VAL:HG11	C:292:ASN:ND2	0.575
2	C:305:LYS:CE	C:308:ILE:HD12	0.575
2	D:124:TYR:CD1	D:133:VAL:HG12	0.575
2	D:173:THR:HG23	D:174:GLY:N	0.575
2	E:8:SER:O	E:11:GLN:HB3	0.575
2	C:45:LEU:HD21	C:221:MET:CG	0.574

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:55:THR:HG22	C:91:LYS:CA	0.574
2	C:56:ILE:HB	C:190:TYR:C	0.574
2	C:60:MET:CA	C:173:ASP:HB3	0.574
2	C:84:SER:HB2	C:94:ASP:HB3	0.574
2	C:95:ILE:HG21	C:207:ILE:HG12	0.574
2	C:171:LEU:HB3	C:195:GLN:CG	0.574
2	C:47:GLY:N	C:293:LYS:CB	0.574
2	C:59:GLN:O	C:300:LYS:HG3	0.574
2	E:54:VAL:CG1	E:55:PRO:HD2	0.574
2	A:138:ILE:HG23	A:139:ALA:N	0.573
2	A:378:LEU:O	A:382:VAL:HG22	0.573
2	C:44:LEU:HG	C:222:PHE:CE2	0.573
2	C:74:GLU:HB2	C:189:ASP:OD2	0.573
2	C:173:ASP:HB2	C:252:SER:C	0.573
2	C:181:LYS:O	C:201:ARG:HD3	0.573
2	C:388:LEU:O	C:388:LEU:HD13	0.573
2	D:18:ILE:HD11	E:23:ALA:HA	0.573
2	D:117:LEU:HD22	D:145:TYR:CD1	0.573
2	D:123:ILE:HD12	D:171:ILE:HD12	0.573
2	A:68:TRP:CH2	B:20:LYS:HE2	0.572
2	A:100:LEU:O	A:100:LEU:HD13	0.572
2	A:312:LEU:HD12	A:326:LEU:CD2	0.572
2	A:402:LEU:N	A:402:LEU:HD22	0.572

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:185:ILE:HD13	C:204:THR:HA	0.572
2	C:187:GLN:O	C:223:ASP:HB3	0.572
2	C:282:LEU:HD21	C:375:VAL:HG21	0.572
2	C:246:PHE:HD1	C:289:LEU:HA	0.572
2	C:290:PHE:HA	C:362:HIS:O	0.572
2	A:76:HIS:CG	A:77:VAL:N	0.571
2	A:54:PRO:O	A:81:CYS:HB2	0.571
2	C:45:LEU:CD2	C:282:LEU:HB3	0.571
2	C:46:LEU:CD2	C:280:LYS:CA	0.571
2	C:72:GLY:HA3	C:76:ASP:CB	0.571
2	C:92:VAL:HG12	C:204:THR:HG22	0.571
2	C:154:TRP:H	C:200:CYS:CB	0.571
2	C:288:ILE:HD13	C:289:LEU:H	0.571
2	D:247:ASP:OD1	F:103:PRO:HB3	0.571
2	A:136:LEU:HB3	A:161:PHE:CD1	0.570
2	A:200:SER:O	A:201:LEU:HD22	0.570
2	C:16:GLU:O	C:19:GLN:HB3	0.570
2	D:279:SER:OG	D:284:LEU:HD13	0.570
2	A:97:TRP:O	A:98:ARG:HB3	0.569
2	C:202:VAL:HG23	C:203:LEU:N	0.569
2	C:232:ARG:HA	C:235:ILE:HG22	0.569
2	C:246:PHE:CA	C:280:LYS:O	0.569
2	C:251:SER:HA	C:300:LYS:CD	0.569

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:221:THR:HG22	E:22:GLU:CD	0.569
2	F:48:TRP:CH2	F:108:CYS:HB3	0.569
2	C:249:ALA:HA	C:249:ALA:N	0.569
2	C:187:GLN:HB2	C:222:PHE:O	0.568
2	C:181:LYS:H	C:201:ARG:CZ	0.568
2	C:362:HIS:CD2	C:363:PHE:H	0.568
2	D:37:ILE:HG21	D:267:ASP:C	0.568
2	D:177:THR:HG23	D:178:THR:N	0.568
2	C:208:PHE:HD1	C:210:THR:N	0.568
2	C:179:LEU:N	C:201:ARG:NH1	0.568
2	A:361:LEU:C	A:361:LEU:HD13	0.567
2	C:59:GLN:O	C:60:MET:HB2	0.567
2	C:143:PRO:CB	C:144:PRO:HD2	0.567
2	C:182:ILE:CG2	C:202:VAL:HG13	0.567
2	C:207:ILE:CD1	C:208:PHE:H	0.567
2	C:50:GLU:CB	C:208:PHE:HA	0.567
2	C:383:ILE:HB	C:386:MET:SD	0.567
2	D:273:ILE:HG13	D:288:GLY:O	0.567
2	A:17:ARG:HB2	A:20:ARG:NH2	0.566
2	A:176:ALA:HB1	A:180:TRP:HZ3	0.566
2	A:340:HIS:HB3	A:367:PHE:CE2	0.566
2	A:383:ASN:O	A:387:GLN:HB2	0.566
2	C:61:ARG:HG2	C:62:ILE:N	0.566

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:159:VAL:HG23	C:160:ARG:N	0.566
2	C:178:PHE:CE1	C:181:LYS:HE2	0.566
2	C:248:VAL:HG12	C:280:LYS:CD	0.566
2	C:288:ILE:O	C:289:LEU:HB2	0.566
2	F:19:LEU:HD13	F:20:ARG:N	0.566
2	F:59:ILE:HG13	F:71:ILE:HG23	0.566
2	A:9:LEU:O	A:9:LEU:HD13	0.565
2	A:342:VAL:HG23	A:343:ILE:N	0.565
2	C:59:GLN:CA	C:174:CYS:HA	0.565
2	C:185:ILE:HB	C:203:LEU:H	0.565
2	C:172:ILE:H	C:194:ASP:HA	0.565
2	C:387:HIS:O	C:390:GLN:HB2	0.565
2	D:123:ILE:HG21	D:136:SER:HB3	0.565
2	F:39:ARG:HA	F:94:VAL:O	0.565
2	A:236:VAL:CB	A:240:GLN:H	0.565
2	C:293:LYS:CG	C:294:GLN:N	0.565
2	C:185:ILE:O	C:207:ILE:HA	0.564
2	C:208:PHE:CE1	C:222:PHE:N	0.564
2	C:219:PHE:HB2	C:221:MET:HE1	0.564
2	C:237:CYS:HB2	D:99:TRP:CZ2	0.564
2	A:414:LYS:O	D:270:ILE:HG21	0.564
2	C:129:ASP:O	C:130:TYR:HB2	0.563
2	C:196:ASP:O	C:199:ARG:HG2	0.563

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:206:ALA:HB2	D:227:SER:O	0.563
2	D:242:ALA:HB2	D:252:LEU:CB	0.563
2	F:19:LEU:HD12	F:21:LEU:CD1	0.563
2	A:136:LEU:HD22	A:376:ALA:HB2	0.562
2	C:45:LEU:CB	C:282:LEU:HB3	0.562
2	C:79:ALA:HB3	C:81:ARG:NH1	0.562
2	C:185:ILE:CG2	C:205:SER:HB2	0.562
2	D:40:VAL:HG23	D:268:ASN:OD1	0.562
2	D:69:LEU:HD21	D:81:ILE:CB	0.562
2	D:250:CYS:HB3	D:273:ILE:HD13	0.562
2	E:71:LEU:OXT	E:71:LEU:HD23	0.562
2	A:178:LEU:CD2	B:14:LEU:HD23	0.561
2	C:21:GLU:O	C:24:LYS:HB3	0.561
2	C:171:LEU:HB2	C:194:ASP:CG	0.561
2	C:208:PHE:CD2	C:223:ASP:N	0.561
2	C:187:GLN:OE1	C:224:VAL:HA	0.561
2	C:232:ARG:CA	C:235:ILE:HG22	0.561
2	D:18:ILE:O	D:19:ARG:HB2	0.561
2	A:141:ALA:O	D:44:GLN:HB2	0.561
2	D:71:VAL:HG13	D:79:LEU:CD2	0.561
2	D:322:ASP:HB3	E:54:VAL:O	0.561
2	A:118:LEU:HG	B:6:PHE:CZ	0.560
2	A:200:SER:C	A:201:LEU:HD13	0.560

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:45:LEU:CD1	C:221:MET:HG3	0.560
2	C:137:VAL:HG13	C:140:PHE:HB2	0.560
2	C:127:ARG:HE	C:153:LEU:HB2	0.560
2	C:159:VAL:HG11	C:199:ARG:NH2	0.560
2	C:182:ILE:HD11	C:185:ILE:HD12	0.560
2	C:209:GLU:HG3	C:221:MET:O	0.560
2	C:210:THR:HG23	C:221:MET:HB2	0.560
2	C:290:PHE:CZ	C:362:HIS:CD2	0.560
2	D:63:TRP:CE3	D:70:LEU:HD13	0.560
2	D:117:LEU:HA	D:145:TYR:CD1	0.560
2	D:125:ASN:O	D:126:LEU:HD13	0.560
2	D:155:ASN:HA	D:171:ILE:HG22	0.560
2	D:156:GLN:HG2	D:157:ILE:N	0.560
2	D:273:ILE:HD11	D:287:ALA:CB	0.560
2	E:12:ALA:HA	E:15:LEU:HG	0.560
2	C:51:SER:H	C:54:ASN:ND2	0.560
2	A:180:TRP:HA	A:184:THR:HG22	0.559
2	A:243:PHE:HA	A:246:TYR:CE1	0.559
2	A:370:PHE:HE1	A:373:LEU:HD13	0.559
2	C:56:ILE:HG22	C:91:LYS:CD	0.559
2	C:99:LEU:HG	C:201:ARG:O	0.559
2	C:182:ILE:CB	C:202:VAL:N	0.559
2	D:243:THR:HG23	D:251:ARG:NE	0.559

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	E:59:ASN:HB2	E:60:PRO:CD	0.559
2	A:17:ARG:HB2	A:20:ARG:HH21	0.558
2	A:239:GLU:O	A:243:PHE:HB2	0.558
2	C:82:SER:HB3	C:226:ALA:CB	0.558
2	C:127:ARG:HG3	C:149:HIS:O	0.558
2	C:127:ARG:HH21	C:153:LEU:CD1	0.558
2	C:172:ILE:CG2	C:173:ASP:H	0.558
2	C:341:ILE:HD12	C:344:GLU:OE2	0.558
2	D:225:HIS:CD2	D:251:ARG:HD3	0.558
2	D:323:ASP:HA	E:54:VAL:CG1	0.558
2	A:407:ASP:H	A:413:LEU:CG	0.558
2	C:49:GLY:HA3	C:295:ASP:O	0.557
2	C:171:LEU:HD23	C:195:GLN:CD	0.557
2	C:171:LEU:HD23	C:195:GLN:OE1	0.557
2	C:247:VAL:HA	C:290:PHE:O	0.557
2	D:81:ILE:CD1	D:91:HIS:HB3	0.557
2	F:30:PHE:CB	F:78:ASN:HB3	0.557
2	A:39:CYS:HB3	A:87:TRP:CE2	0.556
2	C:3:CYS:HB2	C:35:GLN:CB	0.556
2	C:178:PHE:CD1	C:201:ARG:CD	0.556
2	C:283:ARG:HB3	C:293:LYS:C	0.556
2	D:82:TRP:HZ3	D:89:LYS:HB2	0.556
2	D:252:LEU:CD2	D:261:LEU:HD12	0.556

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	E:6:THR:HG23	E:7:ALA:H	0.556
2	C:23:ASN:HD21	D:89:LYS:H	0.556
2	A:418:SER:C	D:263:THR:HG23	0.555
2	C:178:PHE:CA	C:201:ARG:CZ	0.555
2	C:188:ALA:C	C:294:GLN:HG3	0.555
2	C:172:ILE:O	C:194:ASP:HB2	0.555
2	C:272:LEU:O	C:275:SER:HB3	0.555
2	C:281:TRP:C	C:283:ARG:N	0.555
2	C:288:ILE:HG12	C:360:TYR:HB2	0.555
2	D:111:TYR:CD1	D:151:PHE:CE2	0.555
2	D:111:TYR:HA	D:124:TYR:O	0.555
2	F:70:THR:O	F:82:LEU:HD12	0.555
2	A:64:TRP:CD1	A:65:TYR:H	0.554
2	A:119:LEU:HD13	A:123:ILE:HG13	0.554
2	A:136:LEU:HD21	A:372:GLY:O	0.554
2	A:265:LYS:HD2	A:274:TRP:CG	0.554
2	D:54:HIS:HB2	D:334:SER:CB	0.554
2	F:37:TRP:CD2	F:95:TYR:CE1	0.554
2	F:37:TRP:CE3	F:95:TYR:CZ	0.554
2	A:167:ARG:HA	A:213:CYS:SG	0.553
2	A:211:GLN:O	A:212:TYR:HB3	0.553
2	A:311:LYS:HE3	C:385:ARG:CD	0.553
2	C:3:CYS:HA	C:36:VAL:H	0.553

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:58:LYS:HB3	C:95:ILE:HD13	0.553
2	C:59:GLN:CD	C:252:SER:HA	0.553
2	C:60:MET:HB3	C:173:ASP:HB3	0.553
2	C:103:ILE:CG1	C:131:ILE:HD13	0.553
2	C:54:ASN:CB	C:207:ILE:HG13	0.553
2	C:248:VAL:HB	C:306:SER:CB	0.553
2	C:47:GLY:H	C:293:LYS:CB	0.553
2	D:80:ILE:HD11	D:82:TRP:HE3	0.553
2	D:180:PHE:CD1	D:211:TRP:CE3	0.553
2	D:199:PHE:CE1	D:201:SER:HB3	0.553
2	F:37:TRP:CD2	F:95:TYR:CD1	0.553
2	A:147:ARG:CG	A:148:HIS:H	0.552
2	A:182:TYR:HB2	B:18:ALA:HB3	0.552
2	A:393:SER:O	A:396:ARG:HG2	0.552
2	C:45:LEU:HA	C:286:SER:HA	0.552
2	C:189:ASP:HB2	C:294:GLN:CA	0.552
2	C:199:ARG:HG3	C:200:CYS:N	0.552
2	C:206:GLY:HA2	D:118:ASP:HA	0.552
2	C:247:VAL:H	C:280:LYS:C	0.552
2	C:281:TRP:CH2	C:290:PHE:CD2	0.552
2	C:297:LEU:HD23	C:298:ALA:N	0.552
2	D:4:LEU:HB2	E:9:ILE:CD1	0.552
2	D:10:GLU:O	D:14:LEU:HG	0.552

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:123:ILE:HD13	D:136:SER:HB3	0.552
2	D:276:VAL:HG13	D:285:LEU:CD2	0.552
2	D:286:LEU:HD12	D:287:ALA:N	0.552
2	D:286:LEU:HD23	D:318:LEU:CD2	0.552
2	D:307:VAL:C	D:308:LEU:HD23	0.552
2	C:53:LYS:HG2	C:81:ARG:HB3	0.551
2	C:56:ILE:CG2	C:91:LYS:HD2	0.551
2	C:151:LYS:N	C:200:CYS:HB2	0.551
2	C:222:PHE:CZ	C:238:PHE:CE1	0.551
2	D:198:LEU:HD22	D:211:TRP:O	0.551
2	D:204:CYS:HA	D:228:ASP:HB2	0.551
2	D:246:ASP:O	D:272:GLY:HA2	0.551
2	A:42:THR:O	A:49:TRP:HB3	0.550
2	B:26:LEU:HD23	B:31:GLY:CA	0.550
2	C:50:GLU:HB3	C:181:LYS:HZ2	0.550
2	C:106:ILE:HB	C:196:ASP:CB	0.550
2	C:177:TYR:CD1	C:296:LEU:CB	0.550
2	C:177:TYR:CE2	C:300:LYS:NZ	0.550
2	C:231:ARG:HH21	C:235:ILE:HG13	0.550
2	C:247:VAL:CG2	C:281:TRP:CA	0.550
2	D:222:PHE:CD1	D:253:PHE:CD1	0.550
2	C:232:ARG:HE	F:101:PRO:CG	0.550
2	A:191:TRP:CZ3	B:22:PHE:CD1	0.549

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:294:ILE:HG23	A:342:VAL:CG1	0.549
2	A:341:GLU:O	A:344:PHE:HB3	0.549
2	C:28:LYS:O	C:31:GLN:HB3	0.549
2	C:46:LEU:HD12	C:286:SER:CB	0.549
2	C:51:SER:HB3	C:224:VAL:O	0.549
2	C:59:GLN:CA	C:251:SER:HB2	0.549
2	C:59:GLN:HG3	C:174:CYS:N	0.549
2	C:65:VAL:HG12	C:66:ASN:N	0.549
2	C:75:GLU:OE1	C:81:ARG:HG3	0.549
2	C:103:ILE:O	C:103:ILE:HG12	0.549
2	C:107:VAL:HG21	C:119:LEU:CD1	0.549
2	C:164:GLU:O	C:165:ARG:HB2	0.549
2	C:244:ILE:HD12	C:287:VAL:CG2	0.549
2	C:289:LEU:HD12	C:361:PRO:CB	0.549
2	D:63:TRP:HE1	D:67:SER:CA	0.549
2	D:110:ASN:HA	D:126:LEU:CD1	0.549
2	D:129:ARG:HG3	D:130:GLU:N	0.549
2	D:311:HIS:NE2	D:337:LYS:HG3	0.549
2	C:50:GLU:O	C:208:PHE:HD2	0.549
2	A:144:LEU:HB3	D:45:MET:O	0.548
2	A:204:ARG:C	A:204:ARG:HD3	0.548
2	A:290:ILE:O	A:291:LEU:HD13	0.548
2	C:53:LYS:HD3	C:190:TYR:CD1	0.548

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:96:LYS:O	C:100:LYS:HG2	0.548
2	C:175:ALA:HB1	C:197:LEU:O	0.548
2	C:185:ILE:HG21	C:203:LEU:CB	0.548
2	C:248:VAL:HG11	C:268:ALA:HB1	0.548
2	C:298:ALA:O	C:301:VAL:HG22	0.548
2	C:311:TYR:HD2	C:313:PRO:HD3	0.548
2	C:321:PRO:HG3	C:339:TYR:CD2	0.548
2	F:46:LEU:HD21	F:111:VAL:HA	0.548
2	A:19:TYR:CD2	A:65:TYR:CE2	0.547
2	C:153:LEU:H	C:155:GLU:HG2	0.547
2	C:291:LEU:H	C:364:THR:HG22	0.547
2	A:231:LEU:C	A:231:LEU:HD23	0.546
2	A:339:THR:HG23	A:340:HIS:N	0.546
2	C:209:GLU:CB	C:222:PHE:HA	0.546
2	C:183:ASP:OD1	C:211:LYS:HD3	0.546
2	C:82:SER:OG	C:226:ALA:HA	0.546
2	C:245:ILE:CG1	C:281:TRP:CE3	0.546
2	D:71:VAL:HG21	D:105:TYR:CD1	0.546
2	D:120:ILE:HD13	D:140:ALA:HB2	0.546
2	D:183:HIS:C	E:2:ALA:HB3	0.546
2	D:299:ALA:O	D:300:LEU:HG	0.546
2	F:82:LEU:CD2	F:84:MET:HG3	0.546
2	C:179:LEU:H	C:201:ARG:NH1	0.546

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:178:LEU:C	A:178:LEU:HD23	0.545
2	A:201:LEU:N	A:201:LEU:HD13	0.545
2	C:46:LEU:HD23	C:285:THR:CA	0.545
2	C:80:ALA:C	C:81:ARG:HG2	0.545
2	C:151:LYS:HG3	C:202:VAL:CG1	0.545
2	C:178:PHE:HE1	C:181:LYS:CE	0.545
2	C:274:ASP:HA	C:277:TRP:CB	0.545
2	D:117:LEU:HA	D:145:TYR:HD1	0.545
2	D:143:THR:O	D:143:THR:HG23	0.545
2	D:211:TRP:NE1	D:213:VAL:HA	0.545
2	A:13:VAL:HB	A:191:TRP:HZ2	0.544
2	A:255:LEU:O	A:259:VAL:HG23	0.544
2	A:355:THR:HG23	A:356:LEU:H	0.544
2	B:20:LYS:CE	B:23:ILE:HG21	0.544
2	C:50:GLU:HB2	C:208:PHE:CB	0.544
2	C:105:THR:CB	C:195:GLN:HB3	0.544
2	C:247:VAL:HG13	C:281:TRP:HA	0.544
2	C:248:VAL:C	C:306:SER:H	0.544
2	C:248:VAL:HB	C:268:ALA:HB2	0.544
2	D:24:ALA:HB2	D:27:ASP:CB	0.544
2	D:313:ASN:HD22	D:333:ASP:HB2	0.544
2	A:271:GLU:HA	A:271:GLU:OE2	0.543
2	A:344:PHE:O	A:348:MET:HB3	0.543

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:172:ILE:N	C:194:ASP:HA	0.543
2	C:197:LEU:O	C:198:LEU:HB2	0.543
2	C:297:LEU:HD23	C:298:ALA:HB2	0.543
2	C:338:LYS:O	C:342:ARG:HG2	0.543
2	F:3:VAL:HG22	F:27:GLY:CA	0.543
2	F:21:LEU:HB2	F:37:TRP:HH2	0.543
2	A:159:ASN:HB3	A:220:TRP:CZ2	0.542
2	A:236:VAL:HB	A:240:GLN:CA	0.542
2	C:41:HIS:HB2	C:219:PHE:CE2	0.542
2	C:50:GLU:CB	C:208:PHE:CG	0.542
2	C:99:LEU:HD23	C:199:ARG:HA	0.542
2	C:127:ARG:CD	C:149:HIS:HB3	0.542
2	C:185:ILE:O	C:185:ILE:HG12	0.542
2	D:110:ASN:HA	D:126:LEU:HD11	0.542
2	E:52:THR:OG1	E:53:PRO:HD2	0.542
2	F:71:ILE:HD11	F:80:LEU:HD21	0.542
2	A:108:ARG:CA	A:108:ARG:HE	0.541
2	A:167:ARG:HD3	A:167:ARG:O	0.541
2	C:56:ILE:HG21	C:91:LYS:CE	0.541
2	C:59:GLN:HE21	C:172:ILE:CG2	0.541
2	C:208:PHE:HE1	C:221:MET:CB	0.541
2	C:244:ILE:O	C:287:VAL:HB	0.541
2	C:362:HIS:CG	C:363:PHE:H	0.541

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:123:ILE:HD13	D:136:SER:CB	0.541
2	E:40:TYR:CZ	E:44:HIS:CG	0.541
2	C:69:ASN:N	C:261:ASN:HD21	0.541
2	C:292:ASN:H	C:292:ASN:ND2	0.541
2	A:9:LEU:HD23	B:19:ALA:HA	0.540
2	A:191:TRP:CE3	B:22:PHE:CE1	0.540
2	C:106:ILE:CB	C:195:GLN:HB2	0.540
2	C:182:ILE:HG21	C:201:ARG:HA	0.540
2	C:208:PHE:HD2	C:223:ASP:CB	0.540
2	D:9:GLN:O	D:12:GLU:HG2	0.540
2	D:269:ILE:H	D:269:ILE:HD13	0.540
2	A:19:TYR:CE2	A:65:TYR:HE2	0.539
2	A:399:LEU:O	A:400:GLU:HB2	0.539
2	C:48:ALA:HA	C:297:LEU:HB2	0.539
2	C:92:VAL:O	C:95:ILE:HG22	0.539
2	C:103:ILE:HG13	C:199:ARG:HB3	0.539
2	C:127:ARG:HB3	C:153:LEU:HD12	0.539
2	C:281:TRP:CZ3	C:290:PHE:HD2	0.539
2	C:341:ILE:HG23	C:342:ARG:N	0.539
2	D:7:LEU:O	D:7:LEU:HD13	0.539
2	D:78:LYS:HB2	D:78:LYS:NZ	0.539
2	D:162:GLY:O	D:186:ASP:HA	0.539
2	A:100:LEU:HD23	B:27:VAL:HG11	0.538

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:165:ILE:O	A:165:ILE:HG22	0.538
2	C:60:MET:N	C:251:SER:HA	0.538
2	A:404:ILE:H	F:57:ALA:HB2	0.538
2	C:60:MET:N	C:252:SER:H	0.538
2	A:118:LEU:HG	B:6:PHE:HZ	0.537
2	A:132:SER:O	A:136:LEU:HG	0.537
2	A:144:LEU:HB2	D:45:MET:HA	0.537
2	A:357:ARG:H	A:357:ARG:HD3	0.537
2	C:57:VAL:CG2	C:189:ASP:N	0.537
2	C:103:ILE:HG13	C:131:ILE:CD1	0.537
2	C:155:GLU:HG3	C:156:ASP:N	0.537
2	C:289:LEU:CD1	C:361:PRO:HB2	0.537
2	D:2:SER:HA	E:9:ILE:HG21	0.537
2	D:37:ILE:HD13	D:268:ASN:CA	0.537
2	D:81:ILE:HD13	D:91:HIS:O	0.537
2	D:204:CYS:CB	D:228:ASP:HB3	0.537
2	F:102:ALA:CB	F:103:PRO:HD2	0.537
2	C:169:TYR:HD2	C:195:GLN:HE22	0.537
2	A:118:LEU:HD11	B:6:PHE:CZ	0.536
2	A:156:ILE:O	A:156:ILE:HG23	0.536
2	A:284:LEU:O	A:284:LEU:HD22	0.536
2	A:335:PRO:HG3	A:374:MET:SD	0.536
2	C:57:VAL:HG13	C:189:ASP:HB3	0.536

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:154:TRP:CD2	C:179:LEU:HD21	0.536
2	C:178:PHE:HD2	C:198:LEU:CD2	0.536
2	C:208:PHE:CD1	C:210:THR:N	0.536
2	D:7:LEU:C	D:7:LEU:HD13	0.536
2	D:319:GLY:O	D:327:VAL:HG13	0.536
2	A:80:PHE:HB3	A:88:LEU:CD1	0.535
2	B:22:PHE:O	B:26:LEU:HG	0.535
2	C:88:LYS:HD3	D:143:THR:OG1	0.535
2	C:88:LYS:HE2	D:144:GLY:O	0.535
2	C:59:GLN:N	C:177:TYR:CE2	0.535
2	C:184:VAL:HG23	C:186:LYS:HG3	0.535
2	C:190:TYR:C	C:191:VAL:HG23	0.535
2	C:106:ILE:O	C:196:ASP:HA	0.535
2	C:228:ARG:HD3	D:163:ASP:OD2	0.535
2	C:290:PHE:HD1	C:364:THR:HB	0.535
2	D:63:TRP:HE1	D:67:SER:HA	0.535
2	C:187:GLN:H	C:207:ILE:N	0.535
2	C:234:TRP:HE1	D:145:TYR:CB	0.535
2	C:283:ARG:HH12	C:294:GLN:NE2	0.535
2	A:114:PRO:HD2	A:117:GLN:NE2	0.534
2	A:141:ALA:CB	D:44:GLN:H	0.534
2	A:344:PHE:CD1	A:345:ALA:N	0.534
2	A:374:MET:CA	A:377:ILE:HG22	0.534

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:45:LEU:HA	C:286:SER:CA	0.534
2	C:53:LYS:CB	C:56:ILE:CG2	0.534
2	C:56:ILE:HG21	C:91:LYS:HZ1	0.534
2	C:83:ASN:CA	C:91:LYS:H	0.534
2	C:88:LYS:HG2	D:143:THR:HA	0.534
2	C:172:ILE:HG23	C:173:ASP:H	0.534
2	F:54:GLN:HG3	F:55:SER:N	0.534
2	F:94:VAL:HG22	F:95:TYR:N	0.534
2	A:336:LEU:CD1	A:375:VAL:HG21	0.533
2	A:373:LEU:O	A:373:LEU:HD22	0.533
2	C:60:MET:CA	C:252:SER:H	0.533
2	C:166:SER:HB3	C:171:LEU:HD11	0.533
2	C:276:ILE:HG23	C:277:TRP:N	0.533
2	D:222:PHE:CE2	D:251:ARG:HD2	0.533
2	E:23:ALA:O	E:24:ASN:HB2	0.533
2	A:237:LEU:H	A:240:GLN:CB	0.533
2	A:57:PHE:HB2	A:78:TYR:HD1	0.532
2	A:237:LEU:HD12	A:238:SER:H	0.532
2	C:50:GLU:HG3	C:181:LYS:CG	0.532
2	C:151:LYS:N	C:200:CYS:HA	0.532
2	C:370:GLU:HG2	C:372:ILE:O	0.532
2	D:139:LEU:HG	D:169:TRP:CE3	0.532
2	C:154:TRP:CD1	C:200:CYS:SG	0.531

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:277:TRP:CD1	C:278:ASN:H	0.531
2	D:183:HIS:CD2	D:185:GLY:H	0.531
2	F:35:MET:CE	F:80:LEU:HB3	0.531
2	F:95:TYR:OH	F:97:CYS:HA	0.531
2	A:80:PHE:HB3	A:88:LEU:HD12	0.530
2	A:142:ILE:O	A:143:LEU:HB2	0.530
2	A:207:PHE:CE2	A:261:TRP:HZ2	0.530
2	A:274:TRP:CZ2	A:282:TYR:CE2	0.530
2	A:285:ILE:HG23	A:286:ILE:N	0.530
2	C:46:LEU:HD13	C:281:TRP:N	0.530
2	C:55:THR:HA	C:95:ILE:CG1	0.530
2	C:143:PRO:HG2	C:146:PHE:CD1	0.530
2	C:293:LYS:HA	C:295:ASP:O	0.530
2	D:15:LYS:O	D:19:ARG:HB2	0.530
2	D:155:ASN:HA	D:171:ILE:CG2	0.530
2	F:62:THR:HG23	F:65:VAL:H	0.530
2	A:413:LEU:H	F:104:PHE:HB3	0.530
2	A:111:ARG:CG	A:112:SER:H	0.530
2	A:27:LEU:O	A:27:LEU:HD22	0.529
2	A:159:ASN:O	A:162:ALA:HB3	0.529
2	A:255:LEU:C	A:255:LEU:HD23	0.529
2	A:261:TRP:CD1	A:282:TYR:HH	0.529
2	A:386:VAL:HG12	A:390:PHE:CE2	0.529

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:42:ARG:C	C:43:LEU:HD23	0.529
2	C:50:GLU:HG2	C:208:PHE:CE2	0.529
2	C:88:LYS:HE3	C:226:ALA:CA	0.529
2	C:94:ASP:O	C:97:ASN:HB2	0.529
2	C:178:PHE:C	C:201:ARG:HG3	0.529
2	C:178:PHE:CE1	C:181:LYS:CE	0.529
2	C:182:ILE:CG2	C:201:ARG:CA	0.529
2	C:252:SER:HB3	C:258:ARG:CB	0.529
2	D:54:HIS:HB2	D:334:SER:HB3	0.529
2	D:157:ILE:HD11	D:169:TRP:HD1	0.529
2	D:166:CYS:HB2	D:180:PHE:HB3	0.529
2	A:194:LEU:N	A:194:LEU:HD23	0.528
2	A:153:ARG:HH21	A:231:LEU:HD11	0.528
2	A:343:ILE:HG12	A:347:VAL:HG13	0.528
2	A:404:ILE:HG12	F:57:ALA:CB	0.528
2	C:53:LYS:HG3	C:81:ARG:HB2	0.528
2	C:88:LYS:CE	D:144:GLY:H	0.528
2	C:186:LYS:NZ	C:187:GLN:HG3	0.528
2	C:270:LEU:O	C:270:LEU:HD13	0.528
2	D:110:ASN:O	D:111:TYR:HB2	0.528
2	A:119:LEU:C	A:119:LEU:HD13	0.527
2	A:136:LEU:HD12	A:164:PHE:CD2	0.527
2	A:307:ILE:O	A:310:SER:HB3	0.527

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:103:ILE:HG22	C:199:ARG:CA	0.527
2	D:151:PHE:HA	D:157:ILE:CG2	0.527
2	D:289:TYR:HE2	D:295:ASN:HB3	0.527
2	E:70:ILE:HG22	E:71:LEU:N	0.527
2	F:69:PHE:HB2	F:82:LEU:HD11	0.527
2	C:154:TRP:CG	C:155:GLU:N	0.527
2	A:409:SER:C	A:411:LYS:N	0.526
2	C:106:ILE:HD11	C:195:GLN:OE1	0.526
2	C:177:TYR:CG	C:296:LEU:CB	0.526
2	C:179:LEU:HD13	C:198:LEU:N	0.526
2	C:246:PHE:N	C:281:TRP:CB	0.526
2	C:281:TRP:CZ3	C:290:PHE:CD2	0.526
2	E:43:ALA:O	E:44:HIS:HB3	0.526
2	F:37:TRP:CE3	F:95:TYR:CE1	0.526
2	A:119:LEU:O	A:119:LEU:HD13	0.525
2	C:59:GLN:N	C:177:TYR:CD2	0.525
2	C:177:TYR:CD2	C:300:LYS:CB	0.525
2	C:182:ILE:HG12	C:202:VAL:CG2	0.525
2	C:264:ASN:C	C:265:ARG:HD3	0.525
2	D:223:THR:HG21	F:1:MET:C	0.525
2	D:226:GLU:HG3	F:28:PHE:HA	0.525
2	F:124:GLN:O	F:125:VAL:HB	0.525
2	C:151:LYS:H	C:200:CYS:CB	0.525

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:179:LEU:H	C:201:ARG:HH11	0.525
2	A:236:VAL:C	A:240:GLN:H	0.524
2	A:346:PHE:CD2	A:347:VAL:N	0.524
2	C:3:CYS:C	C:4:LEU:HD12	0.524
2	C:46:LEU:HB3	C:286:SER:N	0.524
2	C:92:VAL:C	C:95:ILE:HG22	0.524
2	C:159:VAL:C	C:197:LEU:HD21	0.524
2	C:184:VAL:C	C:209:GLU:HA	0.524
2	C:187:GLN:HB3	C:223:ASP:O	0.524
2	C:50:GLU:N	C:208:PHE:CD2	0.524
2	C:265:ARG:HG2	C:268:ALA:HB3	0.524
2	D:71:VAL:HG21	D:105:TYR:CB	0.524
2	D:188:MET:HE3	D:230:ASN:O	0.524
2	D:211:TRP:HE1	D:213:VAL:HA	0.524
2	A:6:THR:O	A:6:THR:HG23	0.523
2	A:144:LEU:HD13	D:46:ARG:HG3	0.523
2	C:107:VAL:HG13	C:128:VAL:HG13	0.523
2	C:123:GLU:HA	C:123:GLU:OE1	0.523
2	C:190:TYR:CD2	C:191:VAL:N	0.523
2	C:208:PHE:CD1	C:209:GLU:CA	0.523
2	C:281:TRP:C	C:281:TRP:CD1	0.523
2	C:47:GLY:H	C:293:LYS:HB2	0.523
2	D:222:PHE:CG	D:253:PHE:CD1	0.523

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:38:PHE:CD2	A:54:PRO:HD3	0.522
2	A:23:CYS:SG	A:48:CYS:HB2	0.522
2	A:191:TRP:NE1	A:195:LEU:HD23	0.522
2	A:219:TYR:CD1	A:250:GLY:HA2	0.522
2	A:237:LEU:O	A:243:PHE:HB2	0.522
2	C:36:VAL:HA	C:39:ALA:HB3	0.522
2	C:41:HIS:CD2	C:217:VAL:HG21	0.522
2	C:127:ARG:HH12	C:131:ILE:HG22	0.522
2	C:222:PHE:CE1	C:238:PHE:CE1	0.522
2	C:248:VAL:CG2	C:306:SER:H	0.522
2	C:263:THR:O	C:263:THR:HG23	0.522
2	C:379:CYS:HA	C:382:ILE:CG2	0.522
2	D:152:LEU:HG	D:192:LEU:HD13	0.522
2	C:23:ASN:ND2	D:89:LYS:H	0.522
2	A:136:LEU:HD12	A:164:PHE:HD2	0.521
2	A:182:TYR:O	A:183:SER:HB3	0.521
2	A:374:MET:C	A:377:ILE:HG22	0.521
2	A:406:ARG:HD2	A:406:ARG:N	0.521
2	C:103:ILE:HD11	C:131:ILE:HG23	0.521
2	C:162:CYS:O	C:163:TYR:HB3	0.521
2	C:270:LEU:C	C:270:LEU:HD13	0.521
2	C:346:LEU:N	C:346:LEU:HD22	0.521
2	D:69:LEU:HD11	D:81:ILE:HG21	0.521

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:175:GLN:HG2	D:176:GLN:N	0.521
2	A:419:SER:H	D:263:THR:HG23	0.521
2	F:94:VAL:HG11	F:129:SER:OG	0.521
2	A:62:CYS:SG	A:72:VAL:HG12	0.520
2	A:144:LEU:CD1	A:158:LEU:HD13	0.520
2	A:418:SER:CB	D:265:SER:HB3	0.520
2	C:53:LYS:CG	C:81:ARG:HB2	0.520
2	C:53:LYS:HG2	C:82:SER:H	0.520
2	C:58:LYS:HB2	C:178:PHE:HD1	0.520
2	C:171:LEU:CB	C:195:GLN:HG2	0.520
2	C:188:ALA:HA	C:225:GLY:CA	0.520
2	C:244:ILE:CA	C:287:VAL:HB	0.520
2	C:250:SER:C	C:300:LYS:HE3	0.520
2	D:15:LYS:HB3	F:1:MET:HB2	0.520
2	D:219:ARG:O	D:220:GLN:HG3	0.520
2	D:235:PHE:HE2	E:40:TYR:CD2	0.520
2	F:28:PHE:CD1	F:29:THR:N	0.520
2	A:25:ARG:HG2	A:26:SER:H	0.519
2	A:57:PHE:HB3	A:78:TYR:CE1	0.519
2	A:100:LEU:C	A:100:LEU:HD13	0.519
2	C:45:LEU:HD21	C:221:MET:HG2	0.519
2	C:185:ILE:HG12	C:207:ILE:CD1	0.519
2	C:244:ILE:CG2	C:287:VAL:HG23	0.519

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:245:ILE:HG13	C:288:ILE:HD12	0.519
2	C:305:LYS:HE3	C:308:ILE:CD1	0.519
2	D:57:LYS:HG2	D:332:TRP:CG	0.519
2	A:391:ARG:O	A:395:GLU:HG2	0.518
2	C:50:GLU:CD	C:181:LYS:HB3	0.518
2	C:51:SER:HB3	C:187:GLN:C	0.518
2	C:62:ILE:HG22	C:64:HIS:N	0.518
2	C:71:GLU:HG2	C:74:GLU:O	0.518
2	C:75:GLU:CB	C:190:TYR:HB2	0.518
2	C:159:VAL:HG23	C:197:LEU:HD11	0.518
2	C:172:ILE:HG22	C:192:PRO:O	0.518
2	C:177:TYR:CE2	C:300:LYS:HB2	0.518
2	C:106:ILE:N	C:195:GLN:CB	0.518
2	C:245:ILE:CA	C:288:ILE:H	0.518
2	C:282:LEU:CB	C:282:LEU:O	0.518
2	D:120:ILE:HD11	D:138:GLU:CB	0.518
2	F:33:TYR:CG	F:99:ARG:NH1	0.518
2	C:45:LEU:CD2	C:221:MET:CG	0.517
2	C:46:LEU:CG	C:282:LEU:O	0.517
2	C:177:TYR:HA	C:296:LEU:CG	0.517
2	C:183:ASP:O	C:184:VAL:HB	0.517
2	C:154:TRP:N	C:200:CYS:CB	0.517
2	C:231:ARG:HD3	C:285:THR:OG1	0.517

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:245:ILE:C	C:288:ILE:N	0.517
2	C:283:ARG:HD2	C:293:LYS:HD3	0.517
2	D:45:MET:HG2	D:46:ARG:N	0.517
2	D:197:ARG:O	D:213:VAL:HG12	0.517
2	D:278:PHE:CZ	D:285:LEU:HD12	0.517
2	D:292:PHE:CE2	D:310:GLY:N	0.517
2	D:335:PHE:HE1	D:337:LYS:HG2	0.517
2	C:99:LEU:CB	C:178:PHE:HE2	0.517
2	A:111:ARG:HG2	A:112:SER:N	0.516
2	A:353:ARG:HG2	A:353:ARG:O	0.516
2	C:331:ASP:HB2	C:332:PRO:C	0.516
2	C:389:ARG:CB	C:394:LEU:HD21	0.516
2	D:257:ALA:HB2	E:28:ILE:O	0.516
2	D:293:ASN:CG	D:307:VAL:HG13	0.516
2	D:292:PHE:HE2	D:310:GLY:N	0.516
2	A:71:SER:OG	A:108:ARG:HG3	0.515
2	A:191:TRP:CE3	B:22:PHE:CD1	0.515
2	C:40:THR:HG21	C:220:HIS:CE1	0.515
2	C:53:LYS:HB3	C:91:LYS:CD	0.515
2	C:102:ALA:HA	C:194:ASP:C	0.515
2	C:178:PHE:HA	C:201:ARG:CD	0.515
2	C:181:LYS:CB	C:201:ARG:CZ	0.515
2	C:245:ILE:CG2	C:282:LEU:HG	0.515

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:65:THR:HA	D:322:ASP:OD1	0.515
2	D:123:ILE:CD1	D:171:ILE:HD11	0.515
2	D:225:HIS:CG	D:251:ARG:NH1	0.515
2	D:252:LEU:HD21	D:261:LEU:HD12	0.515
2	F:28:PHE:CE1	F:99:ARG:NH1	0.515
2	C:249:ALA:CB	C:249:ALA:N	0.515
2	A:72:VAL:N	A:73:PRO:HD3	0.514
2	A:135:ALA:HA	A:138:ILE:HG22	0.514
2	A:161:PHE:CG	A:162:ALA:N	0.514
2	A:197:TYR:CE2	A:203:CYS:SG	0.514
2	C:61:ARG:O	C:62:ILE:HD13	0.514
2	C:99:LEU:CA	C:198:LEU:CD2	0.514
2	C:177:TYR:CG	C:296:LEU:HB3	0.514
2	C:181:LYS:HD2	C:201:ARG:CD	0.514
2	C:188:ALA:N	C:225:GLY:CA	0.514
2	C:253:TYR:CD2	C:254:ASN:N	0.514
2	C:292:ASN:HB2	C:301:VAL:HG12	0.514
2	C:293:LYS:C	C:293:LYS:HD3	0.514
2	D:152:LEU:HD13	D:196:THR:HG23	0.514
2	A:207:PHE:HE2	A:261:TRP:HZ2	0.514
2	C:180:ASP:N	C:201:ARG:HH11	0.514
2	C:174:CYS:SG	C:194:ASP:N	0.514
2	A:146:PHE:HB3	D:291:ASP:HB3	0.513

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:409:SER:O	A:410:MET:HB3	0.513
2	B:1:HIS:O	B:2:ALA:HB3	0.513
2	C:56:ILE:HG13	C:191:VAL:H	0.513
2	C:60:MET:C	C:252:SER:H	0.513
2	C:177:TYR:CE1	C:296:LEU:N	0.513
2	C:281:TRP:CZ2	C:375:VAL:CG2	0.513
2	C:283:ARG:HB2	C:293:LYS:N	0.513
2	C:292:ASN:CB	C:305:LYS:CA	0.513
2	D:15:LYS:HE3	E:19:LEU:HD11	0.513
2	D:65:THR:HG23	D:66:ASP:N	0.513
2	D:311:HIS:CE1	D:335:PHE:HD1	0.513
2	D:318:LEU:C	D:318:LEU:HD13	0.513
2	A:404:ILE:H	F:57:ALA:CB	0.513
2	F:71:ILE:CD1	F:80:LEU:HD21	0.513
2	A:290:ILE:C	A:291:LEU:HD13	0.512
2	C:46:LEU:CD2	C:284:ASP:C	0.512
2	C:46:LEU:CD2	C:285:THR:N	0.512
2	C:46:LEU:HB3	C:285:THR:O	0.512
2	C:181:LYS:CB	C:210:THR:HA	0.512
2	C:190:TYR:CG	C:191:VAL:N	0.512
2	C:191:VAL:HG12	C:192:PRO:CD	0.512
2	C:211:LYS:HB2	C:220:HIS:CA	0.512
2	C:219:PHE:CB	C:221:MET:HE1	0.512

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:245:ILE:CA	C:286:SER:OG	0.512
2	C:248:VAL:HG12	C:280:LYS:NZ	0.512
2	C:46:LEU:N	C:286:SER:HA	0.512
2	C:283:ARG:N	C:293:LYS:HB3	0.512
2	D:318:LEU:CD1	D:327:VAL:HG11	0.512
2	E:42:GLU:HA	E:42:GLU:OE2	0.512
2	A:142:ILE:HG12	A:146:PHE:HE2	0.511
2	A:158:LEU:CB	D:46:ARG:HE	0.511
2	C:189:ASP:CG	C:190:TYR:H	0.511
2	C:227:GLN:HE22	C:231:ARG:CD	0.511
2	C:245:ILE:CG1	C:281:TRP:CZ3	0.511
2	C:247:VAL:CG1	C:292:ASN:H	0.511
2	C:247:VAL:CG1	C:292:ASN:N	0.511
2	C:290:PHE:CZ	C:362:HIS:HD2	0.511
2	C:296:LEU:HD12	C:299:GLU:CG	0.511
2	C:296:LEU:CD1	C:299:GLU:HB2	0.511
2	E:48:ASP:HB3	E:49:PRO:CD	0.511
2	A:283:TRP:CZ2	B:1:HIS:HA	0.510
2	C:45:LEU:CD2	C:221:MET:HB3	0.510
2	C:74:GLU:HG3	C:249:ALA:HB3	0.510
2	C:107:VAL:HG12	C:199:ARG:HH12	0.510
2	C:248:VAL:HG12	C:280:LYS:HZ2	0.510
2	C:23:ASN:HD21	D:88:ASN:CG	0.510

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:248:ALA:HB2	D:271:CYS:O	0.510
2	F:37:TRP:CZ2	F:82:LEU:HD22	0.510
2	F:46:LEU:O	F:111:VAL:HG13	0.510
2	C:180:ASP:N	C:201:ARG:NH1	0.510
2	C:245:ILE:N	C:287:VAL:N	0.510
2	A:160:LEU:HD21	A:336:LEU:HD21	0.509
2	C:45:LEU:HD22	C:208:PHE:CZ	0.509
2	C:147:TYR:CD2	C:202:VAL:CG2	0.509
2	C:127:ARG:HE	C:153:LEU:CB	0.509
2	C:178:PHE:CE1	C:181:LYS:CD	0.509
2	F:35:MET:HB3	F:80:LEU:HD13	0.509
2	F:46:LEU:HB2	F:96:TYR:OH	0.509
2	D:47:THR:CG2	D:48:ARG:H	0.509
2	A:72:VAL:N	A:73:PRO:CD	0.508
2	A:68:TRP:NE1	A:105:GLU:HG2	0.508
2	A:160:LEU:HD22	A:336:LEU:HD21	0.508
2	A:404:ILE:HG22	F:55:SER:CB	0.508
2	C:14:ASN:ND2	C:17:LYS:HB2	0.508
2	C:45:LEU:HD23	C:282:LEU:HB3	0.508
2	C:169:TYR:CG	C:170:GLN:N	0.508
2	C:288:ILE:HD11	C:360:TYR:CB	0.508
2	D:117:LEU:CB	D:145:TYR:CD1	0.508
2	D:180:PHE:CD1	D:211:TRP:CZ3	0.508

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	F:46:LEU:HG	F:111:VAL:HG13	0.508
2	C:59:GLN:NE2	C:253:TYR:N	0.508
2	C:46:LEU:CG	C:283:ARG:C	0.507
2	C:46:LEU:CD1	C:282:LEU:O	0.507
2	C:82:SER:HB2	C:88:LYS:CA	0.507
2	C:109:ALA:HA	C:112:ASN:ND2	0.507
2	C:217:VAL:HG13	C:219:PHE:HE1	0.507
2	C:280:LYS:HG2	C:284:ASP:CA	0.507
2	C:291:LEU:HD13	C:363:PHE:CD1	0.507
2	D:26:ALA:O	D:27:ASP:HB2	0.507
2	C:187:GLN:NE2	D:99:TRP:CZ3	0.507
2	A:144:LEU:O	D:292:PHE:HB3	0.507
2	F:13:VAL:O	F:126:THR:HG21	0.507
2	C:51:SER:N	C:188:ALA:N	0.507
2	C:187:GLN:CB	C:187:GLN:N	0.507
2	C:50:GLU:O	C:188:ALA:N	0.507
2	A:63:PRO:O	A:64:TRP:HB3	0.506
2	C:46:LEU:CD1	C:246:PHE:H	0.506
2	C:102:ALA:CB	C:198:LEU:CD1	0.506
2	C:154:TRP:HB3	C:200:CYS:HG	0.506
2	C:246:PHE:C	C:281:TRP:N	0.506
2	F:33:TYR:CD1	F:99:ARG:NH1	0.506
2	A:57:PHE:CB	A:78:TYR:CE1	0.505

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:78:TYR:OH	A:80:PHE:HB2	0.505
2	C:59:GLN:NE2	C:172:ILE:CG2	0.505
2	C:127:ARG:NH2	C:199:ARG:CZ	0.505
2	C:187:GLN:NE2	C:224:VAL:HG12	0.505
2	C:47:GLY:N	C:282:LEU:HA	0.505
2	C:302:LEU:HD22	C:368:ASP:HB3	0.505
2	D:70:LEU:HD22	D:336:LEU:HD11	0.505
2	D:124:TYR:CE1	D:133:VAL:CG1	0.505
2	D:188:MET:HG3	D:230:ASN:O	0.505
2	D:286:LEU:HD23	D:318:LEU:HD21	0.505
2	A:142:ILE:CG1	A:146:PHE:CE2	0.504
2	A:282:TYR:O	A:285:ILE:HG22	0.504
2	C:74:GLU:HG3	C:283:ARG:NH2	0.504
2	C:106:ILE:HG22	C:107:VAL:N	0.504
2	C:107:VAL:CB	C:199:ARG:HH12	0.504
2	C:127:ARG:HE	C:153:LEU:HD12	0.504
2	D:58:ILE:O	D:59:TYR:HB2	0.504
2	D:69:LEU:HD22	D:70:LEU:N	0.504
2	D:120:ILE:CD1	D:138:GLU:HB2	0.504
2	D:199:PHE:HD1	D:211:TRP:HB3	0.504
2	A:124:ILE:O	A:125:TYR:HB3	0.503
2	A:153:ARG:HG2	A:227:TYR:CE2	0.503
2	A:355:THR:CG2	A:356:LEU:HD23	0.503

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:386:VAL:CG1	A:390:PHE:CE2	0.503
2	A:275:THR:O	B:8:SER:HB3	0.503
2	B:14:LEU:C	B:14:LEU:HD13	0.503
2	C:46:LEU:CA	C:283:ARG:N	0.503
2	C:147:TYR:CE2	C:202:VAL:CG2	0.503
2	C:182:ILE:HD13	C:203:LEU:N	0.503
2	C:245:ILE:H	C:286:SER:HB2	0.503
2	E:57:SER:C	E:59:ASN:H	0.503
2	C:88:LYS:HZ2	C:227:GLN:N	0.503
2	A:142:ILE:HD13	A:143:LEU:HD23	0.502
2	A:146:PHE:CD2	D:39:PRO:CG	0.502
2	C:53:LYS:CG	C:82:SER:H	0.502
2	C:54:ASN:CB	C:57:VAL:CG2	0.502
2	C:75:GLU:O	C:76:ASP:HB2	0.502
2	C:106:ILE:CA	C:195:GLN:HB2	0.502
2	C:175:ALA:HA	C:198:LEU:CG	0.502
2	C:208:PHE:CE1	C:221:MET:CB	0.502
2	C:259:GLU:O	C:260:ASP:HB2	0.502
2	D:23:LYS:HG2	D:28:ALA:HB3	0.502
2	D:199:PHE:HB3	D:211:TRP:HD1	0.502
2	D:293:ASN:HB3	D:309:ALA:HA	0.502
2	A:120:PHE:O	A:121:LEU:HB3	0.501
2	A:136:LEU:CD1	A:164:PHE:CD2	0.501

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:265:LYS:CD	A:274:TRP:CD2	0.501
2	C:14:ASN:HB2	C:17:LYS:CG	0.501
2	C:99:LEU:HD11	C:202:VAL:O	0.501
2	C:249:ALA:HA	C:293:LYS:O	0.501
2	C:293:LYS:CE	C:294:GLN:N	0.501
2	C:302:LEU:HA	C:368:ASP:OD1	0.501
2	A:13:VAL:CG2	A:191:TRP:CZ2	0.500
2	A:418:SER:HB3	D:265:SER:CB	0.500
2	C:46:LEU:HD13	C:282:LEU:O	0.500
2	C:55:THR:CB	C:95:ILE:CA	0.500
2	C:185:ILE:CG1	C:205:SER:H	0.500
2	C:52:GLY:H	C:188:ALA:C	0.500
2	C:50:GLU:O	C:188:ALA:HB2	0.500
2	C:208:PHE:HE2	C:223:ASP:HB2	0.500
2	C:249:ALA:HB1	C:294:GLN:O	0.500
2	C:281:TRP:CZ2	C:290:PHE:CD2	0.500
2	C:292:ASN:CA	C:305:LYS:CB	0.500
2	D:50:THR:HA	D:336:LEU:O	0.500
2	D:115:GLY:CA	D:146:LEU:HD13	0.500
2	D:196:THR:O	D:196:THR:HG22	0.500
2	D:232:ILE:HD12	D:242:ALA:O	0.500
2	D:292:PHE:CE1	D:315:VAL:CG1	0.500
2	C:181:LYS:N	C:201:ARG:NH1	0.500

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:13:VAL:CB	A:191:TRP:HZ2	0.499
2	A:57:PHE:CB	A:78:TYR:CD1	0.499
2	A:181:MET:CE	A:197:TYR:HD2	0.499
2	A:285:ILE:C	A:285:ILE:HD13	0.499
2	C:45:LEU:CB	C:208:PHE:CZ	0.499
2	C:102:ALA:C	C:195:GLN:HA	0.499
2	C:178:PHE:CE1	C:201:ARG:CD	0.499
2	C:178:PHE:HZ	C:185:ILE:CD1	0.499
2	C:59:GLN:OE1	C:191:VAL:HB	0.499
2	C:250:SER:CB	C:259:GLU:HG3	0.499
2	D:51:LEU:CD1	D:82:TRP:CG	0.499
2	D:80:ILE:HD11	D:89:LYS:HG3	0.499
2	F:37:TRP:CZ3	F:82:LEU:CB	0.499
2	F:92:THR:CA	F:127:VAL:HB	0.499
2	A:75:GLY:HA3	A:102:GLU:CD	0.498
2	A:286:ILE:O	A:289:PRO:HG2	0.498
2	A:377:ILE:CG1	A:381:PHE:CZ	0.498
2	C:25:LYS:HE2	C:29:GLN:OE1	0.498
2	C:105:THR:CG2	C:195:GLN:NE2	0.498
2	C:181:LYS:CA	C:201:ARG:CZ	0.498
2	C:184:VAL:HG22	C:209:GLU:OE1	0.498
2	C:217:VAL:CG1	C:219:PHE:CE1	0.498
2	D:152:LEU:HD21	D:192:LEU:HD13	0.498

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:190:LEU:HD21	D:199:PHE:CD2	0.498
2	F:30:PHE:CZ	F:73:ARG:CG	0.498
2	F:59:ILE:HD13	F:60:SER:N	0.498
2	C:47:GLY:O	C:49:GLY:N	0.498
2	A:60:VAL:N	A:76:HIS:CD2	0.497
2	A:118:LEU:CD1	B:6:PHE:CZ	0.497
2	C:53:LYS:HD3	C:91:LYS:HE3	0.497
2	C:54:ASN:CB	C:207:ILE:CG1	0.497
2	C:103:ILE:CG2	C:199:ARG:CA	0.497
2	C:182:ILE:HD13	C:201:ARG:O	0.497
2	C:178:PHE:HD2	C:198:LEU:HD23	0.497
2	D:213:VAL:O	D:214:ARG:HB3	0.497
2	E:1:MET:H3	E:15:LEU:CD2	0.497
2	A:414:LYS:NZ	D:36:ASN:HD22	0.497
2	A:80:PHE:HD2	A:88:LEU:HD21	0.496
2	A:144:LEU:HD11	A:158:LEU:CD1	0.496
2	A:300:ILE:O	A:304:VAL:HG23	0.496
2	A:334:ILE:HG21	A:339:THR:CB	0.496
2	A:413:LEU:HD22	A:414:LYS:H	0.496
2	C:55:THR:HB	C:95:ILE:CB	0.496
2	C:137:VAL:CG2	C:138:PRO:HD2	0.496
2	C:208:PHE:HE1	C:221:MET:HB2	0.496
2	C:239:ASN:O	C:240:ASP:HB2	0.496

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:248:VAL:HG12	C:268:ALA:HA	0.496
2	C:281:TRP:CH2	C:375:VAL:CG2	0.496
2	C:46:LEU:CB	C:293:LYS:HD2	0.496
2	D:123:ILE:HG23	D:136:SER:HB3	0.496
2	D:282:GLY:O	D:283:ARG:HB3	0.496
2	E:32:LYS:HB2	E:32:LYS:NZ	0.496
2	F:87:LEU:HD13	F:88:LYS:C	0.496
2	A:66:LEU:HD11	A:69:ALA:HA	0.495
2	A:243:PHE:CD1	A:246:TYR:HE1	0.495
2	A:334:ILE:HB	A:339:THR:CG2	0.495
2	A:343:ILE:CG1	A:347:VAL:HG13	0.495
2	A:406:ARG:H	A:406:ARG:HD2	0.495
2	C:95:ILE:HG21	C:207:ILE:CB	0.495
2	C:181:LYS:CG	C:181:LYS:O	0.495
2	D:69:LEU:HD13	D:70:LEU:CA	0.495
2	D:204:CYS:HB3	D:228:ASP:CG	0.495
2	D:99:TRP:HD1	D:100:VAL:N	0.495
2	A:237:LEU:N	A:240:GLN:N	0.495
2	A:118:LEU:CD1	A:121:LEU:HD12	0.494
2	A:137:VAL:HG23	A:165:ILE:HD13	0.494
2	A:153:ARG:HA	A:156:ILE:CG2	0.494
2	A:205:LEU:HD21	A:209:LEU:HD11	0.494
2	A:267:LEU:CD1	A:268:TYR:CE1	0.494

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:378:LEU:O	A:378:LEU:HD22	0.494
2	C:128:VAL:HG12	C:129:ASP:N	0.494
2	C:184:VAL:CG2	C:186:LYS:CG	0.494
2	C:223:ASP:CG	C:224:VAL:H	0.494
2	C:247:VAL:CG1	C:290:PHE:CB	0.494
2	C:309:GLU:CD	C:309:GLU:H	0.494
2	C:321:PRO:HG3	C:339:TYR:CZ	0.494
2	D:146:LEU:HD23	D:160:SER:O	0.494
2	D:31:SER:OG	F:26:SER:HB3	0.494
2	A:344:PHE:HE2	A:364:GLU:CB	0.494
2	F:37:TRP:HD1	F:49:VAL:CB	0.494
2	C:153:LEU:CB	C:199:ARG:HE	0.494
2	F:35:MET:SD	F:97:CYS:SG	0.494
2	A:18:GLU:O	A:19:TYR:HB3	0.493
2	A:177:ALA:O	A:178:LEU:HB3	0.493
2	A:178:LEU:HD23	B:14:LEU:CD2	0.493
2	A:415:CYS:CA	F:32:ASN:HD21	0.493
2	C:44:LEU:C	C:45:LEU:HD12	0.493
2	C:78:GLN:O	C:79:ALA:HB2	0.493
2	C:151:LYS:C	C:151:LYS:HD2	0.493
2	C:208:PHE:CG	C:209:GLU:N	0.493
2	C:271:LYS:HB2	C:280:LYS:HG3	0.493
2	C:341:ILE:HA	C:344:GLU:OE2	0.493

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:19:ARG:O	D:23:LYS:HG3	0.493
2	D:106:ALA:HB2	D:151:PHE:HE2	0.493
2	E:20:LYS:HD3	E:24:ASN:HD22	0.493
2	F:117:ALA:O	F:118:TYR:HB2	0.493
2	D:183:HIS:HD2	D:185:GLY:H	0.493
2	D:332:TRP:HD1	D:333:ASP:H	0.493
2	C:181:LYS:NZ	C:201:ARG:HH21	0.493
2	A:126:THR:HA	A:129:TYR:CD2	0.492
2	A:184:THR:HG23	A:185:ALA:H	0.492
2	A:307:ILE:HG23	A:308:VAL:N	0.492
2	C:50:GLU:CA	C:208:PHE:CD2	0.492
2	C:51:SER:H	C:54:ASN:HB2	0.492
2	C:60:MET:HG3	C:302:LEU:O	0.492
2	C:95:ILE:HG21	C:207:ILE:HB	0.492
2	C:154:TRP:CE3	C:179:LEU:CD2	0.492
2	C:50:GLU:O	C:188:ALA:CB	0.492
2	C:199:ARG:CG	C:200:CYS:N	0.492
2	C:248:VAL:HA	C:283:ARG:HG2	0.492
2	C:322:GLU:HA	C:322:GLU:OE1	0.492
2	D:168:LEU:HB2	D:177:THR:HG22	0.492
2	F:31:SER:HB2	F:75:ASN:HB2	0.492
2	A:241:TRP:O	A:245:LEU:HD12	0.491
2	A:301:PHE:CE1	A:333:LEU:HG	0.491

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:383:ASN:CG	A:384:ASN:H	0.491
2	C:178:PHE:C	C:198:LEU:HG	0.491
2	C:217:VAL:CG1	C:219:PHE:HE1	0.491
2	C:223:ASP:CB	C:293:LYS:NZ	0.491
2	C:188:ALA:O	C:294:GLN:HG3	0.491
2	D:131:GLY:O	D:132:ASN:HB3	0.491
2	C:187:GLN:N	C:207:ILE:O	0.491
2	A:66:LEU:CD2	A:69:ALA:H	0.490
2	A:144:LEU:HD13	D:46:ARG:CG	0.490
2	A:156:ILE:CD1	A:223:VAL:HG23	0.490
2	A:404:ILE:CG2	F:55:SER:CB	0.490
2	C:47:GLY:HA3	C:282:LEU:CA	0.490
2	C:99:LEU:CB	C:178:PHE:CE2	0.490
2	C:187:GLN:CD	D:117:LEU:HD12	0.490
2	C:175:ALA:CB	C:198:LEU:HD12	0.490
2	C:188:ALA:N	C:224:VAL:C	0.490
2	C:245:ILE:HA	C:286:SER:OG	0.490
2	C:246:PHE:CA	C:281:TRP:HB2	0.490
2	D:197:ARG:HG2	D:213:VAL:HG12	0.490
2	D:199:PHE:CD1	D:211:TRP:CB	0.490
2	D:222:PHE:CZ	D:260:GLU:HB3	0.490
2	D:248:ALA:HB3	D:269:ILE:O	0.490
2	F:23:CYS:CB	F:97:CYS:HG	0.490

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	F:24:ALA:O	F:25:ALA:HB3	0.490
2	A:174:LYS:HZ2	A:207:PHE:HD1	0.490
2	A:121:LEU:HD11	A:365:LEU:HD12	0.489
2	C:95:ILE:O	C:95:ILE:HD12	0.489
2	C:107:VAL:HG23	C:196:ASP:OD2	0.489
2	C:177:TYR:CE2	C:300:LYS:CD	0.489
2	C:211:LYS:HE3	C:218:ASN:HD22	0.489
2	C:289:LEU:HD12	C:362:HIS:H	0.489
2	D:93:ILE:HG12	D:94:PRO:N	0.489
2	A:415:CYS:SG	D:37:ILE:N	0.489
2	F:23:CYS:SG	F:35:MET:SD	0.489
2	A:76:HIS:CD2	A:77:VAL:H	0.488
2	A:185:ALA:HB1	A:194:LEU:CD2	0.488
2	A:243:PHE:HA	A:246:TYR:HD1	0.488
2	A:304:VAL:O	A:307:ILE:HG22	0.488
2	C:23:ASN:C	C:26:ILE:HG22	0.488
2	C:110:MET:SD	C:119:LEU:HD21	0.488
2	C:248:VAL:HB	C:306:SER:OG	0.488
2	D:106:ALA:CB	D:151:PHE:CE2	0.488
2	E:1:MET:N	E:15:LEU:CD2	0.488
2	F:30:PHE:C	F:32:ASN:H	0.488
2	F:13:VAL:H	F:126:THR:HG23	0.488
2	D:222:PHE:HE2	D:251:ARG:CD	0.488

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:3:CYS:CA	C:36:VAL:N	0.488
2	F:23:CYS:SG	F:97:CYS:SG	0.488
2	A:60:VAL:CB	A:76:HIS:CD2	0.487
2	A:230:THR:O	A:231:LEU:HB3	0.487
2	A:344:PHE:CE2	A:364:GLU:CG	0.487
2	C:27:GLU:O	C:31:GLN:HB2	0.487
2	C:57:VAL:HG22	C:189:ASP:C	0.487
2	C:102:ALA:CB	C:198:LEU:CB	0.487
2	C:183:ASP:C	C:202:VAL:HG21	0.487
2	C:187:GLN:CA	C:187:GLN:O	0.487
2	C:342:ARG:C	C:344:GLU:H	0.487
2	D:284:LEU:HD21	D:296:VAL:HG13	0.487
2	D:323:ASP:HA	E:54:VAL:HG11	0.487
2	D:336:LEU:HD22	D:337:LYS:O	0.487
2	A:267:LEU:CD1	A:268:TYR:CD1	0.486
2	C:56:ILE:CG2	C:190:TYR:CD1	0.486
2	C:61:ARG:CZ	C:61:ARG:HB3	0.486
2	C:99:LEU:HD22	C:103:ILE:HG21	0.486
2	C:171:LEU:HB2	C:194:ASP:HA	0.486
2	C:300:LYS:HE2	C:303:ALA:CB	0.486
2	C:290:PHE:CD2	C:362:HIS:HB3	0.486
2	D:37:ILE:HD11	D:268:ASN:OD1	0.486
2	E:12:ALA:O	E:13:ARG:HB3	0.486

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	F:2:GLN:CD	F:3:VAL:H	0.486
2	C:81:ARG:NE	C:87:GLU:H	0.486
2	A:39:CYS:SG	A:81:CYS:SG	0.486
2	A:312:LEU:HD12	A:326:LEU:HD23	0.485
2	A:409:SER:HA	A:411:LYS:O	0.485
2	C:51:SER:HA	C:207:ILE:CG2	0.485
2	C:250:SER:HB3	C:295:ASP:OD2	0.485
2	C:281:TRP:CE3	C:290:PHE:HD2	0.485
2	C:245:ILE:N	C:286:SER:CB	0.485
2	C:201:ARG:HH12	C:296:LEU:HD23	0.485
2	D:56:ALA:HB1	D:75:GLN:CB	0.485
2	D:165:THR:O	D:165:THR:HG23	0.485
2	D:229:ILE:O	D:229:ILE:HG22	0.485
2	F:30:PHE:CG	F:78:ASN:CB	0.485
2	F:96:TYR:CE1	F:119:ARG:HD2	0.485
2	F:111:VAL:O	F:111:VAL:HG12	0.485
2	A:255:LEU:HD23	A:259:VAL:CG2	0.484
2	A:329:SER:O	A:333:LEU:HD22	0.484
2	A:343:ILE:HG12	A:347:VAL:HG12	0.484
2	A:404:ILE:CG2	F:55:SER:HB3	0.484
2	C:175:ALA:CB	C:195:GLN:H	0.484
2	C:177:TYR:C	C:201:ARG:CZ	0.484
2	C:185:ILE:HD13	C:205:SER:H	0.484

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:186:LYS:C	C:208:PHE:O	0.484
2	C:248:VAL:HG11	C:268:ALA:CB	0.484
2	C:286:SER:CB	C:287:VAL:H	0.484
2	C:296:LEU:HD12	C:299:GLU:CA	0.484
2	A:149:LEU:CB	C:392:GLU:HB2	0.484
2	D:34:THR:CG2	D:35:ASN:N	0.484
2	D:133:VAL:HG13	D:134:ARG:H	0.484
2	D:190:LEU:CD2	D:199:PHE:CE2	0.484
2	F:74:ASP:OD2	F:79:THR:HG22	0.484
2	F:93:ALA:N	F:127:VAL:CB	0.484
2	C:239:ASN:ND2	C:240:ASP:H	0.484
2	A:207:PHE:HE2	A:261:TRP:CZ2	0.483
2	A:416:PRO:HD3	D:270:ILE:HD12	0.483
2	C:46:LEU:CG	C:286:SER:CA	0.483
2	C:72:GLY:C	C:76:ASP:HB3	0.483
2	C:75:GLU:CB	C:190:TYR:CB	0.483
2	C:177:TYR:CB	C:296:LEU:CB	0.483
2	C:178:PHE:CD1	C:201:ARG:NE	0.483
2	C:95:ILE:CG1	C:207:ILE:HD11	0.483
2	C:250:SER:C	C:300:LYS:NZ	0.483
2	F:46:LEU:HD12	F:111:VAL:HG13	0.483
2	C:290:PHE:HD1	C:364:THR:CG2	0.483
2	A:18:GLU:C	A:20:ARG:H	0.482

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:70:SER:O	A:71:SER:HB2	0.482
2	A:298:PHE:O	A:301:PHE:HB3	0.482
2	C:95:ILE:CB	C:207:ILE:HG12	0.482
2	C:107:VAL:HB	C:199:ARG:NH1	0.482
2	C:187:GLN:C	C:187:GLN:CB	0.482
2	C:172:ILE:H	C:194:ASP:CA	0.482
2	D:126:LEU:H	D:133:VAL:CG1	0.482
2	D:153:ASP:CG	D:156:GLN:H	0.482
2	D:190:LEU:CD2	D:199:PHE:CD2	0.482
2	F:80:LEU:C	F:80:LEU:HD23	0.482
2	F:93:ALA:H	F:127:VAL:HG21	0.482
2	C:46:LEU:CB	C:283:ARG:CA	0.481
2	C:46:LEU:HD13	C:246:PHE:H	0.481
2	C:46:LEU:HD23	C:286:SER:H	0.481
2	C:198:LEU:O	C:198:LEU:HD23	0.481
2	C:203:LEU:HD22	C:204:THR:OG1	0.481
2	C:283:ARG:HH12	C:294:GLN:CD	0.481
2	C:315:PHE:CE1	C:336:ARG:HG2	0.481
2	D:23:LYS:HD3	D:28:ALA:CB	0.481
2	D:23:LYS:CG	D:28:ALA:HB3	0.481
2	D:329:THR:HG23	D:337:LYS:HB2	0.481
2	D:88:ASN:ND2	D:89:LYS:N	0.481
2	C:44:LEU:CD2	C:45:LEU:N	0.480

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:51:SER:CA	C:188:ALA:N	0.480
2	C:62:ILE:HG23	C:64:HIS:H	0.480
2	C:83:ASN:HB3	C:87:GLU:C	0.480
2	C:246:PHE:CG	C:289:LEU:HA	0.480
2	C:291:LEU:N	C:291:LEU:HD12	0.480
2	C:298:ALA:C	C:301:VAL:HG22	0.480
2	D:105:TYR:HD1	D:112:VAL:HG22	0.480
2	D:215:GLU:HA	D:215:GLU:OE2	0.480
2	A:415:CYS:SG	D:270:ILE:CG2	0.480
2	A:404:ILE:CA	F:57:ALA:HB2	0.480
2	A:46:TYR:CZ	A:63:PRO:HG3	0.479
2	A:398:ARG:HH22	A:403:HIS:CE1	0.479
2	C:44:LEU:HG	C:222:PHE:CD2	0.479
2	C:59:GLN:CG	C:174:CYS:N	0.479
2	C:88:LYS:CD	D:144:GLY:N	0.479
2	C:188:ALA:C	C:294:GLN:HA	0.479
2	C:207:ILE:HA	C:207:ILE:HD12	0.479
2	C:211:LYS:HD3	C:220:HIS:ND1	0.479
2	C:374:ARG:HA	C:374:ARG:HD3	0.479
2	D:59:TYR:O	D:60:ALA:HB2	0.479
2	D:332:TRP:CD1	D:333:ASP:N	0.479
2	F:79:THR:O	F:79:THR:HG23	0.479
2	C:59:GLN:NE2	C:253:TYR:H	0.479

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:265:ARG:N	C:265:ARG:NE	0.479
2	D:225:HIS:N	D:251:ARG:NH1	0.479
2	A:68:TRP:CH2	B:20:LYS:CE	0.478
2	A:305:ILE:O	A:308:VAL:HG12	0.478
2	C:2:GLY:HA3	C:33:ASP:OD1	0.478
2	C:22:ALA:C	C:24:LYS:H	0.478
2	C:82:SER:C	C:91:LYS:CG	0.478
2	C:101:GLU:O	C:104:GLU:HG2	0.478
2	C:211:LYS:CD	C:220:HIS:CE1	0.478
2	C:46:LEU:CD1	C:280:LYS:C	0.478
2	D:27:ASP:O	D:28:ALA:HB2	0.478
2	D:292:PHE:CZ	D:311:HIS:HD2	0.478
2	E:6:THR:CG2	E:7:ALA:H	0.478
2	A:23:CYS:SG	A:43:PHE:CD1	0.477
2	A:80:PHE:HD2	A:88:LEU:CD2	0.477
2	A:257:PHE:CD1	A:258:VAL:N	0.477
2	A:327:ALA:O	A:330:THR:HG22	0.477
2	C:34:LYS:HA	D:55:LEU:HD13	0.477
2	C:43:LEU:N	C:43:LEU:HD23	0.477
2	C:55:THR:HB	C:95:ILE:HB	0.477
2	C:117:VAL:CG2	C:162:CYS:SG	0.477
2	C:127:ARG:HD2	C:127:ARG:O	0.477
2	C:178:PHE:HB3	C:198:LEU:HD11	0.477

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:185:ILE:O	C:205:SER:HA	0.477
2	C:211:LYS:HE3	C:218:ASN:HB2	0.477
2	C:343:ASP:HA	C:346:LEU:HB2	0.477
2	D:37:ILE:CD1	D:268:ASN:HA	0.477
2	D:320:VAL:HA	D:327:VAL:HG22	0.477
2	E:15:LEU:C	E:15:LEU:HD12	0.477
2	E:24:ASN:O	E:25:ILE:HD12	0.477
2	F:11:GLY:H	F:125:VAL:HA	0.477
2	C:257:ILE:CG1	C:258:ARG:H	0.477
2	C:246:PHE:O	C:290:PHE:N	0.477
2	C:154:TRP:CB	C:200:CYS:HG	0.477
2	A:261:TRP:CZ3	A:283:TRP:HA	0.476
2	C:53:LYS:CD	C:91:LYS:HE3	0.476
2	C:72:GLY:HA3	C:76:ASP:O	0.476
2	C:181:LYS:N	C:201:ARG:CZ	0.476
2	C:213:GLN:HB3	C:218:ASN:CB	0.476
2	C:246:PHE:HA	C:281:TRP:N	0.476
2	C:267:GLN:HG3	C:283:ARG:CZ	0.476
2	C:281:TRP:CZ2	C:290:PHE:CE2	0.476
2	C:321:PRO:CB	C:339:TYR:CE2	0.476
2	C:379:CYS:C	C:381:ASP:H	0.476
2	D:153:ASP:CB	E:61:PHE:CD2	0.476
2	D:228:ASP:O	D:245:SER:HB2	0.476

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:45:MET:H	D:309:ALA:HB3	0.476
2	D:34:THR:N	F:29:THR:CG2	0.476
2	F:35:MET:HG2	F:36:ASN:H	0.476
2	C:106:ILE:CD1	C:163:TYR:N	0.476
2	A:147:ARG:CG	A:148:HIS:N	0.475
2	A:152:THR:HG21	A:238:SER:HB2	0.475
2	A:178:LEU:HD23	B:14:LEU:HD23	0.475
2	A:239:GLU:OE1	A:242:ILE:HG22	0.475
2	A:301:PHE:HB2	A:337:LEU:HD21	0.475
2	A:332:THR:HG23	A:333:LEU:N	0.475
2	C:46:LEU:CD1	C:286:SER:OG	0.475
2	C:106:ILE:CA	C:196:ASP:H	0.475
2	C:117:VAL:HB	C:162:CYS:SG	0.475
2	C:186:LYS:CA	C:205:SER:CB	0.475
2	C:223:ASP:HB2	C:293:LYS:NZ	0.475
2	C:180:ASP:CB	C:296:LEU:HD21	0.475
2	D:292:PHE:CE2	D:311:HIS:N	0.475
2	F:125:VAL:CG1	F:126:THR:H	0.475
2	A:174:LYS:CD	A:210:MET:SD	0.475
2	A:158:LEU:HB2	D:46:ARG:HH21	0.474
2	A:414:LYS:HD2	A:414:LYS:N	0.474
2	C:46:LEU:CG	C:283:ARG:CA	0.474
2	C:57:VAL:CG1	C:295:ASP:N	0.474

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:55:THR:CG2	C:91:LYS:HB3	0.474
2	C:107:VAL:HB	C:196:ASP:OD2	0.474
2	C:119:LEU:N	C:119:LEU:HD23	0.474
2	C:124:ASN:CB	C:153:LEU:HD11	0.474
2	C:223:ASP:CG	C:293:LYS:CE	0.474
2	C:271:LYS:CA	C:280:LYS:HG3	0.474
2	D:18:ILE:HD11	E:23:ALA:HB1	0.474
2	D:139:LEU:CD2	D:169:TRP:CZ3	0.474
2	D:51:LEU:CB	D:336:LEU:HB3	0.474
2	E:6:THR:CG2	E:7:ALA:N	0.474
2	F:1:MET:HE1	F:4:GLN:NE2	0.474
2	A:127:VAL:HG13	A:131:LEU:HD21	0.473
2	A:191:TRP:HE3	B:22:PHE:CE1	0.473
2	C:115:PRO:CG	C:165:ARG:HH12	0.473
2	C:184:VAL:HA	C:209:GLU:C	0.473
2	C:51:SER:CB	C:187:GLN:CA	0.473
2	C:160:ARG:N	C:197:LEU:HD21	0.473
2	C:60:MET:O	C:251:SER:HA	0.473
2	C:293:LYS:C	C:293:LYS:CD	0.473
2	C:356:ARG:C	C:356:ARG:HD3	0.473
2	D:210:LEU:O	D:218:CYS:HB2	0.473
2	D:292:PHE:CD2	D:293:ASN:HA	0.473
2	D:297:TRP:CD1	D:298:ASP:N	0.473

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:239:ASN:HD22	C:240:ASP:N	0.473
2	D:61:MET:N	D:317:CYS:SG	0.473
2	A:13:VAL:CG2	A:191:TRP:HZ2	0.472
2	A:135:ALA:O	A:136:LEU:HB2	0.472
2	A:156:ILE:HG12	A:224:GLU:HG3	0.472
2	C:50:GLU:C	C:188:ALA:CB	0.472
2	C:53:LYS:HE3	C:81:ARG:CB	0.472
2	C:55:THR:HG22	C:91:LYS:O	0.472
2	C:183:ASP:HB2	C:211:LYS:HG2	0.472
2	C:185:ILE:C	C:205:SER:HA	0.472
2	C:283:ARG:C	C:283:ARG:CD	0.472
2	D:111:TYR:N	D:126:LEU:CD1	0.472
2	D:131:GLY:C	D:132:ASN:HD22	0.472
2	D:190:LEU:CD2	D:191:SER:N	0.472
2	D:251:ARG:HB2	D:260:GLU:OE1	0.472
2	F:30:PHE:CB	F:78:ASN:CB	0.472
2	A:213:CYS:SG	A:214:VAL:N	0.472
2	C:72:GLY:N	C:76:ASP:N	0.472
2	D:47:THR:CG2	D:48:ARG:N	0.472
2	A:141:ALA:C	D:44:GLN:HB2	0.471
2	A:156:ILE:O	A:156:ILE:HG12	0.471
2	C:47:GLY:C	C:297:LEU:CA	0.471
2	C:55:THR:CB	C:95:ILE:HA	0.471

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:88:LYS:CE	D:144:GLY:N	0.471
2	C:117:VAL:CB	C:162:CYS:SG	0.471
2	C:182:ILE:HD11	C:185:ILE:CD1	0.471
2	C:182:ILE:HD13	C:201:ARG:C	0.471
2	C:178:PHE:O	C:201:ARG:HB2	0.471
2	C:183:ASP:N	C:202:VAL:CG2	0.471
2	C:282:LEU:HB2	C:286:SER:OG	0.471
2	C:248:VAL:CG2	C:305:LYS:HB2	0.471
2	D:222:PHE:CD1	D:253:PHE:CE1	0.471
2	E:57:SER:C	E:59:ASN:N	0.471
2	A:184:THR:CG2	A:185:ALA:N	0.471
2	C:102:ALA:CB	C:195:GLN:N	0.471
2	C:239:ASN:ND2	C:240:ASP:N	0.471
2	D:148:CYS:SG	D:149:CYS:N	0.471
2	A:275:THR:HG21	B:11:SER:OG	0.470
2	A:301:PHE:HB2	A:337:LEU:CD2	0.470
2	C:52:GLY:CA	C:188:ALA:C	0.470
2	C:82:SER:CB	C:226:ALA:CB	0.470
2	C:124:ASN:O	C:153:LEU:HD11	0.470
2	C:173:ASP:HB2	C:253:TYR:CB	0.470
2	C:106:ILE:HB	C:196:ASP:HB2	0.470
2	C:249:ALA:CA	C:293:LYS:O	0.470
2	C:173:ASP:N	C:253:TYR:CB	0.470

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:292:ASN:CA	C:305:LYS:CA	0.470
2	D:143:THR:O	D:163:ASP:HB2	0.470
2	F:93:ALA:C	F:127:VAL:HG23	0.470
2	A:189:HIS:ND1	A:190:GLN:N	0.470
2	C:127:ARG:NH2	C:128:VAL:CG2	0.470
2	C:257:ILE:CG1	C:258:ARG:N	0.470
2	E:68:CYS:SG	E:69:ALA:N	0.470
2	A:62:CYS:SG	A:72:VAL:CG1	0.469
2	A:232:LEU:O	A:232:LEU:HD23	0.469
2	C:83:ASN:HB2	C:88:LYS:N	0.469
2	C:84:SER:N	C:91:LYS:HG2	0.469
2	C:182:ILE:CD1	C:203:LEU:N	0.469
2	C:191:VAL:CG1	C:192:PRO:CD	0.469
2	C:248:VAL:HB	C:306:SER:HB2	0.469
2	C:250:SER:C	C:300:LYS:H22	0.469
2	C:60:MET:N	C:251:SER:CA	0.469
2	A:141:ALA:CB	D:44:GLN:HB2	0.469
2	D:105:TYR:CD1	D:112:VAL:HG22	0.469
2	D:120:ILE:CD1	D:140:ALA:HB2	0.469
2	A:285:ILE:CG2	A:286:ILE:N	0.469
2	A:66:LEU:CD1	A:69:ALA:HA	0.468
2	A:220:TRP:O	A:221:LEU:HB2	0.468
2	A:152:THR:CG2	A:238:SER:CB	0.468

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:191:TRP:HZ3	B:22:PHE:CD1	0.468
2	C:44:LEU:HD23	C:45:LEU:N	0.468
2	C:176:GLN:HA	C:179:LEU:CB	0.468
2	C:321:PRO:HG3	C:339:TYR:CE2	0.468
2	D:4:LEU:HB2	E:9:ILE:HD12	0.468
2	D:117:LEU:HD22	D:145:TYR:HB2	0.468
2	D:289:TYR:CE2	D:295:ASN:HB3	0.468
2	F:52:ILE:HD12	F:59:ILE:CB	0.468
2	D:233:CYS:HG	D:278:PHE:HD1	0.468
2	A:16:TRP:C	A:18:GLU:H	0.467
2	A:255:LEU:HA	A:258:VAL:HG12	0.467
2	A:299:LEU:C	A:299:LEU:HD22	0.467
2	B:20:LYS:HD3	B:23:ILE:HG22	0.467
2	C:83:ASN:CA	C:91:LYS:N	0.467
2	C:181:LYS:HD2	C:201:ARG:HD3	0.467
2	C:187:GLN:C	C:224:VAL:N	0.467
2	C:267:GLN:CB	C:283:ARG:CZ	0.467
2	D:48:ARG:HG2	D:49:ARG:N	0.467
2	D:155:ASN:CA	D:171:ILE:HG22	0.467
2	D:183:HIS:NE2	D:205:ASP:CB	0.467
2	D:120:ILE:O	D:120:ILE:HG23	0.467
2	A:274:TRP:CZ2	A:282:TYR:CD2	0.466
2	A:305:ILE:HA	A:308:VAL:HG12	0.466

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:45:LEU:CD1	C:221:MET:CB	0.466
2	C:50:GLU:CG	C:208:PHE:CG	0.466
2	C:50:GLU:HG3	C:208:PHE:CE1	0.466
2	C:211:LYS:CD	C:220:HIS:ND1	0.466
2	C:219:PHE:HB3	C:221:MET:SD	0.466
2	C:223:ASP:CG	C:224:VAL:N	0.466
2	C:256:VAL:HG13	C:257:ILE:O	0.466
2	C:283:ARG:CA	C:293:LYS:HB3	0.466
2	C:289:LEU:HG	C:361:PRO:CA	0.466
2	C:321:PRO:CG	C:339:TYR:CD2	0.466
2	C:341:ILE:CG2	C:342:ARG:N	0.466
2	C:371:ASN:O	C:375:VAL:HG23	0.466
2	D:23:LYS:HB2	D:27:ASP:N	0.466
2	A:253:VAL:N	A:254:PRO:CD	0.466
2	C:60:MET:CG	C:61:ARG:N	0.466
2	C:95:ILE:CG2	C:96:LYS:N	0.466
2	A:76:HIS:CD2	A:77:VAL:N	0.465
2	A:81:CYS:HG	A:87:TRP:CD1	0.465
2	A:147:ARG:CD	A:148:HIS:N	0.465
2	A:319:LYS:HE3	A:325:ARG:HD3	0.465
2	A:377:ILE:CG2	A:381:PHE:CE2	0.465
2	A:394:TRP:O	A:397:TRP:HB3	0.465
2	C:30:LEU:O	C:34:LYS:HG3	0.465

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:49:GLY:C	C:50:GLU:CG	0.465
2	C:50:GLU:CG	C:181:LYS:CB	0.465
2	C:65:VAL:CG1	C:66:ASN:N	0.465
2	C:185:ILE:CG1	C:207:ILE:CD1	0.465
2	C:272:LEU:O	C:272:LEU:HD22	0.465
2	C:346:LEU:CD2	C:346:LEU:N	0.465
2	C:13:ARG:CG	C:14:ASN:N	0.465
2	A:62:CYS:CB	A:63:PRO:CD	0.464
2	A:377:ILE:HG13	A:381:PHE:CZ	0.464
2	B:20:LYS:NZ	B:23:ILE:HG21	0.464
2	C:54:ASN:C	C:95:ILE:HB	0.464
2	C:58:LYS:C	C:177:TYR:CD2	0.464
2	C:58:LYS:HA	C:177:TYR:CE1	0.464
2	C:88:LYS:CD	D:144:GLY:H	0.464
2	C:95:ILE:CG1	C:207:ILE:CD1	0.464
2	C:189:ASP:CA	C:294:GLN:CG	0.464
2	C:246:PHE:C	C:246:PHE:CD1	0.464
2	C:245:ILE:N	C:286:SER:HB2	0.464
2	D:106:ALA:HA	D:151:PHE:CE2	0.464
2	D:282:GLY:C	D:284:LEU:H	0.464
2	C:217:VAL:O	C:217:VAL:HG13	0.464
2	A:23:CYS:SG	A:48:CYS:CB	0.463
2	A:129:TYR:C	A:129:TYR:CD1	0.463

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:342:VAL:CG2	A:343:ILE:N	0.463
2	A:430:MET:HG2	A:431:TYR:H	0.463
2	C:62:ILE:CG2	C:64:HIS:N	0.463
2	C:67:GLY:HA3	C:257:ILE:HD12	0.463
2	C:83:ASN:CB	C:87:GLU:C	0.463
2	C:127:ARG:NH2	C:128:VAL:HA	0.463
2	C:159:VAL:CG2	C:160:ARG:N	0.463
2	C:59:GLN:CA	C:174:CYS:CA	0.463
2	C:246:PHE:C	C:281:TRP:CB	0.463
2	C:248:VAL:HG23	C:305:LYS:CB	0.463
2	C:253:TYR:CG	C:254:ASN:N	0.463
2	C:292:ASN:HB3	C:305:LYS:CB	0.463
2	C:296:LEU:N	C:300:LYS:HB2	0.463
2	C:263:THR:OG1	C:307:LYS:HD3	0.463
2	D:4:LEU:CG	E:9:ILE:HD11	0.463
2	D:22:ARG:HD2	E:27:ARG:HD3	0.463
2	D:55:LEU:C	D:55:LEU:HD23	0.463
2	D:281:SER:CA	E:44:HIS:CD2	0.463
2	F:31:SER:HA	F:73:ARG:NH2	0.463
2	A:121:LEU:C	A:121:LEU:HD13	0.462
2	A:138:ILE:CG2	A:139:ALA:N	0.462
2	A:152:THR:O	A:155:TYR:HB3	0.462
2	A:347:VAL:O	A:348:MET:HB2	0.462

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:407:ASP:CB	A:413:LEU:HG	0.462
2	A:412:PRO:C	F:104:PHE:HD1	0.462
2	C:159:VAL:CG1	C:199:ARG:NH2	0.462
2	C:289:LEU:CD1	C:361:PRO:CB	0.462
2	C:293:LYS:CD	C:294:GLN:N	0.462
2	C:301:VAL:HG23	C:368:ASP:CG	0.462
2	C:88:LYS:NZ	D:144:GLY:HA2	0.462
2	D:192:LEU:C	D:234:PHE:CE1	0.462
2	D:222:PHE:CE1	D:259:GLN:HA	0.462
2	D:323:ASP:OD1	D:325:MET:HB2	0.462
2	D:50:THR:CB	D:335:PHE:CZ	0.462
2	F:23:CYS:SG	F:35:MET:HE1	0.462
2	A:225:GLY:HA3	A:300:ILE:CD1	0.461
2	A:246:TYR:CE2	A:247:VAL:HG22	0.461
2	C:58:LYS:CD	C:98:ASN:HB3	0.461
2	C:62:ILE:CG2	C:64:HIS:H	0.461
2	C:208:PHE:CE2	C:223:ASP:N	0.461
2	C:276:ILE:CG2	C:277:TRP:N	0.461
2	D:80:ILE:HB	D:89:LYS:HE3	0.461
2	F:30:PHE:O	F:31:SER:HB3	0.461
2	F:65:VAL:CG1	F:69:PHE:HD1	0.461
2	A:152:THR:HG22	A:238:SER:OG	0.460
2	A:206:VAL:HG13	A:207:PHE:N	0.460

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:276:ARG:HD3	A:278:SER:OG	0.460
2	C:59:GLN:HA	C:174:CYS:HB3	0.460
2	C:106:ILE:CG2	C:107:VAL:N	0.460
2	C:127:ARG:HH12	C:131:ILE:CG2	0.460
2	C:178:PHE:CD2	C:198:LEU:HD21	0.460
2	C:186:LYS:C	C:186:LYS:CB	0.460
2	C:208:PHE:CG	C:222:PHE:C	0.460
2	C:223:ASP:CB	C:293:LYS:HZ1	0.460
2	C:290:PHE:CZ	C:371:ASN:CG	0.460
2	C:295:ASP:CB	C:300:LYS:HZ1	0.460
2	D:63:TRP:HE3	D:70:LEU:HD13	0.460
2	D:79:LEU:HB2	D:95:LEU:HD21	0.460
2	D:197:ARG:HD2	D:198:LEU:HD23	0.460
2	F:126:THR:OG1	F:127:VAL:HG13	0.460
2	D:123:ILE:CG1	D:124:TYR:N	0.460
2	F:5:LEU:CD2	F:5:LEU:N	0.460
2	A:16:TRP:CH2	A:45:GLU:HB3	0.459
2	C:50:GLU:CD	C:201:ARG:NH2	0.459
2	C:153:LEU:CB	C:199:ARG:NE	0.459
2	C:183:ASP:C	C:184:VAL:HG12	0.459
2	C:183:ASP:O	C:202:VAL:HG21	0.459
2	C:290:PHE:CE1	C:371:ASN:ND2	0.459
2	D:18:ILE:HD11	E:23:ALA:CA	0.459

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:56:ALA:CB	D:76:ASP:H	0.459
2	D:103:CYS:CB	D:114:CYS:SG	0.459
2	D:190:LEU:HD22	D:191:SER:N	0.459
2	D:204:CYS:CB	D:228:ASP:CB	0.459
2	E:40:TYR:HH	E:44:HIS:CE1	0.459
2	A:41:ARG:O	A:42:THR:HG23	0.458
2	A:118:LEU:HA	A:118:LEU:HD13	0.458
2	A:245:LEU:HA	A:248:SER:OG	0.458
2	A:392:LYS:HA	A:405:GLN:NE2	0.458
2	C:53:LYS:CG	C:81:ARG:CB	0.458
2	C:75:GLU:HB3	C:190:TYR:HB2	0.458
2	C:166:SER:CB	C:171:LEU:CD2	0.458
2	C:151:LYS:N	C:200:CYS:CA	0.458
2	C:210:THR:CB	C:221:MET:HB2	0.458
2	C:224:VAL:HB	C:227:GLN:OE1	0.458
2	C:227:GLN:HE22	C:231:ARG:HD2	0.458
2	C:281:TRP:CH2	C:375:VAL:HG22	0.458
2	D:20:ASP:O	D:26:ALA:HB2	0.458
2	D:42:ARG:HG3	D:304:ARG:NH1	0.458
2	F:34:LYS:CE	F:53:SER:HA	0.458
2	D:297:TRP:HD1	D:298:ASP:N	0.458
2	A:355:THR:CG2	A:356:LEU:N	0.458
2	A:60:VAL:C	A:76:HIS:CG	0.457

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:71:SER:HB3	A:107:LYS:O	0.457
2	A:374:MET:HA	A:377:ILE:CG2	0.457
2	A:418:SER:HB2	D:263:THR:CB	0.457
2	A:211:GLN:HE22	B:1:HIS:HB2	0.457
2	C:43:LEU:CB	C:45:LEU:HD11	0.457
2	C:53:LYS:HG2	C:81:ARG:CB	0.457
2	C:55:THR:OG1	C:95:ILE:HA	0.457
2	C:103:ILE:HD11	C:131:ILE:CB	0.457
2	C:127:ARG:HE	C:153:LEU:CG	0.457
2	C:182:ILE:HG21	C:201:ARG:CA	0.457
2	C:186:LYS:HG2	D:97:SER:CA	0.457
2	C:174:CYS:SG	C:194:ASP:HB2	0.457
2	C:223:ASP:HB2	C:293:LYS:HZ3	0.457
2	C:231:ARG:NH2	C:235:ILE:CD1	0.457
2	C:298:ALA:O	C:302:LEU:HD23	0.457
2	C:321:PRO:CD	C:339:TYR:CD2	0.457
2	D:34:THR:N	F:29:THR:HG21	0.457
2	F:95:TYR:CZ	F:97:CYS:HA	0.457
2	C:83:ASN:ND2	C:90:THR:H	0.457
2	C:88:LYS:NZ	C:227:GLN:N	0.457
2	C:247:VAL:N	C:280:LYS:O	0.457
2	E:30:VAL:CG1	E:31:SER:N	0.457
2	F:125:VAL:CG1	F:126:THR:N	0.457

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:1:ARG:HB3	A:2:PRO:CD	0.456
2	A:141:ALA:HB1	D:44:GLN:CB	0.456
2	A:146:PHE:HA	D:291:ASP:CB	0.456
2	A:407:ASP:HB2	A:413:LEU:HG	0.456
2	A:412:PRO:C	F:104:PHE:CD1	0.456
2	C:43:LEU:CB	C:45:LEU:CD1	0.456
2	C:46:LEU:CB	C:282:LEU:O	0.456
2	C:90:THR:O	C:93:GLN:HB2	0.456
2	C:177:TYR:CD1	C:177:TYR:O	0.456
2	C:178:PHE:HE1	C:181:LYS:CD	0.456
2	C:185:ILE:CG2	C:203:LEU:CA	0.456
2	C:151:LYS:N	C:200:CYS:CB	0.456
2	C:222:PHE:CE1	C:238:PHE:CZ	0.456
2	C:258:ARG:HD2	C:259:GLU:OE1	0.456
2	C:46:LEU:CD2	C:285:THR:C	0.456
2	C:281:TRP:HZ3	C:288:ILE:HD12	0.456
2	C:338:LYS:O	C:341:ILE:HG22	0.456
2	D:49:ARG:CB	D:338:ILE:CG2	0.456
2	D:117:LEU:C	D:117:LEU:HD13	0.456
2	D:332:TRP:O	D:333:ASP:HB3	0.456
2	A:60:VAL:CG1	A:61:SER:H	0.456
2	A:191:TRP:HE1	A:195:LEU:CD2	0.456
2	A:81:CYS:HA	A:87:TRP:HA	0.455

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:219:TYR:OH	A:249:ILE:HG22	0.455
2	C:51:SER:CA	C:207:ILE:O	0.455
2	C:57:VAL:HG13	C:189:ASP:CB	0.455
2	C:172:ILE:CG2	C:173:ASP:N	0.455
2	C:185:ILE:HD12	C:203:LEU:O	0.455
2	C:271:LYS:HA	C:280:LYS:HG3	0.455
2	C:280:LYS:CD	C:284:ASP:CB	0.455
2	C:265:ARG:NE	C:309:GLU:HB3	0.455
2	D:51:LEU:HD11	D:82:TRP:CB	0.455
2	D:318:LEU:HD22	D:329:THR:HB	0.455
2	F:69:PHE:HD2	F:82:LEU:CD1	0.455
2	C:281:TRP:HZ2	C:371:ASN:CB	0.455
2	A:124:ILE:CG2	A:125:TYR:N	0.455
2	C:83:ASN:N	C:91:LYS:CG	0.455
2	C:155:GLU:CG	C:156:ASP:N	0.455
2	C:369:THR:CG2	C:370:GLU:N	0.455
2	A:118:LEU:HD12	A:121:LEU:HD12	0.454
2	A:225:GLY:CA	A:300:ILE:CD1	0.454
2	A:275:THR:CG2	B:11:SER:CB	0.454
2	C:44:LEU:HD12	C:238:PHE:CB	0.454
2	C:49:GLY:N	C:50:GLU:CD	0.454
2	C:58:LYS:CD	C:95:ILE:CD1	0.454
2	C:96:LYS:HD2	C:142:PHE:HB2	0.454

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:171:LEU:HD13	C:194:ASP:OD2	0.454
2	C:175:ALA:C	C:177:TYR:H	0.454
2	C:202:VAL:CG2	C:203:LEU:N	0.454
2	C:224:VAL:CG2	C:285:THR:CG2	0.454
2	C:362:HIS:CG	C:363:PHE:N	0.454
2	C:387:HIS:CE1	C:390:GLN:NE2	0.454
2	D:65:THR:CG2	D:66:ASP:N	0.454
2	D:80:ILE:CD1	D:89:LYS:CG	0.454
2	D:106:ALA:CA	D:151:PHE:CE2	0.454
2	D:288:GLY:HA3	D:315:VAL:HG21	0.454
2	E:48:ASP:CB	E:49:PRO:CD	0.454
2	F:46:LEU:HD21	F:111:VAL:CA	0.454
2	D:173:THR:CG2	D:174:GLY:N	0.454
2	A:120:PHE:C	A:122:TYR:H	0.453
2	A:147:ARG:HD2	A:148:HIS:O	0.453
2	A:244:ARG:O	A:245:LEU:HB2	0.453
2	A:265:LYS:HD2	A:274:TRP:CB	0.453
2	A:298:PHE:HB2	A:342:VAL:HG11	0.453
2	A:318:CYS:CB	C:358:TYR:HE1	0.453
2	C:56:ILE:CG2	C:91:LYS:CE	0.453
2	C:61:ARG:HG3	C:258:ARG:NH1	0.453
2	C:178:PHE:O	C:198:LEU:HD23	0.453
2	C:184:VAL:CA	C:209:GLU:CA	0.453

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:46:LEU:CD2	C:283:ARG:C	0.453
2	C:308:ILE:N	C:308:ILE:HD12	0.453
2	C:342:ARG:O	C:343:ASP:HB3	0.453
2	D:102:THR:HG21	D:148:CYS:HA	0.453
2	D:121:CYS:HB2	D:146:LEU:HD12	0.453
2	D:210:LEU:CD1	D:255:LEU:CD1	0.453
2	F:36:ASN:HB3	F:51:ASP:CB	0.453
2	C:185:ILE:CD1	C:205:SER:H	0.453
2	A:361:LEU:CD1	A:365:LEU:CD1	0.452
2	A:405:GLN:CD	A:405:GLN:H	0.452
2	C:45:LEU:HD13	C:221:MET:HB3	0.452
2	C:46:LEU:C	C:293:LYS:CG	0.452
2	C:51:SER:N	C:54:ASN:CB	0.452
2	D:51:LEU:HG	D:82:TRP:CG	0.452
2	D:104:ALA:C	D:151:PHE:HE1	0.452
2	D:117:LEU:CA	D:145:TYR:CD1	0.452
2	D:153:ASP:CB	E:61:PHE:CG	0.452
2	F:82:LEU:HD23	F:84:MET:HG3	0.452
2	C:57:VAL:HG12	C:177:TYR:OH	0.451
2	C:59:GLN:HG2	C:60:MET:H	0.451
2	C:88:LYS:HD3	D:143:THR:CA	0.451
2	C:177:TYR:HA	C:296:LEU:HB2	0.451
2	C:272:LEU:C	C:272:LEU:HD22	0.451

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:274:ASP:CG	C:277:TRP:HB3	0.451
2	D:51:LEU:CD1	D:82:TRP:CB	0.451
2	D:129:ARG:CG	D:130:GLU:N	0.451
2	D:222:PHE:HZ	D:260:GLU:HB3	0.451
2	F:25:ALA:HB3	F:78:ASN:ND2	0.451
2	F:30:PHE:CE2	F:73:ARG:CG	0.451
2	C:295:ASP:CA	C:300:LYS:NZ	0.451
2	A:49:TRP:HA	A:50:PRO:HD2	0.450
2	A:80:PHE:HB3	A:88:LEU:CG	0.450
2	A:144:LEU:CD1	A:158:LEU:CD1	0.450
2	A:218:TYR:HB2	A:290:ILE:CG1	0.450
2	A:265:LYS:HG3	A:274:TRP:CE3	0.450
2	A:356:LEU:N	A:356:LEU:HD23	0.450
2	C:46:LEU:HD12	C:286:SER:N	0.450
2	C:95:ILE:HG12	C:178:PHE:CE1	0.450
2	C:105:THR:HG21	C:195:GLN:NE2	0.450
2	C:187:GLN:HB3	C:224:VAL:N	0.450
2	C:246:PHE:N	C:281:TRP:HB3	0.450
2	D:22:ARG:HD2	E:27:ARG:CD	0.450
2	D:80:ILE:CD1	D:89:LYS:CD	0.450
2	D:120:ILE:CG1	D:138:GLU:HB2	0.450
2	D:297:TRP:CD1	D:302:ALA:HA	0.450
2	F:34:LYS:HB3	F:54:GLN:N	0.450

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	F:94:VAL:CG1	F:129:SER:N	0.450
2	C:211:LYS:CE	C:218:ASN:ND2	0.450
2	C:225:GLY:O	C:227:GLN:N	0.450
2	A:64:TRP:C	A:66:LEU:H	0.449
2	A:117:GLN:HG3	A:118:LEU:N	0.449
2	A:144:LEU:CD1	D:46:ARG:CG	0.449
2	A:222:LEU:HA	A:297:ASN:OD1	0.449
2	A:288:LEU:O	A:288:LEU:HD13	0.449
2	B:4:GLY:HA2	B:7:THR:HG22	0.449
2	C:17:LYS:O	C:20:ARG:HG2	0.449
2	C:30:LEU:O	C:30:LEU:HD12	0.449
2	C:47:GLY:CA	C:282:LEU:CA	0.449
2	C:107:VAL:CG1	C:199:ARG:HH12	0.449
2	C:127:ARG:HH22	C:128:VAL:HG22	0.449
2	C:208:PHE:HD1	C:209:GLU:C	0.449
2	C:292:ASN:HA	C:305:LYS:HB2	0.449
2	C:348:ILE:HG23	C:349:SER:N	0.449
2	D:117:LEU:CB	D:145:TYR:HD1	0.449
2	D:168:LEU:CD1	D:213:VAL:HG22	0.449
2	F:92:THR:CA	F:127:VAL:CG1	0.449
2	C:224:VAL:CG2	C:227:GLN:NE2	0.449
2	A:15:LYS:HD3	A:65:TYR:HA	0.448
2	A:80:PHE:CD2	A:88:LEU:HD11	0.448

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:330:THR:O	A:333:LEU:HD23	0.448
2	A:420:LEU:O	A:421:SER:HB3	0.448
2	A:191:TRP:HZ3	B:22:PHE:CG	0.448
2	C:37:TYR:C	C:37:TYR:CD2	0.448
2	C:37:TYR:CE2	D:55:LEU:CD2	0.448
2	C:59:GLN:C	C:251:SER:HB2	0.448
2	C:96:LYS:HD3	C:204:THR:HG23	0.448
2	C:124:ASN:HB2	C:153:LEU:CG	0.448
2	C:159:VAL:HB	C:196:ASP:OD1	0.448
2	C:185:ILE:HG12	C:205:SER:H	0.448
2	C:260:ASP:CG	C:264:ASN:H	0.448
2	C:338:LYS:HE2	C:342:ARG:NH2	0.448
2	D:155:ASN:C	D:171:ILE:HG22	0.448
2	E:50:LEU:N	E:50:LEU:HD23	0.448
2	A:288:LEU:N	A:289:PRO:CD	0.448
2	A:336:LEU:HG	A:375:VAL:HG11	0.447
2	A:418:SER:HB2	D:263:THR:C	0.447
2	C:10:GLU:HA	C:10:GLU:OE2	0.447
2	C:50:GLU:CB	C:181:LYS:CE	0.447
2	C:106:ILE:CG1	C:195:GLN:CG	0.447
2	C:154:TRP:CD1	C:155:GLU:N	0.447
2	C:175:ALA:HB2	C:198:LEU:CB	0.447
2	C:188:ALA:CB	C:189:ASP:N	0.447

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:248:VAL:HA	C:283:ARG:CG	0.447
2	C:265:ARG:CD	C:265:ARG:N	0.447
2	C:289:LEU:HD23	C:345:PHE:CD1	0.447
2	C:311:TYR:CE2	C:313:PRO:HG3	0.447
2	C:378:ASP:O	C:381:ASP:HB3	0.447
2	D:199:PHE:C	D:199:PHE:CD1	0.447
2	C:314:GLU:OE2	F:66:LYS:HE2	0.447
2	C:48:ALA:N	C:297:LEU:CB	0.447
2	E:64:LYS:HG3	E:64:LYS:O	0.447
2	A:347:VAL:O	A:347:VAL:HG13	0.446
2	B:12:SER:C	B:14:LEU:H	0.446
2	B:23:ILE:HG23	B:24:ALA:N	0.446
2	C:106:ILE:CD1	C:195:GLN:CG	0.446
2	C:186:LYS:N	C:205:SER:CB	0.446
2	C:210:THR:CG2	C:221:MET:HB2	0.446
2	C:213:GLN:CB	C:218:ASN:HB3	0.446
2	C:248:VAL:HG12	C:271:LYS:HB2	0.446
2	C:308:ILE:H	C:308:ILE:HD12	0.446
2	C:354:ASP:O	C:394:LEU:HD13	0.446
2	D:49:ARG:NH2	D:338:ILE:HD13	0.446
2	F:38:VAL:HG13	F:46:LEU:HD13	0.446
2	A:277:ASN:ND2	A:283:TRP:CE3	0.445
2	C:177:TYR:CD2	C:300:LYS:CG	0.445

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:172:ILE:H	C:193:SER:C	0.445
2	C:249:ALA:HB2	C:283:ARG:CZ	0.445
2	C:252:SER:CB	C:258:ARG:CB	0.445
2	C:265:ARG:HB2	C:268:ALA:CB	0.445
2	C:290:PHE:C	C:291:LEU:HD12	0.445
2	C:247:VAL:CG2	C:292:ASN:C	0.445
2	C:23:ASN:HD21	D:88:ASN:HA	0.445
2	D:117:LEU:HD22	D:145:TYR:HD1	0.445
2	D:168:LEU:N	D:168:LEU:HD23	0.445
2	A:60:VAL:CG1	A:61:SER:N	0.445
2	A:339:THR:CG2	A:340:HIS:N	0.445
2	F:94:VAL:CG2	F:95:TYR:N	0.445
2	A:174:LYS:NZ	A:210:MET:SD	0.445
2	F:5:LEU:CD1	F:97:CYS:SG	0.445
2	A:13:VAL:HG21	A:191:TRP:CZ2	0.444
2	A:311:LYS:HE3	C:385:ARG:HD2	0.444
2	A:344:PHE:CE2	A:364:GLU:CD	0.444
2	C:14:ASN:CG	C:17:LYS:HB2	0.444
2	C:35:GLN:O	C:39:ALA:HB2	0.444
2	C:46:LEU:HD11	C:281:TRP:N	0.444
2	C:50:GLU:HG2	C:208:PHE:CZ	0.444
2	C:83:ASN:CG	C:90:THR:HG23	0.444
2	C:103:ILE:HG22	C:199:ARG:N	0.444

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:106:ILE:HG23	C:109:ALA:O	0.444
2	C:178:PHE:C	C:201:ARG:CD	0.444
2	C:52:GLY:N	C:188:ALA:C	0.444
2	D:84:SER:O	D:85:TYR:HB3	0.444
2	F:34:LYS:CB	F:53:SER:HA	0.444
2	B:10:VAL:O	B:10:VAL:HG12	0.444
2	A:83:ALA:O	A:84:GLU:HB2	0.443
2	A:131:LEU:N	A:131:LEU:HD23	0.443
2	A:173:ILE:HG23	A:174:LYS:N	0.443
2	C:40:THR:CG2	C:220:HIS:ND1	0.443
2	C:55:THR:O	C:58:LYS:CG	0.443
2	C:142:PHE:CZ	C:146:PHE:CB	0.443
2	C:251:SER:CB	C:300:LYS:HD3	0.443
2	C:305:LYS:HG3	C:307:LYS:N	0.443
2	A:144:LEU:HD11	D:46:ARG:HG3	0.443
2	D:204:CYS:HB3	D:228:ASP:CB	0.443
2	D:308:LEU:N	D:308:LEU:HD23	0.443
2	C:184:VAL:O	C:209:GLU:O	0.443
2	C:151:LYS:CA	C:200:CYS:SG	0.443
2	A:39:CYS:SG	A:81:CYS:CB	0.442
2	A:146:PHE:C	A:146:PHE:CD1	0.442
2	A:237:LEU:C	A:239:GLU:N	0.442
2	A:265:LYS:HB2	A:282:TYR:CZ	0.442

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:365:LEU:N	A:365:LEU:HD23	0.442
2	C:46:LEU:CG	C:282:LEU:C	0.442
2	C:100:LYS:O	C:104:GLU:HG2	0.442
2	C:110:MET:O	C:116:PRO:HB3	0.442
2	C:48:ALA:O	C:208:PHE:CZ	0.442
2	C:208:PHE:HB3	C:222:PHE:O	0.442
2	C:227:GLN:HG2	C:228:ARG:O	0.442
2	C:245:ILE:C	C:281:TRP:HB3	0.442
2	C:283:ARG:HB3	C:293:LYS:CD	0.442
2	C:331:ASP:CB	C:332:PRO:C	0.442
2	D:19:ARG:HA	D:19:ARG:HD3	0.442
2	D:156:GLN:O	D:157:ILE:HG23	0.442
2	D:261:LEU:N	D:261:LEU:HD23	0.442
2	D:304:ARG:HG3	D:304:ARG:O	0.442
2	A:195:LEU:O	A:198:GLN:HB3	0.441
2	C:53:LYS:CE	C:81:ARG:CB	0.441
2	C:58:LYS:HD3	C:98:ASN:HB2	0.441
2	C:147:TYR:CE2	C:202:VAL:HG21	0.441
2	C:172:ILE:CG2	C:192:PRO:C	0.441
2	C:178:PHE:CA	C:201:ARG:HD2	0.441
2	C:182:ILE:HG21	C:200:CYS:O	0.441
2	D:4:LEU:HD23	E:9:ILE:HD11	0.441
2	F:104:PHE:O	F:105:THR:HB	0.441

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	F:94:VAL:O	F:94:VAL:HG13	0.441
2	A:167:ARG:HG2	A:213:CYS:SG	0.440
2	A:311:LYS:CE	C:385:ARG:HD2	0.440
2	A:136:LEU:HD23	A:376:ALA:HB2	0.440
2	C:46:LEU:HD11	C:246:PHE:HA	0.440
2	C:127:ARG:NH1	C:131:ILE:CG2	0.440
2	C:147:TYR:CD2	C:202:VAL:HG23	0.440
2	C:184:VAL:HG23	C:186:LYS:CG	0.440
2	C:208:PHE:CD2	C:223:ASP:CA	0.440
2	C:209:GLU:HG3	C:222:PHE:HA	0.440
2	C:244:ILE:C	C:287:VAL:CA	0.440
2	C:246:PHE:C	C:246:PHE:CG	0.440
2	C:308:ILE:HG22	C:309:GLU:O	0.440
2	C:370:GLU:HG2	C:372:ILE:CB	0.440
2	D:23:LYS:HD3	D:27:ASP:C	0.440
2	D:34:THR:HG23	D:35:ASN:H	0.440
2	D:235:PHE:CD2	D:236:PRO:CD	0.440
2	A:145:GLY:CA	D:293:ASN:ND2	0.440
2	A:311:LYS:HE3	C:385:ARG:HB2	0.439
2	A:414:LYS:HD3	F:54:GLN:OE1	0.439
2	C:52:GLY:C	C:82:SER:HA	0.439
2	C:53:LYS:CE	C:81:ARG:CG	0.439
2	C:103:ILE:CD1	C:131:ILE:CG2	0.439

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:185:ILE:HB	C:203:LEU:N	0.439
2	C:229:ASP:CG	F:109:PHE:HE2	0.439
2	C:291:LEU:O	C:305:LYS:HB2	0.439
2	D:45:MET:CG	D:46:ARG:N	0.439
2	D:133:VAL:CG1	D:134:ARG:N	0.439
2	D:133:VAL:HG13	D:134:ARG:N	0.439
2	D:152:LEU:CG	D:192:LEU:HD13	0.439
2	D:279:SER:CB	D:284:LEU:HD13	0.439
2	D:311:HIS:CG	D:331:SER:HB2	0.439
2	A:146:PHE:CB	D:291:ASP:CB	0.438
2	A:237:LEU:HB3	A:240:GLN:HE21	0.438
2	A:266:TYR:C	A:266:TYR:CD2	0.438
2	A:312:LEU:CD1	A:326:LEU:CD2	0.438
2	A:330:THR:HA	A:333:LEU:HD21	0.438
2	A:329:SER:O	A:332:THR:HG22	0.438
2	C:46:LEU:C	C:282:LEU:CA	0.438
2	C:178:PHE:C	C:201:ARG:CG	0.438
2	C:178:PHE:C	C:201:ARG:HD2	0.438
2	C:246:PHE:CG	C:280:LYS:O	0.438
2	C:60:MET:N	C:251:SER:HB2	0.438
2	C:388:LEU:C	C:390:GLN:H	0.438
2	D:199:PHE:CB	D:211:TRP:HB3	0.438
2	E:9:ILE:HA	E:9:ILE:HD13	0.438

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:178:LEU:HG	B:14:LEU:HD23	0.437
2	A:275:THR:HG23	B:11:SER:HB3	0.437
2	C:51:SER:C	C:54:ASN:HB2	0.437
2	C:55:THR:CG2	C:91:LYS:CD	0.437
2	C:58:LYS:C	C:177:TYR:CG	0.437
2	C:77:PRO:CG	C:81:ARG:HD2	0.437
2	C:88:LYS:HD3	D:143:THR:C	0.437
2	C:178:PHE:CD2	C:178:PHE:O	0.437
2	C:186:LYS:CA	C:206:GLY:H	0.437
2	D:49:ARG:CZ	D:338:ILE:HG21	0.437
2	D:93:ILE:HA	D:94:PRO:HD3	0.437
2	D:199:PHE:HB3	D:211:TRP:CB	0.437
2	F:46:LEU:HD21	F:111:VAL:C	0.437
2	D:6:GLN:CA	D:6:GLN:HE21	0.437
2	A:11:GLU:O	A:15:LYS:HG3	0.436
2	C:57:VAL:HG13	C:295:ASP:N	0.436
2	C:60:MET:CB	C:173:ASP:HB3	0.436
2	C:68:PHE:C	C:261:ASN:HD21	0.436
2	C:103:ILE:HG12	C:131:ILE:CG2	0.436
2	C:185:ILE:CG2	C:203:LEU:H	0.436
2	C:103:ILE:CB	C:199:ARG:CA	0.436
2	C:208:PHE:CE1	C:210:THR:CG2	0.436
2	C:227:GLN:NE2	C:231:ARG:HB2	0.436

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:248:VAL:CG1	C:268:ALA:CB	0.436
2	C:286:SER:HB2	C:287:VAL:H	0.436
2	D:180:PHE:CE1	D:218:CYS:HB3	0.436
2	D:292:PHE:HD1	D:313:ASN:O	0.436
2	C:50:GLU:O	C:187:GLN:O	0.436
2	A:144:LEU:HD11	A:158:LEU:HD13	0.435
2	A:142:ILE:CD1	A:146:PHE:CZ	0.435
2	A:398:ARG:NH2	A:403:HIS:CE1	0.435
2	C:50:GLU:HG2	C:208:PHE:CD2	0.435
2	C:55:THR:O	C:58:LYS:HG2	0.435
2	C:249:ALA:C	C:295:ASP:HB2	0.435
2	C:248:VAL:O	C:305:LYS:HA	0.435
2	D:51:LEU:HG	D:82:TRP:CE2	0.435
2	D:99:TRP:C	D:99:TRP:CD1	0.435
2	F:3:VAL:HG21	F:28:PHE:HB2	0.435
2	F:28:PHE:CZ	F:99:ARG:NH1	0.435
2	D:191:SER:OG	D:234:PHE:HD1	0.435
2	D:233:CYS:SG	D:278:PHE:HD1	0.435
2	A:27:LEU:CA	A:41:ARG:NH1	0.435
2	C:46:LEU:N	C:282:LEU:O	0.435
2	C:154:TRP:H	C:200:CYS:HB2	0.435
2	C:187:GLN:H	C:207:ILE:H	0.435
2	A:236:VAL:CA	A:240:GLN:H	0.434

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:83:ASN:HD21	C:90:THR:HG23	0.434
2	C:126:PHE:C	C:126:PHE:CD1	0.434
2	C:58:LYS:O	C:177:TYR:CG	0.434
2	C:248:VAL:C	C:306:SER:N	0.434
2	D:58:ILE:HG22	D:331:SER:C	0.434
2	C:320:THR:N	C:336:ARG:NE	0.434
2	A:13:VAL:HG21	A:191:TRP:HZ2	0.433
2	A:311:LYS:HE3	C:385:ARG:CB	0.433
2	A:414:LYS:HB3	F:32:ASN:OD1	0.433
2	C:48:ALA:CA	C:297:LEU:CB	0.433
2	C:59:GLN:C	C:300:LYS:HD3	0.433
2	C:75:GLU:HB2	C:190:TYR:HB2	0.433
2	C:127:ARG:CZ	C:128:VAL:HA	0.433
2	C:173:ASP:HB2	C:252:SER:O	0.433
2	C:182:ILE:CD1	C:201:ARG:C	0.433
2	C:185:ILE:HG12	C:207:ILE:HD12	0.433
2	C:185:ILE:HD13	C:204:THR:CA	0.433
2	C:182:ILE:CB	C:201:ARG:CA	0.433
2	C:220:HIS:C	C:221:MET:SD	0.433
2	C:246:PHE:HB2	C:287:VAL:C	0.433
2	C:267:GLN:CG	C:283:ARG:NH2	0.433
2	C:282:LEU:HB2	C:286:SER:HG	0.433
2	C:51:SER:N	C:207:ILE:O	0.433

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	E:54:VAL:CG1	E:55:PRO:N	0.433
2	F:13:VAL:CG1	F:14:GLN:N	0.433
2	A:1:ARG:CB	A:2:PRO:CD	0.432
2	A:258:VAL:O	A:261:TRP:HB3	0.432
2	A:330:THR:CA	A:333:LEU:HD22	0.432
2	C:15:GLU:O	C:18:ALA:HB3	0.432
2	C:28:LYS:HA	C:31:GLN:HE21	0.432
2	C:77:PRO:HD2	C:81:ARG:HD2	0.432
2	C:103:ILE:CG1	C:131:ILE:CG2	0.432
2	C:154:TRP:HB2	C:179:LEU:CD1	0.432
2	C:166:SER:C	C:168:GLU:H	0.432
2	C:288:ILE:HD11	C:378:ASP:OD1	0.432
2	C:292:ASN:HB3	C:305:LYS:CA	0.432
2	C:338:LYS:HE3	C:363:PHE:HB3	0.432
2	D:55:LEU:O	D:56:ALA:HB2	0.432
2	D:111:TYR:CD1	D:151:PHE:HE2	0.432
2	D:158:VAL:HG13	D:168:LEU:HD22	0.432
2	F:13:VAL:N	F:126:THR:CG2	0.432
2	A:60:VAL:HG23	A:76:HIS:CD2	0.431
2	A:135:ALA:C	A:137:VAL:H	0.431
2	A:137:VAL:HG23	A:165:ILE:HD12	0.431
2	A:141:ALA:HB1	D:44:GLN:N	0.431
2	B:12:SER:O	B:13:TYR:HB3	0.431

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:30:LEU:CD1	C:34:LYS:HE3	0.431
2	C:46:LEU:HD13	C:286:SER:HG	0.431
2	C:50:GLU:HB2	C:181:LYS:HE3	0.431
2	C:164:GLU:C	C:166:SER:H	0.431
2	C:57:VAL:O	C:177:TYR:CE1	0.431
2	C:207:ILE:HD12	C:208:PHE:N	0.431
2	C:223:ASP:CG	C:293:LYS:NZ	0.431
2	C:297:LEU:CD2	C:372:ILE:H	0.431
2	C:363:PHE:HE2	C:366:ALA:HB2	0.431
2	D:71:VAL:CG1	D:103:CYS:SG	0.431
2	D:111:TYR:C	D:111:TYR:CD1	0.431
2	D:117:LEU:C	D:117:LEU:CD1	0.431
2	D:126:LEU:O	D:127:LYS:HG2	0.431
2	C:281:TRP:CG	C:282:LEU:N	0.431
2	A:10:TRP:C	A:10:TRP:CE3	0.430
2	A:406:ARG:CA	A:413:LEU:HD12	0.430
2	C:2:GLY:HA3	C:33:ASP:C	0.430
2	C:46:LEU:CB	C:282:LEU:C	0.430
2	C:83:ASN:HD22	C:89:ALA:HB3	0.430
2	C:100:LYS:HE3	C:140:PHE:HB3	0.430
2	C:267:GLN:OE1	C:270:LEU:HD12	0.430
2	C:281:TRP:CE3	C:290:PHE:CD2	0.430
2	D:18:ILE:CG2	D:22:ARG:CZ	0.430

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	F:16:GLY:HA2	F:87:LEU:H	0.430
2	F:96:TYR:CD1	F:119:ARG:HD2	0.430
2	F:106:ARG:O	F:107:ASP:HB2	0.430
2	C:103:ILE:CD1	C:104:GLU:N	0.430
2	C:102:ALA:O	C:105:THR:N	0.430
2	C:203:LEU:CD2	C:204:THR:N	0.430
2	A:100:LEU:CD2	A:103:CYS:SG	0.430
2	A:27:LEU:HB2	A:41:ARG:NH1	0.429
2	A:64:TRP:C	A:66:LEU:N	0.429
2	A:64:TRP:CD1	A:65:TYR:N	0.429
2	A:275:THR:HG23	B:11:SER:CB	0.429
2	C:14:ASN:HB2	C:17:LYS:HG2	0.429
2	C:127:ARG:HG2	C:149:HIS:CA	0.429
2	C:175:ALA:HB2	C:198:LEU:HD12	0.429
2	C:293:LYS:C	C:295:ASP:N	0.429
2	C:380:ARG:HG2	C:380:ARG:O	0.429
2	C:388:LEU:C	C:388:LEU:HD13	0.429
2	D:51:LEU:HD21	D:82:TRP:CE3	0.429
2	D:80:ILE:CD1	D:89:LYS:HE3	0.429
2	D:223:THR:HG21	F:1:MET:CA	0.429
2	F:92:THR:O	F:92:THR:HG22	0.429
2	F:92:THR:CG2	F:127:VAL:HB	0.429
2	C:47:GLY:H	C:283:ARG:N	0.429

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:127:ARG:HE	C:153:LEU:CD1	0.429
2	C:172:ILE:N	C:193:SER:O	0.429
2	C:244:ILE:O	C:288:ILE:N	0.429
2	A:61:SER:C	A:76:HIS:ND1	0.428
2	A:114:PRO:CG	A:117:GLN:HE21	0.428
2	A:207:PHE:CE1	A:210:MET:HE2	0.428
2	A:240:GLN:HG3	A:240:GLN:O	0.428
2	A:335:PRO:CG	A:374:MET:SD	0.428
2	C:91:LYS:O	C:95:ILE:HG22	0.428
2	C:121:ASN:HA	C:122:PRO:HD2	0.428
2	C:171:LEU:CD2	C:195:GLN:CD	0.428
2	C:188:ALA:HA	C:225:GLY:N	0.428
2	C:175:ALA:CA	C:194:ASP:HB3	0.428
2	C:292:ASN:HA	C:305:LYS:CB	0.428
2	C:283:ARG:NH1	C:294:GLN:CD	0.428
2	D:55:LEU:C	D:55:LEU:CD2	0.428
2	D:175:GLN:HG2	D:176:GLN:H	0.428
2	D:235:PHE:HE2	E:40:TYR:CE2	0.428
2	F:33:TYR:CE2	F:99:ARG:HB3	0.428
2	A:157:HIS:HD2	A:157:HIS:O	0.428
2	C:115:PRO:CG	C:165:ARG:NH1	0.428
2	D:37:ILE:CG1	D:38:ASP:H	0.428
2	A:225:GLY:C	A:300:ILE:HD12	0.427

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:243:PHE:CA	A:246:TYR:CD1	0.427
2	A:343:ILE:O	A:343:ILE:HD13	0.427
2	A:351:HIS:O	A:352:ALA:HB3	0.427
2	A:377:ILE:HG12	A:381:PHE:CZ	0.427
2	C:50:GLU:CG	C:181:LYS:CG	0.427
2	C:288:ILE:HG12	C:360:TYR:CB	0.427
2	D:118:ASP:OD1	D:120:ILE:HG22	0.427
2	D:152:LEU:HD22	D:196:THR:CB	0.427
2	D:164:THR:HG21	D:183:HIS:O	0.427
2	D:164:THR:HG21	D:184:THR:O	0.427
2	F:41:ALA:CB	F:44:LYS:HG2	0.427
2	A:344:PHE:HD1	A:345:ALA:N	0.427
2	C:96:LYS:CG	C:97:ASN:N	0.427
2	A:3:GLN:HG3	A:11:GLU:CD	0.426
2	A:141:ALA:CB	D:44:GLN:N	0.426
2	A:230:THR:C	A:232:LEU:H	0.426
2	A:311:LYS:HG3	C:384:GLN:OE1	0.426
2	A:378:LEU:C	A:378:LEU:HD22	0.426
2	C:172:ILE:HB	C:192:PRO:C	0.426
2	C:177:TYR:C	C:201:ARG:NH2	0.426
2	C:181:LYS:C	C:201:ARG:CG	0.426
2	C:244:ILE:C	C:287:VAL:N	0.426
2	C:267:GLN:CG	C:283:ARG:CZ	0.426

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:268:ALA:HB2	C:306:SER:OG	0.426
2	C:295:ASP:CG	C:300:LYS:NZ	0.426
2	C:326:PRO:HB3	C:335:THR:HG21	0.426
2	C:360:TYR:CD2	C:361:PRO:O	0.426
2	F:2:GLN:CD	F:3:VAL:N	0.426
2	C:59:GLN:O	C:177:TYR:HD2	0.426
2	A:68:TRP:H	A:68:TRP:HE3	0.426
2	D:103:CYS:CA	D:114:CYS:SG	0.426
2	A:15:LYS:HB3	A:65:TYR:HB2	0.425
2	A:136:LEU:HD13	A:164:PHE:HB3	0.425
2	A:141:ALA:HB2	D:44:GLN:O	0.425
2	A:229:TYR:HE1	A:303:ARG:HB2	0.425
2	C:58:LYS:HB2	C:178:PHE:HB2	0.425
2	C:71:GLU:CD	C:190:TYR:HD2	0.425
2	C:55:THR:CG2	C:91:LYS:CB	0.425
2	C:103:ILE:HD13	C:104:GLU:HB3	0.425
2	C:178:PHE:HB3	C:198:LEU:CD1	0.425
2	C:194:ASP:O	C:195:GLN:HB3	0.425
2	C:154:TRP:CA	C:197:LEU:HD13	0.425
2	C:248:VAL:HG12	C:280:LYS:HE3	0.425
2	C:248:VAL:CG1	C:271:LYS:CD	0.425
2	C:247:VAL:CG1	C:290:PHE:C	0.425
2	A:415:CYS:SG	D:270:ILE:HB	0.425

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:326:ALA:HB1	D:339:TRP:O	0.425
2	F:19:LEU:C	F:19:LEU:HD13	0.425
2	C:232:ARG:CZ	F:101:PRO:HG2	0.425
2	A:25:ARG:CG	A:26:SER:N	0.425
2	C:357:HIS:ND1	C:358:TYR:N	0.425
2	D:37:ILE:CG1	D:38:ASP:N	0.425
2	F:54:GLN:CG	F:55:SER:N	0.425
2	A:25:ARG:C	A:27:LEU:H	0.424
2	A:66:LEU:HD22	A:68:TRP:H	0.424
2	A:234:PHE:CE2	C:35:GLN:NE2	0.424
2	A:407:ASP:N	A:413:LEU:CD1	0.424
2	C:83:ASN:HA	C:90:THR:N	0.424
2	C:102:ALA:CB	C:194:ASP:C	0.424
2	C:153:LEU:N	C:155:GLU:HG2	0.424
2	C:172:ILE:C	C:174:CYS:N	0.424
2	C:280:LYS:HD3	C:284:ASP:CA	0.424
2	C:46:LEU:CB	C:285:THR:C	0.424
2	C:282:LEU:O	C:286:SER:CB	0.424
2	C:297:LEU:HD21	C:372:ILE:H	0.424
2	D:264:TYR:OH	D:304:ARG:HB3	0.424
2	F:65:VAL:CG1	F:69:PHE:CD1	0.424
2	A:126:THR:CG2	A:129:TYR:HE2	0.424
2	A:124:ILE:HD12	A:362:PHE:HE1	0.423

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:207:PHE:CE1	A:210:MET:CE	0.423
2	C:45:LEU:HD13	C:221:MET:C	0.423
2	C:46:LEU:HB2	C:283:ARG:CA	0.423
2	C:55:THR:HG22	C:91:LYS:C	0.423
2	C:79:ALA:HB3	C:81:ARG:HH12	0.423
2	C:127:ARG:HD3	C:149:HIS:C	0.423
2	C:154:TRP:HB2	C:197:LEU:HD12	0.423
2	C:247:VAL:HG13	C:281:TRP:CA	0.423
2	C:177:TYR:CD2	C:300:LYS:HD3	0.423
2	C:23:ASN:ND2	D:88:ASN:CG	0.423
2	D:166:CYS:SG	D:187:VAL:HG21	0.423
2	C:245:ILE:O	C:289:LEU:N	0.423
2	C:200:CYS:O	C:200:CYS:SG	0.423
2	A:265:LYS:CD	A:274:TRP:CE3	0.422
2	A:413:LEU:CA	F:54:GLN:HE22	0.422
2	C:50:GLU:CD	C:181:LYS:CB	0.422
2	C:60:MET:C	C:252:SER:N	0.422
2	C:117:VAL:HG11	C:158:GLY:O	0.422
2	C:147:TYR:CD1	C:147:TYR:O	0.422
2	C:205:SER:C	C:207:ILE:N	0.422
2	C:211:LYS:HB2	C:219:PHE:C	0.422
2	C:222:PHE:CE2	C:223:ASP:O	0.422
2	C:311:TYR:HE2	C:313:PRO:HB3	0.422

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:109:GLY:O	D:126:LEU:HD21	0.422
2	D:170:ASP:HB3	D:173:THR:HG22	0.422
2	F:30:PHE:HD2	F:75:ASN:HA	0.422
2	D:180:PHE:HD1	D:211:TRP:CZ3	0.422
2	C:182:ILE:HG23	C:183:ASP:N	0.422
2	C:296:LEU:CD1	C:297:LEU:H	0.422
2	A:65:TYR:C	A:65:TYR:CD1	0.421
2	A:70:SER:HA	A:73:PRO:CG	0.421
2	A:102:GLU:O	A:103:CYS:HB3	0.421
2	A:384:ASN:ND2	A:407:ASP:CG	0.421
2	C:50:GLU:CG	C:208:PHE:CE1	0.421
2	C:83:ASN:CA	C:91:LYS:HG2	0.421
2	C:95:ILE:CG2	C:207:ILE:CD1	0.421
2	C:154:TRP:HB2	C:197:LEU:CD1	0.421
2	C:176:GLN:HG2	C:176:GLN:O	0.421
2	C:185:ILE:CD1	C:203:LEU:O	0.421
2	C:188:ALA:HB1	C:293:LYS:HE3	0.421
2	C:191:VAL:HG13	C:192:PRO:HD2	0.421
2	C:253:TYR:O	C:254:ASN:HB2	0.421
2	C:289:LEU:O	C:290:PHE:CD2	0.421
2	C:379:CYS:C	C:381:ASP:N	0.421
2	D:7:LEU:HD21	E:16:VAL:CG2	0.421
2	A:144:LEU:CD1	D:45:MET:C	0.421

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:57:LYS:O	D:74:SER:HB2	0.421
2	D:139:LEU:C	D:139:LEU:CD2	0.421
2	F:94:VAL:CB	F:128:SER:C	0.421
2	A:148:HIS:ND1	A:149:LEU:N	0.421
2	A:181:MET:HE3	A:197:TYR:HD2	0.420
2	A:185:ALA:HB3	A:194:LEU:HD11	0.420
2	A:261:TRP:HH2	A:283:TRP:CE3	0.420
2	A:377:ILE:HG13	A:381:PHE:CD2	0.420
2	C:54:ASN:ND2	C:57:VAL:HB	0.420
2	C:61:ARG:HB2	C:303:ALA:HA	0.420
2	C:166:SER:OG	C:171:LEU:HD22	0.420
2	C:212:PHE:C	C:212:PHE:CD1	0.420
2	D:151:PHE:CD1	E:58:GLU:OE2	0.420
2	D:175:GLN:CG	D:176:GLN:N	0.420
2	D:197:ARG:C	D:197:ARG:HD2	0.420
2	D:293:ASN:CB	D:309:ALA:HA	0.420
2	F:59:ILE:CG1	F:71:ILE:CG2	0.420
2	F:10:GLY:CA	F:123:THR:HG21	0.420
2	C:182:ILE:O	C:211:LYS:N	0.420
2	C:225:GLY:C	C:227:GLN:N	0.420
2	C:233:LYS:NZ	D:188:MET:SD	0.420
2	A:82:THR:HB	A:88:LEU:HD23	0.419
2	A:254:PRO:CA	A:257:PHE:CZ	0.419

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:308:VAL:HG23	C:388:LEU:CD2	0.419
2	C:16:GLU:HG3	C:19:GLN:HB3	0.419
2	C:46:LEU:HD13	C:282:LEU:C	0.419
2	C:59:GLN:HG2	C:173:ASP:CB	0.419
2	C:221:MET:O	C:222:PHE:HB2	0.419
2	D:12:GLU:HG3	D:13:GLN:N	0.419
2	D:71:VAL:HA	D:81:ILE:CG2	0.419
2	D:90:VAL:HG13	D:91:HIS:N	0.419
2	D:123:ILE:HD13	D:136:SER:OG	0.419
2	D:168:LEU:HD11	D:213:VAL:HG23	0.419
2	D:180:PHE:CD1	D:211:TRP:HE3	0.419
2	F:30:PHE:HB2	F:78:ASN:CB	0.419
2	F:33:TYR:HB3	F:99:ARG:HH12	0.419
2	F:96:TYR:HB2	F:120:GLY:O	0.419
2	C:47:GLY:N	C:283:ARG:N	0.419
2	C:320:THR:N	C:336:ARG:HE	0.419
2	C:348:ILE:CG2	C:349:SER:N	0.419
2	D:297:TRP:HE1	D:302:ALA:CA	0.419
2	C:181:LYS:O	C:201:ARG:CD	0.419
2	D:251:ARG:HG3	D:251:ARG:O	0.419
2	A:9:LEU:C	A:9:LEU:CD1	0.418
2	A:129:TYR:CD1	A:130:ALA:N	0.418
2	A:312:LEU:HD22	A:319:LYS:NZ	0.418

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:343:ILE:CG1	A:347:VAL:CG1	0.418
2	C:179:LEU:C	C:201:ARG:CG	0.418
2	C:182:ILE:CB	C:201:ARG:CB	0.418
2	C:206:GLY:CA	D:118:ASP:HA	0.418
2	C:341:ILE:O	C:344:GLU:HB2	0.418
2	C:389:ARG:HA	C:389:ARG:HD3	0.418
2	D:1:MET:HB2	D:1:MET:HE2	0.418
2	D:6:GLN:HA	D:6:GLN:NE2	0.418
2	D:18:ILE:C	D:20:ASP:H	0.418
2	D:69:LEU:HD13	D:70:LEU:C	0.418
2	D:284:LEU:C	D:284:LEU:CD2	0.418
2	F:103:PRO:CG	F:104:PHE:N	0.418
2	D:262:MET:SD	D:302:ALA:CB	0.418
2	A:144:LEU:HD21	A:158:LEU:HD12	0.417
2	A:147:ARG:C	A:147:ARG:HD2	0.417
2	A:158:LEU:HA	A:158:LEU:HD23	0.417
2	A:288:LEU:C	A:288:LEU:CD1	0.417
2	C:90:THR:HG22	C:93:GLN:OE1	0.417
2	C:245:ILE:O	C:245:ILE:HG13	0.417
2	C:247:VAL:HG13	C:290:PHE:CB	0.417
2	C:250:SER:C	C:300:LYS:CE	0.417
2	C:346:LEU:HD11	C:361:PRO:CD	0.417
2	C:388:LEU:C	C:390:GLN:N	0.417

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:285:LEU:C	D:285:LEU:CD2	0.417
2	D:288:GLY:HA2	D:294:CYS:CB	0.417
2	E:43:ALA:C	E:45:ALA:H	0.417
2	F:37:TRP:CZ3	F:82:LEU:HB3	0.417
2	F:40:GLN:O	F:93:ALA:HB1	0.417
2	B:1:HIS:CG	B:2:ALA:N	0.417
2	C:177:TYR:O	C:201:ARG:NH2	0.417
2	F:103:PRO:CG	F:104:PHE:H	0.417
2	A:74:GLN:HA	A:74:GLN:OE1	0.417
2	A:8:SER:O	A:12:THR:HG22	0.416
2	A:36:ASP:O	A:38:PHE:CD1	0.416
2	A:121:LEU:CD2	A:365:LEU:HD12	0.416
2	A:377:ILE:O	A:381:PHE:CD2	0.416
2	C:22:ALA:C	C:24:LYS:N	0.416
2	C:48:ALA:HA	C:297:LEU:CB	0.416
2	C:99:LEU:O	C:103:ILE:CG2	0.416
2	C:185:ILE:C	C:205:SER:CB	0.416
2	C:230:GLU:HG3	F:116:TYR:HE1	0.416
2	C:46:LEU:CD2	C:280:LYS:C	0.416
2	C:296:LEU:HD12	C:299:GLU:HG2	0.416
2	C:302:LEU:N	C:302:LEU:HD22	0.416
2	D:71:VAL:CG2	D:105:TYR:CD1	0.416
2	D:254:ASP:O	D:258:ASP:HA	0.416

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:318:LEU:CD1	D:327:VAL:CG1	0.416
2	D:63:TRP:HZ3	D:328:ALA:HB2	0.416
2	C:50:GLU:OE2	C:201:ARG:NH2	0.416
2	C:279:ASN:CA	C:279:ASN:O	0.415
2	C:189:ASP:HA	C:294:GLN:HG3	0.415
2	C:250:SER:H	C:295:ASP:HB2	0.415
2	D:104:ALA:HB1	E:58:GLU:OE2	0.415
2	D:168:LEU:CD1	D:213:VAL:CG2	0.415
2	D:194:PRO:HG3	D:237:ASN:O	0.415
2	D:245:SER:H	D:273:ILE:HG23	0.415
2	A:322:ILE:HG22	A:323:LYS:N	0.415
2	C:281:TRP:N	C:283:ARG:HA	0.415
2	A:64:TRP:O	A:65:TYR:CG	0.415
2	A:84:GLU:HG2	A:84:GLU:O	0.415
2	A:80:PHE:CB	A:88:LEU:HD12	0.414
2	A:180:TRP:CD1	A:184:THR:HG21	0.414
2	A:212:TYR:HB2	A:258:VAL:HG21	0.414
2	A:257:PHE:O	A:260:PRO:HD2	0.414
2	A:283:TRP:HH2	B:1:HIS:HA	0.414
2	C:43:LEU:O	C:45:LEU:HD12	0.414
2	C:49:GLY:HA3	C:293:LYS:HB2	0.414
2	C:181:LYS:CG	C:209:GLU:N	0.414
2	C:187:GLN:HB3	C:224:VAL:CA	0.414

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:249:ALA:CA	C:249:ALA:H	0.414
2	C:271:LYS:HB2	C:280:LYS:CG	0.414
2	C:321:PRO:CG	C:339:TYR:CE2	0.414
2	D:58:ILE:HD13	D:330:GLY:HA3	0.414
2	D:157:ILE:N	D:157:ILE:HD13	0.414
2	D:168:LEU:CB	D:177:THR:CG2	0.414
2	D:313:ASN:HB2	D:332:TRP:HB3	0.414
2	E:6:THR:HG22	E:11:GLN:N	0.414
2	F:80:LEU:C	F:80:LEU:CD2	0.414
2	C:283:ARG:HG2	C:284:ASP:N	0.414
2	D:153:ASP:OD1	D:156:GLN:N	0.414
2	A:126:THR:HA	A:129:TYR:CE2	0.413
2	A:243:PHE:O	A:246:TYR:CD1	0.413
2	A:261:TRP:CZ3	A:286:ILE:HG22	0.413
2	A:340:HIS:CD2	A:367:PHE:CD2	0.413
2	A:346:PHE:CG	A:347:VAL:N	0.413
2	A:360:LYS:O	A:364:GLU:HG3	0.413
2	C:47:GLY:CA	C:281:TRP:O	0.413
2	C:95:ILE:HG12	C:207:ILE:CG1	0.413
2	C:127:ARG:NH1	C:128:VAL:HA	0.413
2	C:137:VAL:HG22	C:138:PRO:CD	0.413
2	C:224:VAL:HG11	C:227:GLN:OE1	0.413
2	C:60:MET:CA	C:251:SER:HA	0.413

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:301:VAL:CG2	C:368:ASP:CB	0.413
2	C:382:ILE:HA	C:382:ILE:HD12	0.413
2	D:19:ARG:HB3	D:23:LYS:HE3	0.413
2	D:82:TRP:CD2	D:88:ASN:O	0.413
2	D:91:HIS:CD2	D:124:TYR:OH	0.413
2	D:152:LEU:HA	D:152:LEU:HD23	0.413
2	D:323:ASP:HA	E:54:VAL:HB	0.413
2	E:49:PRO:O	E:50:LEU:HB2	0.413
2	D:280:LYS:CE	E:54:VAL:CG1	0.413
2	C:229:ASP:O	F:109:PHE:CE2	0.413
2	F:116:TYR:CD2	F:117:ALA:O	0.413
2	C:187:GLN:NE2	D:99:TRP:HZ3	0.413
2	C:12:GLN:C	C:12:GLN:NE2	0.413
2	A:119:LEU:CD1	A:123:ILE:HD11	0.412
2	A:237:LEU:C	A:237:LEU:HD12	0.412
2	C:83:ASN:HA	C:90:THR:C	0.412
2	C:99:LEU:HD23	C:103:ILE:HG22	0.412
2	C:107:VAL:HG12	C:199:ARG:NH1	0.412
2	C:111:SER:O	C:116:PRO:HG2	0.412
2	C:290:PHE:CE1	C:363:PHE:O	0.412
2	C:292:ASN:CB	C:301:VAL:HG12	0.412
2	C:302:LEU:HD22	C:368:ASP:CB	0.412
2	C:358:TYR:CE2	C:359:CYS:O	0.412

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:168:LEU:HD11	D:213:VAL:CG2	0.412
2	D:232:ILE:HD13	D:243:THR:HB	0.412
2	D:269:ILE:N	D:269:ILE:HD13	0.412
2	D:292:PHE:CD1	D:292:PHE:O	0.412
2	A:65:TYR:HD1	A:65:TYR:O	0.412
2	C:278:ASN:OD1	C:345:PHE:HE2	0.412
2	C:106:ILE:CD1	C:163:TYR:H	0.412
2	C:289:LEU:CD1	C:290:PHE:N	0.412
2	C:144:PRO:O	C:147:TYR:HB3	0.412
2	A:19:TYR:CD2	A:65:TYR:HE2	0.411
2	C:58:LYS:CG	C:178:PHE:HB2	0.411
2	C:82:SER:C	C:91:LYS:CB	0.411
2	C:92:VAL:HG12	C:204:THR:CG2	0.411
2	C:182:ILE:HD13	C:202:VAL:CA	0.411
2	C:208:PHE:CZ	C:221:MET:HB3	0.411
2	C:245:ILE:CG2	C:282:LEU:CD1	0.411
2	C:246:PHE:HB3	C:288:ILE:C	0.411
2	D:117:LEU:CD2	D:145:TYR:CD1	0.411
2	D:191:SER:C	D:234:PHE:HE1	0.411
2	C:46:LEU:N	C:46:LEU:O	0.411
2	C:214:VAL:HG12	C:215:ASP:N	0.411
2	D:156:GLN:CG	D:157:ILE:N	0.411
2	A:126:THR:O	A:129:TYR:CD2	0.410

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:265:LYS:CD	A:274:TRP:CG	0.410
2	A:312:LEU:N	A:312:LEU:HD23	0.410
2	A:386:VAL:HG12	A:390:PHE:CD2	0.410
2	B:14:LEU:C	B:14:LEU:CD1	0.410
2	C:46:LEU:HD13	C:286:SER:OG	0.410
2	C:84:SER:CA	C:91:LYS:CD	0.410
2	C:184:VAL:CB	C:209:GLU:CG	0.410
2	C:277:TRP:CZ3	F:51:ASP:OD2	0.410
2	C:281:TRP:CH2	C:375:VAL:HG23	0.410
2	C:290:PHE:CZ	C:371:ASN:HB3	0.410
2	D:146:LEU:C	D:146:LEU:CD2	0.410
2	D:226:GLU:HB3	F:28:PHE:CE2	0.410
2	A:155:TYR:C	A:155:TYR:CD1	0.409
2	A:234:PHE:CD2	A:235:SER:N	0.409
2	C:189:ASP:CG	C:190:TYR:N	0.409
2	C:184:VAL:CG2	C:209:GLU:CD	0.409
2	C:232:ARG:C	C:235:ILE:HG22	0.409
2	C:44:LEU:CG	C:244:ILE:HG23	0.409
2	C:283:ARG:HD3	C:283:ARG:O	0.409
2	C:296:LEU:CG	C:297:LEU:H	0.409
2	C:237:CYS:CB	D:99:TRP:CZ2	0.409
2	D:127:LYS:HA	D:127:LYS:HD2	0.409
2	D:323:ASP:CA	E:54:VAL:HB	0.409

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	F:34:LYS:HB2	F:52:ILE:O	0.409
2	F:28:PHE:CE1	F:33:TYR:HD1	0.409
2	A:78:TYR:CD1	A:79:ARG:N	0.409
2	A:402:LEU:CD2	A:402:LEU:N	0.409
2	C:13:ARG:C	C:15:GLU:N	0.409
2	A:15:LYS:HB3	A:65:TYR:CB	0.408
2	A:84:GLU:HG2	A:86:LEU:CD1	0.408
2	A:182:TYR:CD1	B:14:LEU:CD2	0.408
2	A:236:VAL:C	A:240:GLN:N	0.408
2	C:49:GLY:C	C:50:GLU:CD	0.408
2	C:56:ILE:HG13	C:191:VAL:N	0.408
2	C:117:VAL:HG12	C:119:LEU:HD23	0.408
2	C:181:LYS:CD	C:208:PHE:CA	0.408
2	C:178:PHE:CD2	C:198:LEU:CD2	0.408
2	C:48:ALA:HB3	C:210:THR:HG21	0.408
2	C:265:ARG:CZ	C:309:GLU:CB	0.408
2	C:280:LYS:HA	C:284:ASP:C	0.408
2	D:23:LYS:HG2	D:28:ALA:CB	0.408
2	D:32:GLN:O	D:33:ILE:HG13	0.408
2	D:51:LEU:HD12	D:82:TRP:CG	0.408
2	D:183:HIS:CE1	D:205:ASP:OD2	0.408
2	D:198:LEU:HD11	D:219:ARG:NH2	0.408
2	E:54:VAL:CG1	E:55:PRO:CD	0.408

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:152:LEU:O	E:61:PHE:CD1	0.408
2	D:33:ILE:C	F:29:THR:CG2	0.408
2	F:36:ASN:HB2	F:48:TRP:NE1	0.408
2	F:52:ILE:CG1	F:59:ILE:HB	0.408
2	F:13:VAL:N	F:126:THR:HG22	0.408
2	A:274:TRP:CG	A:274:TRP:O	0.408
2	C:183:ASP:O	C:184:VAL:CB	0.408
2	A:41:ARG:HD2	A:51:ASP:OD1	0.407
2	A:80:PHE:HD2	A:88:LEU:HG	0.407
2	A:330:THR:HG23	A:331:LEU:N	0.407
2	A:333:LEU:O	A:334:ILE:HG12	0.407
2	A:377:ILE:CG1	A:381:PHE:CE2	0.407
2	A:415:CYS:CB	D:270:ILE:HB	0.407
2	C:88:LYS:O	C:89:ALA:HB2	0.407
2	C:84:SER:H	C:91:LYS:HA	0.407
2	C:84:SER:OG	C:91:LYS:HD3	0.407
2	C:106:ILE:CG2	C:107:VAL:H	0.407
2	C:95:ILE:CG2	C:207:ILE:HG12	0.407
2	C:272:LEU:C	C:272:LEU:CD2	0.407
2	C:292:ASN:HA	C:305:LYS:HA	0.407
2	D:51:LEU:C	D:51:LEU:CD2	0.407
2	D:142:HIS:CD2	D:161:SER:OG	0.407
2	D:282:GLY:C	D:284:LEU:N	0.407

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	D:49:ARG:HB3	D:338:ILE:HG22	0.407
2	A:77:VAL:HG12	A:78:TYR:N	0.407
2	B:1:HIS:ND1	B:2:ALA:N	0.407
2	C:135:MET:CG	C:136:ASN:N	0.407
2	C:186:LYS:NZ	C:187:GLN:CG	0.407
2	C:188:ALA:N	C:225:GLY:N	0.407
2	C:267:GLN:O	C:271:LYS:N	0.407
2	C:54:ASN:ND2	C:57:VAL:O	0.407
2	D:216:GLY:O	D:217:MET:HG3	0.407
2	A:57:PHE:CD1	A:57:PHE:O	0.406
2	A:343:ILE:HG12	A:347:VAL:O	0.406
2	B:18:ALA:HB1	B:22:PHE:HE2	0.406
2	C:188:ALA:CB	C:293:LYS:CE	0.406
2	C:182:ILE:HG22	C:201:ARG:HA	0.406
2	C:230:GLU:O	C:234:TRP:CZ3	0.406
2	D:58:ILE:HG13	D:72:SER:OG	0.406
2	D:79:LEU:C	D:79:LEU:CD2	0.406
2	D:223:THR:HB	F:2:GLN:HG3	0.406
2	E:12:ALA:C	E:14:LYS:H	0.406
2	E:12:ALA:C	E:14:LYS:N	0.406
2	C:314:GLU:OE2	F:66:LYS:HD2	0.406
2	D:243:THR:CG2	D:251:ARG:HE	0.406
2	E:63:GLU:CD	E:63:GLU:H	0.406

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:43:PHE:CZ	A:45:GLU:O	0.406
2	C:151:LYS:O	C:200:CYS:SG	0.406
2	C:51:SER:CB	C:207:ILE:O	0.406
2	A:136:LEU:HB3	A:161:PHE:HD1	0.405
2	A:418:SER:HB3	D:265:SER:HB2	0.405
2	C:99:LEU:C	C:99:LEU:CD2	0.405
2	C:106:ILE:CG2	C:162:CYS:CB	0.405
2	C:99:LEU:CA	C:178:PHE:CD2	0.405
2	C:178:PHE:CE2	C:182:ILE:HD12	0.405
2	C:185:ILE:HG12	C:207:ILE:HD13	0.405
2	C:268:ALA:HA	C:280:LYS:NZ	0.405
2	D:37:ILE:CG2	D:268:ASN:CA	0.405
2	D:169:TRP:CH2	D:174:GLY:O	0.405
2	D:339:TRP:CD1	D:340:ASN:OXT	0.405
2	E:28:ILE:HA	E:28:ILE:HD12	0.405
2	E:44:HIS:CE1	E:47:GLU:OE2	0.405
2	F:110:ASP:CG	F:116:TYR:CE2	0.405
2	C:245:ILE:O	C:281:TRP:HE3	0.405
2	A:413:LEU:HB2	F:54:GLN:NE2	0.405
2	C:3:CYS:O	C:4:LEU:HD12	0.405
2	C:154:TRP:HD1	C:200:CYS:SG	0.405
2	A:78:TYR:CE1	A:79:ARG:O	0.404
2	A:170:SER:HB3	A:210:MET:HA	0.404

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:204:ARG:HD3	A:204:ARG:O	0.404
2	A:218:TYR:CB	A:290:ILE:CG1	0.404
2	A:361:LEU:C	A:361:LEU:CD1	0.404
2	B:25:TRP:CE2	B:30:ARG:O	0.404
2	C:36:VAL:CG1	C:39:ALA:HB3	0.404
2	C:53:LYS:CD	C:75:GLU:HB2	0.404
2	C:178:PHE:CB	C:198:LEU:HD21	0.404
2	C:186:LYS:HA	C:205:SER:CB	0.404
2	C:273:PHE:CE1	C:276:ILE:HG21	0.404
2	C:342:ARG:C	C:344:GLU:N	0.404
2	D:190:LEU:C	D:190:LEU:CD2	0.404
2	F:33:TYR:CD2	F:33:TYR:O	0.404
2	F:87:LEU:HD13	F:88:LYS:CA	0.404
2	C:47:GLY:H	C:293:LYS:HB3	0.404
2	C:53:LYS:O	C:55:THR:N	0.404
2	A:188:GLN:O	A:189:HIS:HB2	0.404
2	C:147:TYR:O	C:148:GLU:CB	0.404
2	C:223:ASP:OD2	C:224:VAL:N	0.404
2	A:36:ASP:O	A:38:PHE:CE1	0.403
2	A:185:ALA:O	A:186:ALA:HB3	0.403
2	A:257:PHE:HE1	A:286:ILE:HD11	0.403
2	A:344:PHE:CE2	A:364:GLU:OE1	0.403
2	C:2:GLY:CA	C:33:ASP:O	0.403

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:36:VAL:O	C:37:TYR:HB3	0.403
2	C:44:LEU:HD23	C:45:LEU:H	0.403
2	C:77:PRO:CD	C:81:ARG:HD2	0.403
2	C:178:PHE:CA	C:201:ARG:CD	0.403
2	C:190:TYR:C	C:190:TYR:CD2	0.403
2	A:415:CYS:HG	D:37:ILE:HG22	0.403
2	D:62:HIS:CE1	D:103:CYS:O	0.403
2	D:33:ILE:C	F:29:THR:HG22	0.403
2	F:68:ARG:HA	F:68:ARG:HD3	0.403
2	A:144:LEU:O	D:292:PHE:HD2	0.403
2	C:301:VAL:O	C:303:ALA:N	0.403
2	C:159:VAL:O	C:197:LEU:HD21	0.403
2	F:94:VAL:HG12	F:128:SER:O	0.403
2	A:43:PHE:CD1	A:47:ALA:O	0.402
2	A:261:TRP:CE3	A:286:ILE:HG22	0.402
2	C:96:LYS:HD3	C:204:THR:OG1	0.402
2	C:151:LYS:HB2	C:200:CYS:O	0.402
2	C:184:VAL:O	C:209:GLU:CA	0.402
2	C:276:ILE:HA	C:276:ILE:HD12	0.402
2	C:281:TRP:CZ2	C:371:ASN:CB	0.402
2	C:223:ASP:OD2	C:293:LYS:HE2	0.402
2	C:292:ASN:CG	C:301:VAL:HG11	0.402
2	C:318:TYR:CE2	C:319:THR:O	0.402

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	E:43:ALA:C	E:45:ALA:N	0.402
2	F:30:PHE:CD2	F:75:ASN:HA	0.402
2	A:413:LEU:O	F:104:PHE:HB3	0.402
2	A:378:LEU:HA	A:381:PHE:HD2	0.402
2	C:23:ASN:HD21	D:88:ASN:CA	0.402
2	C:318:TYR:CG	C:319:THR:N	0.402
2	A:65:TYR:CD1	A:65:TYR:O	0.402
2	D:338:ILE:O	D:338:ILE:HG23	0.402
2	E:33:ALA:O	E:36:ASP:HB3	0.402
2	A:57:PHE:C	A:57:PHE:CD1	0.401
2	C:95:ILE:HD12	C:98:ASN:HB2	0.401
2	C:131:ILE:CD1	C:150:ALA:HB2	0.401
2	C:283:ARG:C	C:283:ARG:HD3	0.401
2	C:281:TRP:CE2	C:290:PHE:CD2	0.401
2	C:392:GLU:C	C:394:LEU:N	0.401
2	F:37:TRP:CE2	F:95:TYR:CD1	0.401
2	F:52:ILE:HB	F:59:ILE:HB	0.401
2	F:104:PHE:C	F:104:PHE:CD1	0.401
2	A:40:ASN:CG	A:41:ARG:N	0.401
2	C:49:GLY:H	C:296:LEU:CA	0.401
2	C:61:ARG:CB	C:61:ARG:NH1	0.401
2	A:231:LEU:HD22	C:387:HIS:ND1	0.401
2	F:75:ASN:CG	F:76:ALA:N	0.401

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:351:HIS:CG	A:351:HIS:O	0.401
2	C:92:VAL:O	C:95:ILE:CG2	0.401
2	C:118:GLU:O	C:119:LEU:HB2	0.401
2	C:194:ASP:OD1	C:195:GLN:N	0.401
2	C:210:THR:OG1	C:221:MET:SD	0.401
2	A:415:CYS:C	F:32:ASN:HD21	0.400
2	C:162:CYS:C	C:164:GLU:N	0.400
2	C:207:ILE:O	C:208:PHE:CB	0.400
2	C:234:TRP:HA	D:99:TRP:HH2	0.400
2	F:69:PHE:CD2	F:82:LEU:HD11	0.400
2	A:257:PHE:HD1	A:258:VAL:N	0.400
2	D:134:ARG:CA	D:134:ARG:HE	0.400
2	D:262:MET:HG2	D:263:THR:N	0.400
2	E:8:SER:H	E:11:GLN:H	0.400
3	C:250:SER:C	C:250:SER:CA	1.568
3	C:295:ASP:C	C:295:ASP:CA	1.561
3	C:294:GLN:C	C:294:GLN:CA	1.557
3	E:57:SER:C	E:57:SER:CA	1.550
3	C:280:LYS:C	C:280:LYS:CA	1.547
3	C:50:GLU:C	C:50:GLU:CA	1.536
3	C:58:LYS:C	C:58:LYS:CA	1.535
3	C:51:SER:C	C:51:SER:CA	1.530
3	C:51:SER:CA	C:51:SER:N	1.528

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:286:SER:C	C:286:SER:CA	1.525
3	C:52:GLY:CA	C:52:GLY:N	1.523
3	C:248:VAL:C	C:249:ALA:N	1.477
3	C:250:SER:CA	C:250:SER:N	1.453
3	C:249:ALA:CA	C:249:ALA:N	1.379
3	C:249:ALA:C	C:249:ALA:CA	1.357
3	C:248:VAL:C	C:248:VAL:CA	1.341
3	C:58:LYS:HD2	C:226:ALA:HB2	1.139
3	C:55:THR:HB	C:81:ARG:HB2	1.113
3	D:318:LEU:HD21	D:327:VAL:HG12	1.111
3	C:247:VAL:HG23	C:286:SER:HB2	1.094
3	C:177:TYR:HB2	C:298:ALA:HB2	1.081
3	C:247:VAL:HG11	C:293:LYS:HB2	1.080
3	D:58:ILE:HD13	D:336:LEU:HD21	1.078
3	C:57:VAL:HB	C:181:LYS:HG2	1.075
3	C:176:GLN:HA	C:302:LEU:HD23	1.075
3	D:51:LEU:HD22	D:336:LEU:HD12	1.072
3	A:294:ILE:HG23	A:342:VAL:HB	1.068
3	C:127:ARG:HB3	C:153:LEU:HD21	1.065
3	C:44:LEU:HD21	C:47:GLY:HA3	1.049
3	C:205:SER:HB2	C:207:ILE:HA	1.036
3	C:289:LEU:HD23	C:361:PRO:HB3	1.036
3	C:55:THR:HB	C:91:LYS:HG3	1.035

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:56:ILE:HB	C:75:GLU:HG3	1.024
3	C:272:LEU:HD22	C:275:SER:HB3	1.017
3	A:237:LEU:HD22	C:38:ARG:HB3	1.011
3	D:58:ILE:HD11	D:72:SER:HB2	1.006
3	D:284:LEU:HD11	D:296:VAL:HG13	1.006
3	C:272:LEU:HD12	C:344:GLU:HB2	1.002
3	D:193:ALA:HB1	D:194:PRO:HD2	0.994
3	C:60:MET:HB2	C:252:SER:HB3	0.991
3	C:57:VAL:HB	C:181:LYS:CG	0.985
3	D:285:LEU:HD12	D:299:ALA:HB2	0.980
3	C:48:ALA:HA	C:238:PHE:HB3	0.979
3	D:51:LEU:HB3	D:336:LEU:HB2	0.976
3	A:308:VAL:HG23	C:388:LEU:HD13	0.972
3	F:92:THR:HG21	F:127:VAL:HB	0.971
3	D:49:ARG:HB3	D:338:ILE:HB	0.968
3	D:102:THR:HG21	D:148:CYS:HA	0.966
3	F:30:PHE:CE2	F:75:ASN:HA	0.966
3	F:35:MET:HG2	F:80:LEU:HG	0.966
3	C:305:LYS:HA	C:305:LYS:HE3	0.963
3	C:93:GLN:HB2	C:190:TYR:HB2	0.959
3	C:246:PHE:CG	C:289:LEU:HA	0.959
3	C:276:ILE:HA	C:348:ILE:HG13	0.959
3	C:55:THR:HA	C:95:ILE:HG22	0.954

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:113:ALA:HB2	D:151:PHE:CZ	0.954
3	A:144:LEU:HD22	A:145:GLY:H	0.953
3	D:93:ILE:HD12	D:124:TYR:CD1	0.953
3	A:370:PHE:HA	A:373:LEU:HD13	0.950
3	C:50:GLU:CB	C:224:VAL:HG13	0.950
3	C:73:GLY:HA2	C:94:ASP:HA	0.949
3	F:95:TYR:CE1	F:123:THR:HB	0.946
3	D:40:VAL:HG23	D:304:ARG:HB3	0.945
3	F:41:ALA:HA	F:93:ALA:CB	0.938
3	C:247:VAL:HG23	C:286:SER:CB	0.936
3	D:271:CYS:HB3	D:290:ASP:HB2	0.935
3	C:81:ARG:HD3	C:87:GLU:HB2	0.934
3	C:235:ILE:HD12	C:283:ARG:HG2	0.934
3	C:9:THR:HA	D:132:ASN:HB2	0.932
3	C:71:GLU:HA	C:90:THR:HA	0.931
3	C:289:LEU:HD23	C:361:PRO:CB	0.931
3	C:308:ILE:HG23	C:310:ASP:N	0.931
3	C:57:VAL:HG23	C:95:ILE:HD13	0.928
3	F:3:VAL:HG12	F:118:TYR:CE1	0.928
3	D:51:LEU:HD22	D:336:LEU:CD1	0.926
3	C:205:SER:HB2	C:207:ILE:HD12	0.923
3	C:177:TYR:CB	C:298:ALA:HB2	0.922
3	C:246:PHE:CE1	C:289:LEU:HD13	0.922

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:56:ILE:HD13	C:60:MET:HB2	0.918
3	C:296:LEU:HD23	C:301:VAL:HB	0.914
3	C:49:GLY:HA3	C:234:TRP:HB3	0.913
3	C:253:TYR:HB3	C:258:ARG:HB2	0.911
3	C:229:ASP:HB3	F:112:THR:HG23	0.910
3	A:432:THR:HG22	A:433:ALA:H	0.908
3	A:309:VAL:HG22	A:313:LYS:HE3	0.904
3	C:58:LYS:CD	C:226:ALA:HB2	0.904
3	C:157:GLU:HG3	C:160:ARG:HD3	0.904
3	F:21:LEU:HD23	F:82:LEU:HD23	0.902
3	A:150:HIS:HB3	C:394:LEU:HD22	0.901
3	C:26:ILE:HG22	D:89:LYS:HE3	0.901
3	F:46:LEU:HB2	F:111:VAL:HG13	0.900
3	A:160:LEU:HD22	A:220:TRP:HB3	0.899
3	D:139:LEU:HG	D:169:TRP:CD2	0.899
3	E:54:VAL:HB	E:55:PRO:HD2	0.899
3	D:104:ALA:HB1	E:57:SER:HB3	0.898
3	C:56:ILE:HG13	C:98:ASN:HB3	0.897
3	C:47:GLY:CA	C:224:VAL:HG21	0.896
3	C:256:VAL:HG12	C:257:ILE:H	0.896
3	C:247:VAL:HG12	C:248:VAL:N	0.895
3	C:246:PHE:HA	C:287:VAL:H	0.894
3	C:174:CYS:N	C:252:SER:HA	0.892

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:272:LEU:HG	C:344:GLU:C	0.892
3	F:35:MET:HE3	F:80:LEU:HD23	0.890
3	A:49:TRP:CZ2	A:58:VAL:HB	0.889
3	D:20:ASP:HB2	D:27:ASP:HA	0.886
3	C:147:TYR:HA	C:182:ILE:HD11	0.885
3	D:106:ALA:HB2	E:57:SER:O	0.885
3	C:56:ILE:HB	C:75:GLU:CG	0.883
3	C:250:SER:C	C:298:ALA:HB3	0.883
3	D:96:ARG:HD2	D:135:VAL:HG21	0.882
3	C:91:LYS:HE2	C:92:VAL:HA	0.881
3	D:57:LYS:HG3	D:332:TRP:HA	0.881
3	D:106:ALA:HB3	E:58:GLU:HG3	0.881
3	D:326:ALA:HB1	D:338:ILE:HG12	0.881
3	C:127:ARG:CB	C:153:LEU:HD21	0.880
3	C:280:LYS:C	C:280:LYS:CB	0.880
3	D:99:TRP:CD1	D:117:LEU:HG	0.878
3	C:56:ILE:HG13	C:75:GLU:HB3	0.877
3	C:296:LEU:HB2	C:298:ALA:HA	0.877
3	C:48:ALA:HB3	C:235:ILE:HG13	0.875
3	C:56:ILE:HA	C:178:PHE:CZ	0.875
3	D:113:ALA:HB2	D:151:PHE:HZ	0.875
3	C:52:GLY:HA2	C:57:VAL:HG13	0.869
3	C:191:VAL:HG13	C:192:PRO:HD3	0.865

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:259:VAL:HB	A:260:PRO:HD3	0.863
3	C:42:ARG:HD2	C:241:VAL:HG22	0.863
3	C:289:LEU:HD12	C:290:PHE:N	0.863
3	F:39:ARG:HG3	F:49:VAL:HG21	0.861
3	F:41:ALA:HA	F:93:ALA:HB2	0.860
3	C:295:ASP:HB3	C:296:LEU:HD23	0.859
3	C:55:THR:HB	C:81:ARG:CB	0.858
3	C:249:ALA:HB3	C:300:LYS:N	0.857
3	D:19:ARG:HG3	D:29:THR:HA	0.855
3	C:124:ASN:HD21	C:153:LEU:HG	0.854
3	C:174:CYS:HA	C:252:SER:H	0.854
3	F:30:PHE:HE2	F:75:ASN:HA	0.854
3	C:82:SER:HA	C:91:LYS:HD3	0.853
3	C:248:VAL:HA	C:280:LYS:HG2	0.853
3	A:237:LEU:HD22	C:38:ARG:CB	0.851
3	C:124:ASN:HD21	C:153:LEU:HA	0.851
3	C:56:ILE:HD13	C:252:SER:HB3	0.848
3	C:296:LEU:HB2	C:298:ALA:CA	0.848
3	C:47:GLY:HA2	C:224:VAL:HG21	0.847
3	C:268:ALA:HB1	C:341:ILE:HG21	0.847
3	C:45:LEU:HG	C:184:VAL:HG13	0.846
3	C:104:GLU:HB3	C:131:ILE:HG13	0.846
3	C:307:LYS:HD3	F:47:GLU:HB2	0.845

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	E:52:THR:HG23	E:53:PRO:HD2	0.845
3	C:12:GLN:HA	C:15:GLU:HB2	0.844
3	C:108:ALA:HB2	C:132:LEU:HD11	0.843
3	C:248:VAL:HB	C:301:VAL:HG23	0.842
3	C:247:VAL:HG21	C:293:LYS:HG3	0.841
3	D:148:CYS:SG	D:190:LEU:HD22	0.841
3	D:293:ASN:ND2	D:307:VAL:HG13	0.839
3	D:318:LEU:HD22	D:328:ALA:O	0.839
3	C:57:VAL:HG21	C:185:ILE:HG23	0.838
3	A:118:LEU:HD12	A:119:LEU:HD23	0.837
3	A:267:LEU:HD12	A:268:TYR:N	0.837
3	C:55:THR:CB	C:91:LYS:HG3	0.837
3	C:246:PHE:CB	C:289:LEU:HA	0.836
3	A:75:GLY:HA3	A:102:GLU:HG2	0.835
3	A:222:LEU:HA	A:297:ASN:HD21	0.833
3	C:260:ASP:HA	C:304:GLY:HA2	0.832
3	C:98:ASN:HB3	C:178:PHE:CE2	0.831
3	C:44:LEU:HD21	C:47:GLY:CA	0.830
3	A:223:VAL:HG11	A:246:TYR:CG	0.829
3	C:47:GLY:N	C:224:VAL:HG11	0.829
3	D:47:THR:HA	D:340:ASN:HB2	0.829
3	C:50:GLU:C	C:224:VAL:HG22	0.827
3	C:53:LYS:HE3	C:60:MET:HB3	0.824

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:45:LEU:HB2	C:184:VAL:HG21	0.820
3	C:54:ASN:ND2	C:82:SER:HB3	0.820
3	C:247:VAL:HG21	C:293:LYS:HA	0.820
3	D:313:ASN:HB2	D:332:TRP:HB3	0.819
3	C:31:GLN:HG3	C:32:LYS:HD2	0.816
3	C:34:LYS:HA	D:55:LEU:HD11	0.816
3	C:60:MET:HA	C:252:SER:C	0.816
3	C:81:ARG:HA	C:87:GLU:N	0.816
3	C:84:SER:HA	D:119:ASN:HB3	0.814
3	C:205:SER:CB	C:207:ILE:HA	0.814
3	C:238:PHE:CD1	C:241:VAL:HB	0.814
3	D:46:ARG:HG2	D:47:THR:H	0.814
3	A:223:VAL:HG11	A:246:TYR:CD1	0.812
3	C:262:GLN:HG2	C:263:THR:H	0.812
3	C:54:ASN:CG	C:82:SER:HB3	0.811
3	C:75:GLU:HB3	C:98:ASN:HB2	0.811
3	C:176:GLN:C	C:296:LEU:HD11	0.811
3	C:176:GLN:HG3	C:177:TYR:H	0.811
3	C:214:VAL:HG12	C:215:ASP:H	0.811
3	A:312:LEU:HD12	A:326:LEU:CD2	0.809
3	C:341:ILE:HA	C:344:GLU:HG2	0.809
3	A:301:PHE:O	A:304:VAL:HG12	0.808
3	C:44:LEU:HD11	C:47:GLY:N	0.808

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:144:LEU:HD22	A:145:GLY:N	0.807
3	C:51:SER:O	C:54:ASN:HA	0.807
3	C:80:ALA:HB1	C:85:ASP:C	0.806
3	C:92:VAL:HG22	C:207:ILE:CD1	0.806
3	C:134:VAL:HG11	C:140:PHE:CE1	0.806
3	C:217:VAL:HG21	C:376:PHE:HE1	0.806
3	D:148:CYS:SG	D:189:SER:HA	0.806
3	A:263:ILE:HG12	A:267:LEU:HD23	0.805
3	D:82:TRP:HE1	D:87:THR:HA	0.805
3	A:11:GLU:HG2	A:15:LYS:HZ3	0.804
3	C:208:PHE:HB3	C:223:ASP:HB3	0.804
3	C:271:LYS:HG3	C:280:LYS:HZ3	0.804
3	C:247:VAL:N	C:286:SER:H	0.803
3	A:298:PHE:HB2	A:342:VAL:HG11	0.802
3	C:124:ASN:ND2	C:153:LEU:HA	0.801
3	C:222:PHE:CD2	C:224:VAL:HG23	0.801
3	D:109:GLY:H	E:58:GLU:HG2	0.801
3	C:50:GLU:HA	C:224:VAL:HG13	0.800
3	C:54:ASN:HB2	C:84:SER:HB3	0.800
3	C:99:LEU:HB2	C:178:PHE:CD1	0.799
3	C:331:ASP:HB3	C:334:VAL:HG23	0.799
3	D:93:ILE:HD12	D:124:TYR:HD1	0.799
3	C:95:ILE:HD12	C:96:LYS:HA	0.797

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:147:TYR:HB2	C:186:LYS:HD2	0.797
3	C:208:PHE:HB3	C:223:ASP:CB	0.797
3	C:296:LEU:HD12	C:298:ALA:CA	0.797
3	A:179:LYS:HE3	A:184:THR:HG21	0.796
3	C:280:LYS:HA	C:284:ASP:CA	0.796
3	C:261:ASN:N	C:304:GLY:HA2	0.796
3	D:47:THR:HA	D:340:ASN:CB	0.796
3	C:248:VAL:C	C:297:LEU:H	0.795
3	C:231:ARG:HG2	C:283:ARG:NH2	0.794
3	C:235:ILE:CD1	C:283:ARG:HA	0.794
3	C:308:ILE:HG23	C:310:ASP:H	0.794
3	F:59:ILE:HD11	F:71:ILE:HG12	0.794
3	A:314:ALA:HB2	A:319:LYS:HG2	0.793
3	C:333:ARG:HD3	C:336:ARG:HD2	0.793
3	C:93:GLN:HE22	C:96:LYS:HE2	0.792
3	C:276:ILE:HG13	C:348:ILE:HG13	0.792
3	D:80:ILE:HD12	D:89:LYS:HD3	0.792
3	D:106:ALA:HA	E:57:SER:H	0.792
3	D:269:ILE:HB	D:289:TYR:CE1	0.792
3	C:48:ALA:HA	C:238:PHE:CB	0.790
3	C:247:VAL:HG11	C:293:LYS:CB	0.790
3	A:136:LEU:HD11	A:161:PHE:HB2	0.789
3	C:188:ALA:HB1	C:201:ARG:HB3	0.789

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:293:ASN:CG	D:307:VAL:HG13	0.789
3	C:99:LEU:HG	C:179:LEU:HD23	0.788
3	A:230:THR:HG22	A:234:PHE:CE2	0.787
3	D:106:ALA:CB	E:58:GLU:HG3	0.787
3	C:134:VAL:HG21	C:140:PHE:HE1	0.786
3	C:263:THR:HB	C:308:ILE:HG21	0.786
3	F:48:TRP:CE2	F:111:VAL:HG23	0.786
3	C:92:VAL:HG22	C:207:ILE:HD13	0.785
3	A:133:PHE:CE2	A:165:ILE:HD11	0.784
3	A:158:LEU:HA	A:161:PHE:CD1	0.784
3	A:235:SER:HB3	C:383:ILE:HD11	0.784
3	C:58:LYS:C	C:58:LYS:CB	0.784
3	C:272:LEU:HD21	C:348:ILE:CG2	0.784
3	D:284:LEU:HD21	D:296:VAL:CG1	0.781
3	C:50:GLU:HB3	C:224:VAL:HG13	0.780
3	C:53:LYS:HB2	C:56:ILE:HG22	0.779
3	C:296:LEU:HD12	C:298:ALA:CB	0.779
3	C:48:ALA:CA	C:238:PHE:HB3	0.778
3	C:83:ASN:HA	D:120:ILE:HG13	0.777
3	D:71:VAL:HG22	D:81:ILE:HG12	0.777
3	A:316:LEU:HD21	C:361:PRO:HB2	0.776
3	C:173:ASP:HB3	C:253:TYR:N	0.775
3	C:235:ILE:HD12	C:283:ARG:HA	0.775

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:247:VAL:HG21	C:293:LYS:CG	0.775
3	C:260:ASP:CA	C:304:GLY:HA2	0.774
3	D:297:TRP:HZ2	D:302:ALA:HB1	0.774
3	C:50:GLU:O	C:224:VAL:HG22	0.773
3	C:89:ALA:HB2	C:204:THR:HA	0.772
3	D:54:HIS:HB2	D:334:SER:HB3	0.772
3	D:198:LEU:HD23	D:210:LEU:HD21	0.771
3	A:261:TRP:HB2	A:285:ILE:HD11	0.770
3	C:60:MET:HA	C:252:SER:CA	0.770
3	C:124:ASN:ND2	C:153:LEU:HG	0.770
3	E:50:LEU:H	E:50:LEU:HD13	0.769
3	C:184:VAL:HG12	C:208:PHE:CE2	0.768
3	C:246:PHE:CD2	C:289:LEU:HA	0.768
3	C:174:CYS:H	C:252:SER:HB2	0.768
3	D:106:ALA:CA	E:58:GLU:HG3	0.768
3	F:73:ARG:CB	F:80:LEU:HD13	0.768
3	A:57:PHE:CE1	A:78:TYR:HB2	0.767
3	A:158:LEU:HA	A:161:PHE:HD1	0.767
3	A:402:LEU:HG	A:403:HIS:H	0.766
3	C:176:GLN:CA	C:302:LEU:HD23	0.766
3	C:272:LEU:CD2	C:345:PHE:HA	0.766
3	D:4:LEU:HD11	D:7:LEU:HD23	0.766
3	D:79:LEU:HB3	D:93:ILE:HG22	0.766

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:225:HIS:HE2	D:227:SER:HB2	0.766
3	A:216:ALA:HB1	A:220:TRP:HE1	0.765
3	C:83:ASN:HA	D:120:ILE:CD1	0.765
3	C:188:ALA:HB1	C:201:ARG:CB	0.765
3	C:246:PHE:HA	C:287:VAL:N	0.764
3	C:312:PHE:H	C:313:PRO:HD3	0.764
3	C:57:VAL:HG21	C:181:LYS:HD3	0.763
3	C:198:LEU:HD13	C:199:ARG:N	0.763
3	C:296:LEU:HB2	C:298:ALA:C	0.763
3	A:223:VAL:HG21	A:246:TYR:CD1	0.761
3	C:95:ILE:HD13	C:181:LYS:HE2	0.761
3	C:229:ASP:HA	C:297:LEU:HD11	0.761
3	C:307:LYS:HB3	C:309:GLU:HG3	0.761
3	D:82:TRP:CE3	D:89:LYS:HB3	0.761
3	C:50:GLU:CG	C:227:GLN:HB3	0.760
3	F:38:VAL:HB	F:96:TYR:CE2	0.760
3	C:253:TYR:CD1	C:258:ARG:HB3	0.759
3	D:190:LEU:O	D:190:LEU:HD23	0.759
3	C:250:SER:N	C:299:GLU:H	0.758
3	C:55:THR:CA	C:95:ILE:HG22	0.757
3	C:81:ARG:HB3	C:91:LYS:CB	0.757
3	D:292:PHE:CZ	D:311:HIS:HB2	0.757
3	F:33:TYR:HE2	F:35:MET:HB2	0.757

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:133:PHE:O	A:137:VAL:HG23	0.756
3	D:106:ALA:HB3	E:58:GLU:CG	0.756
3	C:46:LEU:HB3	C:224:VAL:HG12	0.755
3	C:99:LEU:HD12	C:181:LYS:HE3	0.755
3	C:99:LEU:HD13	C:182:ILE:HD12	0.755
3	C:141:ASP:HB3	C:190:TYR:HD2	0.755
3	A:284:LEU:O	A:284:LEU:HD13	0.754
3	C:263:THR:HG22	C:264:ASN:H	0.754
3	D:203:ALA:H	D:229:ILE:HG23	0.754
3	C:85:ASP:CA	D:143:THR:HA	0.753
3	C:134:VAL:HG11	C:140:PHE:CD1	0.753
3	A:148:HIS:HE1	D:52:ARG:HG3	0.753
3	D:79:LEU:HB3	D:93:ILE:CG2	0.753
3	A:230:THR:HA	A:234:PHE:CE2	0.752
3	D:319:GLY:O	D:327:VAL:HG13	0.752
3	F:12:LEU:HD13	F:13:VAL:N	0.752
3	A:215:ALA:HA	A:218:TYR:CZ	0.751
3	A:264:VAL:HB	A:282:TYR:CE1	0.751
3	C:272:LEU:HG	C:345:PHE:N	0.751
3	D:168:LEU:HD11	D:213:VAL:HG13	0.751
3	D:210:LEU:HD13	D:211:TRP:N	0.751
3	C:56:ILE:HG12	C:174:CYS:HB3	0.750
3	D:244:GLY:HA2	D:273:ILE:HD11	0.750

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	F:89:PRO:HA	F:127:VAL:HG12	0.750
3	A:153:ARG:O	A:156:ILE:HG23	0.749
3	A:334:ILE:HG13	A:335:PRO:HD3	0.749
3	C:268:ALA:HA	C:271:LYS:HG2	0.749
3	C:246:PHE:H	C:286:SER:HB3	0.749
3	C:341:ILE:HA	C:344:GLU:CG	0.749
3	D:79:LEU:HD21	D:112:VAL:HG11	0.749
3	C:62:ILE:C	C:63:LEU:HD12	0.748
3	C:245:ILE:HG13	C:290:PHE:CE1	0.748
3	C:267:GLN:HB3	C:308:ILE:HD12	0.748
3	C:154:TRP:NE1	C:302:LEU:HD21	0.748
3	C:314:GLU:HG3	C:318:TYR:CE2	0.748
3	A:265:LYS:HD2	A:274:TRP:CE3	0.747
3	D:58:ILE:HD13	D:336:LEU:CD2	0.747
3	C:58:LYS:HB2	C:225:GLY:C	0.746
3	C:102:ALA:HB1	C:175:ALA:CB	0.746
3	C:154:TRP:HE1	C:302:LEU:HD21	0.746
3	D:181:THR:HG21	E:6:THR:HG23	0.746
3	D:284:LEU:HD11	D:296:VAL:CG1	0.746
3	F:10:GLY:HA2	F:125:VAL:HG22	0.746
3	C:208:PHE:CD2	C:223:ASP:HB2	0.745
3	C:280:LYS:HA	C:284:ASP:CB	0.745
3	C:289:LEU:HD12	C:290:PHE:C	0.745

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:311:TYR:CZ	C:313:PRO:HD2	0.745
3	C:92:VAL:HG13	C:207:ILE:HG12	0.744
3	C:99:LEU:CD1	C:182:ILE:HB	0.744
3	C:296:LEU:CB	C:298:ALA:HA	0.744
3	C:296:LEU:HD21	C:302:LEU:HD22	0.744
3	A:95:LEU:HB2	A:96:PRO:CD	0.743
3	C:61:ARG:HD3	C:253:TYR:CE2	0.743
3	C:50:GLU:C	C:224:VAL:HA	0.742
3	C:181:LYS:HD2	C:182:ILE:HA	0.742
3	C:244:ILE:HG23	C:287:VAL:HG11	0.742
3	C:60:MET:HG2	C:61:ARG:H	0.741
3	D:111:TYR:HB3	E:59:ASN:N	0.741
3	D:3:GLU:HG2	D:4:LEU:H	0.740
3	D:151:PHE:CD2	D:157:ILE:HB	0.740
3	D:152:LEU:CD2	D:192:LEU:HD13	0.740
3	E:5:ASN:HB2	E:14:LYS:HG2	0.740
3	C:209:GLU:HG3	C:220:HIS:NE2	0.739
3	C:44:LEU:O	C:244:ILE:HA	0.739
3	C:247:VAL:HG21	C:293:LYS:CA	0.739
3	C:295:ASP:HB3	C:296:LEU:CD2	0.739
3	D:292:PHE:CE1	D:311:HIS:HB2	0.739
3	C:127:ARG:NH1	C:131:ILE:HG22	0.738
3	C:363:PHE:HE2	C:366:ALA:HB2	0.738

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	E:4:ASN:HB3	E:14:LYS:HG3	0.738
3	C:262:GLN:HG2	C:263:THR:N	0.737
3	D:252:LEU:HD12	D:261:LEU:HB3	0.737
3	C:45:LEU:HA	C:245:ILE:HG23	0.736
3	C:49:GLY:CA	C:234:TRP:HB3	0.736
3	C:54:ASN:C	C:91:LYS:HD2	0.736
3	C:91:LYS:HE2	C:92:VAL:CA	0.736
3	C:127:ARG:HH11	C:131:ILE:HG22	0.736
3	C:205:SER:CB	C:207:ILE:HD12	0.736
3	C:174:CYS:N	C:252:SER:HB2	0.736
3	C:389:ARG:HG2	C:390:GLN:H	0.736
3	D:63:TRP:HE1	D:67:SER:HA	0.736
3	D:335:PHE:HE2	D:337:LYS:HB2	0.736
3	C:44:LEU:HD13	C:45:LEU:O	0.735
3	C:188:ALA:HB1	C:201:ARG:CG	0.735
3	C:296:LEU:HD12	C:298:ALA:HA	0.735
3	A:283:TRP:CH2	B:1:HIS:HB3	0.734
3	C:104:GLU:HG3	C:135:MET:HB2	0.734
3	C:260:ASP:C	C:304:GLY:HA2	0.734
3	C:296:LEU:HB3	C:301:VAL:O	0.734
3	D:106:ALA:HB3	E:58:GLU:CD	0.734
3	C:127:ARG:HG2	C:149:HIS:HB3	0.733
3	C:142:PHE:CZ	C:189:ASP:HB3	0.733

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:91:LYS:NZ	C:207:ILE:HB	0.733
3	C:268:ALA:HB1	C:341:ILE:CG2	0.733
3	C:393:LEU:HD21	D:332:TRP:CZ2	0.733
3	D:193:ALA:HB1	D:194:PRO:CD	0.733
3	A:136:LEU:CD1	A:161:PHE:HB2	0.732
3	B:25:TRP:CD1	B:31:GLY:HA2	0.732
3	C:85:ASP:HA	D:143:THR:HA	0.732
3	C:276:ILE:HG13	C:348:ILE:CG1	0.732
3	C:185:ILE:CG2	C:208:PHE:HB2	0.731
3	D:80:ILE:HD11	D:82:TRP:HE3	0.731
3	C:53:LYS:CA	C:226:ALA:HB3	0.730
3	C:149:HIS:HA	C:153:LEU:CD1	0.730
3	F:95:TYR:CZ	F:123:THR:HB	0.730
3	C:44:LEU:HD12	C:244:ILE:HD12	0.729
3	C:75:GLU:CB	C:98:ASN:HB2	0.729
3	C:81:ARG:HA	C:86:GLY:C	0.729
3	C:173:ASP:C	C:252:SER:HA	0.729
3	F:5:LEU:HD11	F:97:CYS:SG	0.729
3	A:288:LEU:HB3	A:289:PRO:HD3	0.728
3	A:43:PHE:HD1	A:48:CYS:HA	0.727
3	C:98:ASN:HB3	C:178:PHE:CZ	0.726
3	C:247:VAL:HG21	C:293:LYS:CB	0.726
3	C:274:ASP:HB3	C:279:ASN:CB	0.726

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:13:GLN:HA	D:13:GLN:NE2	0.726
3	D:318:LEU:CD2	D:327:VAL:HG12	0.726
3	C:82:SER:CA	C:91:LYS:HD3	0.725
3	C:141:ASP:HB3	C:190:TYR:CD2	0.725
3	C:280:LYS:HA	C:284:ASP:C	0.725
3	C:286:SER:C	C:286:SER:N	0.725
3	D:188:MET:HE2	D:230:ASN:HA	0.725
3	D:226:GLU:HB3	F:28:PHE:CD1	0.725
3	D:321:THR:HG23	D:324:GLY:H	0.725
3	A:23:CYS:SG	A:48:CYS:HB3	0.724
3	A:222:LEU:HD23	A:297:ASN:HD21	0.724
3	C:184:VAL:HB	C:223:ASP:CB	0.724
3	D:151:PHE:CZ	D:157:ILE:HD12	0.724
3	D:198:LEU:CD2	D:210:LEU:HD21	0.724
3	D:235:PHE:CG	D:236:PRO:HD2	0.724
3	C:246:PHE:CD2	C:289:LEU:HB2	0.723
3	D:123:ILE:HD13	D:136:SER:HB2	0.723
3	D:151:PHE:CE1	D:157:ILE:HD12	0.723
3	D:313:ASN:HD22	D:315:VAL:H	0.723
3	C:53:LYS:HA	C:226:ALA:HB3	0.722
3	C:324:ALA:HB1	C:339:TYR:CE1	0.722
3	C:102:ALA:HB1	C:175:ALA:HB2	0.721
3	C:177:TYR:HB2	C:298:ALA:CB	0.721

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:190:TYR:CE2	C:192:PRO:HD2	0.721
3	C:244:ILE:C	C:287:VAL:HB	0.721
3	D:62:HIS:HD2	D:105:TYR:HB3	0.721
3	C:91:LYS:CE	C:92:VAL:HA	0.720
3	C:198:LEU:HD13	C:199:ARG:H	0.720
3	C:246:PHE:H	C:286:SER:CB	0.720
3	D:308:LEU:HD22	D:309:ALA:O	0.720
3	D:58:ILE:CD1	D:336:LEU:HD21	0.720
3	A:312:LEU:HD12	A:326:LEU:HD21	0.719
3	C:52:GLY:HA3	C:207:ILE:HG22	0.719
3	C:173:ASP:HB3	C:252:SER:C	0.719
3	C:176:GLN:HA	C:302:LEU:CD2	0.719
3	C:248:VAL:HG21	C:301:VAL:CG2	0.719
3	D:63:TRP:NE1	D:67:SER:HA	0.719
3	A:100:LEU:HD22	B:27:VAL:HG11	0.718
3	C:49:GLY:HA3	C:234:TRP:C	0.718
3	C:51:SER:C	C:51:SER:CB	0.718
3	C:57:VAL:HG21	C:185:ILE:CG2	0.718
3	C:56:ILE:N	C:95:ILE:HA	0.718
3	C:152:ALA:HB2	C:368:ASP:HB2	0.718
3	C:154:TRP:HB3	C:294:GLN:CD	0.718
3	A:16:TRP:HB2	A:65:TYR:CZ	0.717
3	C:154:TRP:HB3	C:294:GLN:NE2	0.717

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:276:ILE:HG12	F:106:ARG:NH2	0.717
3	D:158:VAL:HG22	D:168:LEU:HD22	0.717
3	F:59:ILE:HG12	F:71:ILE:HD11	0.717
3	C:246:PHE:CD2	C:285:THR:HB	0.716
3	C:348:ILE:HD13	C:349:SER:N	0.716
3	E:64:LYS:HG3	E:65:LYS:N	0.716
3	C:246:PHE:CE2	C:289:LEU:HB2	0.715
3	C:266:LEU:O	C:266:LEU:HD13	0.715
3	D:180:PHE:HB2	D:211:TRP:CZ3	0.715
3	D:256:ARG:HH21	E:28:ILE:HG12	0.715
3	C:250:SER:H	C:299:GLU:H	0.715
3	A:268:TYR:CE2	A:269:GLU:HG3	0.714
3	C:26:ILE:HG22	D:89:LYS:CE	0.714
3	C:59:GLN:CB	C:251:SER:H	0.714
3	C:60:MET:CB	C:252:SER:HB3	0.714
3	C:55:THR:CB	C:81:ARG:HB2	0.714
3	C:83:ASN:CA	D:120:ILE:HG13	0.714
3	C:295:ASP:CG	C:301:VAL:HG11	0.714
3	D:7:LEU:HD11	E:16:VAL:HB	0.714
3	C:127:ARG:CD	C:149:HIS:HB3	0.713
3	C:188:ALA:CB	C:210:THR:HG21	0.713
3	C:292:ASN:HB3	C:365:CYS:SG	0.713
3	C:308:ILE:HG23	C:310:ASP:CA	0.713

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:109:GLY:N	E:58:GLU:HG2	0.713
3	A:182:TYR:CE2	A:183:SER:HB2	0.712
3	A:284:LEU:HA	A:287:ARG:HB3	0.712
3	C:152:ALA:HA	C:155:GLU:CD	0.712
3	C:173:ASP:HB3	C:252:SER:CA	0.712
3	C:54:ASN:O	C:82:SER:HB2	0.711
3	C:307:LYS:CD	F:47:GLU:HB2	0.710
3	D:80:ILE:HD11	D:82:TRP:CE3	0.710
3	A:43:PHE:CE2	A:45:GLU:HA	0.709
3	A:411:LYS:HB3	A:412:PRO:HD2	0.709
3	C:89:ALA:CB	C:204:THR:HG22	0.709
3	C:235:ILE:CD1	C:283:ARG:HG2	0.709
3	D:40:VAL:HG21	D:266:HIS:NE2	0.709
3	F:33:TYR:CE2	F:35:MET:HE2	0.709
3	A:57:PHE:CZ	A:59:ASN:HB3	0.708
3	A:66:LEU:HD22	A:69:ALA:HB2	0.708
3	A:283:TRP:CZ2	A:287:ARG:HB2	0.708
3	C:56:ILE:HG12	C:174:CYS:SG	0.708
3	C:250:SER:C	C:250:SER:CB	0.708
3	C:272:LEU:HD21	C:348:ILE:HG22	0.708
3	D:106:ALA:HB3	E:58:GLU:OE1	0.707
3	A:150:HIS:CD2	C:392:GLU:HG2	0.706
3	C:99:LEU:HD12	C:178:PHE:O	0.706

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:238:PHE:CE1	C:241:VAL:HB	0.706
3	D:188:MET:SD	D:230:ASN:HA	0.706
3	C:53:LYS:HB2	C:55:THR:HG23	0.705
3	C:177:TYR:HE1	C:181:LYS:HB3	0.705
3	C:56:ILE:CD1	C:252:SER:HB3	0.704
3	C:60:MET:HG2	C:61:ARG:N	0.704
3	C:75:GLU:HB3	C:98:ASN:CB	0.704
3	C:127:ARG:HD2	C:130:TYR:HB3	0.704
3	E:48:ASP:HB3	E:50:LEU:CD1	0.704
3	F:82:LEU:HD12	F:83:GLN:H	0.704
3	C:250:SER:H	C:299:GLU:N	0.704
3	C:184:VAL:HB	C:223:ASP:CA	0.703
3	E:48:ASP:HB3	E:50:LEU:HD13	0.703
3	A:235:SER:HB3	C:383:ILE:CD1	0.702
3	C:48:ALA:HB3	C:231:ARG:HH22	0.702
3	C:154:TRP:CZ2	C:302:LEU:HD21	0.702
3	D:13:GLN:HA	D:13:GLN:HE21	0.702
3	D:225:HIS:NE2	D:227:SER:HB2	0.702
3	C:56:ILE:CG1	C:75:GLU:HB3	0.701
3	C:106:ILE:HD13	C:154:TRP:CZ3	0.701
3	C:246:PHE:HB3	C:290:PHE:N	0.701
3	A:258:VAL:HG22	A:286:ILE:HD13	0.700
3	C:58:LYS:HG2	C:177:TYR:CD2	0.700

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:142:PHE:CE1	C:189:ASP:HB3	0.700
3	D:120:ILE:HG12	D:140:ALA:HB2	0.700
3	D:262:MET:SD	D:302:ALA:HB2	0.700
3	A:174:LYS:HD2	A:210:MET:SD	0.699
3	C:91:LYS:HZ2	C:207:ILE:HB	0.699
3	C:276:ILE:HA	C:348:ILE:CG1	0.699
3	D:82:TRP:NE1	D:87:THR:HA	0.699
3	F:102:ALA:HB3	F:105:THR:CG2	0.699
3	F:100:CYS:SG	F:108:CYS:HA	0.699
3	A:185:ALA:HB1	A:194:LEU:HD21	0.698
3	D:120:ILE:CG2	D:138:GLU:HB2	0.698
3	E:58:GLU:OE2	E:60:PRO:HD3	0.698
3	F:20:ARG:HD2	F:81:TYR:CE2	0.698
3	A:236:VAL:HG23	A:237:LEU:N	0.697
3	C:56:ILE:HG12	C:174:CYS:CB	0.697
3	C:59:GLN:HB2	C:251:SER:H	0.697
3	C:305:LYS:C	F:45:GLY:HA3	0.697
3	A:261:TRP:HB2	A:285:ILE:CD1	0.696
3	C:208:PHE:CE1	C:210:THR:HB	0.696
3	D:106:ALA:HB2	E:57:SER:C	0.696
3	D:111:TYR:CG	E:59:ASN:HB3	0.696
3	F:5:LEU:CD1	F:97:CYS:HB3	0.696
3	F:102:ALA:HB3	F:105:THR:HG21	0.696

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:149:LEU:CD2	A:151:CYS:HB3	0.695
3	C:82:SER:HB2	C:91:LYS:CE	0.695
3	C:91:LYS:O	C:92:VAL:HG23	0.695
3	D:70:LEU:HD23	D:71:VAL:N	0.695
3	C:249:ALA:HA	C:249:ALA:N	0.695
3	A:53:GLU:HG3	A:54:PRO:HD2	0.694
3	A:218:TYR:CG	A:290:ILE:HG12	0.694
3	C:29:GLN:H	C:32:LYS:HD3	0.694
3	C:81:ARG:CD	C:87:GLU:HB2	0.694
3	C:46:LEU:O	C:224:VAL:HB	0.694
3	D:46:ARG:C	D:340:ASN:HB3	0.694
3	D:295:ASN:HB2	D:304:ARG:HD3	0.693
3	A:156:ILE:HD11	A:224:GLU:CA	0.692
3	C:53:LYS:CE	C:60:MET:HB3	0.692
3	C:184:VAL:HB	C:223:ASP:HB2	0.692
3	C:247:VAL:CG2	C:286:SER:HB2	0.692
3	D:250:CYS:HB2	D:273:ILE:HD11	0.692
3	D:335:PHE:CE2	D:337:LYS:HB2	0.692
3	A:300:ILE:HD11	A:337:LEU:CD2	0.691
3	C:44:LEU:HD12	C:244:ILE:CD1	0.691
3	C:82:SER:HB2	C:91:LYS:CD	0.691
3	C:201:ARG:HG2	C:202:VAL:N	0.691
3	C:53:LYS:O	C:226:ALA:HA	0.691

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	F:39:ARG:HG3	F:49:VAL:CG2	0.691
3	A:190:GLN:O	A:194:LEU:HG	0.690
3	C:46:LEU:HD21	C:231:ARG:HD2	0.690
3	C:154:TRP:CZ2	C:302:LEU:HD11	0.690
3	C:181:LYS:HD2	C:182:ILE:CA	0.690
3	D:123:ILE:CD1	D:136:SER:HB2	0.690
3	D:235:PHE:CD2	D:236:PRO:HD2	0.690
3	A:403:HIS:ND1	A:404:ILE:HG13	0.689
3	C:53:LYS:HE2	C:85:ASP:CG	0.689
3	C:55:THR:HA	C:91:LYS:CD	0.689
3	C:58:LYS:HB3	C:177:TYR:CD1	0.689
3	C:253:TYR:HB3	C:258:ARG:CB	0.689
3	C:259:GLU:HA	C:305:LYS:HG2	0.689
3	C:280:LYS:HA	C:284:ASP:HB3	0.689
3	C:176:GLN:HE21	C:302:LEU:HB3	0.689
3	D:41:GLY:HA2	D:305:ALA:HA	0.689
3	C:96:LYS:HZ3	C:100:LYS:HD2	0.688
3	C:289:LEU:HD23	C:361:PRO:CA	0.688
3	D:149:CYS:HB2	D:157:ILE:HD11	0.688
3	F:10:GLY:CA	F:125:VAL:HG22	0.688
3	A:11:GLU:HG2	A:15:LYS:CD	0.687
3	A:222:LEU:HD12	A:293:ALA:HB2	0.687
3	A:291:LEU:O	A:291:LEU:HD23	0.687

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:54:ASN:HB3	C:82:SER:CA	0.687
3	C:83:ASN:HA	D:120:ILE:CG1	0.687
3	D:142:HIS:CD2	D:146:LEU:HD21	0.687
3	A:316:LEU:HD21	C:361:PRO:CB	0.686
3	C:49:GLY:HA3	C:234:TRP:CB	0.686
3	C:53:LYS:HG2	C:85:ASP:CB	0.686
3	C:177:TYR:CE1	C:181:LYS:HB3	0.686
3	D:165:THR:HG23	D:179:THR:HG23	0.686
3	C:184:VAL:HB	C:223:ASP:HA	0.685
3	D:80:ILE:HD11	D:89:LYS:HB3	0.685
3	D:111:TYR:CD1	E:59:ASN:HB3	0.685
3	F:73:ARG:HB3	F:80:LEU:HD13	0.685
3	A:413:LEU:HD21	F:54:GLN:HB2	0.684
3	C:91:LYS:HE3	C:207:ILE:CG2	0.684
3	C:272:LEU:CB	C:344:GLU:HG3	0.684
3	D:73:ALA:HB3	D:103:CYS:SG	0.684
3	E:28:ILE:CG2	E:32:LYS:HE3	0.684
3	A:12:THR:HA	A:15:LYS:HE2	0.683
3	A:140:SER:O	A:144:LEU:HB2	0.683
3	A:182:TYR:CD1	B:14:LEU:HG	0.683
3	A:316:LEU:HD21	C:361:PRO:CG	0.683
3	C:52:GLY:HA3	C:207:ILE:CG2	0.683
3	C:45:LEU:HD13	C:245:ILE:CG2	0.682

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:46:LEU:HD23	C:224:VAL:CG1	0.682
3	D:44:GLN:HG3	D:340:ASN:C	0.682
3	A:222:LEU:HD23	A:297:ASN:ND2	0.681
3	A:402:LEU:HG	A:403:HIS:N	0.681
3	C:51:SER:HB3	C:54:ASN:CG	0.681
3	C:92:VAL:CG1	C:185:ILE:HD11	0.681
3	C:154:TRP:CE2	C:302:LEU:HD21	0.681
3	C:246:PHE:C	C:286:SER:HB3	0.681
3	C:294:GLN:C	C:294:GLN:N	0.681
3	C:341:ILE:CA	C:344:GLU:HG2	0.681
3	D:95:LEU:HD13	D:100:VAL:HG21	0.681
3	A:15:LYS:HB2	A:65:TYR:HD1	0.680
3	A:53:GLU:CG	A:54:PRO:HD2	0.680
3	C:127:ARG:HG2	C:149:HIS:CA	0.680
3	C:248:VAL:CG2	C:301:VAL:HG23	0.680
3	D:284:LEU:HD21	D:296:VAL:HG11	0.680
3	C:249:ALA:CA	C:297:LEU:HB3	0.679
3	C:280:LYS:HA	C:284:ASP:HA	0.679
3	A:100:LEU:HD22	B:27:VAL:CG1	0.678
3	C:53:LYS:HE3	C:60:MET:CB	0.678
3	C:54:ASN:HB2	C:84:SER:CB	0.678
3	C:109:ALA:HA	C:112:ASN:ND2	0.678
3	C:56:ILE:CB	C:75:GLU:HG3	0.677

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:214:VAL:HG12	C:215:ASP:N	0.677
3	C:249:ALA:C	C:297:LEU:HB3	0.677
3	C:260:ASP:HA	C:304:GLY:CA	0.677
3	C:247:VAL:CG1	C:293:LYS:HB2	0.677
3	D:168:LEU:CD1	D:213:VAL:HG13	0.677
3	A:205:LEU:O	A:205:LEU:HD23	0.676
3	C:268:ALA:HB1	C:341:ILE:CD1	0.676
3	D:160:SER:HB3	D:187:VAL:HG11	0.676
3	C:52:GLY:C	C:52:GLY:N	0.676
3	D:62:HIS:CD2	D:105:TYR:HB3	0.675
3	D:169:TRP:CE3	D:176:GLN:HB3	0.675
3	A:223:VAL:HG21	A:246:TYR:CE1	0.674
3	C:301:VAL:HG12	C:302:LEU:N	0.674
3	C:180:ASP:HA	C:293:LYS:O	0.673
3	D:81:ILE:HD11	D:112:VAL:CG2	0.673
3	F:92:THR:CG2	F:127:VAL:HB	0.673
3	C:51:SER:C	C:226:ALA:H	0.672
3	C:268:ALA:HB1	C:341:ILE:CB	0.672
3	C:271:LYS:HB2	C:280:LYS:HD3	0.672
3	D:198:LEU:HD23	D:210:LEU:CD2	0.672
3	C:45:LEU:HD23	C:184:VAL:HG11	0.671
3	C:55:THR:N	C:91:LYS:HD2	0.671
3	C:169:TYR:HD2	C:171:LEU:HD21	0.671

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:176:GLN:HB2	C:296:LEU:HD13	0.671
3	C:177:TYR:HA	C:180:ASP:HB3	0.671
3	C:185:ILE:HG22	C:208:PHE:HB2	0.671
3	C:248:VAL:HG21	C:301:VAL:HG23	0.671
3	D:40:VAL:CG2	D:304:ARG:HB3	0.671
3	D:155:ASN:HB2	E:63:GLU:H	0.671
3	D:256:ARG:HB2	E:28:ILE:HD13	0.671
3	F:87:LEU:H	F:87:LEU:HD13	0.671
3	F:100:CYS:HB2	F:108:CYS:SG	0.671
3	A:166:LEU:O	A:166:LEU:HD22	0.670
3	C:104:GLU:HB3	C:131:ILE:CG1	0.670
3	C:271:LYS:HB2	C:280:LYS:CD	0.670
3	F:33:TYR:CE2	F:35:MET:HB2	0.670
3	A:295:GLY:O	A:299:LEU:HD22	0.669
3	C:47:GLY:HA3	C:224:VAL:HG21	0.669
3	C:184:VAL:HB	C:208:PHE:CD2	0.669
3	C:274:ASP:HB3	C:279:ASN:CA	0.669
3	D:101:MET:HE2	D:147:SER:HA	0.669
3	D:205:ASP:CG	F:117:ALA:HB1	0.669
3	A:160:LEU:CD2	A:220:TRP:HB3	0.668
3	C:43:LEU:HD22	C:219:PHE:HZ	0.668
3	C:102:ALA:CB	C:175:ALA:HB2	0.668
3	C:280:LYS:CB	C:280:LYS:O	0.668

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:292:ASN:HB2	C:294:GLN:C	0.668
3	D:188:MET:CE	D:230:ASN:HA	0.668
3	D:313:ASN:CG	D:331:SER:HB3	0.668
3	A:185:ALA:HB1	A:194:LEU:HD11	0.667
3	C:45:LEU:HD22	C:245:ILE:HG23	0.667
3	C:56:ILE:HA	C:178:PHE:CE1	0.667
3	C:58:LYS:HG3	C:59:GLN:N	0.667
3	C:296:LEU:HB3	C:301:VAL:N	0.667
3	D:106:ALA:HA	E:57:SER:N	0.667
3	D:112:VAL:HB	D:124:TYR:CD2	0.667
3	C:42:ARG:CD	C:241:VAL:HG22	0.666
3	C:43:LEU:HD12	C:44:LEU:H	0.666
3	C:44:LEU:CD2	C:47:GLY:HA3	0.666
3	C:50:GLU:CA	C:224:VAL:HG13	0.666
3	C:237:CYS:HB2	D:99:TRP:CZ3	0.666
3	D:20:ASP:HA	D:26:ALA:O	0.666
3	D:283:ARG:HB2	E:41:CYS:SG	0.666
3	F:39:ARG:O	F:47:GLU:HG2	0.666
3	A:136:LEU:CD2	A:165:ILE:HB	0.665
3	C:31:GLN:HE21	C:32:LYS:HE3	0.665
3	C:56:ILE:CD1	C:174:CYS:HB3	0.665
3	C:134:VAL:HG21	C:140:PHE:CE1	0.665
3	C:153:LEU:O	C:159:VAL:HG21	0.665

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:154:TRP:HZ2	C:302:LEU:HD11	0.665
3	C:305:LYS:HB3	F:45:GLY:HA3	0.665
3	F:5:LEU:CD2	F:97:CYS:HB3	0.665
3	A:255:LEU:HD13	A:259:VAL:HG23	0.664
3	A:413:LEU:CD2	F:54:GLN:HB2	0.664
3	C:57:VAL:CG2	C:95:ILE:HD13	0.664
3	C:110:MET:CG	C:117:VAL:HB	0.664
3	C:127:ARG:CG	C:149:HIS:HB3	0.664
3	C:276:ILE:CA	C:348:ILE:HG13	0.664
3	D:63:TRP:CZ3	D:70:LEU:HD12	0.664
3	D:166:CYS:HB2	D:180:PHE:HB3	0.664
3	A:37:LEU:C	A:37:LEU:HD13	0.663
3	C:53:LYS:CB	C:55:THR:HG23	0.663
3	C:58:LYS:HB2	C:225:GLY:O	0.663
3	C:83:ASN:CG	D:120:ILE:HD12	0.663
3	C:188:ALA:HB2	C:210:THR:HG21	0.663
3	C:264:ASN:C	C:308:ILE:HD11	0.663
3	C:296:LEU:N	C:301:VAL:HB	0.663
3	D:110:ASN:HD22	E:60:PRO:HG3	0.663
3	C:178:PHE:O	C:181:LYS:HG3	0.662
3	C:205:SER:HB2	C:207:ILE:CD1	0.662
3	C:275:SER:HA	C:280:LYS:O	0.662
3	C:324:ALA:HB1	C:339:TYR:HE1	0.662

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:271:CYS:CB	D:290:ASP:HB2	0.662
3	C:43:LEU:HD13	C:243:ALA:HB3	0.661
3	C:201:ARG:HG3	C:210:THR:OG1	0.661
3	D:151:PHE:CD2	E:59:ASN:HB2	0.661
3	D:162:GLY:HA2	D:186:ASP:OD1	0.661
3	A:45:GLU:HG3	B:26:LEU:CD2	0.660
3	C:92:VAL:O	C:95:ILE:HG13	0.660
3	C:295:ASP:C	C:296:LEU:HD23	0.660
3	A:215:ALA:HA	A:218:TYR:CE1	0.659
3	C:282:LEU:HG	F:107:ASP:HB2	0.659
3	C:279:ASN:O	C:284:ASP:HB3	0.659
3	C:296:LEU:CD2	C:302:LEU:HD22	0.659
3	C:330:GLU:HG2	C:335:THR:HG23	0.659
3	D:61:MET:CE	D:70:LEU:HD11	0.659
3	C:246:PHE:CA	C:287:VAL:H	0.659
3	C:293:LYS:H	C:295:ASP:H	0.659
3	C:53:LYS:CG	C:56:ILE:HG22	0.658
3	C:91:LYS:HG2	C:92:VAL:N	0.658
3	C:268:ALA:CA	C:341:ILE:HD12	0.658
3	C:269:ALA:HA	C:344:GLU:CD	0.658
3	C:272:LEU:HD23	C:345:PHE:CD1	0.658
3	D:111:TYR:HB3	E:59:ASN:C	0.658
3	C:54:ASN:CB	C:84:SER:HB3	0.657

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:119:LEU:N	C:119:LEU:HD22	0.657
3	C:246:PHE:N	C:286:SER:HB3	0.657
3	D:229:ILE:HD11	D:232:ILE:HG21	0.657
3	A:148:HIS:CE1	D:52:ARG:HG3	0.656
3	A:230:THR:HA	A:234:PHE:HE2	0.656
3	C:45:LEU:HD13	C:245:ILE:HG23	0.656
3	C:184:VAL:CB	C:223:ASP:HA	0.656
3	C:296:LEU:CG	C:298:ALA:HA	0.656
3	C:305:LYS:HB3	F:113:SER:OG	0.656
3	F:35:MET:CE	F:80:LEU:HD23	0.656
3	A:182:TYR:HB2	B:18:ALA:CB	0.655
3	C:154:TRP:CE3	C:179:LEU:HD13	0.655
3	C:93:GLN:CB	C:190:TYR:HB2	0.655
3	C:248:VAL:CG1	C:300:LYS:HG2	0.655
3	D:40:VAL:HG21	D:266:HIS:CE1	0.655
3	D:105:TYR:CA	E:58:GLU:H	0.655
3	C:54:ASN:OD1	C:84:SER:HB3	0.654
3	C:154:TRP:CZ3	C:179:LEU:HD13	0.654
3	C:292:ASN:ND2	C:294:GLN:HA	0.654
3	D:59:TYR:CD1	D:101:MET:HG3	0.654
3	F:87:LEU:HD21	F:127:VAL:HG11	0.654
3	C:81:ARG:CD	C:91:LYS:HB2	0.653
3	C:107:VAL:HG11	C:128:VAL:HG13	0.653

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:244:ILE:HG12	C:287:VAL:CG2	0.653
3	C:256:VAL:HG12	C:257:ILE:N	0.653
3	C:307:LYS:HD3	F:47:GLU:CB	0.653
3	D:81:ILE:HG22	D:90:VAL:HG13	0.653
3	D:139:LEU:HG	D:169:TRP:CE2	0.653
3	D:226:GLU:HB3	F:28:PHE:HD1	0.653
3	D:105:TYR:O	E:57:SER:HB2	0.653
3	C:44:LEU:HD11	C:47:GLY:CA	0.652
3	C:154:TRP:CD2	C:179:LEU:HD13	0.652
3	C:248:VAL:CB	C:301:VAL:HG23	0.652
3	F:59:ILE:HD13	F:60:SER:N	0.652
3	C:58:LYS:HG2	C:177:TYR:CE2	0.651
3	C:62:ILE:O	C:63:LEU:HD12	0.651
3	C:99:LEU:HG	C:179:LEU:CD2	0.651
3	C:155:GLU:CB	C:365:CYS:HA	0.651
3	D:15:LYS:HE2	E:19:LEU:HD23	0.651
3	F:30:PHE:CE2	F:78:ASN:HA	0.651
3	F:89:PRO:HA	F:127:VAL:O	0.651
3	A:285:ILE:HG13	A:286:ILE:N	0.650
3	B:20:LYS:O	B:23:ILE:HG22	0.650
3	C:50:GLU:HB2	C:227:GLN:HB3	0.650
3	C:60:MET:HG3	C:252:SER:O	0.650
3	D:48:ARG:C	D:338:ILE:HG21	0.650

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	F:101:PRO:HG2	F:116:TYR:CE2	0.650
3	A:283:TRP:HH2	B:1:HIS:HB3	0.649
3	C:45:LEU:HD22	C:245:ILE:CG2	0.649
3	C:73:GLY:HA3	C:97:ASN:CG	0.649
3	C:147:TYR:CD1	C:186:LYS:HB2	0.649
3	C:149:HIS:HA	C:153:LEU:HD13	0.649
3	C:181:LYS:HD2	C:182:ILE:N	0.649
3	D:79:LEU:CD2	D:112:VAL:HG11	0.649
3	D:105:TYR:C	E:57:SER:HB2	0.649
3	D:107:PRO:HD2	E:56:ALA:CB	0.649
3	D:128:THR:HG21	D:131:GLY:N	0.649
3	E:57:SER:C	E:57:SER:CB	0.649
3	F:99:ARG:HB3	F:118:TYR:CE2	0.649
3	C:92:VAL:HG12	C:185:ILE:HD11	0.648
3	C:184:VAL:HG23	C:223:ASP:CG	0.648
3	C:180:ASP:OD2	C:296:LEU:HG	0.648
3	C:296:LEU:HD22	C:301:VAL:C	0.648
3	D:101:MET:CE	D:147:SER:HA	0.648
3	F:41:ALA:CB	F:93:ALA:HB2	0.648
3	D:46:ARG:HG2	D:47:THR:N	0.647
3	D:119:ASN:CG	D:142:HIS:HB2	0.647
3	F:12:LEU:HA	F:126:THR:HG23	0.647
3	C:91:LYS:C	C:91:LYS:HZ3	0.646

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:249:ALA:N	C:300:LYS:HB3	0.646
3	D:19:ARG:HG3	D:29:THR:CA	0.646
3	D:229:ILE:HD11	D:232:ILE:CG2	0.646
3	F:10:GLY:HA2	F:125:VAL:CG2	0.646
3	A:382:VAL:HG23	A:383:ASN:N	0.645
3	C:52:GLY:O	C:58:LYS:HA	0.645
3	C:296:LEU:HD22	C:301:VAL:O	0.645
3	D:315:VAL:HG23	D:330:GLY:O	0.645
3	F:38:VAL:HG13	F:47:GLU:O	0.645
3	F:41:ALA:HB2	F:93:ALA:HB2	0.645
3	A:75:GLY:HA2	A:102:GLU:OE2	0.644
3	A:305:ILE:HG23	A:306:CYS:N	0.644
3	A:307:ILE:HD11	C:384:GLN:CD	0.644
3	D:119:ASN:ND2	D:142:HIS:HB2	0.644
3	D:51:LEU:CB	D:336:LEU:HB2	0.644
3	E:13:ARG:O	E:16:VAL:HG12	0.644
3	C:44:LEU:C	C:44:LEU:HD13	0.643
3	C:272:LEU:HD23	C:345:PHE:CB	0.643
3	C:331:ASP:HB3	C:334:VAL:CG2	0.643
3	D:49:ARG:HB3	D:338:ILE:CB	0.643
3	A:257:PHE:CD1	A:289:PRO:HG2	0.642
3	C:184:VAL:HG12	C:208:PHE:HE2	0.642
3	C:208:PHE:CZ	C:210:THR:HB	0.642

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:136:LEU:HD11	A:161:PHE:CB	0.641
3	D:59:TYR:CE1	D:101:MET:HG3	0.641
3	D:77:GLY:C	D:95:LEU:HD12	0.641
3	D:80:ILE:HD12	D:89:LYS:CD	0.641
3	D:292:PHE:HB2	D:313:ASN:O	0.641
3	F:88:LYS:HB3	F:89:PRO:HD2	0.641
3	A:314:ALA:CB	A:319:LYS:HG2	0.640
3	C:127:ARG:HD2	C:127:ARG:O	0.640
3	C:140:PHE:CE2	C:142:PHE:HA	0.640
3	C:201:ARG:HG2	C:202:VAL:H	0.640
3	C:271:LYS:HG3	C:280:LYS:NZ	0.640
3	D:318:LEU:HD21	D:327:VAL:CG1	0.640
3	E:4:ASN:HB2	E:18:GLN:HB2	0.640
3	D:106:ALA:H	E:58:GLU:HG3	0.640
3	C:95:ILE:HD12	C:96:LYS:CA	0.639
3	C:248:VAL:HA	C:280:LYS:CG	0.639
3	D:102:THR:CG2	D:148:CYS:HA	0.639
3	D:179:THR:HG22	D:181:THR:HG23	0.639
3	F:35:MET:HG3	F:36:ASN:N	0.639
3	F:41:ALA:HA	F:93:ALA:HB1	0.639
3	F:70:THR:O	F:82:LEU:HD12	0.639
3	C:44:LEU:HD11	C:47:GLY:C	0.638
3	C:51:SER:HB3	C:54:ASN:OD1	0.638

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:127:ARG:HB3	C:153:LEU:CD2	0.638
3	C:179:LEU:O	C:182:ILE:HG22	0.638
3	C:191:VAL:CG1	C:192:PRO:HD3	0.638
3	C:269:ALA:HA	C:344:GLU:OE2	0.638
3	D:4:LEU:O	D:4:LEU:HD13	0.638
3	F:12:LEU:N	F:126:THR:HG23	0.638
3	A:11:GLU:CG	A:15:LYS:HZ3	0.637
3	A:68:TRP:NE1	A:105:GLU:HA	0.637
3	A:350:GLU:HG2	A:351:HIS:H	0.637
3	C:30:LEU:HD12	D:78:LYS:HZ3	0.637
3	C:44:LEU:HD12	C:244:ILE:CG1	0.637
3	C:53:LYS:CB	C:56:ILE:HG22	0.637
3	C:282:LEU:CG	F:107:ASP:HB2	0.637
3	C:382:ILE:O	C:382:ILE:HD13	0.637
3	D:151:PHE:CE2	E:59:ASN:HB2	0.637
3	D:183:HIS:CD2	D:203:ALA:HB1	0.637
3	F:92:THR:HG21	F:127:VAL:CB	0.637
3	C:81:ARG:HB3	C:91:LYS:HB2	0.636
3	C:276:ILE:HB	C:348:ILE:HB	0.636
3	C:340:PHE:O	C:341:ILE:HG22	0.636
3	C:344:GLU:O	C:347:ARG:HG2	0.636
3	C:83:ASN:O	D:119:ASN:HB3	0.636
3	F:35:MET:CG	F:80:LEU:HG	0.636

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:53:LYS:HG2	C:85:ASP:CG	0.635
3	C:54:ASN:HD21	C:206:GLY:C	0.635
3	C:280:LYS:CA	C:284:ASP:HA	0.635
3	C:303:ALA:O	C:306:SER:HB2	0.635
3	D:126:LEU:C	D:126:LEU:HD13	0.635
3	C:93:GLN:NE2	C:96:LYS:HE2	0.634
3	C:253:TYR:HD1	C:258:ARG:HB3	0.634
3	C:272:LEU:HD23	C:345:PHE:HD1	0.634
3	C:301:VAL:HG12	C:302:LEU:H	0.634
3	D:41:GLY:HA2	D:304:ARG:O	0.634
3	D:109:GLY:CA	E:58:GLU:HG2	0.634
3	A:236:VAL:HG23	A:237:LEU:H	0.633
3	A:395:GLU:HG3	A:402:LEU:CD2	0.633
3	C:57:VAL:HG11	C:185:ILE:HG23	0.633
3	C:231:ARG:HH12	C:283:ARG:HA	0.633
3	C:296:LEU:HD21	C:302:LEU:CD2	0.633
3	C:292:ASN:H	C:364:THR:HG21	0.633
3	D:107:PRO:HD2	E:56:ALA:HB1	0.633
3	A:258:VAL:CG2	A:286:ILE:HD13	0.632
3	C:54:ASN:CG	C:84:SER:HB3	0.632
3	C:110:MET:HB2	C:162:CYS:SG	0.632
3	C:127:ARG:CB	C:153:LEU:HD11	0.632
3	C:296:LEU:CD1	C:298:ALA:HA	0.632

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	E:4:ASN:CB	E:18:GLN:HB2	0.632
3	A:136:LEU:HD11	A:161:PHE:CA	0.631
3	C:56:ILE:HD12	C:60:MET:SD	0.631
3	C:72:GLY:HA2	C:93:GLN:CG	0.631
3	C:54:ASN:O	C:91:LYS:HE3	0.631
3	C:107:VAL:CG1	C:128:VAL:HG13	0.631
3	C:261:ASN:H	C:304:GLY:HA2	0.631
3	D:71:VAL:CG2	D:105:TYR:HB2	0.631
3	D:222:PHE:HZ	D:260:GLU:HB2	0.631
3	A:255:LEU:O	A:255:LEU:HD13	0.630
3	A:288:LEU:O	A:288:LEU:HD13	0.630
3	A:334:ILE:CG1	A:335:PRO:HD3	0.630
3	C:192:PRO:HA	C:195:GLN:HG2	0.630
3	C:235:ILE:HD12	C:283:ARG:CG	0.630
3	D:33:ILE:HG21	F:29:THR:CB	0.630
3	D:296:VAL:HB	D:305:ALA:O	0.630
3	A:71:SER:C	A:73:PRO:HD2	0.629
3	A:162:ALA:O	A:165:ILE:HG22	0.629
3	A:201:LEU:O	A:201:LEU:HD23	0.629
3	C:51:SER:CA	C:51:SER:O	0.629
3	C:55:THR:C	C:95:ILE:HG22	0.629
3	C:91:LYS:HE3	C:207:ILE:CB	0.629
3	C:156:ASP:O	C:159:VAL:HG22	0.629

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:303:ALA:HB1	C:306:SER:C	0.629
3	C:146:PHE:O	C:147:TYR:HB3	0.628
3	C:56:ILE:CG1	C:174:CYS:HB3	0.628
3	D:128:THR:HG21	D:131:GLY:O	0.628
3	F:38:VAL:HG22	F:48:TRP:CD1	0.628
3	A:290:ILE:O	A:290:ILE:HD13	0.627
3	C:75:GLU:HB2	C:98:ASN:H	0.627
3	C:246:PHE:CE2	C:285:THR:HB	0.627
3	D:108:SER:HB3	D:110:ASN:HD22	0.627
3	D:270:ILE:N	D:270:ILE:HD12	0.627
3	D:285:LEU:HD11	D:297:TRP:HD1	0.627
3	C:55:THR:CG2	C:81:ARG:HB2	0.626
3	C:56:ILE:CG1	C:98:ASN:HB3	0.626
3	D:191:SER:HB2	D:232:ILE:HD12	0.626
3	A:222:LEU:HA	A:297:ASN:ND2	0.625
3	A:114:PRO:HB3	A:117:GLN:NE2	0.624
3	C:312:PHE:N	C:313:PRO:HD3	0.624
3	D:108:SER:HB2	E:58:GLU:OE2	0.624
3	D:244:GLY:CA	D:273:ILE:HD11	0.624
3	E:52:THR:HG23	E:53:PRO:CD	0.624
3	F:46:LEU:HD22	F:96:TYR:OH	0.624
3	A:413:LEU:HD11	F:54:GLN:NE2	0.623
3	C:27:GLU:OE1	C:28:LYS:HG3	0.623

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:55:THR:CA	C:91:LYS:HD2	0.623
3	C:55:THR:HA	C:91:LYS:CG	0.623
3	C:259:GLU:HA	C:305:LYS:CG	0.623
3	C:280:LYS:C	C:285:THR:H	0.623
3	C:308:ILE:HG23	C:310:ASP:HA	0.623
3	D:206:ALA:CB	D:225:HIS:HB3	0.623
3	F:5:LEU:HD11	F:97:CYS:HB3	0.623
3	F:39:ARG:CG	F:49:VAL:HG21	0.623
3	A:265:LYS:HB2	A:282:TYR:OH	0.622
3	A:410:MET:H	A:413:LEU:HD13	0.622
3	C:60:MET:HE1	C:77:PRO:O	0.622
3	C:93:GLN:HB2	C:190:TYR:CB	0.622
3	C:57:VAL:CB	C:181:LYS:HG2	0.622
3	D:93:ILE:HD12	D:124:TYR:CE1	0.622
3	E:4:ASN:O	E:14:LYS:HG2	0.622
3	C:34:LYS:HA	D:55:LEU:CD1	0.621
3	C:96:LYS:HD2	C:96:LYS:O	0.621
3	C:288:ILE:HG13	C:290:PHE:HE1	0.621
3	D:240:ALA:HB1	D:253:PHE:O	0.621
3	E:4:ASN:C	E:14:LYS:HG2	0.621
3	A:311:LYS:HB2	C:384:GLN:HE21	0.620
3	C:48:ALA:C	C:235:ILE:HA	0.620
3	C:93:GLN:HG2	C:190:TYR:CD1	0.620

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:232:ARG:HB2	C:283:ARG:HD2	0.620
3	C:269:ALA:HA	C:344:GLU:OE1	0.620
3	C:382:ILE:C	C:382:ILE:HD13	0.620
3	D:182:GLY:O	D:209:LYS:HE3	0.620
3	F:12:LEU:CA	F:126:THR:HG23	0.620
3	F:20:ARG:HD2	F:81:TYR:CZ	0.620
3	F:101:PRO:HG2	F:116:TYR:OH	0.620
3	A:182:TYR:HB2	B:18:ALA:HB2	0.619
3	A:218:TYR:CD1	A:290:ILE:HG12	0.619
3	C:52:GLY:CA	C:207:ILE:HG22	0.619
3	C:56:ILE:HG12	C:178:PHE:CE2	0.619
3	C:75:GLU:HB2	C:98:ASN:N	0.619
3	C:295:ASP:C	C:301:VAL:HB	0.619
3	D:80:ILE:CD1	D:89:LYS:HB3	0.619
3	C:50:GLU:CB	C:227:GLN:HB3	0.618
3	C:56:ILE:CA	C:75:GLU:HG3	0.618
3	C:296:LEU:HB2	C:297:LEU:O	0.618
3	C:382:ILE:HA	C:385:ARG:HG2	0.618
3	D:226:GLU:CD	F:28:PHE:HA	0.618
3	F:5:LEU:C	F:5:LEU:HD23	0.618
3	C:84:SER:CB	D:119:ASN:HB2	0.617
3	C:184:VAL:HG23	C:223:ASP:OD1	0.617
3	D:22:ARG:HD3	D:259:GLN:HB3	0.617

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:171:ILE:HG13	D:172:GLU:N	0.617
3	D:252:LEU:C	D:252:LEU:HD13	0.617
3	D:106:ALA:N	E:58:GLU:HG3	0.617
3	F:82:LEU:HD12	F:83:GLN:N	0.617
3	F:92:THR:HG23	F:127:VAL:C	0.617
3	C:20:ARG:HD3	C:21:GLU:N	0.616
3	C:55:THR:HA	C:91:LYS:HD2	0.616
3	C:98:ASN:HB3	C:178:PHE:HE2	0.616
3	C:249:ALA:HB2	C:279:ASN:HD21	0.616
3	A:222:LEU:HD12	A:293:ALA:CB	0.615
3	C:92:VAL:HG13	C:207:ILE:CG1	0.615
3	C:244:ILE:HG12	C:287:VAL:HG23	0.615
3	D:19:ARG:HD3	D:19:ARG:O	0.615
3	D:269:ILE:HB	D:289:TYR:HE1	0.615
3	A:219:TYR:CE2	A:253:VAL:HG11	0.614
3	C:26:ILE:CG2	D:89:LYS:HE3	0.614
3	C:279:ASN:OD1	C:300:LYS:HB2	0.614
3	D:63:TRP:HZ3	D:70:LEU:HD12	0.614
3	D:229:ILE:HD11	D:243:THR:CB	0.614
3	D:233:CYS:O	D:241:PHE:HB2	0.614
3	D:326:ALA:HB1	D:338:ILE:CG1	0.614
3	C:50:GLU:CG	C:224:VAL:HG13	0.613
3	C:50:GLU:HB2	C:227:GLN:CD	0.613

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:338:ILE:HG23	D:339:TRP:N	0.613
3	A:214:VAL:HG12	A:218:TYR:HE1	0.612
3	A:346:PHE:CE1	A:347:VAL:HG23	0.612
3	C:100:LYS:HE3	C:140:PHE:CE2	0.612
3	C:198:LEU:HD22	C:199:ARG:H	0.612
3	C:268:ALA:CB	C:341:ILE:HG21	0.612
3	D:47:THR:HA	D:340:ASN:CG	0.612
3	F:48:TRP:CD2	F:111:VAL:HG23	0.612
3	A:181:MET:SD	A:197:TYR:HB3	0.611
3	C:227:GLN:NE2	C:231:ARG:HA	0.611
3	D:229:ILE:HD11	D:243:THR:HB	0.611
3	D:298:ASP:HB2	D:301:LYS:O	0.611
3	C:292:ASN:OD1	C:364:THR:HG21	0.610
3	E:28:ILE:HG23	E:32:LYS:HE3	0.610
3	E:54:VAL:CB	E:55:PRO:HD2	0.610
3	C:54:ASN:HB2	C:84:SER:CA	0.609
3	C:151:LYS:HD3	C:151:LYS:O	0.609
3	C:155:GLU:HB2	C:365:CYS:CA	0.609
3	D:33:ILE:CG2	F:29:THR:HB	0.609
3	D:155:ASN:O	D:171:ILE:HG23	0.609
3	F:103:PRO:HG2	F:104:PHE:H	0.609
3	A:138:ILE:HG23	A:139:ALA:N	0.608
3	A:265:LYS:HB2	A:282:TYR:CE2	0.608

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:52:GLY:HA3	C:54:ASN:O	0.608
3	C:55:THR:HB	C:81:ARG:CG	0.608
3	C:180:ASP:O	C:293:LYS:HG2	0.608
3	D:110:ASN:CB	E:60:PRO:HB3	0.608
3	D:172:GLU:HA	D:172:GLU:OE1	0.608
3	D:232:ILE:HG22	D:243:THR:HB	0.608
3	A:2:PRO:O	A:3:GLN:HG2	0.607
3	A:9:LEU:C	A:9:LEU:HD13	0.607
3	A:334:ILE:HG13	A:335:PRO:CD	0.607
3	B:5:THR:HG23	B:6:PHE:N	0.607
3	C:75:GLU:HG2	C:94:ASP:O	0.607
3	C:99:LEU:CD1	C:182:ILE:HD12	0.607
3	C:203:LEU:N	C:203:LEU:HD22	0.607
3	D:135:VAL:HG12	D:136:SER:O	0.607
3	A:148:HIS:C	A:149:LEU:HD22	0.606
3	C:102:ALA:O	C:105:THR:HG22	0.606
3	C:155:GLU:HB2	C:365:CYS:HA	0.606
3	C:98:ASN:ND2	C:172:ILE:HG22	0.606
3	C:274:ASP:HB3	C:279:ASN:HB3	0.606
3	C:291:LEU:O	C:291:LEU:HD13	0.606
3	D:73:ALA:HB2	D:79:LEU:CD1	0.606
3	D:182:GLY:C	E:3:SER:HB3	0.606
3	D:264:TYR:OH	D:269:ILE:HD11	0.606

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:55:THR:HG22	C:81:ARG:HB2	0.605
3	C:56:ILE:HG13	C:98:ASN:CB	0.605
3	C:104:GLU:HG3	C:135:MET:CB	0.605
3	C:106:ILE:HD13	C:154:TRP:HZ3	0.605
3	C:288:ILE:O	C:288:ILE:HG13	0.605
3	D:47:THR:HG22	D:48:ARG:N	0.605
3	A:261:TRP:CB	A:285:ILE:HD11	0.604
3	A:301:PHE:CZ	A:330:THR:HG22	0.604
3	A:379:TYR:O	A:382:VAL:HG13	0.604
3	C:176:GLN:CG	C:251:SER:HB3	0.604
3	C:189:ASP:C	C:198:LEU:HG	0.604
3	C:268:ALA:HA	C:271:LYS:HZ2	0.604
3	C:341:ILE:HA	C:344:GLU:OE1	0.604
3	D:276:VAL:HG22	D:287:ALA:HB2	0.604
3	C:167:ASN:HD21	C:258:ARG:HH21	0.604
3	A:88:LEU:O	A:88:LEU:HD23	0.603
3	A:309:VAL:O	A:313:LYS:HD3	0.603
3	B:11:SER:O	B:14:LEU:HB3	0.603
3	C:127:ARG:HG2	C:149:HIS:CB	0.603
3	C:289:LEU:HD23	C:361:PRO:HA	0.603
3	C:295:ASP:CB	C:296:LEU:HD23	0.603
3	C:141:ASP:HB2	C:192:PRO:C	0.602
3	C:184:VAL:HG21	C:223:ASP:HA	0.602

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:201:ARG:NH2	C:207:ILE:HD11	0.602
3	C:291:LEU:CD2	C:341:ILE:HD13	0.602
3	C:296:LEU:CA	C:301:VAL:H	0.602
3	D:81:ILE:HD11	D:112:VAL:HG21	0.602
3	D:311:HIS:CE1	D:329:THR:HG21	0.602
3	A:337:LEU:O	A:337:LEU:HD13	0.601
3	C:56:ILE:CG1	C:178:PHE:CZ	0.601
3	C:58:LYS:HA	C:226:ALA:HB3	0.601
3	C:178:PHE:C	C:181:LYS:HG3	0.601
3	D:42:ARG:O	D:43:ILE:HB	0.601
3	D:111:TYR:CD2	E:59:ASN:HB3	0.601
3	D:126:LEU:HD23	D:133:VAL:CG1	0.601
3	D:169:TRP:HE1	D:174:GLY:HA2	0.601
3	D:300:LEU:HD21	E:37:LEU:CD2	0.601
3	E:37:LEU:O	E:37:LEU:HD23	0.601
3	D:153:ASP:O	E:63:GLU:HB3	0.601
3	A:57:PHE:HE1	A:78:TYR:HA	0.600
3	A:149:LEU:HD23	A:151:CYS:HB3	0.600
3	A:389:GLU:HA	A:392:LYS:CD	0.600
3	C:53:LYS:HG2	C:85:ASP:OD2	0.600
3	C:91:LYS:HE2	C:95:ILE:CG2	0.600
3	C:178:PHE:CA	C:181:LYS:HG3	0.600
3	D:124:TYR:CE1	D:133:VAL:HG21	0.600

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:232:ILE:C	D:232:ILE:HD12	0.600
3	A:37:LEU:O	A:37:LEU:HD13	0.599
3	A:71:SER:HB2	A:108:ARG:HD2	0.599
3	A:374:MET:O	A:377:ILE:HG22	0.599
3	C:91:LYS:CE	C:207:ILE:HB	0.599
3	D:77:GLY:O	D:95:LEU:HB2	0.599
3	D:108:SER:HB3	D:110:ASN:ND2	0.599
3	D:120:ILE:HD13	D:138:GLU:CD	0.599
3	D:126:LEU:O	D:126:LEU:HD22	0.599
3	D:126:LEU:HD23	D:133:VAL:HG11	0.599
3	D:318:LEU:HD11	D:327:VAL:HG11	0.599
3	E:9:ILE:HG23	E:10:ALA:N	0.599
3	E:57:SER:CA	E:57:SER:O	0.599
3	F:37:TRP:CZ2	F:82:LEU:HD22	0.599
3	D:106:ALA:N	E:58:GLU:N	0.599
3	A:118:LEU:CD1	A:119:LEU:HD23	0.598
3	A:221:LEU:HD21	A:337:LEU:O	0.598
3	A:404:ILE:C	A:404:ILE:HD12	0.598
3	A:413:LEU:HD23	A:414:LYS:H	0.598
3	C:56:ILE:HG13	C:178:PHE:CZ	0.598
3	C:71:GLU:HG2	C:190:TYR:CD1	0.598
3	C:74:GLU:HB2	C:94:ASP:OD1	0.598
3	C:233:LYS:H22	D:188:MET:HG3	0.598

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:248:ALA:HB2	D:271:CYS:O	0.598
3	C:87:GLU:HA	C:87:GLU:OE1	0.597
3	C:110:MET:CE	C:119:LEU:HD21	0.597
3	C:248:VAL:HG22	C:280:LYS:HD2	0.597
3	C:229:ASP:OD1	C:297:LEU:HG	0.597
3	F:65:VAL:O	F:65:VAL:HG23	0.597
3	A:15:LYS:HB3	A:65:TYR:HB2	0.596
3	A:186:ALA:HA	A:189:HIS:O	0.596
3	C:57:VAL:CG2	C:185:ILE:HG23	0.596
3	C:58:LYS:HE3	C:59:GLN:HB2	0.596
3	C:110:MET:HE2	C:119:LEU:HD11	0.596
3	C:208:PHE:HB3	C:223:ASP:HB2	0.596
3	C:233:LYS:HE2	D:101:MET:SD	0.596
3	C:280:LYS:O	C:285:THR:HG23	0.596
3	C:385:ARG:HB2	C:385:ARG:NH1	0.596
3	D:57:LYS:HE2	D:59:TYR:HD2	0.596
3	D:105:TYR:HA	E:58:GLU:H	0.596
3	D:191:SER:O	D:199:PHE:HB2	0.596
3	D:225:HIS:CE1	D:245:SER:HB2	0.596
3	D:155:ASN:HD22	E:62:ARG:HG2	0.596
3	A:64:TRP:O	A:65:TYR:HB3	0.595
3	A:70:SER:C	A:73:PRO:HD3	0.595
3	A:71:SER:OG	A:108:ARG:HB2	0.595

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:300:ILE:C	A:300:ILE:HD12	0.595
3	A:434:THR:HG23	A:435:CYS:H	0.595
3	C:127:ARG:HG2	C:149:HIS:C	0.595
3	C:276:ILE:HB	C:348:ILE:CG2	0.595
3	D:19:ARG:O	D:22:ARG:HB3	0.595
3	D:160:SER:CB	D:187:VAL:HG11	0.595
3	D:273:ILE:HG22	D:288:GLY:O	0.595
3	E:64:LYS:HG3	E:65:LYS:H	0.595
3	A:59:ASN:HB2	A:76:HIS:HB3	0.594
3	A:150:HIS:CG	C:392:GLU:HG2	0.594
3	C:173:ASP:HB3	C:253:TYR:H	0.594
3	C:267:GLN:HB3	C:308:ILE:CD1	0.594
3	C:276:ILE:HG12	F:106:ARG:HH22	0.594
3	C:265:ARG:O	C:308:ILE:HD11	0.594
3	E:4:ASN:CG	E:18:GLN:HB2	0.594
3	A:158:LEU:HB3	A:161:PHE:HE1	0.593
3	A:251:TRP:O	A:254:PRO:HD2	0.593
3	C:43:LEU:HD12	C:243:ALA:O	0.593
3	C:81:ARG:HD3	C:87:GLU:CB	0.593
3	D:124:TYR:HE1	D:133:VAL:HG21	0.593
3	A:72:VAL:HG22	A:106:SER:HB3	0.592
3	A:91:ASP:HB3	A:94:SER:OG	0.592
3	A:156:ILE:O	A:160:LEU:HG	0.592

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:410:MET:O	A:413:LEU:HB2	0.592
3	B:26:LEU:C	B:26:LEU:HD23	0.592
3	C:60:MET:HG3	C:252:SER:OG	0.592
3	C:163:TYR:CD2	C:302:LEU:HD12	0.592
3	C:246:PHE:CE1	C:280:LYS:HE3	0.592
3	C:180:ASP:OD1	C:293:LYS:HD3	0.592
3	C:268:ALA:O	C:341:ILE:HD12	0.592
3	D:206:ALA:HB1	D:225:HIS:HB3	0.592
3	F:54:GLN:OE1	F:104:PHE:HA	0.592
3	C:293:LYS:H	C:295:ASP:N	0.592
3	A:59:ASN:HB2	A:76:HIS:CB	0.591
3	A:245:LEU:CD1	A:249:ILE:HD13	0.591
3	A:275:THR:O	A:275:THR:HG23	0.591
3	A:283:TRP:CZ3	A:286:ILE:HG23	0.591
3	C:89:ALA:HB2	C:204:THR:CA	0.591
3	C:164:GLU:HG2	C:262:GLN:O	0.591
3	C:378:ASP:O	C:381:ASP:HB3	0.591
3	A:214:VAL:HG11	B:1:HIS:H2	0.590
3	A:242:ILE:HG23	A:243:PHE:N	0.590
3	A:294:ILE:CG2	A:342:VAL:HB	0.590
3	C:95:ILE:HG12	C:185:ILE:HD13	0.590
3	C:142:PHE:CD2	C:186:LYS:HD3	0.590
3	D:105:TYR:CZ	D:109:GLY:HA2	0.590

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:48:ARG:O	D:338:ILE:HG21	0.590
3	F:40:GLN:HG3	F:44:LYS:O	0.590
3	A:11:GLU:HG2	A:15:LYS:NZ	0.589
3	A:250:GLY:O	A:254:PRO:HD3	0.589
3	A:283:TRP:CE3	A:286:ILE:HG23	0.589
3	A:211:GLN:HE22	B:1:HIS:HB2	0.589
3	C:45:LEU:HG	C:184:VAL:CG1	0.589
3	C:76:ASP:OD1	C:77:PRO:HD2	0.589
3	C:185:ILE:HB	C:208:PHE:HB2	0.589
3	D:107:PRO:CD	E:56:ALA:HA	0.589
3	D:113:ALA:HB2	D:151:PHE:CE1	0.589
3	D:232:ILE:O	D:232:ILE:HD12	0.589
3	A:45:GLU:HG3	B:26:LEU:HD21	0.588
3	A:203:CYS:SG	A:273:CYS:HB2	0.588
3	A:275:THR:OG1	B:8:SER:HA	0.588
3	C:91:LYS:HE3	C:207:ILE:HG21	0.588
3	C:222:PHE:CE2	C:224:VAL:HG23	0.588
3	C:246:PHE:CA	C:287:VAL:N	0.588
3	D:292:PHE:CE2	D:311:HIS:HB2	0.588
3	E:17:GLU:OE2	E:20:LYS:HB2	0.588
3	A:200:SER:O	A:201:LEU:HB3	0.587
3	A:322:ILE:HG12	A:323:LYS:N	0.587
3	C:49:GLY:HA3	C:234:TRP:O	0.587

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:56:ILE:HD12	C:75:GLU:OE1	0.587
3	C:81:ARG:CB	C:91:LYS:HG3	0.587
3	C:92:VAL:HG12	C:189:ASP:CG	0.587
3	C:245:ILE:HG13	C:290:PHE:CD1	0.587
3	C:246:PHE:HA	C:286:SER:N	0.587
3	D:112:VAL:O	D:124:TYR:HB3	0.587
3	D:160:SER:HB3	D:187:VAL:CG1	0.587
3	D:318:LEU:HD11	D:327:VAL:CG1	0.587
3	E:58:GLU:O	E:59:ASN:HB2	0.587
3	F:69:PHE:CE2	F:82:LEU:HD11	0.587
3	C:54:ASN:HD21	C:207:ILE:N	0.587
3	A:170:SER:OG	A:210:MET:HA	0.586
3	C:272:LEU:HD23	C:345:PHE:HA	0.586
3	C:392:GLU:HB3	C:394:LEU:HD13	0.586
3	F:5:LEU:HD11	F:23:CYS:HG	0.586
3	F:96:TYR:CD2	F:119:ARG:HD2	0.586
3	C:84:SER:HB2	D:119:ASN:H	0.585
3	C:276:ILE:HB	C:348:ILE:CB	0.585
3	F:25:ALA:HB3	F:78:ASN:OD1	0.585
3	F:63:GLY:O	F:66:LYS:HG3	0.585
3	F:98:ALA:CB	F:119:ARG:HB3	0.585
3	A:264:VAL:HB	A:282:TYR:HE1	0.584
3	C:55:THR:HB	C:81:ARG:HG3	0.584

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:177:TYR:HA	C:180:ASP:CB	0.584
3	D:189:SER:OG	D:231:ALA:HA	0.584
3	A:389:GLU:HA	A:392:LYS:HE2	0.583
3	C:95:ILE:HG12	C:185:ILE:CD1	0.583
3	D:139:LEU:HD21	D:169:TRP:CE3	0.583
3	F:72:SER:OG	F:81:TYR:HB3	0.583
3	A:265:LYS:HB2	A:282:TYR:CZ	0.582
3	C:44:LEU:HG	C:47:GLY:C	0.582
3	C:85:ASP:HA	D:143:THR:CA	0.582
3	C:100:LYS:HE3	C:140:PHE:CZ	0.582
3	C:154:TRP:CH2	C:179:LEU:HD13	0.582
3	C:166:SER:HB2	C:171:LEU:HD12	0.582
3	C:237:CYS:HB2	D:99:TRP:CH2	0.582
3	C:268:ALA:C	C:341:ILE:HD12	0.582
3	C:269:ALA:HB2	C:344:GLU:OE1	0.582
3	C:292:ASN:HD22	C:294:GLN:HG2	0.582
3	D:52:ARG:HG2	D:53:GLY:N	0.582
3	D:71:VAL:CG2	D:81:ILE:HG12	0.582
3	D:172:GLU:HB3	E:62:ARG:NH1	0.582
3	D:169:TRP:NE1	D:174:GLY:HA2	0.582
3	D:204:CYS:O	D:228:ASP:HA	0.582
3	A:71:SER:HA	A:108:ARG:NH1	0.581
3	A:149:LEU:C	A:149:LEU:HD23	0.581

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:218:TYR:O	A:219:TYR:HB2	0.581
3	A:221:LEU:O	A:221:LEU:HD23	0.581
3	C:20:ARG:C	C:20:ARG:HD3	0.581
3	C:51:SER:HB3	C:54:ASN:ND2	0.581
3	C:53:LYS:HG2	C:85:ASP:HB2	0.581
3	C:149:HIS:C	C:153:LEU:HD13	0.581
3	D:121:CYS:HB2	D:146:LEU:CD1	0.581
3	A:95:LEU:HB2	A:96:PRO:HD3	0.580
3	A:268:TYR:CD2	A:269:GLU:HG3	0.580
3	A:297:ASN:O	A:300:ILE:HG13	0.580
3	C:44:LEU:HG	C:47:GLY:O	0.580
3	C:95:ILE:C	C:95:ILE:HD12	0.580
3	C:45:LEU:CG	C:184:VAL:HG13	0.580
3	D:7:LEU:O	D:7:LEU:HD12	0.580
3	D:106:ALA:HB1	D:107:PRO:CD	0.580
3	D:107:PRO:HD2	E:56:ALA:CA	0.580
3	D:150:ARG:O	D:157:ILE:HG13	0.580
3	D:284:LEU:HD13	D:285:LEU:N	0.580
3	F:127:VAL:O	F:127:VAL:HG12	0.580
3	A:57:PHE:HD1	A:78:TYR:HD1	0.580
3	C:50:GLU:HB2	C:227:GLN:OE1	0.579
3	C:188:ALA:CB	C:201:ARG:HG3	0.579
3	D:139:LEU:HG	D:169:TRP:CG	0.579

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:262:MET:HG2	D:263:THR:N	0.579
3	D:311:HIS:HB3	D:313:ASN:OD1	0.579
3	C:208:PHE:HD2	C:223:ASP:N	0.579
3	C:220:HIS:HD2	C:221:MET:N	0.579
3	A:214:VAL:HA	A:217:ASN:OD1	0.578
3	A:216:ALA:HB1	A:220:TRP:NE1	0.578
3	A:228:LEU:O	A:232:LEU:HG	0.578
3	A:253:VAL:N	A:254:PRO:HD2	0.578
3	C:53:LYS:HA	C:226:ALA:CB	0.578
3	C:141:ASP:OD2	C:193:SER:HB3	0.578
3	C:198:LEU:CD1	C:199:ARG:H	0.578
3	C:190:TYR:O	C:198:LEU:HD12	0.578
3	C:278:ASN:HB3	F:108:CYS:O	0.578
3	C:346:LEU:O	C:346:LEU:HD13	0.578
3	D:73:ALA:HB2	D:79:LEU:HD12	0.578
3	D:151:PHE:HB2	E:57:SER:HA	0.578
3	A:287:ARG:O	A:290:ILE:HG22	0.577
3	C:151:LYS:HG2	C:294:GLN:CB	0.577
3	C:244:ILE:CB	C:287:VAL:HB	0.577
3	D:82:TRP:CZ3	D:89:LYS:HG2	0.577
3	D:285:LEU:HD12	D:299:ALA:CB	0.577
3	C:249:ALA:N	C:297:LEU:H	0.577
3	A:218:TYR:CD2	A:219:TYR:HD1	0.576

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:346:PHE:CD1	A:347:VAL:HG23	0.576
3	C:45:LEU:HB2	C:184:VAL:CG2	0.576
3	C:75:GLU:HG2	C:94:ASP:OD2	0.576
3	C:104:GLU:CG	C:135:MET:HG3	0.576
3	C:154:TRP:CE2	C:179:LEU:HD13	0.576
3	C:246:PHE:CZ	C:289:LEU:HD13	0.576
3	C:346:LEU:C	C:346:LEU:HD13	0.576
3	E:50:LEU:C	E:50:LEU:HD22	0.576
3	F:66:LYS:HB2	F:66:LYS:NZ	0.576
3	F:87:LEU:C	F:87:LEU:HD22	0.576
3	A:374:MET:HA	A:377:ILE:HG22	0.575
3	C:57:VAL:HG22	C:95:ILE:HB	0.575
3	C:59:GLN:HA	C:251:SER:H	0.575
3	C:66:ASN:O	C:87:GLU:HG3	0.575
3	C:88:LYS:O	C:91:LYS:HB3	0.575
3	C:73:GLY:CA	C:94:ASP:HA	0.575
3	C:184:VAL:CG2	C:223:ASP:HA	0.575
3	C:246:PHE:HB3	C:290:PHE:H	0.575
3	C:244:ILE:O	C:288:ILE:HG23	0.575
3	D:87:THR:O	D:87:THR:HG23	0.575
3	E:58:GLU:CD	E:60:PRO:HD3	0.575
3	E:64:LYS:HA	E:64:LYS:NZ	0.575
3	A:9:LEU:O	A:9:LEU:HD13	0.574

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:95:LEU:HB2	A:96:PRO:HD2	0.574
3	C:44:LEU:HD12	C:244:ILE:HG13	0.574
3	C:82:SER:HB2	C:91:LYS:HE3	0.574
3	C:177:TYR:CA	C:180:ASP:HB3	0.574
3	C:51:SER:N	C:224:VAL:HA	0.574
3	C:324:ALA:O	C:326:PRO:HD3	0.574
3	D:301:LYS:HB3	D:301:LYS:HZ2	0.574
3	D:205:ASP:OD1	F:117:ALA:HB1	0.574
3	C:117:VAL:HG11	C:158:GLY:O	0.573
3	C:71:GLU:OE1	C:191:VAL:HB	0.573
3	C:272:LEU:HG	C:345:PHE:CA	0.573
3	D:195:ASP:OD1	E:70:ILE:HG13	0.573
3	F:5:LEU:HD11	F:97:CYS:CB	0.573
3	C:293:LYS:N	C:295:ASP:H	0.573
3	A:57:PHE:CE1	A:78:TYR:HA	0.572
3	A:95:LEU:CD2	A:95:LEU:H	0.572
3	A:128:GLY:O	A:129:TYR:HB3	0.572
3	A:411:LYS:HE3	A:412:PRO:HD2	0.572
3	A:98:ARG:NH2	B:27:VAL:HG13	0.572
3	C:58:LYS:HD3	C:225:GLY:O	0.572
3	C:105:THR:CG2	C:171:LEU:HD22	0.572
3	C:149:HIS:CA	C:153:LEU:HD13	0.572
3	C:272:LEU:HD12	C:344:GLU:CB	0.572

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:291:LEU:C	C:291:LEU:HD13	0.572
3	D:111:TYR:O	E:58:GLU:HB2	0.572
3	A:21:ARG:HD2	A:21:ARG:O	0.571
3	A:156:ILE:HD13	A:224:GLU:OE1	0.571
3	A:163:SER:HB3	A:216:ALA:O	0.571
3	A:311:LYS:HB2	C:384:GLN:NE2	0.571
3	C:91:LYS:HE3	C:207:ILE:HB	0.571
3	C:141:ASP:HB2	C:193:SER:OG	0.571
3	C:176:GLN:HG3	C:251:SER:HB3	0.571
3	C:198:LEU:HD22	C:199:ARG:N	0.571
3	C:235:ILE:HD11	C:283:ARG:HA	0.571
3	C:276:ILE:HB	C:348:ILE:HG21	0.571
3	E:54:VAL:HB	E:55:PRO:CD	0.571
3	D:109:GLY:H	E:58:GLU:CG	0.571
3	C:30:LEU:HD12	D:78:LYS:NZ	0.570
3	C:50:GLU:CA	C:224:VAL:HG22	0.570
3	C:105:THR:OG1	C:171:LEU:HD22	0.570
3	C:176:GLN:HG3	C:298:ALA:HB1	0.570
3	C:293:LYS:C	C:295:ASP:H	0.570
3	D:164:THR:O	D:164:THR:HG23	0.570
3	D:219:ARG:O	D:220:GLN:HG3	0.570
3	F:11:GLY:C	F:126:THR:HG23	0.570
3	F:33:TYR:HE2	F:35:MET:HE2	0.570

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:24:LYS:O	C:27:GLU:HG3	0.569
3	C:46:LEU:C	C:224:VAL:HG11	0.569
3	C:56:ILE:CD1	C:75:GLU:HB3	0.569
3	C:61:ARG:HG2	C:253:TYR:HA	0.569
3	C:124:ASN:OD1	C:128:VAL:HG23	0.569
3	C:147:TYR:CD1	C:182:ILE:HG12	0.569
3	C:98:ASN:OD1	C:172:ILE:HD12	0.569
3	C:181:LYS:C	C:181:LYS:HD2	0.569
3	C:232:ARG:HB2	C:283:ARG:HH11	0.569
3	C:285:THR:OG1	C:287:VAL:HA	0.569
3	D:101:MET:HE1	D:147:SER:HB2	0.569
3	D:188:MET:HE2	D:230:ASN:CA	0.569
3	D:180:PHE:HD1	D:211:TRP:CZ3	0.569
3	D:253:PHE:CZ	D:258:ASP:HA	0.569
3	F:40:GLN:OE1	F:45:GLY:HA2	0.569
3	A:57:PHE:CD1	A:78:TYR:HD1	0.568
3	A:179:LYS:HE3	A:184:THR:CG2	0.568
3	B:23:ILE:O	B:27:VAL:HG23	0.568
3	C:260:ASP:CA	C:304:GLY:CA	0.568
3	C:308:ILE:CG2	C:310:ASP:HA	0.568
3	C:380:ARG:HA	C:383:ILE:HG22	0.568
3	D:14:LEU:HB3	E:19:LEU:CD1	0.568
3	D:223:THR:OG1	F:2:GLN:HB3	0.568

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:129:TYR:OH	A:172:PHE:HB2	0.567
3	A:290:ILE:HD13	A:294:ILE:HG12	0.567
3	A:432:THR:HG22	A:433:ALA:N	0.567
3	C:167:ASN:HB2	C:261:ASN:HD21	0.567
3	C:174:CYS:HA	C:252:SER:N	0.567
3	C:272:LEU:HD23	C:345:PHE:HB2	0.567
3	A:218:TYR:CD2	A:290:ILE:HG12	0.566
3	C:95:ILE:CG1	C:96:LYS:N	0.566
3	C:141:ASP:CG	C:192:PRO:HB2	0.566
3	C:379:CYS:O	C:380:ARG:HB3	0.566
3	D:111:TYR:CE1	D:151:PHE:CZ	0.566
3	D:42:ARG:H	D:305:ALA:CA	0.566
3	F:21:LEU:HD12	F:95:TYR:CZ	0.566
3	F:41:ALA:HB3	F:44:LYS:HD2	0.566
3	F:46:LEU:HD11	F:119:ARG:NH2	0.566
3	C:53:LYS:N	C:55:THR:N	0.566
3	D:313:ASN:ND2	D:315:VAL:H	0.566
3	A:16:TRP:HB2	A:65:TYR:CE1	0.565
3	A:66:LEU:CD2	A:69:ALA:HB2	0.565
3	A:185:ALA:HB1	A:194:LEU:CD2	0.565
3	A:315:ASN:O	A:316:LEU:HB3	0.565
3	C:57:VAL:HB	C:181:LYS:CB	0.565
3	C:91:LYS:HZ1	C:92:VAL:HG22	0.565

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:182:ILE:O	C:182:ILE:HG23	0.565
3	C:265:ARG:C	C:267:GLN:H	0.565
3	C:249:ALA:O	C:297:LEU:HD12	0.565
3	C:321:PRO:O	C:322:GLU:HB2	0.565
3	C:385:ARG:HB2	C:385:ARG:HH11	0.565
3	F:99:ARG:HB3	F:118:TYR:CD2	0.565
3	A:10:TRP:CE3	A:198:GLN:HG2	0.564
3	A:12:THR:HA	A:15:LYS:CE	0.564
3	A:179:LYS:HD2	A:184:THR:HG22	0.564
3	C:56:ILE:HB	C:75:GLU:CD	0.564
3	C:80:ALA:C	C:86:GLY:HA3	0.564
3	C:205:SER:HB2	C:207:ILE:CA	0.564
3	C:275:SER:O	C:281:TRP:HB3	0.564
3	C:289:LEU:HD22	C:345:PHE:CD2	0.564
3	D:17:GLN:O	D:20:ASP:HB3	0.564
3	D:203:ALA:O	D:229:ILE:HG23	0.564
3	F:59:ILE:HD12	F:61:TYR:CE2	0.564
3	A:245:LEU:O	A:249:ILE:HG12	0.563
3	A:300:ILE:HD12	A:301:PHE:N	0.563
3	A:382:VAL:HG23	A:383:ASN:H	0.563
3	C:43:LEU:HD22	C:219:PHE:CZ	0.563
3	C:46:LEU:HD11	C:231:ARG:NE	0.563
3	C:50:GLU:HG3	C:227:GLN:HB3	0.563

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:57:VAL:HG11	C:185:ILE:CG2	0.563
3	C:141:ASP:HB2	C:192:PRO:O	0.563
3	C:159:VAL:HG23	C:160:ARG:N	0.563
3	C:208:PHE:CB	C:223:ASP:HB2	0.563
3	C:238:PHE:CZ	C:244:ILE:HG22	0.563
3	C:246:PHE:CD1	C:247:VAL:N	0.563
3	C:289:LEU:CD2	C:361:PRO:HB3	0.563
3	D:41:GLY:CA	D:306:GLY:H	0.563
3	D:271:CYS:HB3	D:290:ASP:CB	0.563
3	E:48:ASP:CB	E:49:PRO:HD2	0.563
3	F:5:LEU:HD21	F:97:CYS:HB3	0.563
3	C:231:ARG:H	C:283:ARG:NH2	0.563
3	A:198:GLN:OE1	A:272:GLY:HA2	0.562
3	C:48:ALA:HB2	C:238:PHE:CD2	0.562
3	C:93:GLN:HG2	C:190:TYR:CG	0.562
3	C:276:ILE:CA	C:348:ILE:HG21	0.562
3	C:331:ASP:OD1	C:332:PRO:HD2	0.562
3	D:58:ILE:HG13	D:73:ALA:O	0.562
3	D:111:TYR:CD1	D:112:VAL:N	0.562
3	A:195:LEU:C	A:195:LEU:HD13	0.561
3	A:301:PHE:HZ	A:330:THR:HG22	0.561
3	A:344:PHE:HE1	A:360:LYS:HG2	0.561
3	C:56:ILE:HB	C:75:GLU:OE1	0.561

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:58:LYS:C	C:58:LYS:CG	0.561
3	C:89:ALA:HB3	C:204:THR:HG22	0.561
3	C:141:ASP:O	C:143:PRO:HD3	0.561
3	C:151:LYS:C	C:151:LYS:HD3	0.561
3	C:246:PHE:CE2	C:285:THR:CG2	0.561
3	C:246:PHE:HA	C:286:SER:C	0.561
3	D:264:TYR:CD1	D:297:TRP:CE3	0.561
3	F:5:LEU:HB2	F:118:TYR:OH	0.561
3	F:13:VAL:HG12	F:14:GLN:O	0.561
3	A:78:TYR:HB3	A:99:ASP:CG	0.560
3	A:148:HIS:CD2	D:335:PHE:HD1	0.560
3	A:158:LEU:O	A:159:ASN:HB2	0.560
3	C:48:ALA:CB	C:235:ILE:HG13	0.560
3	C:335:THR:O	C:338:LYS:HB3	0.560
3	E:27:ARG:HH12	E:29:LYS:HG2	0.560
3	D:105:TYR:N	E:57:SER:HB2	0.560
3	A:150:HIS:CB	C:392:GLU:HB3	0.559
3	A:191:TRP:CZ2	A:195:LEU:HD23	0.559
3	A:288:LEU:C	A:288:LEU:HD13	0.559
3	C:81:ARG:HD2	C:91:LYS:HB2	0.559
3	C:92:VAL:C	C:95:ILE:HG23	0.559
3	C:107:VAL:HG11	C:128:VAL:CG1	0.559
3	C:104:GLU:CB	C:131:ILE:HG13	0.559

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:157:GLU:HA	C:160:ARG:HG2	0.559
3	C:75:GLU:O	C:172:ILE:HD13	0.559
3	C:208:PHE:CE1	C:210:THR:CB	0.559
3	C:279:ASN:CA	F:48:TRP:HZ3	0.559
3	C:248:VAL:O	C:297:LEU:HB2	0.559
3	D:145:TYR:OH	D:147:SER:HB2	0.559
3	D:284:LEU:CD1	D:296:VAL:HG13	0.559
3	A:261:TRP:CZ3	A:282:TYR:CE2	0.558
3	A:321:ASP:OD2	A:325:ARG:HB2	0.558
3	B:30:ARG:HG2	B:31:GLY:N	0.558
3	C:231:ARG:H	C:283:ARG:CZ	0.558
3	D:19:ARG:C	D:19:ARG:HD3	0.558
3	D:58:ILE:HD11	D:72:SER:CB	0.558
3	D:120:ILE:HG23	D:138:GLU:HB2	0.558
3	D:173:THR:O	D:173:THR:HG23	0.558
3	D:42:ARG:H	D:305:ALA:C	0.558
3	E:37:LEU:C	E:37:LEU:HD23	0.558
3	F:13:VAL:HB	F:127:VAL:CG2	0.558
3	A:68:TRP:HE1	A:106:SER:N	0.558
3	C:91:LYS:HA	C:94:ASP:CB	0.557
3	C:266:LEU:CD1	C:270:LEU:HD11	0.557
3	C:274:ASP:CB	C:279:ASN:HB3	0.557
3	D:111:TYR:CE2	D:123:ILE:HG13	0.557

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:274:THR:HG21	D:315:VAL:O	0.557
3	D:57:LYS:CG	D:332:TRP:HA	0.557
3	C:247:VAL:N	C:286:SER:N	0.557
3	A:67:PRO:O	A:68:TRP:HB2	0.556
3	A:150:HIS:HB2	C:392:GLU:HG2	0.556
3	C:53:LYS:HD2	C:75:GLU:OE1	0.556
3	C:73:GLY:HA2	C:97:ASN:HB2	0.556
3	C:83:ASN:H	C:88:LYS:HA	0.556
3	C:188:ALA:HB1	C:201:ARG:HG3	0.556
3	C:272:LEU:HB3	C:344:GLU:OE2	0.556
3	F:38:VAL:HG11	F:111:VAL:HG22	0.556
3	A:136:LEU:HD11	A:161:PHE:HA	0.555
3	A:139:ALA:HA	A:142:ILE:HG23	0.555
3	A:184:THR:O	A:184:THR:HG23	0.555
3	A:201:LEU:C	A:201:LEU:HD23	0.555
3	C:53:LYS:H	C:55:THR:C	0.555
3	C:270:LEU:O	C:300:LYS:HE2	0.555
3	C:305:LYS:CA	F:45:GLY:HA3	0.555
3	C:392:GLU:C	C:394:LEU:N	0.555
3	D:100:VAL:HG13	D:115:GLY:O	0.555
3	D:223:THR:CG2	F:2:GLN:HB2	0.555
3	C:1:MET:HE1	D:78:LYS:HG3	0.554
3	C:27:GLU:O	C:30:LEU:HB3	0.554

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:50:GLU:HB2	C:227:GLN:CB	0.554
3	C:58:LYS:CD	C:59:GLN:H	0.554
3	C:296:LEU:HD12	C:298:ALA:HB1	0.554
3	C:296:LEU:HD22	C:302:LEU:HB2	0.554
3	D:101:MET:HE1	D:147:SER:CB	0.554
3	D:164:THR:HB	D:185:GLY:O	0.554
3	F:16:GLY:HA2	F:87:LEU:HD13	0.554
3	D:151:PHE:HD2	E:59:ASN:ND2	0.554
3	C:127:ARG:CG	C:153:LEU:HD21	0.553
3	C:241:VAL:HG12	C:242:THR:N	0.553
3	C:258:ARG:O	C:305:LYS:HG2	0.553
3	D:64:GLY:HA2	D:105:TYR:HD2	0.553
3	D:111:TYR:HB3	E:59:ASN:H	0.553
3	D:105:TYR:H	E:57:SER:HB2	0.553
3	F:109:PHE:HE2	F:112:THR:HG1	0.553
3	A:49:TRP:HZ3	A:77:VAL:HG23	0.552
3	A:257:PHE:CE1	A:289:PRO:HG3	0.552
3	C:137:VAL:HG12	C:138:PRO:O	0.552
3	C:188:ALA:HB3	C:210:THR:HG21	0.552
3	D:102:THR:HG21	D:148:CYS:CA	0.552
3	E:17:GLU:O	E:21:MET:HG2	0.552
3	F:69:PHE:CZ	F:82:LEU:HD13	0.552
3	A:114:PRO:HB3	A:117:GLN:HE22	0.551

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:415:CYS:HB3	A:416:PRO:HD2	0.551
3	C:271:LYS:HD2	C:291:LEU:CD2	0.551
3	D:15:LYS:CE	E:19:LEU:HD23	0.551
3	D:143:THR:HG23	D:163:ASP:OD1	0.551
3	D:210:LEU:HD13	D:211:TRP:C	0.551
3	F:46:LEU:HD11	F:119:ARG:CZ	0.551
3	A:143:LEU:HD13	A:154:ASN:HD21	0.550
3	C:45:LEU:HD13	C:245:ILE:CB	0.550
3	C:52:GLY:C	C:58:LYS:H	0.550
3	C:383:ILE:HG23	C:384:GLN:N	0.550
3	D:211:TRP:HE1	D:213:VAL:HA	0.550
3	D:293:ASN:HD21	D:307:VAL:HG13	0.550
3	F:33:TYR:CG	F:99:ARG:HD3	0.550
3	F:87:LEU:CD2	F:127:VAL:HG11	0.550
3	F:28:PHE:HD2	F:30:PHE:H	0.550
3	C:58:LYS:C	C:58:LYS:HG3	0.549
3	D:71:VAL:HG23	D:105:TYR:HB2	0.549
3	D:120:ILE:HG21	D:138:GLU:HB2	0.549
3	D:229:ILE:HD11	D:243:THR:CG2	0.549
3	D:232:ILE:HB	D:243:THR:HG22	0.549
3	D:241:PHE:CE2	D:253:PHE:CD2	0.549
3	D:106:ALA:CA	E:57:SER:H	0.549
3	A:302:VAL:HG12	A:303:ARG:N	0.548

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:307:ILE:HG23	A:308:VAL:N	0.548
3	A:309:VAL:HG22	A:313:LYS:CE	0.548
3	C:277:TRP:CZ2	F:48:TRP:CD1	0.548
3	C:246:PHE:N	C:286:SER:C	0.548
3	C:330:GLU:OE2	C:334:VAL:HG12	0.548
3	C:380:ARG:HA	C:383:ILE:CG2	0.548
3	D:49:ARG:HH21	D:82:TRP:CD1	0.548
3	D:107:PRO:HD2	E:56:ALA:HA	0.548
3	F:36:ASN:HD22	F:51:ASP:CB	0.548
3	C:51:SER:CB	C:51:SER:N	0.548
3	A:401:HIS:O	A:402:LEU:HB2	0.547
3	A:415:CYS:CB	A:416:PRO:HD2	0.547
3	C:370:GLU:CG	C:372:ILE:HB	0.547
3	D:110:ASN:HB2	E:60:PRO:HB3	0.547
3	A:20:ARG:HD2	A:43:PHE:HE2	0.546
3	A:104:GLU:HG3	A:104:GLU:O	0.546
3	C:249:ALA:C	C:249:ALA:CB	0.546
3	C:277:TRP:CH2	F:48:TRP:HB3	0.546
3	D:104:ALA:HB3	D:151:PHE:HE1	0.546
3	D:229:ILE:HD11	D:243:THR:HG21	0.546
3	F:69:PHE:CD2	F:82:LEU:HD11	0.546
3	A:148:HIS:O	A:149:LEU:HD22	0.545
3	A:241:TRP:CH2	A:245:LEU:HD23	0.545

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:50:GLU:HG3	C:227:GLN:CB	0.545
3	C:249:ALA:HA	C:297:LEU:HB3	0.545
3	C:155:GLU:OE2	C:367:VAL:HA	0.545
3	D:197:ARG:CB	E:69:ALA:HB3	0.545
3	D:301:LYS:HB3	D:301:LYS:NZ	0.545
3	D:311:HIS:NE2	D:337:LYS:HB3	0.545
3	A:64:TRP:CD1	A:65:TYR:H	0.544
3	A:291:LEU:C	A:291:LEU:HD23	0.544
3	A:300:ILE:HD11	A:337:LEU:HD21	0.544
3	C:62:ILE:O	C:62:ILE:HG13	0.544
3	C:330:GLU:CD	C:335:THR:HG22	0.544
3	E:18:GLN:HG2	E:22:GLU:OE1	0.544
3	F:37:TRP:CZ2	F:95:TYR:CD2	0.544
3	F:41:ALA:HB2	F:93:ALA:CB	0.544
3	F:101:PRO:CG	F:116:TYR:HE2	0.544
3	A:27:LEU:HD23	A:41:ARG:HD3	0.543
3	A:83:ALA:O	A:84:GLU:HB2	0.543
3	A:129:TYR:CD1	A:168:ALA:HB1	0.543
3	A:148:HIS:CD2	D:335:PHE:CD1	0.543
3	C:45:LEU:HD23	C:184:VAL:CG1	0.543
3	C:234:TRP:CZ2	D:145:TYR:CD1	0.543
3	C:238:PHE:HD1	C:241:VAL:HB	0.543
3	C:338:LYS:C	C:338:LYS:HD3	0.543

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:99:TRP:HE1	D:101:MET:HB2	0.543
3	D:111:TYR:CE2	D:123:ILE:CG1	0.543
3	D:112:VAL:HG12	D:113:ALA:N	0.543
3	D:155:ASN:CG	D:171:ILE:HG12	0.543
3	F:30:PHE:HA	F:33:TYR:CE1	0.543
3	F:46:LEU:HB2	F:111:VAL:CG1	0.543
3	A:155:TYR:CD2	A:243:PHE:CE1	0.542
3	A:413:LEU:CD2	A:414:LYS:H	0.542
3	C:91:LYS:HG2	C:92:VAL:H	0.542
3	C:247:VAL:HG12	C:248:VAL:HG23	0.542
3	D:82:TRP:HZ3	D:89:LYS:HG2	0.542
3	A:27:LEU:O	A:27:LEU:HD22	0.541
3	A:186:ALA:H	A:194:LEU:HD11	0.541
3	A:241:TRP:CZ2	A:245:LEU:HD23	0.541
3	C:46:LEU:C	C:224:VAL:HB	0.541
3	D:40:VAL:HG21	D:266:HIS:CD2	0.541
3	D:222:PHE:CD1	D:253:PHE:CE1	0.541
3	D:296:VAL:HG12	D:297:TRP:N	0.541
3	D:311:HIS:CE1	D:337:LYS:HB3	0.541
3	D:318:LEU:C	D:318:LEU:HD13	0.541
3	E:36:ASP:O	E:37:LEU:HB3	0.541
3	F:5:LEU:HD13	F:97:CYS:O	0.541
3	A:19:TYR:OH	A:63:PRO:HB3	0.540

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:98:ARG:NE	A:100:LEU:HD23	0.540
3	A:142:ILE:O	A:143:LEU:HB2	0.540
3	A:150:HIS:HB3	C:394:LEU:CD2	0.540
3	A:159:ASN:HB3	A:220:TRP:CZ3	0.540
3	A:276:ARG:HD2	A:278:SER:OG	0.540
3	C:95:ILE:HG21	C:185:ILE:HD13	0.540
3	C:356:ARG:O	C:357:HIS:HB2	0.540
3	D:69:LEU:N	D:69:LEU:HD22	0.540
3	D:111:TYR:HB3	E:59:ASN:CA	0.540
3	D:229:ILE:CD1	D:243:THR:HB	0.540
3	D:284:LEU:C	D:284:LEU:HD13	0.540
3	D:320:VAL:HG12	D:321:THR:O	0.540
3	F:3:VAL:HG12	F:118:TYR:HE1	0.540
3	A:182:TYR:CG	B:14:LEU:HG	0.539
3	C:50:GLU:HG2	C:224:VAL:HG13	0.539
3	C:176:GLN:HB2	C:296:LEU:CD1	0.539
3	C:249:ALA:HB3	C:300:LYS:CA	0.539
3	C:282:LEU:HD12	F:107:ASP:HB2	0.539
3	C:380:ARG:CA	C:383:ILE:HG22	0.539
3	D:179:THR:CG2	D:181:THR:HG23	0.539
3	D:292:PHE:HE1	D:315:VAL:HB	0.539
3	F:101:PRO:HG2	F:116:TYR:CZ	0.539
3	A:107:LYS:O	A:108:ARG:HG3	0.538

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:214:VAL:HG11	B:1:HIS:N	0.538
3	A:261:TRP:CE3	A:282:TYR:CZ	0.538
3	B:16:GLY:O	B:19:ALA:HB3	0.538
3	C:177:TYR:CA	C:298:ALA:HB2	0.538
3	C:247:VAL:CG1	C:293:LYS:N	0.538
3	D:14:LEU:HB3	E:19:LEU:HD12	0.538
3	D:19:ARG:CZ	D:30:LEU:HB3	0.538
3	D:93:ILE:HG12	D:94:PRO:N	0.538
3	D:106:ALA:C	E:58:GLU:HG3	0.538
3	D:154:ASP:HB3	E:61:PHE:O	0.538
3	C:176:GLN:CG	C:177:TYR:H	0.538
3	C:53:LYS:CG	C:85:ASP:CB	0.537
3	C:53:LYS:HD2	C:56:ILE:HG22	0.537
3	C:52:GLY:CA	C:57:VAL:HG13	0.537
3	C:58:LYS:CG	C:177:TYR:CD2	0.537
3	C:141:ASP:OD1	C:192:PRO:HB2	0.537
3	C:244:ILE:HG12	C:286:SER:O	0.537
3	C:272:LEU:HB2	C:344:GLU:HG3	0.537
3	C:348:ILE:C	C:348:ILE:HD13	0.537
3	D:222:PHE:CG	D:253:PHE:CD1	0.537
3	D:300:LEU:HD21	E:37:LEU:HD23	0.537
3	D:320:VAL:HG13	D:327:VAL:HG22	0.537
3	D:326:ALA:CB	D:338:ILE:HD11	0.537

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	F:15:PRO:O	F:87:LEU:HD22	0.537
3	A:135:ALA:O	A:138:ILE:HG22	0.536
3	A:160:LEU:HD11	A:224:GLU:CB	0.536
3	A:334:ILE:N	A:335:PRO:HD2	0.536
3	A:399:LEU:O	A:400:GLU:HB2	0.536
3	C:53:LYS:CE	C:61:ARG:H	0.536
3	C:89:ALA:HB2	C:204:THR:HG22	0.536
3	C:93:GLN:OE1	C:96:LYS:HB3	0.536
3	C:99:LEU:CD1	C:181:LYS:HE3	0.536
3	C:291:LEU:HD23	C:341:ILE:HD13	0.536
3	C:154:TRP:HE1	C:302:LEU:CD2	0.536
3	D:111:TYR:CE2	D:123:ILE:HB	0.536
3	D:250:CYS:HB2	D:273:ILE:CD1	0.536
3	D:42:ARG:O	D:305:ALA:HB1	0.536
3	D:106:ALA:H	E:58:GLU:CB	0.536
3	A:195:LEU:O	A:195:LEU:HD13	0.535
3	C:152:ALA:O	C:153:LEU:HB2	0.535
3	C:154:TRP:CD1	C:179:LEU:HB3	0.535
3	C:147:TYR:HD1	C:182:ILE:CG1	0.535
3	C:187:GLN:HG3	C:187:GLN:O	0.535
3	C:295:ASP:OD2	C:301:VAL:HG11	0.535
3	D:15:LYS:HA	D:18:ILE:HG22	0.535
3	C:234:TRP:NE1	D:145:TYR:CD1	0.535

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:167:ALA:HB3	D:176:GLN:OE1	0.535
3	F:5:LEU:HG	F:23:CYS:SG	0.535
3	A:161:PHE:CE2	A:162:ALA:HB2	0.534
3	A:185:ALA:HB1	A:194:LEU:CD1	0.534
3	A:267:LEU:HD12	A:268:TYR:CA	0.534
3	C:106:ILE:HG23	C:107:VAL:N	0.534
3	C:110:MET:HG2	C:117:VAL:HB	0.534
3	C:152:ALA:HA	C:155:GLU:CG	0.534
3	C:50:GLU:OE1	C:227:GLN:HB3	0.534
3	C:248:VAL:HG11	C:300:LYS:HG2	0.534
3	C:330:GLU:HG2	C:335:THR:CG2	0.534
3	C:382:ILE:HA	C:385:ARG:CG	0.534
3	D:40:VAL:O	D:40:VAL:HG23	0.534
3	A:161:PHE:CG	A:162:ALA:N	0.533
3	A:330:THR:O	A:334:ILE:HG23	0.533
3	A:337:LEU:C	A:337:LEU:HD13	0.533
3	C:224:VAL:O	C:224:VAL:HG12	0.533
3	C:234:TRP:CZ2	D:145:TYR:CE1	0.533
3	C:392:GLU:O	C:393:LEU:HB3	0.533
3	D:71:VAL:CG1	D:79:LEU:HD11	0.533
3	D:79:LEU:HG	D:79:LEU:O	0.533
3	D:198:LEU:CG	D:210:LEU:HD21	0.533
3	F:30:PHE:CE2	F:75:ASN:HB3	0.533

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:305:LYS:O	F:45:GLY:HA3	0.533
3	F:37:TRP:NE1	F:95:TYR:HB2	0.533
3	A:221:LEU:C	A:221:LEU:HD23	0.532
3	C:48:ALA:HB3	C:231:ARG:NH2	0.532
3	C:75:GLU:CB	C:98:ASN:CB	0.532
3	C:109:ALA:HA	C:112:ASN:HD21	0.532
3	C:246:PHE:CA	C:286:SER:HB3	0.532
3	C:250:SER:N	C:297:LEU:C	0.532
3	D:49:ARG:HG2	D:50:THR:N	0.532
3	F:21:LEU:HD12	F:95:TYR:CE1	0.532
3	A:41:ARG:O	A:42:THR:HG23	0.531
3	A:319:LYS:HD2	C:385:ARG:HH21	0.531
3	C:46:LEU:HD21	C:231:ARG:CD	0.531
3	C:45:LEU:CB	C:184:VAL:HG21	0.531
3	C:245:ILE:HA	C:288:ILE:HG12	0.531
3	D:289:TYR:CE2	D:291:ASP:HB3	0.531
3	F:12:LEU:C	F:12:LEU:HD13	0.531
3	F:38:VAL:HG12	F:96:TYR:CZ	0.531
3	F:14:GLN:O	F:87:LEU:HD11	0.531
3	C:46:LEU:HD11	C:231:ARG:CZ	0.530
3	C:231:ARG:HH12	C:283:ARG:CA	0.530
3	D:123:ILE:CG1	D:136:SER:HB2	0.530
3	D:195:ASP:HB3	E:69:ALA:C	0.530

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	F:59:ILE:HD11	F:71:ILE:CG1	0.530
3	C:51:SER:HA	C:51:SER:N	0.530
3	A:78:TYR:HB3	A:99:ASP:OD1	0.529
3	A:405:GLN:OE1	A:412:PRO:HA	0.529
3	C:44:LEU:CD1	C:244:ILE:HG13	0.529
3	C:51:SER:C	C:54:ASN:ND2	0.529
3	C:55:THR:CA	C:91:LYS:HG3	0.529
3	C:249:ALA:C	C:297:LEU:HD12	0.529
3	C:253:TYR:HE1	C:256:VAL:HB	0.529
3	C:274:ASP:CB	C:279:ASN:CB	0.529
3	A:155:TYR:CD2	A:243:PHE:HE1	0.528
3	A:230:THR:O	A:231:LEU:HB2	0.528
3	A:311:LYS:HD2	A:312:LEU:HD23	0.528
3	C:99:LEU:N	C:178:PHE:CZ	0.528
3	C:217:VAL:HG21	C:376:PHE:CE1	0.528
3	C:266:LEU:HD13	C:270:LEU:HD11	0.528
3	D:226:GLU:HG2	F:27:GLY:O	0.528
3	F:1:MET:HG3	F:2:GLN:N	0.528
3	F:38:VAL:HG12	F:96:TYR:OH	0.528
3	A:68:TRP:CZ2	A:105:GLU:HG3	0.527
3	C:28:LYS:O	C:29:GLN:HB2	0.527
3	C:157:GLU:CG	C:160:ARG:HD3	0.527
3	C:326:PRO:O	C:327:GLU:HB2	0.527

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:41:GLY:HA2	D:305:ALA:CA	0.527
3	E:33:ALA:HA	E:36:ASP:OD2	0.527
3	A:223:VAL:HB	A:246:TYR:CE1	0.526
3	A:283:TRP:CE2	A:287:ARG:HB2	0.526
3	C:315:PHE:HA	C:318:TYR:HD2	0.526
3	D:128:THR:HG21	D:131:GLY:C	0.526
3	D:151:PHE:HB2	E:57:SER:CA	0.526
3	D:225:HIS:CD2	D:227:SER:HB2	0.526
3	F:19:LEU:C	F:19:LEU:HD13	0.526
3	A:129:TYR:CE1	A:168:ALA:HB1	0.525
3	A:395:GLU:HG3	A:402:LEU:HD23	0.525
3	C:81:ARG:HB2	C:91:LYS:HG3	0.525
3	C:91:LYS:HE2	C:92:VAL:N	0.525
3	C:247:VAL:CG2	C:293:LYS:CA	0.525
3	C:247:VAL:HG12	C:248:VAL:H	0.525
3	C:291:LEU:O	C:291:LEU:HD22	0.525
3	C:296:LEU:CD1	C:298:ALA:CA	0.525
3	C:276:ILE:CG1	C:348:ILE:HG13	0.525
3	D:164:THR:HG21	D:183:HIS:O	0.525
3	D:232:ILE:HG22	D:243:THR:CB	0.525
3	D:284:LEU:HD21	D:296:VAL:HG12	0.525
3	D:266:HIS:HE1	D:297:TRP:CH2	0.525
3	F:59:ILE:HD13	F:60:SER:H	0.525

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:268:TYR:HE2	A:279:ASN:ND2	0.525
3	C:20:ARG:CD	C:21:GLU:HG2	0.524
3	C:44:LEU:HD11	C:46:LEU:C	0.524
3	C:56:ILE:HG13	C:178:PHE:HZ	0.524
3	C:57:VAL:HG23	C:181:LYS:HE2	0.524
3	C:92:VAL:HG13	C:185:ILE:CD1	0.524
3	C:146:PHE:CD2	C:147:TYR:N	0.524
3	C:155:GLU:HB3	C:365:CYS:HA	0.524
3	D:297:TRP:CE3	D:304:ARG:HA	0.524
3	D:278:PHE:O	D:320:VAL:HG21	0.524
3	D:155:ASN:N	E:59:ASN:HD21	0.524
3	A:250:GLY:H	A:253:VAL:HG23	0.523
3	C:57:VAL:CG2	C:181:LYS:HD3	0.523
3	C:189:ASP:O	C:198:LEU:HG	0.523
3	C:255:MET:O	C:256:VAL:HG22	0.523
3	C:263:THR:HG22	C:264:ASN:N	0.523
3	C:370:GLU:HG2	C:372:ILE:HB	0.523
3	D:58:ILE:HG23	D:331:SER:O	0.523
3	D:222:PHE:CD1	D:253:PHE:CD1	0.523
3	D:225:HIS:CD2	D:227:SER:N	0.523
3	D:289:TYR:HE2	D:291:ASP:CB	0.523
3	D:292:PHE:CD1	D:311:HIS:HB2	0.523
3	D:106:ALA:H	E:58:GLU:CG	0.523

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	E:71:LEU:C	E:71:LEU:HD12	0.523
3	C:54:ASN:ND2	C:207:ILE:N	0.523
3	A:136:LEU:HD21	A:161:PHE:O	0.522
3	A:141:ALA:O	A:144:LEU:HB3	0.522
3	C:293:LYS:C	C:294:GLN:C	0.522
3	C:314:GLU:HA	C:314:GLU:OE2	0.522
3	C:315:PHE:CZ	C:337:ALA:HB2	0.522
3	C:355:GLY:HA2	C:358:TYR:CZ	0.522
3	D:82:TRP:CZ3	D:89:LYS:HB3	0.522
3	D:119:ASN:O	D:146:LEU:HG	0.522
3	F:15:PRO:O	F:87:LEU:HD13	0.522
3	C:142:PHE:HE1	C:190:TYR:H	0.522
3	C:3:CYS:O	C:36:VAL:HG21	0.521
3	C:48:ALA:HB3	C:235:ILE:CG1	0.521
3	C:127:ARG:CD	C:130:TYR:HB3	0.521
3	C:159:VAL:O	C:162:CYS:HB3	0.521
3	C:292:ASN:C	C:294:GLN:N	0.521
3	D:40:VAL:HG23	D:304:ARG:HE	0.521
3	D:286:LEU:CD1	D:318:LEU:HD11	0.521
3	E:2:ALA:HB3	E:11:GLN:CD	0.521
3	C:127:ARG:NH2	C:146:PHE:HD1	0.521
3	C:53:LYS:HG3	C:56:ILE:CG2	0.520
3	C:95:ILE:HD12	C:96:LYS:N	0.520

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:187:GLN:O	C:188:ALA:HB2	0.520
3	C:274:ASP:HB3	C:279:ASN:N	0.520
3	C:389:ARG:HG2	C:390:GLN:N	0.520
3	C:174:CYS:N	C:252:SER:CB	0.520
3	A:179:LYS:CE	A:184:THR:HG21	0.519
3	C:90:THR:HG23	C:91:LYS:N	0.519
3	C:98:ASN:CB	C:178:PHE:CE2	0.519
3	D:40:VAL:HG23	D:304:ARG:CB	0.519
3	D:180:PHE:CD1	D:211:TRP:CE3	0.519
3	C:233:LYS:NZ	D:188:MET:HG3	0.519
3	D:210:LEU:C	D:210:LEU:HD13	0.519
3	D:40:VAL:O	D:304:ARG:HB3	0.519
3	D:155:ASN:HD22	E:62:ARG:CG	0.519
3	C:53:LYS:H	C:55:THR:N	0.519
3	C:124:ASN:HD21	C:153:LEU:CA	0.519
3	A:78:TYR:CD1	A:79:ARG:N	0.518
3	A:129:TYR:HD1	A:168:ALA:CB	0.518
3	A:316:LEU:HD21	C:361:PRO:HG2	0.518
3	A:395:GLU:OE2	A:402:LEU:HD21	0.518
3	C:101:GLU:HA	C:101:GLU:OE2	0.518
3	C:110:MET:HG3	C:117:VAL:HB	0.518
3	C:155:GLU:HG3	C:156:ASP:N	0.518
3	C:248:VAL:HG22	C:271:LYS:HD3	0.518

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:296:LEU:HD23	C:301:VAL:CB	0.518
3	C:365:CYS:O	C:366:ALA:HB3	0.518
3	D:15:LYS:HG3	D:18:ILE:CG2	0.518
3	D:151:PHE:CD2	E:59:ASN:ND2	0.518
3	D:161:SER:O	D:187:VAL:HG23	0.518
3	E:22:GLU:O	E:25:ILE:HG22	0.518
3	A:18:GLU:O	A:19:TYR:HB3	0.517
3	A:42:THR:O	A:49:TRP:HB3	0.517
3	A:102:GLU:O	A:103:CYS:HB2	0.517
3	A:156:ILE:HD11	A:224:GLU:N	0.517
3	A:255:LEU:C	A:255:LEU:HD13	0.517
3	A:283:TRP:O	A:284:LEU:HB3	0.517
3	A:311:LYS:C	A:311:LYS:HD3	0.517
3	C:58:LYS:HB3	C:177:TYR:CE1	0.517
3	C:91:LYS:HA	C:94:ASP:HB2	0.517
3	C:293:LYS:HB3	C:295:ASP:O	0.517
3	D:79:LEU:CB	D:93:ILE:HG22	0.517
3	F:30:PHE:CD1	F:78:ASN:ND2	0.517
3	C:283:ARG:NH2	F:109:PHE:CG	0.517
3	A:71:SER:CB	A:108:ARG:HD2	0.516
3	A:121:LEU:HD21	A:358:PHE:CE1	0.516
3	C:43:LEU:HB2	C:219:PHE:CZ	0.516
3	C:53:LYS:HE3	C:61:ARG:H	0.516

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:154:TRP:CE3	C:154:TRP:HA	0.516
3	C:249:ALA:CB	C:300:LYS:HB2	0.516
3	D:4:LEU:CD2	D:7:LEU:HB3	0.516
3	D:111:TYR:CE1	E:59:ASN:HB3	0.516
3	D:198:LEU:HG	D:210:LEU:HD21	0.516
3	F:28:PHE:CD2	F:29:THR:N	0.516
3	C:142:PHE:HE1	C:190:TYR:N	0.516
3	A:182:TYR:CD1	B:14:LEU:CD1	0.515
3	A:210:MET:O	A:214:VAL:HG23	0.515
3	A:370:PHE:CE2	A:374:MET:HB2	0.515
3	C:20:ARG:HD3	C:21:GLU:HG2	0.515
3	D:155:ASN:ND2	E:62:ARG:HG2	0.515
3	D:153:ASP:OD1	E:63:GLU:HG2	0.515
3	C:247:VAL:H	C:286:SER:H	0.515
3	A:265:LYS:HD2	A:274:TRP:CD2	0.514
3	A:273:CYS:SG	A:275:THR:HG22	0.514
3	C:82:SER:CB	C:91:LYS:HD3	0.514
3	C:100:LYS:HE2	C:146:PHE:CE1	0.514
3	C:154:TRP:CZ2	C:179:LEU:HD13	0.514
3	C:166:SER:HB2	C:171:LEU:CD1	0.514
3	C:174:CYS:SG	C:178:PHE:CE2	0.514
3	C:272:LEU:HB3	C:344:GLU:CG	0.514
3	C:272:LEU:HD23	C:345:PHE:CA	0.514

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:169:TRP:CZ2	D:175:GLN:N	0.514
3	D:42:ARG:H	D:305:ALA:HA	0.514
3	D:256:ARG:HE	E:28:ILE:HG21	0.514
3	C:250:SER:H	C:298:ALA:N	0.514
3	A:39:CYS:SG	A:87:TRP:CE2	0.513
3	C:52:GLY:HA2	C:57:VAL:CG1	0.513
3	C:178:PHE:HA	C:181:LYS:HG2	0.513
3	D:82:TRP:HE3	D:89:LYS:HB3	0.513
3	C:177:TYR:HD1	C:178:PHE:N	0.513
3	A:15:LYS:HB2	A:65:TYR:CD1	0.512
3	A:25:ARG:O	A:28:THR:HG23	0.512
3	A:252:GLY:C	A:254:PRO:HD2	0.512
3	A:350:GLU:HG2	A:351:HIS:N	0.512
3	C:53:LYS:HE3	C:61:ARG:N	0.512
3	C:81:ARG:CZ	C:87:GLU:HB2	0.512
3	C:259:GLU:HA	C:259:GLU:OE1	0.512
3	C:271:LYS:HB2	C:280:LYS:HD2	0.512
3	D:19:ARG:HG2	D:30:LEU:HD12	0.512
3	F:13:VAL:HB	F:127:VAL:HG21	0.512
3	F:59:ILE:CG1	F:71:ILE:HD11	0.512
3	D:292:PHE:CG	D:293:ASN:N	0.512
3	A:344:PHE:CE1	A:364:GLU:HB2	0.511
3	C:59:GLN:HA	C:251:SER:CA	0.511

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:4:LEU:CD1	D:7:LEU:HB3	0.511
3	D:41:GLY:HA2	D:304:ARG:C	0.511
3	D:182:GLY:HA2	E:3:SER:HB3	0.511
3	D:211:TRP:CH2	D:216:GLY:CA	0.511
3	A:132:SER:HG	A:164:PHE:HE2	0.511
3	A:230:THR:HA	A:234:PHE:CD2	0.510
3	C:31:GLN:CG	C:32:LYS:HD2	0.510
3	C:43:LEU:CB	C:219:PHE:CZ	0.510
3	C:43:LEU:HD11	C:245:ILE:HG22	0.510
3	C:85:ASP:C	D:143:THR:HA	0.510
3	C:57:VAL:N	C:178:PHE:CE1	0.510
3	C:192:PRO:CA	C:195:GLN:HG2	0.510
3	C:91:LYS:HZ1	C:207:ILE:HG12	0.510
3	C:277:TRP:CD1	C:278:ASN:H	0.510
3	C:277:TRP:CD1	C:278:ASN:N	0.510
3	C:279:ASN:HB2	F:48:TRP:HZ3	0.510
3	C:289:LEU:HB3	C:361:PRO:HA	0.510
3	C:364:THR:O	C:365:CYS:HB2	0.510
3	D:222:PHE:CE2	D:251:ARG:NH1	0.510
3	F:13:VAL:HG12	F:14:GLN:N	0.510
3	F:69:PHE:CE2	F:82:LEU:CD1	0.510
3	A:218:TYR:CD2	A:219:TYR:CD1	0.509
3	C:22:ALA:HB1	C:26:ILE:HG13	0.509

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:57:VAL:HG22	C:95:ILE:CB	0.509
3	C:59:GLN:CB	C:251:SER:N	0.509
3	C:98:ASN:HD22	C:174:CYS:HB3	0.509
3	C:279:ASN:CB	F:48:TRP:HZ3	0.509
3	D:33:ILE:HG21	F:29:THR:HB	0.509
3	D:33:ILE:O	D:33:ILE:HG23	0.509
3	D:193:ALA:CB	D:194:PRO:HD2	0.509
3	D:292:PHE:O	D:293:ASN:HB2	0.509
3	D:297:TRP:CZ3	D:304:ARG:N	0.509
3	D:319:GLY:C	D:327:VAL:HG13	0.509
3	E:19:LEU:O	E:19:LEU:HD13	0.509
3	F:30:PHE:O	F:31:SER:HB2	0.509
3	A:268:TYR:CE2	A:279:ASN:ND2	0.508
3	C:104:GLU:OE1	C:131:ILE:HD11	0.508
3	C:295:ASP:HB3	C:301:VAL:CG1	0.508
3	C:296:LEU:H	C:301:VAL:HG23	0.508
3	D:58:ILE:HG23	D:331:SER:H	0.508
3	D:71:VAL:HG21	D:105:TYR:HB2	0.508
3	D:190:LEU:C	D:190:LEU:HD23	0.508
3	D:192:LEU:HD23	D:199:PHE:HB3	0.508
3	D:293:ASN:OD1	D:307:VAL:HG13	0.508
3	A:168:ALA:O	A:169:LEU:HB3	0.507
3	C:72:GLY:HA2	C:93:GLN:HG3	0.507

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:73:GLY:CA	C:97:ASN:HB2	0.507
3	C:95:ILE:HD11	C:181:LYS:NZ	0.507
3	C:110:MET:HE1	C:119:LEU:HD21	0.507
3	C:262:GLN:CD	C:303:ALA:H	0.507
3	C:281:TRP:C	C:283:ARG:N	0.507
3	D:71:VAL:CB	D:81:ILE:HG12	0.507
3	D:101:MET:CE	D:145:TYR:HE2	0.507
3	D:145:TYR:CZ	D:147:SER:HB2	0.507
3	D:197:ARG:HB3	E:69:ALA:HB3	0.507
3	D:206:ALA:HB2	D:227:SER:O	0.507
3	D:256:ARG:NH2	E:28:ILE:HG12	0.507
3	F:69:PHE:CZ	F:82:LEU:CD1	0.507
3	C:81:ARG:N	C:86:GLY:N	0.507
3	A:232:LEU:HD21	C:387:HIS:CD2	0.506
3	A:395:GLU:HG3	A:402:LEU:HD21	0.506
3	C:84:SER:HB2	D:119:ASN:N	0.506
3	C:181:LYS:HD3	C:185:ILE:HG23	0.506
3	C:198:LEU:CD2	C:199:ARG:H	0.506
3	C:246:PHE:CD2	C:289:LEU:CB	0.506
3	D:19:ARG:CZ	D:23:LYS:HB2	0.506
3	D:79:LEU:HB3	D:93:ILE:HG21	0.506
3	D:120:ILE:CG1	D:140:ALA:HB2	0.506
3	D:139:LEU:CD2	D:169:TRP:CE3	0.506

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:210:LEU:HD23	D:255:LEU:CD2	0.506
3	F:98:ALA:HB2	F:119:ARG:HB3	0.506
3	C:98:ASN:ND2	C:178:PHE:HE2	0.506
3	F:48:TRP:HZ2	F:110:ASP:H	0.506
3	A:11:GLU:HG2	A:15:LYS:HD3	0.505
3	A:182:TYR:CE1	B:14:LEU:CD1	0.505
3	C:42:ARG:C	C:241:VAL:HG13	0.505
3	C:207:ILE:CG1	C:208:PHE:N	0.505
3	C:282:LEU:CD1	F:107:ASP:HB2	0.505
3	C:358:TYR:CE1	C:385:ARG:NH1	0.505
3	D:19:ARG:HB3	D:28:ALA:O	0.505
3	D:83:ASP:CG	D:86:THR:HG23	0.505
3	D:99:TRP:CD1	D:117:LEU:CD2	0.505
3	D:188:MET:HE2	D:230:ASN:CB	0.505
3	F:35:MET:HG2	F:80:LEU:CD2	0.505
3	C:305:LYS:CB	F:45:GLY:HA3	0.505
3	C:98:ASN:HD22	C:178:PHE:HE2	0.505
3	A:129:TYR:HD1	A:168:ALA:HB2	0.504
3	A:395:GLU:CD	A:402:LEU:HD21	0.504
3	C:22:ALA:HB1	C:26:ILE:CD1	0.504
3	C:84:SER:HB2	D:119:ASN:HB2	0.504
3	C:149:HIS:HA	C:153:LEU:HD11	0.504
3	C:303:ALA:HA	C:306:SER:HB2	0.504

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:19:ARG:HG3	D:29:THR:C	0.504
3	D:51:LEU:CD1	D:82:TRP:CD2	0.504
3	D:264:TYR:CD1	D:297:TRP:CZ3	0.504
3	F:20:ARG:CZ	F:20:ARG:HB3	0.504
3	C:52:GLY:O	C:226:ALA:N	0.504
3	A:185:ALA:CB	A:194:LEU:HD11	0.503
3	A:347:VAL:C	A:349:ASP:H	0.503
3	C:127:ARG:NE	C:149:HIS:HB3	0.503
3	C:295:ASP:CA	C:301:VAL:HB	0.503
3	E:48:ASP:HB3	E:49:PRO:HD2	0.503
3	D:151:PHE:H	E:57:SER:HA	0.503
3	F:74:ASP:OD2	F:79:THR:HG22	0.503
3	F:40:GLN:O	F:93:ALA:HB1	0.503
3	A:304:VAL:O	A:308:VAL:HG12	0.502
3	A:313:LYS:H	A:313:LYS:HD3	0.502
3	A:398:ARG:HG2	A:399:LEU:N	0.502
3	C:28:LYS:C	C:30:LEU:H	0.502
3	C:176:GLN:HG3	C:177:TYR:N	0.502
3	C:253:TYR:CE1	C:256:VAL:HB	0.502
3	C:267:GLN:HG3	C:271:LYS:HZ1	0.502
3	D:198:LEU:N	D:198:LEU:HD13	0.502
3	D:225:HIS:NE2	D:245:SER:HB3	0.502
3	F:17:GLY:H	F:87:LEU:CD1	0.502

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	E:1:MET:H1	F:115:THR:CB	0.502
3	A:133:PHE:CD2	A:165:ILE:HD11	0.501
3	A:139:ALA:HA	A:142:ILE:CG2	0.501
3	A:150:HIS:CG	C:392:GLU:CB	0.501
3	A:227:TYR:CE2	A:231:LEU:HD11	0.501
3	A:255:LEU:HD13	A:259:VAL:CG2	0.501
3	C:56:ILE:CG1	C:178:PHE:CE2	0.501
3	C:127:ARG:CZ	C:130:TYR:CD1	0.501
3	C:296:LEU:HB2	C:297:LEU:C	0.501
3	C:333:ARG:CD	C:336:ARG:HD2	0.501
3	D:59:TYR:CE1	D:101:MET:CG	0.501
3	E:57:SER:C	E:57:SER:N	0.501
3	F:30:PHE:HD1	F:33:TYR:CE1	0.501
3	C:146:PHE:HE2	C:186:LYS:NZ	0.501
3	A:68:TRP:HE1	A:106:SER:H	0.501
3	C:232:ARG:N	C:283:ARG:NH1	0.501
3	A:1:ARG:HG2	A:2:PRO:N	0.500
3	A:16:TRP:C	A:18:GLU:H	0.500
3	A:124:ILE:O	A:125:TYR:HB3	0.500
3	A:343:ILE:HD11	A:347:VAL:HG12	0.500
3	C:134:VAL:CG1	C:140:PHE:CD1	0.500
3	C:207:ILE:HG13	C:208:PHE:N	0.500
3	C:208:PHE:CG	C:223:ASP:HB2	0.500

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:251:SER:N	C:298:ALA:HB3	0.500
3	D:143:THR:HG23	D:163:ASP:CB	0.500
3	F:59:ILE:CD1	F:61:TYR:CZ	0.500
3	E:1:MET:H1	F:115:THR:HB	0.500
3	A:207:PHE:CE1	A:274:TRP:HD1	0.499
3	A:253:VAL:CG1	A:257:PHE:HE2	0.499
3	A:261:TRP:CZ3	A:282:TYR:CD2	0.499
3	A:283:TRP:C	A:285:ILE:H	0.499
3	C:53:LYS:N	C:54:ASN:C	0.499
3	C:56:ILE:H	C:75:GLU:HG3	0.499
3	C:103:ILE:O	C:106:ILE:HG22	0.499
3	C:147:TYR:CD1	C:186:LYS:CB	0.499
3	C:246:PHE:CD2	C:289:LEU:CA	0.499
3	C:272:LEU:HB3	C:344:GLU:CD	0.499
3	C:296:LEU:H	C:301:VAL:CB	0.499
3	C:329:GLY:O	C:330:GLU:HB2	0.499
3	D:143:THR:HG23	D:163:ASP:CG	0.499
3	F:73:ARG:CG	F:80:LEU:HD13	0.499
3	A:75:GLY:CA	A:102:GLU:HG2	0.498
3	A:304:VAL:O	A:307:ILE:HG22	0.498
3	C:95:ILE:CD1	C:96:LYS:HA	0.498
3	C:186:LYS:O	C:187:GLN:HB3	0.498
3	C:253:TYR:CD1	C:258:ARG:CB	0.498

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:280:LYS:CA	C:285:THR:N	0.498
3	C:283:ARG:CZ	F:109:PHE:CG	0.498
3	C:282:LEU:O	C:283:ARG:HG3	0.498
3	C:295:ASP:C	C:296:LEU:CD2	0.498
3	C:300:LYS:HD2	C:307:LYS:NZ	0.498
3	C:348:ILE:O	C:348:ILE:HG23	0.498
3	D:120:ILE:HD13	D:138:GLU:OE1	0.498
3	C:234:TRP:NE1	D:145:TYR:CG	0.498
3	E:4:ASN:ND2	E:18:GLN:HB2	0.498
3	E:64:LYS:HA	E:64:LYS:H22	0.498
3	C:246:PHE:N	C:287:VAL:N	0.498
3	A:89:GLN:HG2	A:89:GLN:O	0.497
3	A:211:GLN:NE2	B:1:HIS:HB2	0.497
3	B:21:GLU:HA	B:21:GLU:OE1	0.497
3	C:30:LEU:CD1	D:78:LYS:HZ3	0.497
3	C:55:THR:HG22	C:81:ARG:CB	0.497
3	C:99:LEU:HD22	C:146:PHE:CZ	0.497
3	C:92:VAL:HG13	C:185:ILE:HD11	0.497
3	C:237:CYS:CB	D:99:TRP:CH2	0.497
3	C:272:LEU:CD2	C:345:PHE:HD1	0.497
3	D:229:ILE:CD1	D:232:ILE:HG21	0.497
3	D:289:TYR:CD2	D:291:ASP:N	0.497
3	E:67:PHE:CD2	E:68:CYS:N	0.497

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:20:ARG:HD2	A:43:PHE:CE2	0.496
3	A:138:ILE:O	A:142:ILE:HG22	0.496
3	A:156:ILE:CD1	A:224:GLU:HB2	0.496
3	A:347:VAL:O	A:348:MET:HB2	0.496
3	A:435:CYS:O	A:436:GLN:HB2	0.496
3	C:43:LEU:HD21	C:245:ILE:CG2	0.496
3	C:91:LYS:HZ1	C:207:ILE:CG1	0.496
3	C:270:LEU:O	C:274:ASP:HB2	0.496
3	C:338:LYS:NZ	C:363:PHE:HB2	0.496
3	D:7:LEU:HD11	E:16:VAL:CB	0.496
3	D:9:GLN:HA	D:9:GLN:OE1	0.496
3	D:59:TYR:O	D:60:ALA:HB2	0.496
3	D:81:ILE:HD11	D:112:VAL:HG22	0.496
3	D:110:ASN:O	D:126:LEU:HB3	0.496
3	E:23:ALA:O	E:24:ASN:HB2	0.496
3	E:52:THR:CG2	E:53:PRO:HD2	0.496
3	F:79:THR:O	F:79:THR:HG23	0.496
3	F:101:PRO:CG	F:116:TYR:CE2	0.496
3	A:283:TRP:CH2	B:1:HIS:CB	0.495
3	A:389:GLU:HA	A:392:LYS:CE	0.495
3	C:170:GLN:O	C:171:LEU:HD23	0.495
3	D:112:VAL:HA	E:58:GLU:HA	0.495
3	D:198:LEU:HB2	D:211:TRP:O	0.495

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:10:TRP:CZ3	A:195:LEU:CD2	0.494
3	A:129:TYR:CD1	A:168:ALA:CB	0.494
3	A:132:SER:HB3	A:373:LEU:HD12	0.494
3	A:150:HIS:CD2	C:392:GLU:CG	0.494
3	C:46:LEU:HD23	C:50:GLU:HB3	0.494
3	C:48:ALA:CB	C:238:PHE:CD2	0.494
3	C:57:VAL:HG22	C:95:ILE:CG1	0.494
3	C:72:GLY:HA2	C:93:GLN:HG2	0.494
3	C:141:ASP:OD1	C:192:PRO:HD2	0.494
3	C:253:TYR:CD1	C:254:ASN:N	0.494
3	C:341:ILE:HA	C:344:GLU:CD	0.494
3	C:272:LEU:HB3	C:344:GLU:HG3	0.494
3	D:223:THR:HG23	F:2:GLN:HB2	0.494
3	F:38:VAL:CG1	F:96:TYR:CE2	0.494
3	A:45:GLU:HG3	B:26:LEU:HD23	0.493
3	A:265:LYS:HB3	A:265:LYS:NZ	0.493
3	C:154:TRP:CZ2	C:179:LEU:CD1	0.493
3	C:54:ASN:O	C:207:ILE:HG22	0.493
3	C:355:GLY:C	C:357:HIS:H	0.493
3	C:250:SER:N	C:298:ALA:N	0.493
3	A:227:TYR:HE1	A:242:ILE:HD13	0.492
3	B:1:HIS:CD2	B:5:THR:HB	0.492
3	A:275:THR:OG1	B:11:SER:HB3	0.492

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:279:ASN:CA	F:48:TRP:CZ3	0.492
3	D:105:TYR:CA	E:58:GLU:N	0.492
3	D:153:ASP:HB3	E:63:GLU:C	0.492
3	D:311:HIS:CE1	D:329:THR:CG2	0.492
3	F:20:ARG:HG3	F:82:LEU:O	0.492
3	F:30:PHE:HA	F:33:TYR:HE1	0.492
3	C:177:TYR:HD2	C:298:ALA:H	0.492
3	A:3:GLN:HA	A:3:GLN:OE1	0.491
3	A:261:TRP:HZ3	A:282:TYR:C	0.491
3	A:379:TYR:HA	A:382:VAL:CG1	0.491
3	C:146:PHE:CE2	C:186:LYS:NZ	0.491
3	C:279:ASN:HA	F:48:TRP:CZ3	0.491
3	D:142:HIS:CE1	D:161:SER:HB2	0.491
3	D:111:TYR:HE1	D:151:PHE:CZ	0.491
3	D:276:VAL:HG12	D:277:SER:N	0.491
3	D:299:ALA:HB1	D:300:LEU:HD12	0.491
3	E:64:LYS:HE3	E:65:LYS:H	0.491
3	F:48:TRP:CZ2	F:111:VAL:N	0.491
3	A:17:ARG:HG3	A:17:ARG:O	0.490
3	A:19:TYR:CZ	A:63:PRO:HB3	0.490
3	A:49:TRP:HZ3	A:77:VAL:CG2	0.490
3	A:255:LEU:O	A:259:VAL:HG23	0.490
3	C:46:LEU:HB2	C:293:LYS:HE2	0.490

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:55:THR:CG2	C:81:ARG:CB	0.490
3	C:54:ASN:O	C:91:LYS:HD2	0.490
3	C:174:CYS:HB2	C:252:SER:CB	0.490
3	C:208:PHE:CZ	C:210:THR:N	0.490
3	D:180:PHE:CB	D:211:TRP:CZ3	0.490
3	D:180:PHE:CD1	D:211:TRP:CZ3	0.490
3	F:5:LEU:HD11	F:23:CYS:SG	0.490
3	C:301:VAL:CG1	C:302:LEU:N	0.490
3	A:142:ILE:C	A:144:LEU:H	0.489
3	A:207:PHE:O	A:210:MET:HB3	0.489
3	A:257:PHE:CE1	A:289:PRO:CG	0.489
3	A:378:LEU:O	A:382:VAL:HG13	0.489
3	C:51:SER:C	C:226:ALA:N	0.489
3	C:59:GLN:HG2	C:60:MET:H	0.489
3	C:80:ALA:C	C:81:ARG:HG2	0.489
3	C:91:LYS:CE	C:92:VAL:N	0.489
3	C:185:ILE:HD12	C:207:ILE:HG13	0.489
3	C:289:LEU:HD12	C:290:PHE:CA	0.489
3	C:382:ILE:O	C:385:ARG:HG3	0.489
3	D:83:ASP:HB3	D:86:THR:O	0.489
3	D:155:ASN:CB	E:63:GLU:H	0.489
3	D:183:HIS:CD2	D:203:ALA:CB	0.489
3	D:186:ASP:O	D:203:ALA:HA	0.489

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:292:PHE:CZ	D:311:HIS:ND1	0.489
3	A:156:ILE:HG12	A:224:GLU:HB2	0.488
3	A:182:TYR:CE1	B:14:LEU:HD12	0.488
3	C:82:SER:CB	C:91:LYS:CD	0.488
3	C:271:LYS:O	C:280:LYS:HD3	0.488
3	C:84:SER:CA	D:119:ASN:HB3	0.488
3	D:232:ILE:HG22	D:243:THR:CG2	0.488
3	A:211:GLN:O	A:212:TYR:HB3	0.487
3	A:259:VAL:CB	A:260:PRO:HD3	0.487
3	A:301:PHE:HZ	A:330:THR:CG2	0.487
3	A:336:LEU:HG	A:336:LEU:O	0.487
3	A:388:LEU:N	A:388:LEU:HD12	0.487
3	C:147:TYR:CD1	C:182:ILE:CG1	0.487
3	C:274:ASP:CG	C:279:ASN:HB2	0.487
3	C:379:CYS:C	C:381:ASP:H	0.487
3	D:13:GLN:CA	D:13:GLN:HE21	0.487
3	E:2:ALA:CB	E:11:GLN:HG2	0.487
3	F:20:ARG:HD3	F:81:TYR:OH	0.487
3	A:290:ILE:CD1	A:294:ILE:HG12	0.486
3	B:26:LEU:HA	B:31:GLY:HA3	0.486
3	C:82:SER:C	C:84:SER:H	0.486
3	C:108:ALA:HB2	C:132:LEU:CD1	0.486
3	C:246:PHE:CD1	C:289:LEU:HD13	0.486

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:301:VAL:CG1	C:302:LEU:H	0.486
3	D:4:LEU:HD21	D:7:LEU:CD2	0.486
3	F:20:ARG:HB3	F:20:ARG:NH1	0.486
3	F:116:TYR:O	F:117:ALA:HB2	0.486
3	F:100:CYS:SG	F:108:CYS:SG	0.486
3	A:179:LYS:C	A:179:LYS:HD2	0.485
3	C:53:LYS:HD2	C:56:ILE:CG2	0.485
3	C:59:GLN:HB3	C:251:SER:O	0.485
3	C:135:MET:HG2	C:136:ASN:N	0.485
3	C:231:ARG:NH2	C:235:ILE:HG13	0.485
3	C:249:ALA:CB	C:299:GLU:HB2	0.485
3	C:305:LYS:CA	F:45:GLY:CA	0.485
3	C:324:ALA:CB	C:339:TYR:CE1	0.485
3	D:20:ASP:HA	D:26:ALA:C	0.485
3	D:255:LEU:C	D:255:LEU:HD13	0.485
3	D:297:TRP:CZ2	D:302:ALA:CA	0.485
3	D:297:TRP:HZZ	D:302:ALA:CB	0.485
3	C:45:LEU:CB	C:184:VAL:CG2	0.484
3	C:58:LYS:HD2	C:226:ALA:CB	0.484
3	C:279:ASN:C	C:284:ASP:HB3	0.484
3	D:289:TYR:CE2	D:291:ASP:CB	0.484
3	F:73:ARG:HG2	F:74:ASP:N	0.484
3	A:191:TRP:CG	A:192:ASP:N	0.483

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:53:LYS:CG	C:56:ILE:CG2	0.483
3	C:57:VAL:CG2	C:95:ILE:CD1	0.483
3	C:95:ILE:HG13	C:96:LYS:N	0.483
3	C:100:LYS:HZ3	C:131:ILE:HD13	0.483
3	C:188:ALA:O	C:189:ASP:HB2	0.483
3	C:250:SER:C	C:259:GLU:HG3	0.483
3	C:253:TYR:HE1	C:256:VAL:CG2	0.483
3	D:13:GLN:O	D:14:LEU:HB2	0.483
3	D:51:LEU:HD21	D:54:HIS:NE2	0.483
3	D:197:ARG:HD3	D:198:LEU:HD12	0.483
3	F:30:PHE:CE2	F:75:ASN:CB	0.483
3	F:35:MET:HG2	F:80:LEU:CG	0.483
3	C:283:ARG:NH1	F:109:PHE:CB	0.483
3	C:178:PHE:H	C:181:LYS:H	0.483
3	E:70:ILE:O	E:70:ILE:HG23	0.483
3	A:150:HIS:HB2	C:392:GLU:HB3	0.482
3	C:208:PHE:HE1	C:210:THR:HB	0.482
3	D:134:ARG:HG3	D:135:VAL:H	0.482
3	A:75:GLY:HA2	A:102:GLU:CD	0.481
3	A:223:VAL:CG1	A:246:TYR:CD1	0.481
3	A:203:CYS:SG	A:273:CYS:CB	0.481
3	A:384:ASN:C	A:386:VAL:N	0.481
3	A:411:LYS:HB3	A:412:PRO:CD	0.481

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:52:GLY:CA	C:207:ILE:CG2	0.481
3	C:58:LYS:HB2	C:225:GLY:CA	0.481
3	D:132:ASN:CG	D:133:VAL:H	0.481
3	D:159:THR:O	D:159:THR:HG23	0.481
3	A:379:TYR:C	A:382:VAL:HG13	0.480
3	B:18:ALA:O	B:19:ALA:HB2	0.480
3	C:43:LEU:CD1	C:44:LEU:H	0.480
3	C:44:LEU:HD21	C:47:GLY:C	0.480
3	C:159:VAL:CG2	C:160:ARG:N	0.480
3	C:253:TYR:HE1	C:256:VAL:HG23	0.480
3	C:296:LEU:H	C:301:VAL:CG2	0.480
3	D:139:LEU:HD12	D:169:TRP:CB	0.480
3	D:253:PHE:HE2	D:255:LEU:HA	0.480
3	D:276:VAL:HG22	D:287:ALA:CB	0.480
3	A:8:SER:O	A:9:LEU:HB3	0.479
3	A:57:PHE:CE1	A:78:TYR:CB	0.479
3	A:120:PHE:O	A:124:ILE:HG22	0.479
3	C:172:ILE:HG22	C:174:CYS:H	0.479
3	C:227:GLN:NE2	C:234:TRP:CD2	0.479
3	C:235:ILE:HD12	C:283:ARG:CA	0.479
3	C:238:PHE:HD1	C:241:VAL:CB	0.479
3	C:249:ALA:CA	C:300:LYS:H	0.479
3	C:268:ALA:HA	C:271:LYS:NZ	0.479

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:268:ALA:HA	C:341:ILE:HD12	0.479
3	C:276:ILE:CB	C:348:ILE:HB	0.479
3	C:295:ASP:CB	C:296:LEU:CD2	0.479
3	D:71:VAL:HG12	D:79:LEU:HD11	0.479
3	D:123:ILE:HG12	D:136:SER:HB2	0.479
3	D:222:PHE:HE2	D:251:ARG:HD2	0.479
3	D:299:ALA:O	D:300:LEU:HB2	0.479
3	D:330:GLY:HA2	D:336:LEU:CD2	0.479
3	F:21:LEU:HD23	F:82:LEU:CD2	0.479
3	F:46:LEU:N	F:46:LEU:HD23	0.479
3	A:207:PHE:CZ	A:274:TRP:CD1	0.478
3	A:222:LEU:O	A:222:LEU:HD22	0.478
3	A:268:TYR:CE2	A:269:GLU:CG	0.478
3	A:413:LEU:CD2	A:414:LYS:N	0.478
3	C:58:LYS:CG	C:59:GLN:N	0.478
3	C:151:LYS:HB2	C:182:ILE:HG23	0.478
3	C:289:LEU:CB	C:361:PRO:HA	0.478
3	C:321:PRO:HG2	C:339:TYR:HB3	0.478
3	C:330:GLU:HG3	C:331:ASP:H	0.478
3	D:17:GLN:HA	D:20:ASP:HB3	0.478
3	D:251:ARG:HD3	D:260:GLU:OE1	0.478
3	C:127:ARG:HH22	C:146:PHE:HD1	0.478
3	A:57:PHE:HE1	A:78:TYR:CA	0.477

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:284:LEU:C	A:284:LEU:HD13	0.477
3	A:290:ILE:C	A:290:ILE:HD13	0.477
3	A:294:ILE:HG23	A:342:VAL:CB	0.477
3	C:61:ARG:HD3	C:253:TYR:CD2	0.477
3	C:91:LYS:NZ	C:92:VAL:HA	0.477
3	C:93:GLN:CD	C:190:TYR:HB2	0.477
3	C:105:THR:HG23	C:106:ILE:N	0.477
3	C:152:ALA:HA	C:155:GLU:HG2	0.477
3	C:314:GLU:CG	C:318:TYR:CE2	0.477
3	D:297:TRP:CZ2	D:302:ALA:HB1	0.477
3	D:338:ILE:CG2	D:339:TRP:N	0.477
3	A:156:ILE:CD1	A:224:GLU:HA	0.476
3	A:156:ILE:HD11	A:224:GLU:HB2	0.476
3	A:353:ARG:HG2	A:353:ARG:O	0.476
3	C:178:PHE:HA	C:181:LYS:CG	0.476
3	C:213:GLN:HG3	C:217:VAL:O	0.476
3	C:227:GLN:CD	C:234:TRP:CG	0.476
3	F:5:LEU:CG	F:23:CYS:SG	0.476
3	F:6:GLN:HG3	F:7:GLU:H	0.476
3	A:147:ARG:HB3	D:52:ARG:HH21	0.475
3	A:150:HIS:CB	C:392:GLU:CB	0.475
3	A:198:GLN:HA	A:198:GLN:NE2	0.475
3	A:212:TYR:HE1	A:255:LEU:HB2	0.475

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:347:VAL:HG13	A:348:MET:H	0.475
3	C:1:MET:HE3	D:77:GLY:C	0.475
3	C:48:ALA:CB	C:238:PHE:HD2	0.475
3	C:56:ILE:N	C:75:GLU:HG3	0.475
3	C:127:ARG:HG3	C:153:LEU:HD21	0.475
3	C:154:TRP:CD1	C:294:GLN:HE22	0.475
3	C:154:TRP:CH2	C:179:LEU:CD1	0.475
3	D:111:TYR:CD1	E:59:ASN:CB	0.475
3	D:112:VAL:HG23	D:124:TYR:CD2	0.475
3	D:151:PHE:CD1	E:57:SER:C	0.475
3	D:199:PHE:CE2	D:211:TRP:CD1	0.475
3	D:232:ILE:CG2	D:243:THR:HG22	0.475
3	D:111:TYR:O	E:58:GLU:HA	0.475
3	C:56:ILE:O	C:58:LYS:N	0.475
3	C:90:THR:CG2	C:91:LYS:N	0.475
3	A:16:TRP:CG	A:17:ARG:N	0.474
3	A:70:SER:CA	A:73:PRO:HD3	0.474
3	C:57:VAL:CG2	C:95:ILE:CG1	0.474
3	C:84:SER:HA	D:119:ASN:CB	0.474
3	C:92:VAL:HB	C:189:ASP:OD1	0.474
3	C:385:ARG:HD3	C:389:ARG:NH2	0.474
3	D:232:ILE:CB	D:243:THR:HG22	0.474
3	D:225:HIS:NE2	D:245:SER:CB	0.474

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:200:CYS:SG	C:201:ARG:N	0.474
3	D:111:TYR:CB	E:59:ASN:N	0.474
3	C:180:ASP:CA	C:293:LYS:O	0.474
3	C:82:SER:C	C:84:SER:N	0.473
3	C:178:PHE:O	C:181:LYS:HE3	0.473
3	C:231:ARG:HG2	C:283:ARG:HH21	0.473
3	C:245:ILE:HA	C:288:ILE:H	0.473
3	C:248:VAL:CG1	C:301:VAL:N	0.473
3	C:296:LEU:HB3	C:301:VAL:H	0.473
3	F:29:THR:O	F:30:PHE:HB3	0.473
3	F:59:ILE:HD11	F:61:TYR:CZ	0.473
3	F:99:ARG:O	F:101:PRO:HD3	0.473
3	F:103:PRO:HB2	F:104:PHE:CD1	0.473
3	C:210:THR:CG2	C:211:LYS:N	0.473
3	A:11:GLU:O	A:15:LYS:HD3	0.472
3	A:223:VAL:CG2	A:246:TYR:CD1	0.472
3	A:253:VAL:N	A:254:PRO:CD	0.472
3	C:81:ARG:CB	C:91:LYS:CG	0.472
3	C:108:ALA:HB2	C:132:LEU:HD21	0.472
3	C:248:VAL:C	C:297:LEU:N	0.472
3	C:249:ALA:HB2	C:300:LYS:HB2	0.472
3	C:176:GLN:OE1	C:251:SER:HB3	0.472
3	C:293:LYS:C	C:295:ASP:N	0.472

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:250:SER:H	C:297:LEU:C	0.472
3	C:305:LYS:HA	F:45:GLY:N	0.472
3	C:330:GLU:CG	C:331:ASP:N	0.472
3	D:68:ARG:HB2	D:69:LEU:HD22	0.472
3	D:122:SER:HA	D:138:GLU:HB3	0.472
3	D:142:HIS:ND1	D:161:SER:HB2	0.472
3	D:111:TYR:N	E:58:GLU:HB2	0.472
3	C:201:ARG:CG	C:202:VAL:N	0.472
3	C:293:LYS:N	C:295:ASP:N	0.472
3	D:230:ASN:ND2	D:231:ALA:N	0.472
3	A:10:TRP:CZ3	A:198:GLN:HG2	0.471
3	C:56:ILE:HG13	C:75:GLU:CB	0.471
3	C:81:ARG:CG	C:91:LYS:HB2	0.471
3	C:184:VAL:HB	C:208:PHE:HD2	0.471
3	C:185:ILE:HG22	C:208:PHE:CB	0.471
3	C:268:ALA:HB1	C:341:ILE:HB	0.471
3	C:268:ALA:HB1	C:341:ILE:HD13	0.471
3	C:311:TYR:CE1	C:313:PRO:HD2	0.471
3	D:105:TYR:HA	E:58:GLU:N	0.471
3	D:134:ARG:CG	D:135:VAL:N	0.471
3	D:313:ASN:ND2	D:331:SER:HB3	0.471
3	C:292:ASN:H	C:364:THR:CG2	0.471
3	A:11:GLU:HG2	A:15:LYS:HD2	0.470

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:125:TYR:O	A:129:TYR:HB3	0.470
3	A:257:PHE:CD1	A:289:PRO:CG	0.470
3	A:413:LEU:HD11	F:54:GLN:CD	0.470
3	C:234:TRP:CE2	D:145:TYR:CD1	0.470
3	C:249:ALA:HB2	C:279:ASN:ND2	0.470
3	C:257:ILE:CG2	C:305:LYS:HD2	0.470
3	C:283:ARG:CZ	F:109:PHE:CB	0.470
3	D:49:ARG:CG	D:50:THR:N	0.470
3	D:111:TYR:CE2	D:123:ILE:CB	0.470
3	D:154:ASP:CA	E:59:ASN:ND2	0.470
3	D:155:ASN:HD22	E:62:ARG:CB	0.470
3	F:37:TRP:CE2	F:82:LEU:HD22	0.470
3	C:277:TRP:HE1	F:108:CYS:HB2	0.470
3	A:265:LYS:CD	A:274:TRP:CE3	0.469
3	A:340:HIS:CE1	A:367:PHE:CD2	0.469
3	C:9:THR:HA	D:132:ASN:CB	0.469
3	C:56:ILE:CD1	C:60:MET:SD	0.469
3	C:80:ALA:HB1	C:85:ASP:O	0.469
3	C:84:SER:CA	D:119:ASN:CB	0.469
3	C:198:LEU:C	C:200:CYS:H	0.469
3	C:176:GLN:NE2	C:302:LEU:HB3	0.469
3	E:4:ASN:ND2	E:18:GLN:CB	0.469
3	C:91:LYS:NZ	C:207:ILE:CB	0.469

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:218:TYR:CE2	A:290:ILE:HA	0.468
3	C:12:GLN:CD	D:127:LYS:HD2	0.468
3	C:55:THR:C	C:95:ILE:HA	0.468
3	C:92:VAL:O	C:95:ILE:HG23	0.468
3	C:99:LEU:C	C:99:LEU:HD23	0.468
3	C:104:GLU:HG3	C:135:MET:CG	0.468
3	C:122:PRO:O	C:123:GLU:HB2	0.468
3	C:174:CYS:CB	C:252:SER:CB	0.468
3	C:52:GLY:N	C:225:GLY:HA3	0.468
3	C:49:GLY:N	C:235:ILE:HA	0.468
3	C:265:ARG:HD3	C:267:GLN:HG2	0.468
3	C:369:THR:CG2	C:370:GLU:N	0.468
3	D:19:ARG:CG	D:29:THR:HA	0.468
3	D:38:ASP:HB3	D:39:PRO:HD2	0.468
3	D:91:HIS:NE2	D:133:VAL:HG22	0.468
3	D:46:ARG:O	D:340:ASN:HB3	0.468
3	E:19:LEU:C	E:19:LEU:HD13	0.468
3	F:37:TRP:HD1	F:49:VAL:HG21	0.468
3	A:143:LEU:HD13	A:154:ASN:ND2	0.467
3	A:195:LEU:O	A:198:GLN:HB3	0.467
3	A:202:SER:O	A:206:VAL:HG23	0.467
3	A:223:VAL:CB	A:246:TYR:CE1	0.467
3	A:290:ILE:CG2	A:291:LEU:N	0.467

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:46:LEU:C	C:224:VAL:CG1	0.467
3	C:157:GLU:HG3	C:160:ARG:CD	0.467
3	C:210:THR:HG23	C:211:LYS:N	0.467
3	C:325:THR:HA	C:326:PRO:HD3	0.467
3	C:315:PHE:HE2	C:337:ALA:HA	0.467
3	D:40:VAL:HG11	D:266:HIS:NE2	0.467
3	D:80:ILE:CD1	D:89:LYS:HD3	0.467
3	D:112:VAL:CG2	D:124:TYR:CD2	0.467
3	D:216:GLY:O	D:217:MET:HB2	0.467
3	D:225:HIS:HB2	D:251:ARG:HH21	0.467
3	F:30:PHE:CG	F:78:ASN:CG	0.467
3	F:110:ASP:HB3	F:116:TYR:CD2	0.467
3	A:21:ARG:C	A:21:ARG:HD2	0.466
3	A:72:VAL:N	A:73:PRO:CD	0.466
3	A:160:LEU:HD11	A:224:GLU:HB3	0.466
3	C:53:LYS:HE2	C:85:ASP:OD1	0.466
3	C:55:THR:CA	C:91:LYS:CG	0.466
3	C:57:VAL:CG1	C:181:LYS:CB	0.466
3	C:92:VAL:HA	C:207:ILE:HG12	0.466
3	C:146:PHE:CE1	C:150:ALA:HB2	0.466
3	C:274:ASP:HB3	C:279:ASN:H	0.466
3	C:345:PHE:CZ	C:359:CYS:HB2	0.466
3	D:45:MET:HE1	D:280:LYS:H	0.466

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:292:PHE:CZ	D:311:HIS:CB	0.466
3	D:292:PHE:CZ	D:311:HIS:CG	0.466
3	D:105:TYR:N	E:57:SER:CB	0.466
3	F:23:CYS:HB3	F:80:LEU:HB2	0.466
3	F:36:ASN:HD22	F:51:ASP:HB3	0.466
3	D:270:ILE:CD1	D:270:ILE:N	0.466
3	A:71:SER:HA	A:108:ARG:HH11	0.465
3	A:150:HIS:HB2	C:392:GLU:CG	0.465
3	A:133:PHE:CZ	A:165:ILE:HD11	0.465
3	C:91:LYS:CE	C:207:ILE:CB	0.465
3	C:155:GLU:HB2	C:365:CYS:CB	0.465
3	C:239:ASN:C	C:239:ASN:HD22	0.465
3	F:21:LEU:HB2	F:37:TRP:CH2	0.465
3	F:38:VAL:CB	F:96:TYR:CE2	0.465
3	A:174:LYS:CD	A:210:MET:SD	0.464
3	C:55:THR:CB	C:81:ARG:HG3	0.464
3	C:106:ILE:HD13	C:154:TRP:CH2	0.464
3	C:127:ARG:HG2	C:149:HIS:O	0.464
3	C:246:PHE:O	C:247:VAL:HG22	0.464
3	C:281:TRP:HE3	C:285:THR:HG21	0.464
3	C:292:ASN:HB2	C:294:GLN:CA	0.464
3	C:177:TYR:N	C:296:LEU:CD1	0.464
3	D:29:THR:CG2	D:30:LEU:N	0.464

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:139:LEU:HD23	D:169:TRP:CH2	0.464
3	D:151:PHE:CE2	E:59:ASN:CB	0.464
3	D:273:ILE:HD12	D:276:VAL:CG2	0.464
3	F:21:LEU:CD2	F:82:LEU:HD23	0.464
3	A:420:LEU:H	A:420:LEU:HG	0.464
3	A:105:GLU:O	A:106:SER:HB2	0.463
3	A:283:TRP:CZ3	B:1:HIS:CG	0.463
3	C:12:GLN:HB3	D:127:LYS:HE2	0.463
3	C:45:LEU:CG	C:184:VAL:CG1	0.463
3	C:81:ARG:CB	C:91:LYS:HB2	0.463
3	C:81:ARG:NH1	C:87:GLU:CB	0.463
3	C:240:ASP:CG	D:75:GLN:HE22	0.463
3	C:272:LEU:HG	C:345:PHE:HA	0.463
3	C:246:PHE:HE2	C:345:PHE:CZ	0.463
3	D:130:GLU:HG3	D:130:GLU:O	0.463
3	D:91:HIS:HD2	D:124:TYR:OH	0.463
3	A:95:LEU:CD2	A:95:LEU:N	0.462
3	C:99:LEU:HD22	C:146:PHE:HZ	0.462
3	C:248:VAL:CG1	C:300:LYS:CG	0.462
3	C:331:ASP:CG	C:332:PRO:HD2	0.462
3	D:27:ASP:O	D:28:ALA:HB2	0.462
3	D:106:ALA:HB1	D:107:PRO:HD2	0.462
3	D:180:PHE:HD1	D:211:TRP:CE3	0.462

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:273:ILE:HD12	D:276:VAL:HG22	0.462
3	D:284:LEU:HD22	D:297:TRP:O	0.462
3	E:1:MET:N	F:115:THR:HB	0.462
3	A:403:HIS:ND1	A:404:ILE:N	0.462
3	A:142:ILE:HG12	A:143:LEU:HD23	0.461
3	A:208:LEU:O	A:209:LEU:HB3	0.461
3	B:23:ILE:HG23	B:24:ALA:N	0.461
3	C:55:THR:CG2	C:81:ARG:CG	0.461
3	C:59:GLN:HA	C:251:SER:N	0.461
3	C:53:LYS:H22	C:60:MET:CG	0.461
3	C:119:LEU:HB3	C:156:ASP:OD1	0.461
3	C:127:ARG:CZ	C:130:TYR:HD1	0.461
3	C:249:ALA:CB	C:300:LYS:CB	0.461
3	C:307:LYS:HD2	C:309:GLU:OE2	0.461
3	C:272:LEU:HD21	C:345:PHE:HA	0.461
3	C:383:ILE:CG2	C:384:GLN:N	0.461
3	D:56:ALA:CB	D:75:GLN:CG	0.461
3	D:225:HIS:CD2	D:245:SER:HB3	0.461
3	D:326:ALA:CB	D:338:ILE:HG12	0.461
3	F:100:CYS:CB	F:108:CYS:SG	0.461
3	A:384:ASN:HD22	A:385:GLU:H	0.461
3	A:18:GLU:C	A:20:ARG:H	0.460
3	A:290:ILE:HG23	A:291:LEU:N	0.460

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:70:GLY:O	C:90:THR:HB	0.460
3	C:91:LYS:C	C:91:LYS:NZ	0.460
3	C:148:GLU:O	C:149:HIS:HB2	0.460
3	C:193:SER:O	C:195:GLN:HG3	0.460
3	C:276:ILE:CG1	C:348:ILE:HB	0.460
3	C:296:LEU:HD13	C:298:ALA:O	0.460
3	D:111:TYR:CZ	D:123:ILE:HA	0.460
3	D:155:ASN:HA	D:171:ILE:CD1	0.460
3	D:191:SER:CB	D:232:ILE:CD1	0.460
3	F:72:SER:O	F:81:TYR:HB3	0.460
3	A:78:TYR:CG	A:79:ARG:N	0.460
3	C:124:ASN:HD21	C:153:LEU:CG	0.460
3	C:212:PHE:CG	C:213:GLN:N	0.460
3	C:257:ILE:O	C:257:ILE:HG22	0.460
3	D:73:ALA:CB	D:103:CYS:SG	0.460
3	A:174:LYS:CE	A:210:MET:SD	0.459
3	A:216:ALA:C	A:220:TRP:CD1	0.459
3	A:264:VAL:O	A:268:TYR:HB3	0.459
3	C:30:LEU:CD1	D:78:LYS:NZ	0.459
3	C:93:GLN:O	C:96:LYS:HB3	0.459
3	C:98:ASN:ND2	C:172:ILE:CG2	0.459
3	C:95:ILE:O	C:178:PHE:CE1	0.459
3	C:295:ASP:CB	C:301:VAL:CG1	0.459

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:370:GLU:HG2	C:372:ILE:O	0.459
3	D:62:HIS:O	D:70:LEU:HD23	0.459
3	D:192:LEU:HD23	D:199:PHE:CB	0.459
3	E:9:ILE:CG2	E:10:ALA:N	0.459
3	A:318:CYS:C	A:320:THR:N	0.458
3	C:52:GLY:C	C:58:LYS:HA	0.458
3	C:141:ASP:CB	C:192:PRO:C	0.458
3	D:101:MET:CE	D:147:SER:CB	0.458
3	D:143:THR:CG2	D:163:ASP:CB	0.458
3	D:252:LEU:HD12	D:261:LEU:CB	0.458
3	D:308:LEU:C	D:308:LEU:HD22	0.458
3	F:30:PHE:C	F:32:ASN:H	0.458
3	C:260:ASP:H	C:305:LYS:N	0.458
3	A:69:ALA:O	A:70:SER:HB3	0.457
3	A:294:ILE:HG23	A:342:VAL:CG2	0.457
3	C:91:LYS:CE	C:92:VAL:CA	0.457
3	C:121:ASN:HA	C:122:PRO:HD2	0.457
3	C:134:VAL:CG1	C:140:PHE:CE1	0.457
3	C:177:TYR:CD1	C:178:PHE:N	0.457
3	C:239:ASN:CG	D:332:TRP:CZ2	0.457
3	C:280:LYS:CA	C:284:ASP:CA	0.457
3	C:292:ASN:ND2	C:294:GLN:CB	0.457
3	C:315:PHE:HD2	C:340:PHE:CD2	0.457

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:82:TRP:CZ2	D:87:THR:C	0.457
3	D:111:TYR:CD2	D:123:ILE:HG13	0.457
3	D:121:CYS:HB2	D:146:LEU:HD13	0.457
3	D:112:VAL:CB	D:124:TYR:CD2	0.457
3	F:35:MET:CG	F:36:ASN:N	0.457
3	A:285:ILE:CG1	A:286:ILE:N	0.457
3	A:158:LEU:HA	A:161:PHE:CE1	0.456
3	A:237:LEU:HD23	A:239:GLU:OE2	0.456
3	A:223:VAL:CG2	A:246:TYR:CE1	0.456
3	A:273:CYS:SG	A:275:THR:CG2	0.456
3	C:57:VAL:CG2	C:185:ILE:CG2	0.456
3	C:54:ASN:CB	C:82:SER:HB3	0.456
3	C:147:TYR:HD1	C:182:ILE:HG13	0.456
3	C:257:ILE:HG23	C:305:LYS:HD2	0.456
3	D:119:ASN:OD1	D:142:HIS:HB2	0.456
3	D:154:ASP:HA	E:59:ASN:HA	0.456
3	D:311:HIS:NE2	D:337:LYS:CB	0.456
3	F:59:ILE:CD1	F:71:ILE:HD11	0.456
3	C:283:ARG:NH1	F:109:PHE:HB3	0.456
3	C:262:GLN:CG	C:263:THR:N	0.456
3	A:182:TYR:CD2	A:183:SER:N	0.455
3	C:54:ASN:HB3	C:82:SER:N	0.455
3	C:91:LYS:HZ1	C:92:VAL:HA	0.455

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:127:ARG:HG3	C:153:LEU:CD2	0.455
3	C:291:LEU:HD21	C:341:ILE:HD13	0.455
3	C:295:ASP:C	C:296:LEU:CG	0.455
3	C:305:LYS:C	F:45:GLY:CA	0.455
3	C:307:LYS:CG	F:47:GLU:HB3	0.455
3	D:41:GLY:HA3	D:306:GLY:H	0.455
3	D:111:TYR:CE2	E:59:ASN:HB3	0.455
3	D:211:TRP:CZ2	D:216:GLY:HA2	0.455
3	D:232:ILE:CG2	D:243:THR:CG2	0.455
3	D:311:HIS:NE2	D:329:THR:CG2	0.455
3	D:313:ASN:ND2	D:331:SER:CB	0.455
3	F:6:GLN:CG	F:7:GLU:N	0.455
3	A:322:ILE:CG1	A:323:LYS:N	0.455
3	F:123:THR:CG2	F:124:GLN:N	0.455
3	A:334:ILE:CG1	A:335:PRO:CD	0.454
3	C:51:SER:CB	C:51:SER:O	0.454
3	C:98:ASN:CG	C:172:ILE:HG21	0.454
3	D:51:LEU:HD13	D:82:TRP:CD2	0.454
3	D:139:LEU:HD21	D:169:TRP:CZ3	0.454
3	D:182:GLY:CA	E:3:SER:HB3	0.454
3	E:2:ALA:HB3	E:11:GLN:HG2	0.454
3	E:36:ASP:C	E:38:MET:H	0.454
3	E:52:THR:CG2	E:53:PRO:CD	0.454

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	F:19:LEU:HD13	F:20:ARG:N	0.454
3	F:20:ARG:CD	F:81:TYR:CZ	0.454
3	C:169:TYR:HD2	C:171:LEU:CD2	0.454
3	C:53:LYS:NZ	C:61:ARG:H	0.454
3	C:201:ARG:NH2	C:207:ILE:CD1	0.454
3	D:42:ARG:N	D:306:GLY:N	0.454
3	D:262:MET:CG	D:263:THR:N	0.454
3	D:313:ASN:ND2	D:315:VAL:N	0.454
3	A:163:SER:CB	A:220:TRP:NE1	0.453
3	A:191:TRP:CG	A:192:ASP:H	0.453
3	B:30:ARG:CG	B:31:GLY:N	0.453
3	C:45:LEU:CD2	C:184:VAL:CG1	0.453
3	C:178:PHE:CA	C:181:LYS:CG	0.453
3	C:305:LYS:CA	F:45:GLY:N	0.453
3	D:19:ARG:HD2	D:28:ALA:C	0.453
3	D:209:LYS:HB3	D:218:CYS:HB3	0.453
3	B:5:THR:CG2	B:6:PHE:N	0.453
3	C:241:VAL:CG1	C:242:THR:N	0.453
3	A:41:ARG:CB	A:41:ARG:NH1	0.452
3	A:150:HIS:CG	C:392:GLU:CG	0.452
3	A:10:TRP:HZ3	A:195:LEU:HD22	0.452
3	A:243:PHE:O	A:247:VAL:HG23	0.452
3	C:82:SER:N	C:91:LYS:HD3	0.452

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:106:ILE:HD11	C:163:TYR:N	0.452
3	C:100:LYS:HZ3	C:131:ILE:CD1	0.452
3	C:176:GLN:HB2	C:302:LEU:HB2	0.452
3	C:238:PHE:CD1	C:241:VAL:CB	0.452
3	C:239:ASN:CG	D:332:TRP:HZ2	0.452
3	C:248:VAL:HB	C:296:LEU:H	0.452
3	A:150:HIS:CB	C:392:GLU:HG2	0.452
3	D:126:LEU:HA	D:133:VAL:HG12	0.452
3	D:111:TYR:H	E:58:GLU:HB2	0.452
3	C:47:GLY:C	C:49:GLY:N	0.452
3	D:63:TRP:HE1	D:67:SER:CA	0.452
3	A:12:THR:HA	A:15:LYS:NZ	0.451
3	A:49:TRP:CH2	A:58:VAL:HB	0.451
3	A:260:PRO:O	A:264:VAL:HG23	0.451
3	A:283:TRP:CG	A:284:LEU:N	0.451
3	A:339:THR:HG23	A:340:HIS:N	0.451
3	A:410:MET:HG2	A:411:LYS:N	0.451
3	C:392:GLU:HG3	C:392:GLU:O	0.451
3	D:56:ALA:HB1	D:75:GLN:CG	0.451
3	D:107:PRO:CG	E:56:ALA:HB2	0.451
3	D:143:THR:HG23	D:144:GLY:N	0.451
3	D:270:ILE:H	D:270:ILE:HD12	0.451
3	E:53:PRO:O	E:54:VAL:HG13	0.451

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:107:PRO:CD	E:56:ALA:CB	0.451
3	A:7:VAL:CG1	A:8:SER:N	0.451
3	A:249:ILE:O	A:249:ILE:HG13	0.451
3	A:10:TRP:O	A:13:VAL:HG12	0.450
3	A:82:THR:HG22	A:86:LEU:O	0.450
3	A:179:LYS:CD	A:184:THR:CG2	0.450
3	A:312:LEU:HD12	A:326:LEU:CD1	0.450
3	C:44:LEU:CD1	C:47:GLY:C	0.450
3	C:84:SER:HB2	D:119:ASN:CB	0.450
3	C:151:LYS:CB	C:182:ILE:HG23	0.450
3	C:154:TRP:HB3	C:294:GLN:OE1	0.450
3	C:277:TRP:CZ2	F:36:ASN:ND2	0.450
3	C:304:GLY:C	C:306:SER:N	0.450
3	D:253:PHE:CG	D:254:ASP:N	0.450
3	D:318:LEU:HD22	D:328:ALA:C	0.450
3	F:5:LEU:HD13	F:97:CYS:C	0.450
3	C:141:ASP:CB	C:190:TYR:HD2	0.450
3	A:305:ILE:CG2	A:306:CYS:N	0.450
3	D:13:GLN:CA	D:13:GLN:NE2	0.450
3	A:10:TRP:CZ3	A:195:LEU:HD22	0.449
3	A:294:ILE:CG2	A:342:VAL:CG2	0.449
3	A:382:VAL:CG2	A:383:ASN:H	0.449
3	C:56:ILE:HG21	C:60:MET:HB3	0.449

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:71:GLU:C	C:190:TYR:HE1	0.449
3	C:164:GLU:HG2	C:262:GLN:C	0.449
3	C:249:ALA:HB3	C:300:LYS:HA	0.449
3	D:126:LEU:CD2	D:133:VAL:CG1	0.449
3	D:152:LEU:HD21	D:192:LEU:HD13	0.449
3	D:199:PHE:C	D:199:PHE:CD1	0.449
3	D:211:TRP:NE1	D:213:VAL:HA	0.449
3	D:223:THR:CG2	F:2:GLN:CB	0.449
3	D:320:VAL:HG12	D:321:THR:N	0.449
3	E:65:LYS:HB3	E:65:LYS:NZ	0.449
3	A:236:VAL:CG2	A:237:LEU:N	0.449
3	C:51:SER:N	C:225:GLY:H	0.449
3	A:57:PHE:CD1	A:78:TYR:CD1	0.448
3	A:245:LEU:O	A:245:LEU:HD13	0.448
3	C:43:LEU:CD2	C:219:PHE:CZ	0.448
3	C:57:VAL:CG2	C:181:LYS:CD	0.448
3	C:83:ASN:HB2	D:118:ASP:HB2	0.448
3	C:83:ASN:HB3	D:120:ILE:HB	0.448
3	C:104:GLU:HB3	C:131:ILE:CD1	0.448
3	C:179:LEU:C	C:182:ILE:HG22	0.448
3	D:99:TRP:HD1	D:117:LEU:HG	0.448
3	D:188:MET:HG2	D:188:MET:O	0.448
3	D:283:ARG:NH1	D:298:ASP:HB3	0.448

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:326:ALA:CB	D:338:ILE:CG1	0.448
3	E:28:ILE:HG23	E:32:LYS:CE	0.448
3	A:161:PHE:C	A:161:PHE:CD2	0.447
3	A:362:PHE:HD2	A:363:THR:HG23	0.447
3	C:53:LYS:HB3	C:55:THR:CG2	0.447
3	C:58:LYS:HD2	C:59:GLN:H	0.447
3	C:74:GLU:O	C:77:PRO:HA	0.447
3	C:184:VAL:CG1	C:208:PHE:CE2	0.447
3	C:208:PHE:HD2	C:223:ASP:HB2	0.447
3	C:231:ARG:O	C:235:ILE:HG22	0.447
3	C:265:ARG:HD2	C:268:ALA:HB2	0.447
3	C:247:VAL:O	C:280:LYS:HE3	0.447
3	C:296:LEU:CD2	C:301:VAL:C	0.447
3	C:307:LYS:CG	F:47:GLU:CB	0.447
3	D:73:ALA:HB2	D:79:LEU:HD13	0.447
3	D:248:ALA:HB3	D:269:ILE:O	0.447
3	F:48:TRP:CD2	F:111:VAL:CG2	0.447
3	F:33:TYR:OH	F:80:LEU:HD21	0.447
3	F:125:VAL:CG1	F:126:THR:N	0.447
3	A:138:ILE:CG2	A:139:ALA:N	0.447
3	C:127:ARG:NH1	C:131:ILE:N	0.447
3	A:156:ILE:CD1	A:224:GLU:CA	0.446
3	C:53:LYS:CD	C:56:ILE:HG22	0.446

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:99:LEU:HD12	C:182:ILE:HB	0.446
3	C:271:LYS:HB3	C:300:LYS:HE3	0.446
3	D:197:ARG:CD	D:198:LEU:HD12	0.446
3	D:229:ILE:CD1	D:232:ILE:CG2	0.446
3	F:99:ARG:CG	F:100:CYS:N	0.446
3	C:249:ALA:CB	C:300:LYS:N	0.446
3	F:20:ARG:HG2	F:21:LEU:N	0.446
3	A:114:PRO:CB	A:117:GLN:NE2	0.445
3	A:184:THR:O	A:185:ALA:HB2	0.445
3	A:307:ILE:HG12	C:384:GLN:NE2	0.445
3	A:315:ASN:C	A:317:MET:N	0.445
3	C:55:THR:OG1	C:75:GLU:HG2	0.445
3	C:189:ASP:H	C:198:LEU:HD23	0.445
3	C:289:LEU:CG	C:361:PRO:HA	0.445
3	D:139:LEU:CD2	D:169:TRP:CZ3	0.445
3	D:225:HIS:HB2	D:251:ARG:NH2	0.445
3	D:246:ASP:O	D:247:ASP:HB3	0.445
3	F:69:PHE:CE1	F:71:ILE:HG23	0.445
3	F:46:LEU:CB	F:111:VAL:HG13	0.445
3	C:119:LEU:CD2	C:119:LEU:N	0.445
3	C:181:LYS:CD	C:182:ILE:N	0.445
3	C:256:VAL:CG1	C:257:ILE:H	0.445
3	A:49:TRP:CZ2	A:58:VAL:CG2	0.444

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:78:TYR:OH	A:80:PHE:HB2	0.444
3	A:156:ILE:HD11	A:224:GLU:CB	0.444
3	A:344:PHE:CE2	A:364:GLU:CD	0.444
3	C:54:ASN:HB3	C:82:SER:CB	0.444
3	C:65:VAL:CG1	C:66:ASN:N	0.444
3	C:81:ARG:HH11	C:90:THR:CG2	0.444
3	C:151:LYS:CG	C:294:GLN:CB	0.444
3	C:50:GLU:CD	C:227:GLN:HB3	0.444
3	C:232:ARG:O	C:235:ILE:HG22	0.444
3	C:248:VAL:C	C:248:VAL:CG1	0.444
3	D:169:TRP:CZ3	D:176:GLN:HB3	0.444
3	D:296:VAL:O	D:304:ARG:HG3	0.444
3	F:30:PHE:CE1	F:78:ASN:ND2	0.444
3	F:96:TYR:CE2	F:119:ARG:HD2	0.444
3	C:262:GLN:CG	C:263:THR:H	0.444
3	C:96:LYS:C	C:96:LYS:HE3	0.443
3	C:245:ILE:CA	C:288:ILE:HG12	0.443
3	C:280:LYS:CA	C:284:ASP:C	0.443
3	D:4:LEU:O	D:8:ARG:HG2	0.443
3	D:187:VAL:O	D:203:ALA:HA	0.443
3	D:301:LYS:CB	D:301:LYS:HZZ	0.443
3	F:66:LYS:HB2	F:66:LYS:HZZ	0.443
3	C:259:GLU:OE1	F:113:SER:HB2	0.443

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:299:GLU:OE1	F:113:SER:HB2	0.443
3	C:231:ARG:H	C:283:ARG:NH1	0.443
3	C:260:ASP:N	C:305:LYS:N	0.443
3	D:70:LEU:CD2	D:71:VAL:N	0.443
3	A:152:THR:O	A:156:ILE:HG22	0.442
3	A:161:PHE:CD2	A:162:ALA:N	0.442
3	A:214:VAL:HG12	A:218:TYR:CE1	0.442
3	A:261:TRP:CA	A:285:ILE:HD11	0.442
3	C:44:LEU:HD11	C:48:ALA:N	0.442
3	C:82:SER:CB	C:207:ILE:H	0.442
3	C:59:GLN:O	C:174:CYS:HB2	0.442
3	C:57:VAL:CG1	C:185:ILE:HG23	0.442
3	C:52:GLY:O	C:225:GLY:HA3	0.442
3	C:45:LEU:CD1	C:245:ILE:CG2	0.442
3	C:273:PHE:O	C:276:ILE:HG22	0.442
3	D:64:GLY:HA2	D:105:TYR:CD2	0.442
3	D:241:PHE:C	D:241:PHE:CD1	0.442
3	D:285:LEU:HD11	D:297:TRP:CD1	0.442
3	D:151:PHE:O	E:56:ALA:HB3	0.442
3	D:110:ASN:ND2	E:60:PRO:HG3	0.442
3	F:21:LEU:CB	F:37:TRP:HH2	0.442
3	A:25:ARG:HA	A:28:THR:HG22	0.441
3	A:95:LEU:H	A:95:LEU:HD23	0.441

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:150:HIS:HB2	C:394:LEU:HD13	0.441
3	C:174:CYS:CB	C:252:SER:HB2	0.441
3	C:82:SER:OG	C:207:ILE:HB	0.441
3	C:52:GLY:O	C:226:ALA:HB3	0.441
3	C:247:VAL:C	C:248:VAL:HG23	0.441
3	C:263:THR:CB	C:308:ILE:HG21	0.441
3	D:180:PHE:CZ	D:182:GLY:HA3	0.441
3	D:197:ARG:CB	E:69:ALA:CB	0.441
3	D:260:GLU:OE2	D:263:THR:HB	0.441
3	D:318:LEU:HD13	D:319:GLY:N	0.441
3	D:320:VAL:HA	D:327:VAL:HG22	0.441
3	A:242:ILE:CG2	A:243:PHE:N	0.441
3	C:83:ASN:O	D:120:ILE:N	0.441
3	A:43:PHE:CD1	A:48:CYS:HA	0.440
3	A:158:LEU:C	A:160:LEU:H	0.440
3	A:163:SER:HB2	A:220:TRP:CD1	0.440
3	A:169:LEU:CD2	A:173:ILE:HD12	0.440
3	C:48:ALA:CB	C:235:ILE:CG1	0.440
3	C:70:GLY:O	C:90:THR:HA	0.440
3	C:176:GLN:C	C:296:LEU:CD1	0.440
3	C:207:ILE:CG1	C:208:PHE:H	0.440
3	C:259:GLU:HB3	C:299:GLU:HG2	0.440
3	C:295:ASP:HB3	C:301:VAL:HB	0.440

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:296:LEU:N	C:301:VAL:CB	0.440
3	D:20:ASP:CG	D:27:ASP:N	0.440
3	D:99:TRP:CG	D:117:LEU:HG	0.440
3	D:297:TRP:CZ2	D:303:ASP:N	0.440
3	D:61:MET:SD	D:336:LEU:HD22	0.440
3	F:69:PHE:CE2	F:82:LEU:HD21	0.440
3	C:247:VAL:H	C:286:SER:N	0.440
3	D:313:ASN:HD22	D:315:VAL:N	0.440
3	A:182:TYR:HB2	B:18:ALA:HB3	0.439
3	A:261:TRP:HA	A:285:ILE:HD11	0.439
3	A:315:ASN:C	A:317:MET:H	0.439
3	A:371:GLN:OE1	A:375:VAL:HG21	0.439
3	C:53:LYS:CB	C:55:THR:CG2	0.439
3	C:99:LEU:C	C:99:LEU:CD2	0.439
3	C:190:TYR:CG	C:191:VAL:N	0.439
3	C:244:ILE:CG1	C:287:VAL:CG2	0.439
3	C:271:LYS:HD2	C:291:LEU:HD22	0.439
3	D:150:ARG:HG3	D:190:LEU:HD21	0.439
3	D:155:ASN:HB2	E:63:GLU:N	0.439
3	D:284:LEU:HD12	D:286:LEU:HD23	0.439
3	C:155:GLU:CG	C:156:ASP:N	0.439
3	C:58:LYS:HB3	C:177:TYR:CG	0.438
3	C:91:LYS:CG	C:94:ASP:HB3	0.438

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:91:LYS:HA	C:94:ASP:HB3	0.438
3	C:185:ILE:HD12	C:207:ILE:CG1	0.438
3	C:244:ILE:CA	C:287:VAL:HB	0.438
3	C:311:TYR:CE1	C:313:PRO:CD	0.438
3	C:334:VAL:O	C:338:LYS:HB2	0.438
3	D:105:TYR:C	E:58:GLU:N	0.438
3	D:217:MET:HG2	D:218:CYS:N	0.438
3	D:222:PHE:CD2	D:251:ARG:NH1	0.438
3	D:225:HIS:CD2	D:245:SER:CB	0.438
3	D:197:ARG:N	E:69:ALA:CB	0.438
3	F:61:TYR:CE1	F:69:PHE:HD1	0.438
3	A:81:CYS:HA	A:87:TRP:HA	0.437
3	A:100:LEU:O	A:103:CYS:HB3	0.437
3	A:255:LEU:CD1	A:259:VAL:CG2	0.437
3	C:51:SER:CA	C:226:ALA:H	0.437
3	D:266:HIS:HE1	D:297:TRP:CZ3	0.437
3	F:21:LEU:CB	F:37:TRP:CH2	0.437
3	A:37:LEU:HD22	A:38:PHE:N	0.436
3	A:147:ARG:HB3	D:52:ARG:NH2	0.436
3	A:245:LEU:C	A:245:LEU:HD13	0.436
3	C:53:LYS:CB	C:85:ASP:HB2	0.436
3	C:56:ILE:HD13	C:60:MET:CB	0.436
3	C:80:ALA:O	C:81:ARG:HG2	0.436

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:154:TRP:CG	C:179:LEU:HB3	0.436
3	C:250:SER:O	C:259:GLU:HB3	0.436
3	C:280:LYS:HB3	C:285:THR:CA	0.436
3	C:262:GLN:HE22	C:302:LEU:HD13	0.436
3	C:313:PRO:HG2	C:315:PHE:HB3	0.436
3	D:113:ALA:CB	D:151:PHE:CE1	0.436
3	D:167:ALA:HB3	D:176:GLN:CD	0.436
3	C:209:GLU:CG	C:220:HIS:NE2	0.436
3	C:234:TRP:H	C:234:TRP:HE3	0.436
3	D:82:TRP:NE1	D:87:THR:HG1	0.436
3	E:50:LEU:CD1	E:50:LEU:H	0.436
3	D:111:TYR:O	E:58:GLU:CB	0.436
3	A:179:LYS:HD2	A:179:LYS:O	0.435
3	C:84:SER:CB	D:119:ASN:CB	0.435
3	C:104:GLU:CG	C:135:MET:CG	0.435
3	C:56:ILE:HD11	C:174:CYS:HB3	0.435
3	C:177:TYR:CD2	C:180:ASP:OD2	0.435
3	C:295:ASP:C	C:295:ASP:CB	0.435
3	D:64:GLY:CA	D:105:TYR:CD2	0.435
3	D:255:LEU:O	D:255:LEU:HD13	0.435
3	C:279:ASN:N	F:48:TRP:CZ3	0.435
3	A:133:PHE:CE2	A:165:ILE:CD1	0.434
3	A:224:GLU:HG2	A:336:LEU:HD21	0.434

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:265:LYS:HD2	A:274:TRP:HB2	0.434
3	A:347:VAL:C	A:349:ASP:N	0.434
3	C:60:MET:CB	C:252:SER:CB	0.434
3	C:152:ALA:C	C:154:TRP:H	0.434
3	C:184:VAL:O	C:208:PHE:CE1	0.434
3	C:229:ASP:HB3	F:112:THR:CG2	0.434
3	C:244:ILE:HG12	C:287:VAL:HB	0.434
3	C:281:TRP:C	C:283:ARG:H	0.434
3	C:292:ASN:CB	C:365:CYS:SG	0.434
3	C:388:LEU:O	C:389:ARG:HB3	0.434
3	D:82:TRP:CZ3	D:89:LYS:CB	0.434
3	C:141:ASP:OD1	C:190:TYR:HE2	0.434
3	A:370:PHE:HE2	A:374:MET:HB2	0.433
3	C:99:LEU:CD2	C:146:PHE:HZ	0.433
3	C:208:PHE:HD2	C:223:ASP:CA	0.433
3	C:49:GLY:C	C:234:TRP:HB3	0.433
3	C:272:LEU:CB	C:344:GLU:CG	0.433
3	D:225:HIS:CB	D:251:ARG:HH21	0.433
3	D:48:ARG:O	D:338:ILE:HD13	0.433
3	F:98:ALA:HB2	F:119:ARG:CB	0.433
3	F:112:THR:HG22	F:114:THR:O	0.433
3	A:205:LEU:C	A:205:LEU:HD23	0.432
3	A:311:LYS:HD3	A:311:LYS:O	0.432

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	B:30:ARG:CG	B:31:GLY:H	0.432
3	C:73:GLY:O	C:74:GLU:HG3	0.432
3	C:127:ARG:HA	C:127:ARG:HD3	0.432
3	C:249:ALA:CB	C:279:ASN:HD21	0.432
3	D:308:LEU:HD23	D:339:TRP:CE3	0.432
3	C:239:ASN:ND2	D:332:TRP:HZ2	0.432
3	C:223:ASP:O	C:224:VAL:HB	0.432
3	D:50:THR:O	D:50:THR:HG23	0.432
3	A:258:VAL:CG2	A:286:ILE:CD1	0.431
3	C:4:LEU:HB2	C:36:VAL:HG11	0.431
3	C:110:MET:O	C:116:PRO:HB2	0.431
3	C:244:ILE:HG12	C:287:VAL:CB	0.431
3	C:271:LYS:HA	C:300:LYS:CE	0.431
3	C:282:LEU:HB3	F:107:ASP:CG	0.431
3	C:292:ASN:ND2	C:294:GLN:HG2	0.431
3	C:307:LYS:HG2	F:47:GLU:HB3	0.431
3	C:289:LEU:CD2	C:361:PRO:HA	0.431
3	C:246:PHE:CB	C:290:PHE:H	0.431
3	A:223:VAL:O	A:223:VAL:HG12	0.431
3	A:75:GLY:HA3	A:102:GLU:CG	0.430
3	A:132:SER:HB3	A:373:LEU:CD1	0.430
3	A:168:ALA:C	A:170:SER:H	0.430
3	A:189:HIS:CD2	A:190:GLN:N	0.430

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	B:2:ALA:O	B:5:THR:HG22	0.430
3	C:43:LEU:CG	C:245:ILE:HG22	0.430
3	C:81:ARG:HB3	C:91:LYS:CG	0.430
3	C:53:LYS:CG	C:85:ASP:HB2	0.430
3	C:81:ARG:CB	C:91:LYS:CB	0.430
3	C:103:ILE:HG22	C:131:ILE:HG12	0.430
3	C:227:GLN:CD	C:234:TRP:CD2	0.430
3	C:246:PHE:HB2	C:289:LEU:HA	0.430
3	C:292:ASN:CG	C:294:GLN:CA	0.430
3	C:292:ASN:CG	C:294:GLN:HA	0.430
3	D:43:ILE:HG23	D:44:GLN:N	0.430
3	D:139:LEU:C	D:139:LEU:CD2	0.430
3	D:248:ALA:O	D:265:SER:HB2	0.430
3	F:21:LEU:HB3	F:37:TRP:HH2	0.430
3	F:46:LEU:HA	F:96:TYR:OH	0.430
3	F:13:VAL:O	F:127:VAL:HG22	0.430
3	C:60:MET:CG	C:61:ARG:N	0.430
3	C:81:ARG:HB3	C:82:SER:H	0.430
3	C:203:LEU:CD2	C:203:LEU:N	0.430
3	A:41:ARG:CZ	A:41:ARG:HB2	0.429
3	A:45:GLU:CG	B:26:LEU:HD21	0.429
3	A:68:TRP:CE2	A:105:GLU:HA	0.429
3	A:212:TYR:CE1	A:255:LEU:HD23	0.429

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:231:LEU:HA	A:231:LEU:HD23	0.429
3	C:53:LYS:CA	C:226:ALA:CB	0.429
3	C:267:GLN:HG3	C:268:ALA:N	0.429
3	D:229:ILE:CD1	D:243:THR:CB	0.429
3	A:398:ARG:CG	A:399:LEU:N	0.429
3	A:24:GLN:O	A:28:THR:HG22	0.428
3	A:179:LYS:HD2	A:184:THR:CG2	0.428
3	C:169:TYR:CD2	C:171:LEU:HD21	0.428
3	C:181:LYS:HB2	C:223:ASP:OD1	0.428
3	C:220:HIS:CD2	C:221:MET:N	0.428
3	C:48:ALA:CB	C:238:PHE:HB3	0.428
3	D:80:ILE:CD1	D:89:LYS:CB	0.428
3	D:111:TYR:CD1	E:58:GLU:O	0.428
3	D:123:ILE:HD13	D:136:SER:CB	0.428
3	D:180:PHE:CE1	D:218:CYS:SG	0.428
3	D:297:TRP:CE2	D:302:ALA:HA	0.428
3	D:93:ILE:O	D:93:ILE:HG23	0.428
3	F:100:CYS:SG	F:108:CYS:CA	0.428
3	C:56:ILE:HG21	C:60:MET:CB	0.427
3	C:99:LEU:HB2	C:178:PHE:CG	0.427
3	C:194:ASP:HB3	C:197:LEU:CD2	0.427
3	C:254:ASN:O	C:258:ARG:HD3	0.427
3	C:292:ASN:CG	C:364:THR:CG2	0.427

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:296:LEU:CD2	C:302:LEU:CD2	0.427
3	C:295:ASP:CB	C:301:VAL:HG11	0.427
3	D:106:ALA:CB	E:57:SER:H	0.427
3	D:261:LEU:O	D:261:LEU:HD22	0.427
3	F:46:LEU:HD12	F:112:THR:H	0.427
3	F:102:ALA:HB3	F:105:THR:HG22	0.427
3	F:99:ARG:H	F:118:TYR:HD2	0.427
3	A:167:ARG:HD2	A:167:ARG:HH11	0.427
3	A:221:LEU:HD11	A:337:LEU:O	0.426
3	A:294:ILE:CG2	A:342:VAL:HG23	0.426
3	C:18:ALA:O	C:22:ALA:HB3	0.426
3	C:146:PHE:CE1	C:150:ALA:CB	0.426
3	C:246:PHE:CD1	C:290:PHE:O	0.426
3	D:134:ARG:HG3	D:135:VAL:N	0.426
3	D:312:ASP:O	D:313:ASN:HB3	0.426
3	E:5:ASN:HB2	E:14:LYS:CG	0.426
3	F:46:LEU:HB3	F:111:VAL:HG22	0.426
3	F:30:PHE:HE2	F:74:ASP:O	0.426
3	F:105:THR:O	F:105:THR:HG23	0.426
3	A:171:VAL:O	A:174:LYS:HB3	0.425
3	A:268:TYR:CE2	A:269:GLU:CD	0.425
3	C:59:GLN:C	C:251:SER:C	0.425
3	C:55:THR:HG1	C:75:GLU:HG2	0.425

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:82:SER:H	C:91:LYS:HD3	0.425
3	C:92:VAL:CA	C:95:ILE:HG23	0.425
3	C:127:ARG:NH2	C:130:TYR:CD1	0.425
3	C:248:VAL:CG1	C:300:LYS:CB	0.425
3	C:269:ALA:HB2	C:340:PHE:CE2	0.425
3	C:296:LEU:CD1	C:298:ALA:O	0.425
3	D:57:LYS:HA	D:332:TRP:O	0.425
3	D:75:GLN:HB3	D:99:TRP:CZ3	0.425
3	D:292:PHE:CD1	D:315:VAL:HG12	0.425
3	F:98:ALA:HB1	F:119:ARG:HB3	0.425
3	D:47:THR:CG2	D:48:ARG:N	0.425
3	D:225:HIS:CG	D:226:GLU:N	0.425
3	A:17:ARG:HB2	A:17:ARG:NH1	0.424
3	A:178:LEU:HA	A:178:LEU:HD23	0.424
3	A:208:LEU:CD1	A:258:VAL:HG11	0.424
3	A:216:ALA:C	A:220:TRP:HD1	0.424
3	A:432:THR:O	A:433:ALA:HB3	0.424
3	C:53:LYS:N	C:54:ASN:CA	0.424
3	C:106:ILE:HD11	C:163:TYR:CA	0.424
3	C:272:LEU:CD2	C:345:PHE:CA	0.424
3	C:305:LYS:HB3	F:45:GLY:CA	0.424
3	D:197:ARG:HB2	E:69:ALA:CB	0.424
3	E:16:VAL:O	E:20:LYS:HG2	0.424

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	E:50:LEU:C	E:50:LEU:CD2	0.424
3	A:213:CYS:SG	A:214:VAL:N	0.424
3	C:214:VAL:CG1	C:215:ASP:N	0.424
3	A:45:GLU:O	A:46:TYR:HB3	0.423
3	A:200:SER:C	A:202:SER:H	0.423
3	A:230:THR:CG2	A:234:PHE:CE2	0.423
3	C:60:MET:HG3	C:252:SER:CB	0.423
3	C:80:ALA:CB	C:86:GLY:HA3	0.423
3	C:93:GLN:CG	C:190:TYR:HB2	0.423
3	C:101:GLU:HG2	C:172:ILE:HD11	0.423
3	C:135:MET:HG2	C:136:ASN:H	0.423
3	C:262:GLN:HG3	C:303:ALA:HB2	0.423
3	C:355:GLY:C	C:357:HIS:N	0.423
3	D:51:LEU:HD13	D:82:TRP:CG	0.423
3	D:151:PHE:HB2	E:57:SER:O	0.423
3	F:35:MET:CE	F:80:LEU:CD2	0.423
3	F:65:VAL:HG12	F:68:ARG:NH1	0.423
3	A:326:LEU:HA	A:326:LEU:HD13	0.422
3	C:81:ARG:NH1	C:90:THR:HG21	0.422
3	C:141:ASP:CA	C:193:SER:HB3	0.422
3	C:95:ILE:CD1	C:181:LYS:HE2	0.422
3	C:247:VAL:CG2	C:293:LYS:HA	0.422
3	C:345:PHE:CE2	C:359:CYS:HB2	0.422

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:316:LEU:CD2	C:361:PRO:HB2	0.422
3	C:380:ARG:C	C:383:ILE:HG22	0.422
3	D:61:MET:HE1	D:328:ALA:HB1	0.422
3	D:229:ILE:HD11	D:232:ILE:HG22	0.422
3	D:264:TYR:CE1	D:297:TRP:CE3	0.422
3	D:219:ARG:O	E:22:GLU:HG3	0.422
3	C:106:ILE:CG2	C:107:VAL:N	0.422
3	D:51:LEU:HG	D:52:ARG:N	0.422
3	C:55:THR:O	C:56:ILE:C	0.422
3	A:156:ILE:CG1	A:224:GLU:HB2	0.421
3	A:395:GLU:CG	A:402:LEU:HD21	0.421
3	C:150:ALA:N	C:153:LEU:HD13	0.421
3	C:172:ILE:HG23	C:252:SER:OG	0.421
3	C:182:ILE:HG13	C:186:LYS:HE3	0.421
3	C:265:ARG:O	C:266:LEU:HB3	0.421
3	F:20:ARG:CB	F:20:ARG:NH1	0.421
3	A:138:ILE:HG23	A:139:ALA:H	0.420
3	A:246:TYR:O	A:247:VAL:HG22	0.420
3	C:80:ALA:C	C:86:GLY:CA	0.420
3	C:57:VAL:O	C:177:TYR:CD1	0.420
3	C:274:ASP:CG	C:279:ASN:CB	0.420
3	D:107:PRO:CG	E:56:ALA:CB	0.420
3	D:111:TYR:CD1	E:58:GLU:C	0.420

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:207:SER:OG	D:223:THR:HB	0.420
3	D:22:ARG:CD	D:259:GLN:HB3	0.420
3	D:311:HIS:NE2	D:329:THR:HG23	0.420
3	D:106:ALA:N	E:57:SER:C	0.420
3	C:208:PHE:CD2	C:223:ASP:N	0.420
3	A:25:ARG:HA	A:28:THR:CG2	0.419
3	A:49:TRP:CD1	A:50:PRO:O	0.419
3	A:98:ARG:HE	A:100:LEU:HD23	0.419
3	A:156:ILE:HD11	A:224:GLU:HA	0.419
3	A:233:ALA:O	A:234:PHE:CG	0.419
3	A:347:VAL:CG1	A:348:MET:N	0.419
3	C:184:VAL:O	C:208:PHE:CZ	0.419
3	C:238:PHE:HD1	C:241:VAL:CG2	0.419
3	C:271:LYS:HA	C:300:LYS:HE2	0.419
3	C:276:ILE:CB	C:348:ILE:HG21	0.419
3	C:231:ARG:NH1	C:283:ARG:CA	0.419
3	C:259:GLU:CA	C:305:LYS:HG2	0.419
3	C:246:PHE:HE2	C:345:PHE:CE1	0.419
3	C:345:PHE:CE2	C:359:CYS:SG	0.419
3	D:197:ARG:HB2	E:69:ALA:HB2	0.419
3	D:228:ASP:O	D:245:SER:HB3	0.419
3	A:193:GLY:O	A:197:TYR:HD2	0.419
3	A:65:TYR:CG	A:65:TYR:O	0.419

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:181:MET:SD	A:197:TYR:CB	0.419
3	A:27:LEU:C	A:27:LEU:HD22	0.418
3	A:204:ARG:HD2	A:266:TYR:CD1	0.418
3	A:259:VAL:HB	A:260:PRO:CD	0.418
3	B:30:ARG:HG2	B:31:GLY:H	0.418
3	C:57:VAL:HG11	C:181:LYS:HB2	0.418
3	C:60:MET:HA	C:252:SER:O	0.418
3	C:91:LYS:NZ	C:92:VAL:CA	0.418
3	C:151:LYS:HG2	C:294:GLN:HB2	0.418
3	C:248:VAL:HG11	C:301:VAL:N	0.418
3	C:272:LEU:HG	C:344:GLU:O	0.418
3	C:163:TYR:CG	C:302:LEU:HD12	0.418
3	C:154:TRP:HZ2	C:302:LEU:HD21	0.418
3	D:155:ASN:HA	D:171:ILE:HD13	0.418
3	E:38:MET:C	E:38:MET:SD	0.418
3	D:82:TRP:HZ2	D:87:THR:OG1	0.418
3	A:297:ASN:HA	A:297:ASN:HD22	0.418
3	E:58:GLU:OE1	E:59:ASN:N	0.418
3	A:246:TYR:CG	A:246:TYR:O	0.418
3	A:43:PHE:CZ	A:45:GLU:HA	0.417
3	A:88:LEU:C	A:88:LEU:CD2	0.417
3	C:43:LEU:HD21	C:245:ILE:HG21	0.417
3	C:80:ALA:CA	C:86:GLY:HA3	0.417

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:295:ASP:HB3	C:302:LEU:HD22	0.417
3	E:2:ALA:HB3	E:11:GLN:CG	0.417
3	A:57:PHE:HD1	A:78:TYR:CD1	0.417
3	A:280:MET:N	A:280:MET:SD	0.417
3	D:112:VAL:CG1	D:113:ALA:N	0.417
3	D:175:GLN:HG3	D:176:GLN:N	0.417
3	A:244:ARG:HG2	A:244:ARG:HH11	0.416
3	C:80:ALA:HB1	C:86:GLY:N	0.416
3	C:107:VAL:CG1	C:128:VAL:CG1	0.416
3	C:260:ASP:C	C:304:GLY:CA	0.416
3	C:276:ILE:CB	C:348:ILE:CB	0.416
3	D:106:ALA:CB	D:107:PRO:HD2	0.416
3	D:298:ASP:OD1	D:305:ALA:HB2	0.416
3	D:308:LEU:O	D:308:LEU:HD22	0.416
3	F:35:MET:HG3	F:36:ASN:H	0.416
3	F:39:ARG:CD	F:49:VAL:HG21	0.416
3	C:208:PHE:HD2	C:223:ASP:CB	0.416
3	F:103:PRO:CG	F:104:PHE:H	0.416
3	A:261:TRP:CG	A:261:TRP:O	0.416
3	A:194:LEU:N	A:194:LEU:HD23	0.415
3	C:181:LYS:HE3	C:182:ILE:HB	0.415
3	C:45:LEU:CD2	C:245:ILE:CG2	0.415
3	C:249:ALA:HB3	C:300:LYS:H	0.415

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:255:MET:HB3	C:255:MET:HE2	0.415
3	C:297:LEU:HA	C:297:LEU:HD22	0.415
3	C:299:GLU:HB3	C:306:SER:OG	0.415
3	D:17:GLN:C	D:20:ASP:HB3	0.415
3	D:241:PHE:CE2	D:253:PHE:HD2	0.415
3	D:249:THR:HA	D:264:TYR:O	0.415
3	D:283:ARG:CB	E:41:CYS:SG	0.415
3	D:292:PHE:CD2	D:311:HIS:O	0.415
3	F:46:LEU:HD12	F:112:THR:N	0.415
3	A:217:ASN:N	A:220:TRP:HD1	0.415
3	F:109:PHE:HE2	F:112:THR:OG1	0.415
3	A:165:ILE:HG23	A:166:LEU:N	0.415
3	C:203:LEU:HB3	C:204:THR:H	0.415
3	A:46:TYR:CG	A:46:TYR:O	0.415
3	A:124:ILE:HG12	A:125:TYR:N	0.414
3	A:174:LYS:HE3	A:210:MET:SD	0.414
3	A:188:GLN:O	A:189:HIS:HB2	0.414
3	A:218:TYR:CE1	A:290:ILE:HG12	0.414
3	C:50:GLU:HG2	C:224:VAL:C	0.414
3	C:51:SER:CA	C:225:GLY:H	0.414
3	C:73:GLY:HA3	C:97:ASN:CB	0.414
3	C:81:ARG:NH1	C:87:GLU:HG3	0.414
3	C:42:ARG:O	C:241:VAL:HG13	0.414

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:269:ALA:C	C:271:LYS:H	0.414
3	C:289:LEU:HD22	C:345:PHE:HD2	0.414
3	C:303:ALA:CA	C:306:SER:HB2	0.414
3	D:82:TRP:CD1	D:83:ASP:O	0.414
3	D:110:ASN:HB2	E:60:PRO:CB	0.414
3	D:235:PHE:CE2	E:40:TYR:CD2	0.414
3	D:283:ARG:HD3	D:283:ARG:O	0.414
3	D:284:LEU:CD1	D:296:VAL:CG1	0.414
3	D:292:PHE:CE1	D:315:VAL:HB	0.414
3	C:60:MET:N	C:251:SER:O	0.414
3	C:256:VAL:CG1	C:257:ILE:N	0.414
3	C:142:PHE:CG	C:142:PHE:O	0.414
3	C:272:LEU:O	C:272:LEU:HD22	0.414
3	C:301:VAL:O	C:302:LEU:C	0.414
3	A:387:GLN:CD	C:356:ARG:NH2	0.413
3	C:167:ASN:HB2	C:261:ASN:ND2	0.413
3	C:174:CYS:SG	C:178:PHE:CD2	0.413
3	C:180:ASP:CA	C:293:LYS:HB3	0.413
3	C:51:SER:O	C:226:ALA:HA	0.413
3	C:60:MET:CG	C:252:SER:HB3	0.413
3	C:341:ILE:HG12	C:342:ARG:N	0.413
3	C:239:ASN:HD21	C:393:LEU:HD13	0.413
3	D:55:LEU:HG	D:78:LYS:NZ	0.413

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:81:ILE:CD1	D:112:VAL:HG21	0.413
3	D:211:TRP:CH2	D:216:GLY:HA3	0.413
3	D:326:ALA:CB	D:338:ILE:CD1	0.413
3	E:5:ASN:CG	E:6:THR:N	0.413
3	F:40:GLN:HB3	F:96:TYR:CE1	0.413
3	C:52:GLY:N	C:52:GLY:O	0.413
3	C:181:LYS:CG	C:182:ILE:N	0.413
3	E:52:THR:CG2	E:53:PRO:N	0.413
3	C:303:ALA:O	C:306:SER:CB	0.413
3	A:12:THR:O	A:65:TYR:CE1	0.412
3	C:48:ALA:HB1	C:238:PHE:HD2	0.412
3	C:50:GLU:CG	C:227:GLN:CB	0.412
3	C:55:THR:C	C:95:ILE:CG2	0.412
3	C:84:SER:C	C:86:GLY:N	0.412
3	C:81:ARG:NE	C:87:GLU:HB2	0.412
3	C:127:ARG:HB3	C:153:LEU:HD11	0.412
3	C:157:GLU:HA	C:160:ARG:CD	0.412
3	C:184:VAL:O	C:208:PHE:CD1	0.412
3	C:249:ALA:HB3	C:299:GLU:HB2	0.412
3	C:318:TYR:CE2	C:340:PHE:CE1	0.412
3	D:110:ASN:HB2	E:60:PRO:CG	0.412
3	D:111:TYR:CG	E:59:ASN:CB	0.412
3	D:191:SER:CB	D:232:ILE:HD12	0.412

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	F:61:TYR:OH	F:71:ILE:HG12	0.412
3	D:234:PHE:HD2	D:235:PHE:O	0.412
3	D:230:ASN:CG	D:231:ALA:N	0.412
3	C:184:VAL:O	C:208:PHE:CE2	0.412
3	A:179:LYS:C	A:179:LYS:CD	0.411
3	A:312:LEU:HD12	A:326:LEU:HD22	0.411
3	A:379:TYR:HA	A:382:VAL:HG13	0.411
3	C:44:LEU:CD1	C:46:LEU:C	0.411
3	C:53:LYS:CD	C:60:MET:HB3	0.411
3	C:169:TYR:CD2	C:171:LEU:CD2	0.411
3	C:176:GLN:HG3	C:251:SER:CB	0.411
3	C:177:TYR:HA	C:180:ASP:OD2	0.411
3	C:227:GLN:OE1	C:234:TRP:CG	0.411
3	C:348:ILE:C	C:348:ILE:CD1	0.411
3	D:145:TYR:CD1	D:145:TYR:O	0.411
3	D:253:PHE:CE2	D:255:LEU:HA	0.411
3	E:14:LYS:HA	E:14:LYS:HD2	0.411
3	E:53:PRO:C	E:54:VAL:HG13	0.411
3	E:71:LEU:C	E:71:LEU:CD1	0.411
3	F:6:GLN:HG3	F:7:GLU:N	0.411
3	F:8:SER:HB3	F:22:SER:OG	0.411
3	F:95:TYR:CD2	F:95:TYR:O	0.411
3	F:46:LEU:O	F:111:VAL:HG11	0.411

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:267:GLN:CG	C:268:ALA:N	0.411
3	C:240:ASP:CG	D:75:GLN:NE2	0.411
3	A:147:ARG:O	A:148:HIS:CG	0.410
3	A:207:PHE:CZ	A:274:TRP:HD1	0.410
3	C:12:GLN:CB	D:127:LYS:HE2	0.410
3	C:54:ASN:CB	C:81:ARG:O	0.410
3	C:73:GLY:CA	C:97:ASN:CG	0.410
3	C:91:LYS:NZ	C:207:ILE:CG1	0.410
3	C:184:VAL:O	C:208:PHE:CD2	0.410
3	C:176:GLN:CB	C:302:LEU:HD23	0.410
3	D:49:ARG:HB3	D:338:ILE:CG2	0.410
3	D:55:LEU:HG	D:78:LYS:HZ1	0.410
3	D:119:ASN:OD1	D:146:LEU:HD23	0.410
3	D:253:PHE:CE2	D:254:ASP:O	0.410
3	D:264:TYR:CE1	D:297:TRP:CZ3	0.410
3	D:288:GLY:HA2	D:294:CYS:HB2	0.410
3	D:297:TRP:CZ2	D:302:ALA:HA	0.410
3	D:308:LEU:C	D:308:LEU:CD2	0.410
3	D:157:ILE:CG1	D:158:VAL:N	0.410
3	D:225:HIS:HE2	D:227:SER:CB	0.410
3	C:238:PHE:HE1	C:241:VAL:O	0.410
3	D:221:THR:O	D:221:THR:HG23	0.410
3	A:267:LEU:C	A:267:LEU:HD12	0.409

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:22:ALA:C	C:24:LYS:N	0.409
3	C:61:ARG:HD3	C:253:TYR:CZ	0.409
3	C:111:SER:O	C:116:PRO:HG3	0.409
3	C:246:PHE:C	C:286:SER:CB	0.409
3	C:248:VAL:C	C:248:VAL:HG12	0.409
3	D:111:TYR:CD1	D:123:ILE:O	0.409
3	D:111:TYR:CD2	E:59:ASN:O	0.409
3	D:111:TYR:CE1	D:123:ILE:O	0.409
3	D:151:PHE:CD2	E:59:ASN:CB	0.409
3	D:191:SER:HB2	D:232:ILE:CD1	0.409
3	D:250:CYS:O	D:264:TYR:HB3	0.409
3	F:1:MET:HG3	F:2:GLN:H	0.409
3	D:33:ILE:CG2	F:29:THR:CB	0.409
3	F:78:ASN:C	F:78:ASN:ND2	0.409
3	D:82:TRP:HE1	D:87:THR:CA	0.409
3	D:294:CYS:H	D:308:LEU:HB3	0.409
3	A:65:TYR:CD1	A:65:TYR:O	0.408
3	A:167:ARG:C	A:167:ARG:HD3	0.408
3	C:12:GLN:O	C:15:GLU:HB3	0.408
3	C:45:LEU:N	C:45:LEU:HD22	0.408
3	C:71:GLU:C	C:190:TYR:CE1	0.408
3	C:177:TYR:HB2	C:251:SER:OG	0.408
3	C:186:LYS:C	C:188:ALA:N	0.408

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:269:ALA:C	C:270:LEU:HD13	0.408
3	C:279:ASN:C	C:284:ASP:CB	0.408
3	C:282:LEU:HB3	F:107:ASP:CB	0.408
3	C:338:LYS:C	C:338:LYS:CD	0.408
3	D:13:GLN:C	D:15:LYS:H	0.408
3	D:52:ARG:HG2	D:53:GLY:H	0.408
3	D:225:HIS:CE1	D:249:THR:OG1	0.408
3	F:59:ILE:HD11	F:71:ILE:CD1	0.408
3	C:74:GLU:C	C:76:ASP:N	0.408
3	C:51:SER:O	C:226:ALA:N	0.408
3	F:59:ILE:CD1	F:60:SER:N	0.408
3	A:193:GLY:O	A:197:TYR:CD2	0.408
3	A:233:ALA:O	A:234:PHE:CD2	0.407
3	A:393:SER:O	A:397:TRP:CD1	0.407
3	C:177:TYR:N	C:296:LEU:HD11	0.407
3	C:314:GLU:CG	C:318:TYR:HE2	0.407
3	C:151:LYS:NZ	C:368:ASP:HB3	0.407
3	D:46:ARG:C	D:340:ASN:CB	0.407
3	A:363:THR:O	A:367:PHE:HD2	0.407
3	C:245:ILE:O	C:290:PHE:HD1	0.407
3	D:222:PHE:HE2	D:251:ARG:NH1	0.407
3	A:17:ARG:HB2	A:17:ARG:HH11	0.407
3	A:182:TYR:CG	A:183:SER:N	0.407

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:46:LEU:H	C:293:LYS:NZ	0.407
3	D:86:THR:O	D:88:ASN:N	0.407
3	A:261:TRP:CE3	A:282:TYR:CE1	0.406
3	A:395:GLU:CG	A:402:LEU:CD2	0.406
3	C:50:GLU:CB	C:227:GLN:CB	0.406
3	C:247:VAL:C	C:248:VAL:CG2	0.406
3	C:281:TRP:CE3	C:285:THR:HG21	0.406
3	C:345:PHE:CD2	C:345:PHE:O	0.406
3	C:360:TYR:HB3	C:378:ASP:OD2	0.406
3	A:150:HIS:CB	C:394:LEU:HD13	0.406
3	D:292:PHE:C	D:292:PHE:CD2	0.406
3	F:87:LEU:C	F:87:LEU:CD2	0.406
3	F:112:THR:HG22	F:114:THR:N	0.406
3	A:30:ASP:HA	A:31:PRO:HD3	0.405
3	A:43:PHE:CD1	A:47:ALA:O	0.405
3	A:49:TRP:HA	A:50:PRO:HD3	0.405
3	C:22:ALA:HB1	C:26:ILE:CG1	0.405
3	C:55:THR:C	C:95:ILE:CB	0.405
3	C:56:ILE:CD1	C:252:SER:CB	0.405
3	C:77:PRO:HD3	C:172:ILE:HD11	0.405
3	C:201:ARG:HH22	C:207:ILE:CD1	0.405
3	C:239:ASN:C	C:239:ASN:ND2	0.405
3	D:232:ILE:HG22	D:243:THR:HG22	0.405

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:261:LEU:C	D:261:LEU:HD22	0.405
3	E:58:GLU:CD	E:59:ASN:N	0.405
3	F:5:LEU:C	F:5:LEU:CD2	0.405
3	C:277:TRP:CZ3	F:48:TRP:HB3	0.405
3	C:54:ASN:HB3	C:81:ARG:O	0.405
3	C:181:LYS:O	C:184:VAL:N	0.405
3	C:288:ILE:O	C:290:PHE:CE1	0.405
3	A:16:TRP:CH2	A:45:GLU:HB2	0.404
3	A:88:LEU:C	A:88:LEU:HD23	0.404
3	A:132:SER:HB2	A:164:PHE:CZ	0.404
3	A:150:HIS:HB2	C:392:GLU:CB	0.404
3	C:154:TRP:CE2	C:179:LEU:CD1	0.404
3	C:93:GLN:CG	C:190:TYR:CG	0.404
3	C:248:VAL:HG12	C:300:LYS:HB3	0.404
3	C:269:ALA:C	C:271:LYS:N	0.404
3	C:322:GLU:C	C:324:ALA:N	0.404
3	D:253:PHE:HZ	D:258:ASP:HA	0.404
3	D:284:LEU:CD2	D:296:VAL:CG1	0.404
3	D:299:ALA:CB	D:300:LEU:HD12	0.404
3	E:27:ARG:NH1	E:29:LYS:HG2	0.404
3	F:109:PHE:O	F:116:TYR:CE1	0.404
3	C:127:ARG:NH1	C:131:ILE:CG2	0.404
3	D:270:ILE:CD1	D:270:ILE:H	0.404

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:55:THR:O	C:57:VAL:HA	0.404
3	C:56:ILE:HG23	C:58:LYS:O	0.404
3	C:266:LEU:HD12	C:308:ILE:O	0.404
3	D:48:ARG:O	D:49:ARG:HB2	0.404
3	D:50:THR:HG1	D:335:PHE:HE1	0.404
3	A:312:LEU:HA	A:312:LEU:HD22	0.403
3	C:119:LEU:H	C:119:LEU:HD22	0.403
3	C:176:GLN:CG	C:251:SER:CB	0.403
3	C:205:SER:C	C:207:ILE:N	0.403
3	C:212:PHE:CE2	C:213:GLN:O	0.403
3	C:184:VAL:CG2	C:223:ASP:CG	0.403
3	C:173:ASP:CA	C:252:SER:HA	0.403
3	C:266:LEU:HD11	C:270:LEU:HD11	0.403
3	C:353:GLY:C	C:355:GLY:N	0.403
3	D:82:TRP:CZ3	D:89:LYS:CG	0.403
3	D:128:THR:CG2	D:130:GLU:C	0.403
3	D:154:ASP:C	E:59:ASN:ND2	0.403
3	D:47:THR:CA	D:340:ASN:CG	0.403
3	A:211:GLN:HG3	A:261:TRP:HE1	0.403
3	C:51:SER:H	C:226:ALA:H	0.403
3	D:183:HIS:CE1	D:205:ASP:O	0.403
3	A:43:PHE:CD1	A:48:CYS:HB3	0.402
3	A:169:LEU:CD2	A:173:ILE:CD1	0.402

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:205:LEU:C	A:205:LEU:CD2	0.402
3	A:221:LEU:C	A:221:LEU:CD2	0.402
3	A:291:LEU:C	A:291:LEU:CD2	0.402
3	A:316:LEU:HG	A:316:LEU:O	0.402
3	A:45:GLU:CD	B:26:LEU:HG	0.402
3	C:83:ASN:HA	D:120:ILE:HD12	0.402
3	C:95:ILE:C	C:95:ILE:CD1	0.402
3	C:285:THR:C	C:286:SER:C	0.402
3	C:268:ALA:CB	C:341:ILE:CG2	0.402
3	C:393:LEU:HD21	D:332:TRP:CE2	0.402
3	D:14:LEU:HB3	E:19:LEU:HD11	0.402
3	D:22:ARG:HG2	D:259:GLN:HG2	0.402
3	D:51:LEU:CD2	D:54:HIS:CD2	0.402
3	D:63:TRP:CZ2	D:67:SER:O	0.402
3	D:210:LEU:C	D:210:LEU:CD1	0.402
3	D:311:HIS:CD2	D:331:SER:OG	0.402
3	C:296:LEU:CB	C:301:VAL:H	0.402
3	C:300:LYS:HD2	C:307:LYS:HZ3	0.402
3	C:330:GLU:CG	C:331:ASP:H	0.402
3	C:58:LYS:O	C:174:CYS:SG	0.402
3	C:280:LYS:HB2	C:280:LYS:O	0.402
3	A:70:SER:C	A:73:PRO:CD	0.401
3	A:388:LEU:HD21	A:410:MET:HE3	0.401

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	C:45:LEU:CD2	C:184:VAL:HG13	0.401
3	C:53:LYS:CE	C:61:ARG:N	0.401
3	C:53:LYS:HE3	C:60:MET:CA	0.401
3	C:98:ASN:CG	C:172:ILE:CG2	0.401
3	C:43:LEU:CD1	C:243:ALA:HB3	0.401
3	C:289:LEU:HD12	C:290:PHE:H	0.401
3	C:307:LYS:HB2	C:307:LYS:HE2	0.401
3	C:26:ILE:CG2	D:89:LYS:CE	0.401
3	D:160:SER:OG	D:187:VAL:HG11	0.401
3	D:284:LEU:C	D:284:LEU:CD1	0.401
3	E:52:THR:HG22	E:53:PRO:O	0.401
3	C:201:ARG:HD3	C:202:VAL:O	0.401
3	C:3:CYS:HB2	C:218:ASN:OD1	0.401
3	D:124:TYR:CD2	D:124:TYR:O	0.401
3	A:18:GLU:C	A:20:ARG:N	0.400
3	A:311:LYS:C	A:311:LYS:CD	0.400
3	C:57:VAL:HG12	C:181:LYS:HB3	0.400
3	C:333:ARG:HA	C:333:ARG:HD3	0.400
3	C:276:ILE:CB	C:348:ILE:HG13	0.400
3	D:70:LEU:C	D:70:LEU:CD2	0.400
3	C:127:ARG:HH12	C:131:ILE:HB	0.400
3	C:232:ARG:CB	C:283:ARG:HH11	0.400
3	F:109:PHE:O	F:116:TYR:CZ	0.400

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:293:LYS:C	C:293:LYS:CA	1.588
4	C:391:TYR:C	C:391:TYR:CA	1.579
4	C:280:LYS:C	C:280:LYS:CA	1.545
4	C:281:TRP:CA	C:281:TRP:N	1.539
4	C:392:GLU:C	C:392:GLU:CA	1.534
4	C:285:THR:CA	C:285:THR:N	1.533
4	C:49:GLY:C	C:49:GLY:CA	1.532
4	C:261:ASN:C	C:261:ASN:CA	1.523
4	C:306:SER:CA	C:306:SER:N	1.519
4	C:307:LYS:CA	C:307:LYS:N	1.519
4	C:280:LYS:CA	C:280:LYS:N	1.511
4	C:296:LEU:CA	C:296:LEU:N	1.507
4	C:295:ASP:C	C:295:ASP:CA	1.504
4	C:58:LYS:C	C:59:GLN:N	1.499
4	C:261:ASN:CA	C:261:ASN:N	1.498
4	C:307:LYS:C	C:307:LYS:CA	1.497
4	C:306:SER:C	C:306:SER:CA	1.493
4	C:50:GLU:CA	C:50:GLU:N	1.491
4	C:284:ASP:C	C:284:ASP:CA	1.487
4	C:308:ILE:CA	C:308:ILE:N	1.485
4	C:279:ASN:C	C:279:ASN:CA	1.481
4	C:249:ALA:C	C:249:ALA:CA	1.476
4	C:250:SER:CA	C:250:SER:N	1.468

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:249:ALA:CA	C:249:ALA:N	1.457
4	C:293:LYS:CA	C:293:LYS:N	1.457
4	C:260:ASP:C	C:260:ASP:CA	1.444
4	C:58:LYS:C	C:58:LYS:CA	1.441
4	C:292:ASN:C	C:292:ASN:CA	1.441
4	C:305:LYS:C	C:305:LYS:CA	1.432
4	C:248:VAL:C	C:248:VAL:CA	1.428
4	C:59:GLN:CA	C:59:GLN:N	1.380
4	A:100:LEU:HD21	B:27:VAL:HG11	1.124
4	C:55:THR:HG22	C:91:LYS:HG3	1.118
4	C:46:LEU:HD23	C:247:VAL:HG23	1.112
4	C:280:LYS:C	C:280:LYS:HA	1.107
4	C:249:ALA:HA	C:301:VAL:HA	1.082
4	C:59:GLN:CA	C:184:VAL:HA	1.069
4	C:59:GLN:HB2	C:184:VAL:HG13	1.057
4	A:143:LEU:HG	A:147:ARG:HG3	1.045
4	C:298:ALA:HA	C:301:VAL:HB	1.042
4	D:190:LEU:HD21	D:199:PHE:HB2	1.036
4	C:48:ALA:HB3	C:224:VAL:HG21	1.034
4	C:244:ILE:HD11	C:286:SER:HB3	1.034
4	D:193:ALA:HB1	D:194:PRO:HD2	1.030
4	C:229:ASP:HB2	C:298:ALA:HB1	1.025
4	C:89:ALA:HB2	C:204:THR:HG22	1.023

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:45:LEU:HD22	C:184:VAL:HG21	1.017
4	C:280:LYS:HA	C:280:LYS:N	1.013
4	D:106:ALA:HB3	D:111:TYR:HB3	1.010
4	C:59:GLN:HA	C:184:VAL:CA	1.005
4	C:245:ILE:HA	C:288:ILE:HG23	1.004
4	A:182:TYR:HB2	B:14:LEU:HG	1.002
4	A:309:VAL:HG22	A:326:LEU:HD12	1.000
4	D:139:LEU:HD13	D:169:TRP:HB3	0.998
4	C:266:LEU:HD12	C:348:ILE:HD11	0.997
4	D:58:ILE:HD13	D:336:LEU:HD21	0.992
4	C:68:PHE:HB3	C:199:ARG:HA	0.991
4	D:80:ILE:HD11	D:89:LYS:HB3	0.991
4	A:258:VAL:HG22	A:286:ILE:HD13	0.989
4	C:219:PHE:HB3	C:221:MET:HE2	0.987
4	D:57:LYS:HG3	D:332:TRP:HA	0.982
4	C:59:GLN:HA	C:184:VAL:HA	0.980
4	C:247:VAL:HG23	C:293:LYS:H	0.980
4	C:306:SER:HB2	F:45:GLY:HA3	0.980
4	E:3:SER:HB3	E:6:THR:HB	0.978
4	C:308:ILE:N	C:309:GLU:N	0.977
4	C:270:LEU:HD12	C:348:ILE:HB	0.976
4	C:59:GLN:HG3	C:184:VAL:HG22	0.973
4	C:95:ILE:HG21	C:185:ILE:HG21	0.973

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:113:LEU:HD11	C:116:PRO:HA	0.973
4	C:247:VAL:HG13	C:290:PHE:HB3	0.973
4	C:390:GLN:HA	C:390:GLN:HE21	0.972
4	C:87:GLU:HG3	D:140:ALA:HB3	0.968
4	C:248:VAL:HA	C:297:LEU:HD21	0.966
4	C:45:LEU:HD12	C:245:ILE:HG23	0.962
4	C:34:LYS:HA	D:55:LEU:HD11	0.961
4	C:308:ILE:C	C:308:ILE:N	0.961
4	C:46:LEU:HD13	C:293:LYS:HE2	0.957
4	A:182:TYR:HB3	B:18:ALA:HB2	0.956
4	A:290:ILE:HG13	A:291:LEU:HD12	0.956
4	C:151:LYS:HD3	C:187:GLN:HG2	0.956
4	D:120:ILE:HD11	D:138:GLU:HB2	0.951
4	C:272:LEU:HG	C:307:LYS:HE3	0.950
4	C:308:ILE:HD12	F:39:ARG:HD2	0.942
4	C:58:LYS:HE3	C:207:ILE:HB	0.939
4	D:241:PHE:CD1	D:255:LEU:HD21	0.939
4	C:95:ILE:HD11	C:178:PHE:CG	0.937
4	C:299:GLU:HB3	F:111:VAL:HB	0.934
4	C:76:ASP:HB2	C:77:PRO:HD3	0.933
4	C:303:ALA:HB2	C:306:SER:N	0.933
4	A:258:VAL:HA	A:286:ILE:HD11	0.932
4	A:370:PHE:CZ	A:373:LEU:HD11	0.931

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:58:LYS:NZ	C:92:VAL:HG13	0.930
4	C:49:GLY:HA3	C:224:VAL:HG13	0.929
4	C:181:LYS:HD3	C:184:VAL:HB	0.929
4	A:136:LEU:HG	A:161:PHE:CD1	0.928
4	A:144:LEU:HA	D:47:THR:HB	0.927
4	C:271:LYS:HG3	C:283:ARG:HD3	0.925
4	C:282:LEU:CA	C:285:THR:HA	0.923
4	C:57:VAL:HG12	C:225:GLY:HA2	0.922
4	C:279:ASN:HB3	C:297:LEU:HD11	0.919
4	F:10:GLY:HA2	F:19:LEU:HD11	0.919
4	D:79:LEU:HD23	D:95:LEU:HD21	0.918
4	C:270:LEU:HD21	C:345:PHE:HA	0.915
4	C:306:SER:H	F:45:GLY:HA2	0.915
4	A:309:VAL:HA	A:312:LEU:HG	0.914
4	C:60:MET:HB3	C:186:LYS:HA	0.914
4	C:177:TYR:HB2	C:250:SER:HA	0.913
4	C:296:LEU:CA	C:298:ALA:H	0.913
4	D:184:THR:HG23	F:115:THR:HG21	0.913
4	C:208:PHE:HB2	C:223:ASP:HB3	0.912
4	F:41:ALA:HA	F:93:ALA:HB3	0.912
4	C:57:VAL:HB	C:225:GLY:C	0.911
4	F:42:PRO:HD2	F:129:SER:HB2	0.911
4	A:236:VAL:HG12	A:237:LEU:HD22	0.910

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:282:LEU:HD11	C:394:LEU:HD22	0.909
4	C:293:LYS:HE3	C:295:ASP:HB2	0.909
4	D:58:ILE:HD11	D:72:SER:HB3	0.909
4	A:288:LEU:HB3	A:289:PRO:HD3	0.907
4	F:35:MET:HE2	F:80:LEU:HD21	0.907
4	C:87:GLU:HA	D:140:ALA:HB1	0.906
4	C:248:VAL:C	C:248:VAL:HG22	0.904
4	A:59:ASN:HB2	A:76:HIS:HB2	0.902
4	C:61:ARG:HA	C:189:ASP:HA	0.902
4	C:249:ALA:CA	C:301:VAL:HA	0.900
4	A:308:VAL:HG11	A:326:LEU:HD21	0.898
4	C:60:MET:HA	C:210:THR:HB	0.898
4	C:113:LEU:HD13	C:115:PRO:HD2	0.894
4	C:103:ILE:HD11	C:153:LEU:HD23	0.892
4	D:176:GLN:NE2	D:179:THR:HB	0.892
4	F:35:MET:SD	F:80:LEU:HG	0.892
4	F:89:PRO:HA	F:127:VAL:HG13	0.892
4	A:309:VAL:HG22	A:326:LEU:CD1	0.890
4	C:44:LEU:HD23	C:222:PHE:HB2	0.890
4	C:279:ASN:CB	C:297:LEU:HD11	0.889
4	A:138:ILE:HG21	D:42:ARG:HG2	0.887
4	C:297:LEU:HD23	C:301:VAL:HG23	0.885
4	F:12:LEU:HA	F:126:THR:CG2	0.883

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:249:ILE:HD12	A:253:VAL:HG22	0.882
4	A:258:VAL:HA	A:286:ILE:CD1	0.881
4	C:54:ASN:HB2	C:207:ILE:HG13	0.881
4	C:57:VAL:HB	C:225:GLY:CA	0.881
4	A:136:LEU:HG	A:161:PHE:CE1	0.880
4	C:57:VAL:HA	C:177:TYR:CE2	0.880
4	C:219:PHE:CB	C:221:MET:HE2	0.879
4	A:144:LEU:CB	D:47:THR:HB	0.878
4	C:279:ASN:CG	C:297:LEU:HD11	0.878
4	C:144:PRO:HD2	C:194:ASP:HB2	0.877
4	C:54:ASN:ND2	C:91:LYS:HB3	0.876
4	D:187:VAL:HG22	D:203:ALA:HB2	0.876
4	C:46:LEU:HD22	C:293:LYS:HG2	0.872
4	C:284:ASP:C	C:284:ASP:N	0.872
4	C:103:ILE:HD12	C:106:ILE:HD11	0.871
4	A:124:ILE:HD13	A:125:TYR:H	0.870
4	A:142:ILE:HG23	D:310:GLY:N	0.869
4	C:82:SER:HB3	C:91:LYS:HB2	0.866
4	C:191:VAL:HG22	C:192:PRO:HD2	0.866
4	C:247:VAL:HB	C:292:ASN:CA	0.865
4	C:59:GLN:CB	C:184:VAL:HG13	0.864
4	C:238:PHE:HB2	C:241:VAL:HG22	0.864
4	C:293:LYS:C	C:293:LYS:CB	0.863

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:398:ARG:HH11	C:351:ALA:HA	0.862
4	A:144:LEU:HB3	D:47:THR:HB	0.861
4	C:305:LYS:HD3	F:44:LYS:HG2	0.861
4	C:82:SER:HB3	C:91:LYS:CB	0.860
4	C:46:LEU:HD23	C:247:VAL:CG2	0.859
4	C:250:SER:HB3	C:302:LEU:HD12	0.858
4	C:299:GLU:CB	F:111:VAL:HB	0.858
4	D:80:ILE:CG1	D:92:ALA:HB2	0.857
4	A:191:TRP:CZ2	A:195:LEU:HD11	0.855
4	C:58:LYS:HE2	C:185:ILE:HB	0.854
4	C:1:MET:HG3	C:202:VAL:HG11	0.853
4	C:248:VAL:CA	C:293:LYS:HA	0.853
4	C:46:LEU:HD22	C:293:LYS:CB	0.852
4	C:30:LEU:HD22	D:89:LYS:NZ	0.851
4	D:241:PHE:CE1	D:255:LEU:HD21	0.850
4	F:21:LEU:HD22	F:95:TYR:CD2	0.850
4	D:80:ILE:HG13	D:92:ALA:HB2	0.849
4	C:71:GLU:HA	C:93:GLN:HG2	0.848
4	C:248:VAL:C	C:248:VAL:CG2	0.847
4	A:158:LEU:HD12	A:159:ASN:N	0.845
4	C:46:LEU:HD11	C:181:LYS:HG3	0.845
4	C:58:LYS:HG2	C:207:ILE:HG12	0.844
4	C:282:LEU:C	C:285:THR:HA	0.844

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:271:CYS:HB3	D:290:ASP:HB3	0.843
4	A:182:TYR:O	B:14:LEU:HD11	0.842
4	C:289:LEU:HB2	C:361:PRO:HA	0.842
4	C:177:TYR:HE1	C:293:LYS:HD3	0.842
4	C:246:PHE:CD2	C:289:LEU:HA	0.838
4	D:201:SER:HB2	D:209:LYS:HD3	0.838
4	F:39:ARG:HG3	F:49:VAL:HG21	0.838
4	C:73:GLY:HA2	C:94:ASP:HA	0.836
4	C:283:ARG:HB3	C:294:GLN:HG3	0.836
4	C:346:LEU:HD12	C:347:ARG:HG3	0.836
4	C:293:LYS:HG3	C:295:ASP:H	0.835
4	C:277:TRP:HB3	C:341:ILE:HD13	0.834
4	D:71:VAL:HG22	D:81:ILE:HB	0.833
4	C:49:GLY:CA	C:224:VAL:HG13	0.831
4	C:277:TRP:HB3	C:341:ILE:HG21	0.831
4	C:279:ASN:HB3	C:297:LEU:HD21	0.831
4	A:395:GLU:HG3	A:411:LYS:HD3	0.829
4	C:178:PHE:CZ	C:185:ILE:HG23	0.829
4	C:289:LEU:HD21	C:359:CYS:HB2	0.829
4	C:46:LEU:HD22	C:293:LYS:CG	0.828
4	C:229:ASP:HB3	C:302:LEU:HD13	0.828
4	C:58:LYS:HD3	C:95:ILE:HG21	0.827
4	C:296:LEU:HD21	F:109:PHE:CD1	0.827

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:190:LEU:HD22	D:191:SER:N	0.826
4	A:355:THR:HG23	A:356:LEU:HD22	0.825
4	C:247:VAL:HB	C:292:ASN:C	0.824
4	C:250:SER:HB3	C:302:LEU:HB3	0.824
4	C:55:THR:CG2	C:91:LYS:HG3	0.823
4	A:320:THR:HB	A:325:ARG:HD3	0.821
4	C:49:GLY:HA2	C:234:TRP:CD1	0.821
4	F:12:LEU:HA	F:126:THR:HG21	0.821
4	C:293:LYS:HD2	C:301:VAL:HG11	0.820
4	A:236:VAL:HA	C:39:ALA:HA	0.819
4	C:53:LYS:HE2	D:143:THR:HB	0.819
4	C:46:LEU:HD21	C:181:LYS:HG2	0.818
4	C:260:ASP:HB2	C:307:LYS:CB	0.817
4	D:166:CYS:HB3	D:180:PHE:HB3	0.817
4	C:12:GLN:HA	C:15:GLU:HB2	0.816
4	C:45:LEU:HD23	C:181:LYS:HD2	0.816
4	F:41:ALA:HB1	F:129:SER:HB2	0.816
4	C:44:LEU:HD11	C:238:PHE:HB3	0.813
4	F:100:CYS:HB3	F:108:CYS:HB2	0.813
4	C:82:SER:CA	C:91:LYS:HB2	0.812
4	D:234:PHE:HA	D:241:PHE:CD2	0.812
4	E:54:VAL:HB	E:55:PRO:HD2	0.811
4	C:81:ARG:HB2	C:90:THR:HG22	0.810

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:225:HIS:HE1	D:249:THR:HB	0.810
4	C:391:TYR:C	C:391:TYR:CG	0.809
4	C:59:GLN:HA	C:59:GLN:N	0.809
4	C:32:LYS:O	C:36:VAL:HG23	0.808
4	C:48:ALA:HB1	C:295:ASP:N	0.807
4	C:57:VAL:O	C:207:ILE:HD11	0.807
4	C:272:LEU:HA	C:307:LYS:CE	0.807
4	A:146:PHE:HB2	D:335:PHE:CG	0.806
4	C:59:GLN:HG2	C:221:MET:HB3	0.806
4	D:259:GLN:HG2	D:260:GLU:H	0.806
4	A:148:HIS:HA	D:312:ASP:HB2	0.805
4	A:308:VAL:HG12	A:312:LEU:HD21	0.804
4	C:87:GLU:HG2	C:88:LYS:H	0.804
4	C:96:LYS:HD3	C:142:PHE:CD2	0.804
4	C:57:VAL:HA	C:177:TYR:CD2	0.803
4	C:290:PHE:CE1	C:364:THR:HB	0.802
4	D:192:LEU:H	D:192:LEU:HD23	0.802
4	D:270:ILE:H	D:270:ILE:HD13	0.802
4	F:19:LEU:HD22	F:20:ARG:N	0.802
4	A:260:PRO:O	A:264:VAL:HG23	0.801
4	C:231:ARG:HH11	C:235:ILE:HG12	0.800
4	D:142:HIS:CE1	D:161:SER:HB3	0.800
4	A:261:TRP:CG	A:286:ILE:HD12	0.799

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:272:LEU:HD23	C:307:LYS:CG	0.799
4	C:284:ASP:HB2	C:296:LEU:HD13	0.799
4	F:65:VAL:HG23	F:69:PHE:CD1	0.798
4	A:77:VAL:HG13	A:99:ASP:OD2	0.797
4	C:71:GLU:HA	C:93:GLN:CG	0.795
4	F:48:TRP:CZ2	F:51:ASP:HB3	0.795
4	C:270:LEU:CD2	C:345:PHE:HA	0.793
4	C:191:VAL:HG22	C:192:PRO:CD	0.792
4	C:62:ILE:HG12	C:190:TYR:HB2	0.791
4	C:282:LEU:HA	C:285:THR:HA	0.791
4	C:296:LEU:HG	F:109:PHE:CE2	0.791
4	C:262:GLN:HE21	C:314:GLU:HG3	0.791
4	C:272:LEU:HD23	C:307:LYS:CD	0.789
4	F:92:THR:HG23	F:127:VAL:CG1	0.789
4	D:292:PHE:CE1	D:315:VAL:HG22	0.788
4	A:148:HIS:CA	D:312:ASP:HB2	0.787
4	C:49:GLY:HA3	C:227:GLN:HE22	0.787
4	C:177:TYR:CD2	C:178:PHE:HA	0.787
4	C:177:TYR:CD1	C:250:SER:HA	0.786
4	A:357:ARG:HB3	A:360:LYS:HE3	0.783
4	C:57:VAL:HG13	C:177:TYR:CE1	0.783
4	C:272:LEU:HD23	C:307:LYS:HD3	0.783
4	D:273:ILE:HG13	D:287:ALA:HB1	0.783

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:288:LEU:HG	A:292:PHE:CE2	0.782
4	C:46:LEU:HD12	C:224:VAL:HG23	0.781
4	C:59:GLN:HA	C:184:VAL:CB	0.781
4	C:71:GLU:HG2	C:93:GLN:HG2	0.781
4	C:99:LEU:HD23	C:178:PHE:CD2	0.781
4	A:399:LEU:HD12	A:410:MET:HE2	0.780
4	C:295:ASP:C	C:295:ASP:N	0.780
4	D:117:LEU:HD22	D:145:TYR:HB2	0.780
4	A:142:ILE:HD12	D:309:ALA:CB	0.779
4	C:54:ASN:N	C:91:LYS:HG2	0.779
4	C:61:ARG:HE	C:372:ILE:HG13	0.779
4	D:73:ALA:HB3	D:103:CYS:SG	0.779
4	C:46:LEU:HB2	C:48:ALA:HB2	0.778
4	C:208:PHE:CB	C:223:ASP:HB3	0.778
4	C:45:LEU:HD22	C:184:VAL:CG2	0.777
4	D:200:VAL:HG22	D:210:LEU:HD23	0.777
4	F:71:ILE:HD11	F:80:LEU:HD21	0.777
4	A:232:LEU:HD21	C:387:HIS:HB3	0.776
4	C:293:LYS:C	C:293:LYS:CG	0.776
4	C:392:GLU:C	C:392:GLU:CB	0.776
4	A:143:LEU:O	D:47:THR:HG22	0.776
4	C:71:GLU:HA	C:93:GLN:CB	0.775
4	D:170:ASP:HB3	D:173:THR:HG22	0.775

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:177:TYR:CB	C:250:SER:HA	0.774
4	C:247:VAL:CG1	C:292:ASN:HB2	0.774
4	E:53:PRO:HG2	E:65:LYS:HG2	0.774
4	F:10:GLY:CA	F:19:LEU:HD11	0.774
4	A:399:LEU:CD1	A:410:MET:HE2	0.773
4	C:30:LEU:HD22	D:89:LYS:HZ3	0.773
4	C:280:LYS:HA	C:280:LYS:O	0.773
4	A:398:ARG:HA	A:398:ARG:HE	0.770
4	C:68:PHE:CB	C:199:ARG:HA	0.770
4	C:71:GLU:HA	C:93:GLN:HB3	0.770
4	C:84:SER:H	C:91:LYS:HD3	0.770
4	C:92:VAL:HG22	C:207:ILE:CG2	0.769
4	C:208:PHE:HB2	C:223:ASP:CB	0.769
4	C:248:VAL:CB	C:279:ASN:HB2	0.769
4	D:325:MET:HB3	E:55:PRO:HG2	0.769
4	E:9:ILE:H	E:9:ILE:HD12	0.769
4	F:37:TRP:CZ2	F:82:LEU:HD22	0.769
4	F:95:TYR:OH	F:97:CYS:HA	0.769
4	C:48:ALA:HA	C:294:GLN:O	0.768
4	F:13:VAL:H	F:126:THR:HG21	0.768
4	C:75:GLU:HB3	C:252:SER:HB3	0.767
4	C:82:SER:CB	C:91:LYS:HB2	0.767
4	A:236:VAL:CA	C:39:ALA:HA	0.766

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:58:LYS:C	C:58:LYS:CB	0.766
4	C:58:LYS:HB2	C:185:ILE:HG22	0.766
4	D:30:LEU:H	D:30:LEU:HD23	0.766
4	D:297:TRP:CZ2	D:302:ALA:HB1	0.766
4	D:18:ILE:HG13	D:22:ARG:HH21	0.765
4	A:156:ILE:HA	A:220:TRP:HZ2	0.764
4	D:111:TYR:HE2	D:123:ILE:HD12	0.764
4	D:62:HIS:O	D:70:LEU:HD23	0.763
4	A:156:ILE:HG13	A:220:TRP:CZ2	0.761
4	C:178:PHE:CE2	C:182:ILE:HG12	0.761
4	D:104:ALA:HB3	D:113:ALA:HB3	0.761
4	D:187:VAL:HA	D:203:ALA:HB2	0.761
4	A:143:LEU:HD12	A:158:LEU:HB3	0.760
4	A:334:ILE:HD12	A:339:THR:HB	0.759
4	D:244:GLY:HA3	D:273:ILE:HD12	0.759
4	A:222:LEU:HD12	A:293:ALA:HB2	0.758
4	A:397:TRP:CZ3	A:401:HIS:HA	0.758
4	C:270:LEU:HD11	C:345:PHE:HA	0.758
4	D:107:PRO:HD2	D:151:PHE:CD2	0.758
4	C:304:GLY:H	F:113:SER:HB3	0.757
4	C:269:ALA:HA	C:272:LEU:HD13	0.756
4	D:274:THR:HG21	D:314:ARG:HH21	0.756
4	C:99:LEU:HB2	C:178:PHE:CD2	0.755

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:251:SER:HB3	C:302:LEU:HD23	0.755
4	D:44:GLN:HG3	D:45:MET:H	0.755
4	D:198:LEU:HD22	D:199:PHE:N	0.755
4	C:88:LYS:HG3	C:204:THR:HG21	0.754
4	C:299:GLU:HB3	F:111:VAL:CB	0.753
4	C:255:MET:H	C:305:LYS:HG2	0.753
4	C:46:LEU:C	C:48:ALA:H	0.752
4	C:58:LYS:HD3	C:185:ILE:HG21	0.752
4	C:46:LEU:HD21	C:181:LYS:CG	0.751
4	A:335:PRO:HG3	A:367:PHE:HZ	0.750
4	C:246:PHE:HB2	C:280:LYS:CD	0.750
4	D:115:GLY:HA2	D:121:CYS:SG	0.750
4	C:96:LYS:HZ3	C:100:LYS:HE3	0.749
4	C:246:PHE:HB2	C:280:LYS:CE	0.749
4	C:261:ASN:C	C:261:ASN:CB	0.748
4	A:15:LYS:HB3	A:65:TYR:CD1	0.747
4	C:268:ALA:HB2	C:271:LYS:HD3	0.747
4	F:89:PRO:HA	F:127:VAL:CG1	0.747
4	A:12:THR:HB	A:65:TYR:OH	0.746
4	A:225:GLY:CA	A:337:LEU:HD11	0.746
4	C:262:GLN:HB2	F:63:GLY:HA3	0.746
4	C:288:ILE:HD13	C:289:LEU:N	0.746
4	D:211:TRP:CE3	D:218:CYS:HB3	0.746

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:293:LYS:C	C:293:LYS:HG3	0.745
4	C:307:LYS:CA	F:47:GLU:HG3	0.745
4	D:111:TYR:CE2	D:123:ILE:HD12	0.745
4	D:226:GLU:HB2	F:28:PHE:CD1	0.745
4	C:281:TRP:CE2	C:349:SER:HB2	0.744
4	D:335:PHE:HE2	D:337:LYS:HB2	0.744
4	C:177:TYR:HB2	C:250:SER:CA	0.743
4	D:80:ILE:HG21	D:82:TRP:CZ2	0.743
4	A:77:VAL:HG13	A:99:ASP:CG	0.742
4	A:124:ILE:HD13	A:125:TYR:N	0.742
4	C:88:LYS:HG3	C:204:THR:CG2	0.742
4	C:250:SER:C	C:302:LEU:HB3	0.742
4	D:51:LEU:HB3	D:336:LEU:HB2	0.742
4	D:120:ILE:HD11	D:138:GLU:CB	0.742
4	C:285:THR:HA	C:285:THR:N	0.742
4	A:13:VAL:HA	A:16:TRP:CD1	0.741
4	C:53:LYS:HA	C:91:LYS:HD2	0.741
4	C:53:LYS:HA	C:91:LYS:HE2	0.741
4	C:155:GLU:HB2	C:365:CYS:CB	0.741
4	D:300:LEU:O	D:300:LEU:HD13	0.741
4	D:335:PHE:CE2	D:337:LYS:HB2	0.741
4	F:38:VAL:HG13	F:47:GLU:O	0.741
4	F:92:THR:CG2	F:127:VAL:HB	0.741

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:160:LEU:HB2	A:220:TRP:CD1	0.740
4	C:89:ALA:HB2	C:204:THR:CG2	0.740
4	C:244:ILE:HD11	C:287:VAL:H	0.740
4	D:105:TYR:CE2	D:109:GLY:HA2	0.740
4	C:58:LYS:CE	C:185:ILE:HB	0.739
4	C:58:LYS:HG2	C:207:ILE:CD1	0.739
4	A:236:VAL:HG13	C:39:ALA:HA	0.738
4	C:51:SER:HB3	C:54:ASN:HA	0.738
4	C:68:PHE:HB3	C:199:ARG:CA	0.738
4	C:244:ILE:CD1	C:286:SER:HB3	0.738
4	D:225:HIS:CD2	D:227:SER:H	0.738
4	C:82:SER:HA	C:91:LYS:HZ1	0.737
4	C:95:ILE:HD11	C:178:PHE:CD1	0.737
4	F:21:LEU:HB3	F:37:TRP:HH2	0.737
4	A:229:TYR:HD1	A:303:ARG:HD3	0.736
4	C:58:LYS:HZ2	C:92:VAL:HG13	0.736
4	C:247:VAL:HG11	C:290:PHE:HD2	0.736
4	C:247:VAL:HG23	C:293:LYS:N	0.736
4	F:42:PRO:HD3	F:93:ALA:CB	0.736
4	C:293:LYS:HA	C:293:LYS:N	0.736
4	C:103:ILE:HD11	C:153:LEU:CD2	0.735
4	D:99:TRP:HE1	D:101:MET:HE3	0.735
4	F:101:PRO:HG2	F:116:TYR:CE1	0.735

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:152:THR:HA	A:155:TYR:CD1	0.734
4	A:319:LYS:HG3	A:322:ILE:HG22	0.734
4	C:83:ASN:HB3	C:86:GLY:N	0.734
4	C:249:ALA:C	C:301:VAL:HG13	0.734
4	C:284:ASP:CB	C:296:LEU:HD13	0.734
4	C:306:SER:CB	F:45:GLY:HA3	0.734
4	D:118:ASP:HB3	D:120:ILE:HG22	0.734
4	F:92:THR:HG23	F:127:VAL:HG11	0.734
4	C:299:GLU:HB3	F:111:VAL:CG2	0.733
4	D:313:ASN:HB3	D:332:TRP:HB3	0.733
4	F:33:TYR:CD1	F:99:ARG:HG3	0.733
4	F:37:TRP:CZ3	F:82:LEU:HB3	0.733
4	A:117:GLN:HA	A:117:GLN:HE21	0.732
4	A:159:ASN:HB3	A:220:TRP:CZ2	0.732
4	A:229:TYR:CD1	A:303:ARG:HD3	0.732
4	C:45:LEU:CD2	C:184:VAL:HG21	0.732
4	C:56:ILE:C	C:95:ILE:HD13	0.732
4	C:89:ALA:CB	C:204:THR:HG22	0.732
4	C:1:MET:SD	C:202:VAL:HG21	0.732
4	C:57:VAL:O	C:225:GLY:HA3	0.732
4	C:248:VAL:C	C:248:VAL:CB	0.732
4	C:287:VAL:HG12	C:288:ILE:H	0.732
4	C:307:LYS:C	F:47:GLU:HB2	0.732

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:260:ASP:N	C:310:ASP:HB3	0.732
4	C:343:ASP:HA	C:346:LEU:CD2	0.732
4	D:61:MET:HB2	D:70:LEU:HD21	0.732
4	D:289:TYR:CE1	D:293:ASN:HB3	0.732
4	F:99:ARG:HB3	F:118:TYR:CD1	0.732
4	C:61:ARG:HB3	C:212:PHE:HB2	0.731
4	C:316:ALA:HB3	C:317:ARG:NH1	0.731
4	D:286:LEU:HD22	D:296:VAL:HG13	0.731
4	F:28:PHE:CE2	F:29:THR:HG22	0.731
4	F:35:MET:HG3	F:80:LEU:HD23	0.731
4	A:355:THR:HG23	A:356:LEU:CD2	0.730
4	A:361:LEU:HD22	A:362:PHE:N	0.730
4	C:247:VAL:HG12	C:292:ASN:N	0.730
4	C:248:VAL:HA	C:297:LEU:CD2	0.730
4	C:257:ILE:HG13	F:43:GLY:HA3	0.730
4	C:341:ILE:HA	C:344:GLU:HG2	0.730
4	A:117:GLN:HG3	A:358:PHE:CE2	0.729
4	A:357:ARG:HB3	A:360:LYS:CE	0.729
4	C:55:THR:HB	C:91:LYS:C	0.729
4	C:66:ASN:HB2	C:200:CYS:SG	0.729
4	D:139:LEU:HD13	D:169:TRP:CB	0.729
4	C:307:LYS:HA	C:307:LYS:N	0.729
4	C:59:GLN:CG	C:184:VAL:HG22	0.728

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:281:TRP:HA	C:345:PHE:CZ	0.728
4	D:68:ARG:HG3	E:58:GLU:N	0.728
4	C:60:MET:HE2	C:210:THR:HG21	0.727
4	D:225:HIS:CE1	D:249:THR:HB	0.727
4	A:143:LEU:CD1	A:158:LEU:HB3	0.726
4	C:230:GLU:HA	F:109:PHE:CE2	0.726
4	A:152:THR:HA	A:155:TYR:HD1	0.725
4	C:113:LEU:CD1	C:116:PRO:HA	0.725
4	C:154:TRP:CZ3	C:179:LEU:HD13	0.725
4	C:244:ILE:HG13	C:287:VAL:HG23	0.725
4	C:251:SER:HB3	C:302:LEU:HB2	0.725
4	C:273:PHE:CZ	C:276:ILE:HG21	0.725
4	F:61:TYR:HB2	F:69:PHE:HE1	0.725
4	C:84:SER:N	C:91:LYS:HD3	0.724
4	C:99:LEU:HD23	C:178:PHE:HD2	0.724
4	C:155:GLU:HB2	C:365:CYS:HB3	0.724
4	C:224:VAL:HB	C:293:LYS:NZ	0.724
4	C:247:VAL:CG2	C:293:LYS:H	0.724
4	C:54:ASN:CB	C:207:ILE:HG13	0.723
4	C:58:LYS:HG2	C:207:ILE:CG1	0.723
4	C:86:GLY:HA2	C:91:LYS:HE2	0.723
4	C:246:PHE:HD2	C:289:LEU:HD22	0.723
4	D:241:PHE:HD1	D:255:LEU:HD21	0.723

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	F:3:VAL:HG11	F:118:TYR:CE2	0.723
4	C:82:SER:H	C:88:LYS:N	0.723
4	A:78:TYR:H	A:99:ASP:HB3	0.722
4	A:249:ILE:HD12	A:253:VAL:CG2	0.722
4	A:309:VAL:HG13	A:312:LEU:HD12	0.722
4	A:253:VAL:HB	A:254:PRO:HD3	0.721
4	C:41:HIS:CE1	C:379:CYS:HB2	0.721
4	C:52:GLY:C	C:91:LYS:HZ3	0.720
4	C:75:GLU:HB3	C:252:SER:CB	0.720
4	C:177:TYR:CE2	C:181:LYS:HB2	0.720
4	C:248:VAL:N	C:293:LYS:N	0.720
4	A:76:HIS:H	A:102:GLU:HG2	0.719
4	A:242:ILE:HD12	A:243:PHE:N	0.719
4	A:260:PRO:HA	A:263:ILE:HG22	0.719
4	A:411:LYS:HE2	C:352:SER:N	0.719
4	C:143:PRO:HB2	C:194:ASP:CB	0.719
4	C:236:GLN:HG2	D:314:ARG:HH11	0.719
4	C:251:SER:CB	C:302:LEU:HB2	0.719
4	C:260:ASP:CA	C:307:LYS:HB2	0.719
4	C:344:GLU:HG3	C:345:PHE:N	0.719
4	D:99:TRP:NE1	D:101:MET:HB2	0.719
4	D:292:PHE:HE2	D:331:SER:HB3	0.719
4	A:228:LEU:HD22	C:387:HIS:CE1	0.718

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:117:VAL:HB	C:162:CYS:SG	0.718
4	C:153:LEU:HG	C:159:VAL:HG21	0.718
4	C:224:VAL:HB	C:293:LYS:CE	0.718
4	C:270:LEU:HD22	C:283:ARG:NH2	0.718
4	C:296:LEU:HA	C:298:ALA:H	0.718
4	C:299:GLU:HB3	F:111:VAL:HG23	0.718
4	A:117:GLN:HG3	A:358:PHE:HE2	0.717
4	D:152:LEU:HD22	D:196:THR:CB	0.717
4	C:46:LEU:CD2	C:293:LYS:HG2	0.716
4	C:61:ARG:HD2	C:212:PHE:CD2	0.716
4	C:41:HIS:HE1	C:379:CYS:HB2	0.716
4	D:249:THR:HG22	D:251:ARG:HG3	0.716
4	D:289:TYR:HE2	D:295:ASN:HB2	0.716
4	A:72:VAL:HG21	A:106:SER:CB	0.715
4	C:68:PHE:HB3	C:199:ARG:CB	0.715
4	C:87:GLU:HG2	C:88:LYS:N	0.715
4	C:224:VAL:HG11	C:295:ASP:CG	0.715
4	C:262:GLN:CB	F:63:GLY:HA3	0.715
4	C:341:ILE:HA	C:344:GLU:OE2	0.715
4	A:139:ALA:O	A:142:ILE:HB	0.714
4	C:57:VAL:HG13	C:177:TYR:CZ	0.714
4	C:155:GLU:HB2	C:365:CYS:CA	0.714
4	C:177:TYR:CZ	C:181:LYS:HB2	0.714

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:235:PHE:CG	D:236:PRO:HD2	0.714
4	D:33:ILE:HG12	D:34:THR:H	0.713
4	A:260:PRO:HA	A:263:ILE:CG2	0.712
4	C:60:MET:SD	C:189:ASP:HB2	0.712
4	C:247:VAL:HG11	C:292:ASN:HB2	0.712
4	D:293:ASN:ND2	D:307:VAL:HG13	0.712
4	F:35:MET:HE2	F:80:LEU:CD2	0.712
4	C:140:PHE:HB3	C:142:PHE:CE2	0.711
4	C:249:ALA:CA	C:301:VAL:HG22	0.711
4	C:280:LYS:C	C:280:LYS:HE2	0.711
4	C:124:ASN:HA	C:127:ARG:HD2	0.710
4	D:51:LEU:HD21	D:82:TRP:CD1	0.710
4	D:68:ARG:HG3	E:58:GLU:CA	0.710
4	D:73:ALA:HB2	D:79:LEU:HB3	0.710
4	D:226:GLU:HG2	F:28:PHE:CE1	0.710
4	A:169:LEU:HD22	A:173:ILE:HG12	0.709
4	C:1:MET:CG	C:202:VAL:HG11	0.709
4	C:62:ILE:HG22	C:197:LEU:HD13	0.709
4	C:283:ARG:C	C:284:ASP:C	0.709
4	D:58:ILE:HD13	D:336:LEU:CD2	0.709
4	D:152:LEU:HD22	D:196:THR:HB	0.709
4	A:43:PHE:CD1	A:48:CYS:HB2	0.708
4	A:236:VAL:HG13	C:39:ALA:CA	0.707

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:253:VAL:H	A:254:PRO:HD2	0.707
4	A:258:VAL:HG13	A:261:TRP:CD1	0.707
4	C:59:GLN:N	C:223:ASP:HB2	0.707
4	F:65:VAL:HG23	F:69:PHE:CE1	0.707
4	C:83:ASN:H	C:87:GLU:N	0.707
4	A:49:TRP:CZ2	A:58:VAL:HB	0.706
4	C:51:SER:HB3	C:54:ASN:CA	0.706
4	C:73:GLY:N	C:94:ASP:HB2	0.706
4	C:303:ALA:HB2	C:306:SER:H	0.706
4	A:265:LYS:HE3	A:274:TRP:CZ2	0.705
4	A:336:LEU:HD22	A:337:LEU:HD23	0.705
4	C:58:LYS:HB2	C:185:ILE:HB	0.705
4	F:41:ALA:HB1	F:129:SER:CB	0.705
4	C:41:HIS:CD2	C:242:THR:HG23	0.704
4	A:72:VAL:CG2	A:106:SER:HB2	0.703
4	D:325:MET:HB2	E:54:VAL:CG2	0.703
4	C:155:GLU:HA	C:365:CYS:HB3	0.702
4	C:289:LEU:HD12	C:361:PRO:CA	0.702
4	C:295:ASP:C	C:295:ASP:CB	0.702
4	C:342:ARG:HD2	C:361:PRO:CB	0.702
4	C:54:ASN:HD21	C:91:LYS:HB3	0.701
4	C:267:GLN:HG3	C:348:ILE:HG21	0.701
4	C:275:SER:HA	C:279:ASN:CG	0.701

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:296:LEU:HA	C:298:ALA:CB	0.701
4	C:343:ASP:HB2	C:346:LEU:HD21	0.701
4	C:304:GLY:N	F:113:SER:HB3	0.701
4	A:399:LEU:HD21	A:406:ARG:HG3	0.700
4	C:53:LYS:HB3	C:75:GLU:HG2	0.700
4	C:113:LEU:HD13	C:115:PRO:CD	0.700
4	C:305:LYS:C	C:305:LYS:CB	0.700
4	D:49:ARG:HB3	D:338:ILE:HB	0.700
4	D:51:LEU:HD11	D:82:TRP:CZ2	0.700
4	D:64:GLY:HA3	D:69:LEU:HD11	0.700
4	D:71:VAL:CG2	D:81:ILE:HB	0.700
4	D:83:ASP:HB2	E:58:GLU:HB2	0.700
4	C:260:ASP:HB2	C:307:LYS:CG	0.699
4	C:293:LYS:HE3	C:295:ASP:CB	0.699
4	A:219:TYR:CE1	A:222:LEU:HD13	0.698
4	A:222:LEU:HD12	A:293:ALA:CB	0.698
4	A:321:ASP:O	A:325:ARG:HG3	0.698
4	A:358:PHE:HA	A:361:LEU:HD11	0.698
4	C:254:ASN:CB	C:305:LYS:HG3	0.698
4	C:294:GLN:CB	C:297:LEU:HB3	0.698
4	D:39:PRO:HA	D:268:ASN:HB3	0.698
4	A:15:LYS:CG	A:65:TYR:HB2	0.697
4	A:156:ILE:HD11	A:224:GLU:CA	0.697

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:225:GLY:HA2	A:337:LEU:HD11	0.697
4	A:308:VAL:HG12	A:326:LEU:HD11	0.697
4	C:50:GLU:HB3	C:208:PHE:CE2	0.697
4	C:58:LYS:CD	C:185:ILE:HB	0.697
4	C:58:LYS:HZ3	C:92:VAL:HG13	0.697
4	D:313:ASN:CB	D:332:TRP:HB3	0.697
4	A:234:PHE:HZ	A:237:LEU:HB2	0.696
4	C:63:LEU:HB3	C:200:CYS:SG	0.696
4	C:68:PHE:CG	C:199:ARG:HG2	0.696
4	C:170:GLN:C	C:171:LEU:HD23	0.696
4	C:289:LEU:CB	C:361:PRO:HA	0.696
4	C:306:SER:N	F:45:GLY:HA2	0.696
4	F:100:CYS:HB3	F:108:CYS:CB	0.696
4	C:119:LEU:HG	C:124:ASN:HD21	0.695
4	C:271:LYS:HG3	C:283:ARG:CD	0.695
4	D:173:THR:HG23	D:175:GLN:H	0.695
4	D:292:PHE:CE2	D:331:SER:HB3	0.695
4	E:6:THR:HG23	E:8:SER:H	0.695
4	C:155:GLU:CA	C:365:CYS:HB3	0.694
4	C:281:TRP:CD2	C:349:SER:HB2	0.694
4	C:345:PHE:HE1	C:349:SER:HB3	0.694
4	A:72:VAL:HG21	A:106:SER:HB2	0.693
4	C:44:LEU:CD1	C:238:PHE:HB3	0.693

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:71:GLU:CG	C:93:GLN:HG2	0.693
4	C:88:LYS:HG3	C:204:THR:CB	0.693
4	C:394:LEU:N	C:394:LEU:HD13	0.693
4	A:232:LEU:CD2	C:387:HIS:HB3	0.692
4	A:311:LYS:HE3	C:385:ARG:HH11	0.692
4	C:184:VAL:HG12	C:223:ASP:HB2	0.692
4	C:295:ASP:O	C:298:ALA:HB2	0.692
4	D:207:SER:HB2	D:223:THR:HG22	0.692
4	C:229:ASP:OD2	F:112:THR:HA	0.692
4	C:1:MET:HG2	C:2:GLY:N	0.691
4	C:151:LYS:HD3	C:187:GLN:CG	0.691
4	C:229:ASP:HB3	C:302:LEU:CD1	0.691
4	C:245:ILE:HA	C:288:ILE:CG2	0.691
4	C:280:LYS:CE	C:286:SER:HB2	0.691
4	C:294:GLN:NE2	C:296:LEU:HB2	0.690
4	D:51:LEU:HD11	D:82:TRP:CH2	0.690
4	D:69:LEU:HB2	D:81:ILE:HD11	0.690
4	C:247:VAL:C	C:293:LYS:N	0.689
4	C:270:LEU:HG	C:345:PHE:HA	0.689
4	C:271:LYS:HA	C:283:ARG:CZ	0.689
4	C:298:ALA:CA	C:301:VAL:HB	0.689
4	C:362:HIS:NE2	C:374:ARG:HG3	0.689
4	D:80:ILE:HG21	D:82:TRP:CE2	0.689

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:325:MET:HB3	E:55:PRO:CG	0.689
4	C:47:GLY:HA3	C:244:ILE:HD13	0.688
4	C:59:GLN:CG	C:221:MET:HB3	0.688
4	C:270:LEU:HG	C:344:GLU:C	0.688
4	A:399:LEU:HD21	A:406:ARG:CG	0.687
4	C:46:LEU:HD13	C:293:LYS:CE	0.687
4	C:73:GLY:CA	C:94:ASP:HA	0.687
4	C:82:SER:HA	C:91:LYS:NZ	0.687
4	C:267:GLN:HB2	C:283:ARG:O	0.687
4	D:57:LYS:HB2	D:332:TRP:CD1	0.687
4	C:306:SER:HA	C:306:SER:N	0.687
4	A:212:TYR:HE2	A:255:LEU:HB2	0.686
4	A:397:TRP:CH2	A:401:HIS:HA	0.686
4	C:73:GLY:HA3	C:97:ASN:CB	0.686
4	C:248:VAL:HG23	C:279:ASN:HB2	0.686
4	A:198:GLN:HE21	A:272:GLY:HA2	0.685
4	A:307:ILE:HD11	C:384:GLN:CG	0.685
4	C:36:VAL:HA	C:39:ALA:HB3	0.685
4	C:184:VAL:HG12	C:223:ASP:CG	0.685
4	C:297:LEU:O	C:301:VAL:HG23	0.685
4	A:245:LEU:O	A:245:LEU:HD22	0.684
4	F:21:LEU:HD22	F:95:TYR:HD2	0.684
4	A:411:LYS:HE2	C:352:SER:CA	0.683

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:57:VAL:HG13	C:177:TYR:CD1	0.683
4	D:292:PHE:CZ	D:315:VAL:HA	0.683
4	D:318:LEU:HD21	D:327:VAL:HG11	0.683
4	C:49:GLY:HA2	C:234:TRP:NE1	0.682
4	D:61:MET:HE1	D:328:ALA:C	0.682
4	A:375:VAL:HG12	A:379:TYR:HE2	0.681
4	C:53:LYS:HG2	D:143:THR:HG22	0.681
4	C:264:ASN:N	C:269:ALA:HB1	0.681
4	D:325:MET:HB2	E:54:VAL:HG21	0.681
4	C:48:ALA:HB1	C:295:ASP:CB	0.680
4	C:55:THR:O	C:58:LYS:HG3	0.680
4	C:50:GLU:OE1	D:117:LEU:HD12	0.680
4	D:190:LEU:HD21	D:199:PHE:CB	0.680
4	D:85:TYR:HE1	E:62:ARG:HA	0.680
4	F:5:LEU:HG	F:120:GLY:CA	0.680
4	F:5:LEU:N	F:5:LEU:HD23	0.680
4	C:71:GLU:C	C:93:GLN:HB3	0.679
4	C:248:VAL:HB	C:279:ASN:CA	0.679
4	F:12:LEU:HB3	F:126:THR:CB	0.679
4	F:47:GLU:HG2	F:48:TRP:H	0.679
4	C:75:GLU:HA	C:84:SER:O	0.678
4	C:231:ARG:HD2	C:235:ILE:HB	0.678
4	C:234:TRP:CG	D:117:LEU:HD11	0.678

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:267:GLN:HG3	C:348:ILE:CG2	0.678
4	C:245:ILE:CA	C:288:ILE:HG23	0.678
4	C:248:VAL:N	C:292:ASN:C	0.678
4	C:296:LEU:HD11	F:109:PHE:CD2	0.678
4	C:87:GLU:CG	D:140:ALA:HB3	0.678
4	C:56:ILE:HB	C:98:ASN:OD1	0.677
4	C:144:PRO:HD2	C:194:ASP:CB	0.677
4	C:282:LEU:HD11	C:394:LEU:CD2	0.677
4	C:307:LYS:CB	F:47:GLU:HG3	0.677
4	D:39:PRO:HA	D:268:ASN:CB	0.677
4	D:167:ALA:HB1	D:176:GLN:HG3	0.677
4	F:20:ARG:NE	F:83:GLN:HG3	0.677
4	C:59:GLN:CA	C:184:VAL:HG13	0.676
4	F:35:MET:C	F:35:MET:HE3	0.676
4	C:296:LEU:C	C:296:LEU:N	0.676
4	A:153:ARG:HA	A:156:ILE:HG22	0.675
4	D:33:ILE:HD11	F:55:SER:HB3	0.675
4	D:79:LEU:HD23	D:95:LEU:CD2	0.675
4	F:3:VAL:HG11	F:118:TYR:CZ	0.675
4	C:62:ILE:HG22	C:197:LEU:CD1	0.674
4	C:249:ALA:HA	C:301:VAL:CA	0.674
4	C:291:LEU:HD12	C:363:PHE:CD1	0.674
4	A:68:TRP:CZ2	A:105:GLU:HG3	0.673

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:238:PHE:HB2	C:241:VAL:CG2	0.673
4	C:270:LEU:CG	C:345:PHE:HA	0.673
4	C:270:LEU:HG	C:344:GLU:O	0.673
4	A:143:LEU:HD22	A:144:LEU:H	0.672
4	C:58:LYS:HD3	C:185:ILE:CG2	0.672
4	C:235:ILE:HG13	C:238:PHE:CE1	0.672
4	C:290:PHE:CZ	C:364:THR:HG21	0.672
4	D:211:TRP:HE3	D:218:CYS:HB3	0.672
4	E:13:ARG:O	E:16:VAL:HG22	0.672
4	C:273:PHE:CD1	C:341:ILE:HG22	0.671
4	C:273:PHE:CE2	C:276:ILE:HG21	0.671
4	C:292:ASN:C	C:292:ASN:CB	0.671
4	C:296:LEU:HD21	F:109:PHE:CE1	0.671
4	C:296:LEU:N	C:298:ALA:HB2	0.671
4	C:306:SER:C	C:306:SER:CB	0.671
4	D:6:GLN:HA	D:6:GLN:HE21	0.671
4	D:171:ILE:HG13	D:172:GLU:N	0.671
4	D:235:PHE:CD1	D:236:PRO:HD2	0.671
4	A:115:GLU:HG2	A:119:LEU:CD1	0.670
4	A:221:LEU:C	A:221:LEU:HD23	0.670
4	A:198:GLN:NE2	A:272:GLY:HA2	0.670
4	A:284:LEU:O	A:284:LEU:HD13	0.670
4	A:308:VAL:CG1	A:326:LEU:HD11	0.670

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:343:ILE:HG23	A:344:PHE:N	0.670
4	C:184:VAL:CG1	C:223:ASP:HB2	0.670
4	C:272:LEU:HD23	C:307:LYS:HG2	0.670
4	A:89:GLN:HG2	A:96:PRO:HG3	0.669
4	C:55:THR:C	C:95:ILE:HB	0.669
4	C:177:TYR:CE1	C:293:LYS:HD3	0.669
4	C:270:LEU:HD23	C:344:GLU:HG3	0.669
4	A:15:LYS:HG3	A:65:TYR:HB2	0.668
4	A:153:ARG:HA	A:156:ILE:CG2	0.668
4	A:335:PRO:HG3	A:367:PHE:CZ	0.668
4	C:49:GLY:C	C:224:VAL:HA	0.668
4	C:53:LYS:CE	D:143:THR:HB	0.668
4	C:285:THR:HG23	C:286:SER:H	0.668
4	C:287:VAL:HG12	C:288:ILE:N	0.668
4	C:273:PHE:HD1	C:341:ILE:HG22	0.668
4	D:241:PHE:O	D:252:LEU:HD22	0.668
4	D:283:ARG:HB2	E:41:CYS:SG	0.668
4	A:228:LEU:HD22	C:387:HIS:NE2	0.667
4	C:73:GLY:HA3	C:97:ASN:HB3	0.667
4	C:208:PHE:HB2	C:223:ASP:N	0.667
4	C:293:LYS:HD2	C:295:ASP:HA	0.667
4	C:294:GLN:HB3	C:297:LEU:HB3	0.667
4	D:184:THR:HG23	F:115:THR:CG2	0.667

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:55:THR:O	C:95:ILE:HD13	0.666
4	C:248:VAL:HB	C:279:ASN:HB2	0.666
4	C:277:TRP:CB	C:341:ILE:HG21	0.666
4	C:346:LEU:CD1	C:347:ARG:HG3	0.666
4	C:246:PHE:O	C:247:VAL:HG13	0.665
4	C:270:LEU:HD12	C:348:ILE:CB	0.665
4	C:42:ARG:HH22	D:76:ASP:HA	0.665
4	D:142:HIS:ND1	D:161:SER:HB3	0.665
4	F:40:GLN:HG2	F:41:ALA:H	0.665
4	F:71:ILE:HD11	F:80:LEU:CD2	0.665
4	A:181:MET:HE3	A:182:TYR:HE2	0.664
4	A:311:LYS:HD2	C:385:ARG:HB2	0.664
4	C:246:PHE:CD2	C:289:LEU:HD22	0.664
4	A:395:GLU:HG3	A:411:LYS:CD	0.663
4	C:295:ASP:HA	C:301:VAL:HG11	0.663
4	C:391:TYR:C	C:391:TYR:CB	0.663
4	D:152:LEU:CD2	D:196:THR:HB	0.663
4	E:54:VAL:CB	E:55:PRO:HD2	0.663
4	F:88:LYS:CG	F:89:PRO:HD2	0.663
4	A:236:VAL:CG1	A:237:LEU:HD22	0.662
4	C:128:VAL:CG2	C:153:LEU:HD13	0.662
4	C:248:VAL:HG13	C:292:ASN:O	0.662
4	D:150:ARG:NH2	D:158:VAL:HG21	0.662

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	E:57:SER:HB3	E:59:ASN:O	0.662
4	F:30:PHE:CE2	F:73:ARG:HD2	0.662
4	D:69:LEU:HD13	D:81:ILE:HD11	0.661
4	C:87:GLU:HA	D:140:ALA:CB	0.660
4	C:55:THR:H	C:91:LYS:HG2	0.660
4	C:181:LYS:CE	C:181:LYS:HA	0.660
4	C:195:GLN:HA	C:198:LEU:CD1	0.660
4	C:390:GLN:HA	C:390:GLN:NE2	0.660
4	D:68:ARG:HG3	E:58:GLU:HA	0.660
4	D:162:GLY:HA2	D:186:ASP:OD2	0.659
4	A:155:TYR:O	A:158:LEU:HG	0.658
4	A:308:VAL:HG12	A:312:LEU:CD2	0.658
4	B:24:ALA:HB1	B:28:LYS:HE2	0.658
4	C:84:SER:OG	C:91:LYS:HD2	0.658
4	C:393:LEU:HB3	C:394:LEU:HD13	0.658
4	A:413:LEU:HG	A:413:LEU:O	0.657
4	C:364:THR:HG23	C:365:CYS:N	0.657
4	D:280:LYS:HB2	D:324:GLY:HA3	0.657
4	D:297:TRP:HZ2	D:302:ALA:HB1	0.657
4	F:33:TYR:CG	F:99:ARG:HG3	0.657
4	C:36:VAL:O	C:39:ALA:HB3	0.656
4	C:45:LEU:HD12	C:245:ILE:CG2	0.656
4	C:99:LEU:HG	C:178:PHE:HE2	0.656

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:248:VAL:CG2	C:279:ASN:HB2	0.656
4	A:178:LEU:HD22	B:14:LEU:HD22	0.655
4	A:388:LEU:HA	A:391:ARG:HD3	0.655
4	C:168:GLU:HA	C:168:GLU:OE2	0.655
4	C:57:VAL:CG1	C:225:GLY:HA2	0.655
4	C:270:LEU:CD1	C:345:PHE:HA	0.655
4	C:277:TRP:CB	C:341:ILE:HD13	0.655
4	C:282:LEU:HA	C:285:THR:CA	0.655
4	C:296:LEU:CA	C:298:ALA:N	0.655
4	D:90:VAL:HG12	D:91:HIS:N	0.655
4	B:24:ALA:HB1	B:28:LYS:CE	0.654
4	C:58:LYS:O	C:184:VAL:HG12	0.654
4	C:185:ILE:O	C:186:LYS:HG3	0.654
4	D:105:TYR:CZ	D:109:GLY:HA2	0.654
4	F:88:LYS:CD	F:89:PRO:HD2	0.654
4	C:50:GLU:HB2	D:117:LEU:CB	0.653
4	C:51:SER:CB	C:54:ASN:HB2	0.653
4	C:154:TRP:CE3	C:179:LEU:HD13	0.653
4	C:280:LYS:HD2	C:294:GLN:HG2	0.653
4	C:187:GLN:HE21	C:368:ASP:HB3	0.653
4	D:119:ASN:HD21	D:142:HIS:HB3	0.653
4	D:204:CYS:HA	D:228:ASP:OD1	0.653
4	D:254:ASP:CG	D:257:ALA:HB3	0.653

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:270:ILE:N	D:270:ILE:HD13	0.653
4	F:35:MET:CG	F:80:LEU:HD23	0.653
4	F:126:THR:HG23	F:127:VAL:N	0.653
4	C:46:LEU:HD22	C:293:LYS:HB3	0.652
4	C:57:VAL:HB	C:225:GLY:HA2	0.652
4	C:231:ARG:HD2	C:235:ILE:CG1	0.652
4	C:260:ASP:HB2	C:307:LYS:HB2	0.652
4	F:52:ILE:HD12	F:59:ILE:H	0.652
4	A:148:HIS:CG	D:312:ASP:HB2	0.651
4	C:44:LEU:CD1	C:47:GLY:HA2	0.651
4	A:322:ILE:HG13	A:325:ARG:NH2	0.650
4	C:46:LEU:CG	C:293:LYS:HG2	0.650
4	C:88:LYS:CG	C:204:THR:HG21	0.650
4	D:319:GLY:O	D:327:VAL:HG13	0.650
4	F:41:ALA:HA	F:93:ALA:CB	0.650
4	D:99:TRP:HD1	D:117:LEU:H	0.650
4	C:106:ILE:HD12	C:159:VAL:CG1	0.649
4	C:280:LYS:HG2	C:294:GLN:CA	0.649
4	C:308:ILE:HB	F:62:THR:HG21	0.649
4	D:51:LEU:HD21	D:82:TRP:CE2	0.649
4	D:91:HIS:NE2	D:126:LEU:HD13	0.649
4	F:82:LEU:C	F:82:LEU:HD23	0.649
4	A:84:GLU:HG2	A:86:LEU:HD21	0.648

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:133:PHE:CE2	A:165:ILE:HD11	0.648
4	A:288:LEU:HG	A:292:PHE:CZ	0.648
4	C:83:ASN:N	C:87:GLU:HB3	0.648
4	C:72:GLY:O	C:97:ASN:HB2	0.648
4	D:19:ARG:HD3	D:19:ARG:O	0.648
4	F:52:ILE:HG23	F:73:ARG:HH21	0.648
4	A:12:THR:HB	A:65:TYR:CE1	0.647
4	C:62:ILE:HG13	C:212:PHE:CE1	0.647
4	C:95:ILE:HG23	C:96:LYS:N	0.647
4	C:110:MET:HG2	C:117:VAL:HB	0.647
4	C:48:ALA:CB	C:224:VAL:HG21	0.647
4	C:249:ALA:N	C:301:VAL:HG22	0.647
4	C:308:ILE:HG21	F:62:THR:HG23	0.647
4	A:43:PHE:HD1	A:48:CYS:HB2	0.646
4	C:32:LYS:HD2	C:36:VAL:CG2	0.646
4	D:120:ILE:CD1	D:138:GLU:HB2	0.646
4	D:225:HIS:HB2	D:251:ARG:HH21	0.646
4	A:178:LEU:CD2	B:14:LEU:HD22	0.645
4	C:248:VAL:HG12	C:292:ASN:HA	0.645
4	C:271:LYS:HB2	C:283:ARG:HG3	0.645
4	C:272:LEU:H	C:272:LEU:HD12	0.645
4	C:308:ILE:HD13	F:49:VAL:CG1	0.645
4	A:253:VAL:HB	A:254:PRO:CD	0.644

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:54:ASN:CG	C:91:LYS:HB3	0.644
4	C:99:LEU:HD21	C:182:ILE:CD1	0.644
4	C:294:GLN:C	C:295:ASP:C	0.644
4	F:69:PHE:CD2	F:82:LEU:HD12	0.644
4	A:43:PHE:CE2	A:45:GLU:HA	0.643
4	A:57:PHE:HB3	A:78:TYR:CE1	0.643
4	A:136:LEU:CD2	A:165:ILE:HB	0.643
4	A:355:THR:CG2	A:356:LEU:HD22	0.643
4	C:44:LEU:CD2	C:222:PHE:HB2	0.643
4	C:45:LEU:HD23	C:181:LYS:CD	0.643
4	C:49:GLY:H	C:224:VAL:HG22	0.643
4	C:282:LEU:CD1	C:394:LEU:HD22	0.643
4	C:394:LEU:O	C:394:LEU:HD22	0.643
4	C:53:LYS:C	C:226:ALA:HB3	0.642
4	C:295:ASP:C	C:298:ALA:HB2	0.642
4	D:288:GLY:HA2	D:294:CYS:HB2	0.642
4	F:37:TRP:CH2	F:82:LEU:HD22	0.642
4	F:102:ALA:HB3	F:105:THR:HG21	0.642
4	A:160:LEU:C	A:160:LEU:HD23	0.641
4	A:290:ILE:CG1	A:291:LEU:HD12	0.641
4	C:58:LYS:HB2	C:185:ILE:CG2	0.641
4	C:62:ILE:CG1	C:190:TYR:HB2	0.641
4	C:62:ILE:HG13	C:212:PHE:HE1	0.641

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:250:SER:CB	C:302:LEU:HD12	0.641
4	C:265:ARG:O	C:266:LEU:HD22	0.641
4	C:281:TRP:CZ2	C:349:SER:HB2	0.641
4	D:123:ILE:HG23	D:137:ARG:O	0.641
4	F:44:LYS:HG3	F:45:GLY:H	0.641
4	C:51:SER:HB2	C:54:ASN:HB2	0.640
4	C:191:VAL:CG2	C:192:PRO:HD2	0.640
4	C:315:PHE:HZ	C:336:ARG:HB3	0.640
4	A:142:ILE:HG23	D:310:GLY:H	0.639
4	A:228:LEU:O	A:229:TYR:HB3	0.639
4	A:381:PHE:CZ	D:37:ILE:HG13	0.639
4	C:178:PHE:HZ	C:185:ILE:HG23	0.639
4	C:254:ASN:HB3	C:305:LYS:HG3	0.639
4	C:289:LEU:HB2	C:361:PRO:CA	0.639
4	C:270:LEU:CD1	C:348:ILE:HB	0.639
4	D:15:LYS:HD3	F:1:MET:N	0.639
4	F:21:LEU:HB3	F:37:TRP:CH2	0.639
4	C:82:SER:H	C:88:LYS:H	0.639
4	A:253:VAL:N	A:254:PRO:HD2	0.638
4	C:74:GLU:C	C:84:SER:HB3	0.638
4	C:231:ARG:NH1	C:235:ILE:HG21	0.638
4	C:276:ILE:HG23	C:277:TRP:N	0.638
4	D:85:TYR:CE1	E:62:ARG:HA	0.638

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:252:LEU:HD12	D:261:LEU:HB3	0.638
4	F:40:GLN:HG3	F:44:LYS:NZ	0.638
4	A:265:LYS:HE3	A:274:TRP:CE2	0.637
4	C:83:ASN:HB2	C:87:GLU:HB2	0.637
4	C:249:ALA:HB2	C:300:LYS:NZ	0.637
4	C:261:ASN:CG	C:276:ILE:HB	0.637
4	C:270:LEU:HD21	C:345:PHE:CA	0.637
4	C:303:ALA:HB3	C:305:LYS:H	0.637
4	D:51:LEU:HD21	D:82:TRP:NE1	0.637
4	D:71:VAL:HG22	D:81:ILE:CB	0.637
4	F:21:LEU:HD22	F:95:TYR:CE2	0.637
4	C:208:PHE:HB2	C:223:ASP:CA	0.636
4	C:307:LYS:HB3	F:47:GLU:HG3	0.636
4	D:80:ILE:CD1	D:92:ALA:HB2	0.636
4	D:102:THR:HG21	D:148:CYS:HA	0.636
4	D:166:CYS:HB3	D:180:PHE:CB	0.636
4	A:10:TRP:O	A:13:VAL:HG22	0.635
4	A:138:ILE:HG21	D:42:ARG:CG	0.635
4	A:300:ILE:O	A:304:VAL:HG23	0.635
4	C:214:VAL:HG12	C:219:PHE:CE1	0.635
4	C:231:ARG:CZ	C:232:ARG:HG3	0.635
4	C:279:ASN:HB3	C:297:LEU:CD1	0.635
4	D:192:LEU:N	D:192:LEU:HD23	0.635

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:58:ILE:CD1	D:336:LEU:HD21	0.635
4	F:88:LYS:HG3	F:89:PRO:HD2	0.635
4	A:53:GLU:HB3	A:54:PRO:HD2	0.634
4	A:143:LEU:HD23	A:147:ARG:N	0.634
4	C:57:VAL:HG13	C:177:TYR:CE2	0.634
4	C:96:LYS:C	C:96:LYS:HD2	0.634
4	C:153:LEU:CD1	C:159:VAL:HG21	0.634
4	C:234:TRP:HB2	D:117:LEU:HD11	0.634
4	C:297:LEU:O	C:300:LYS:HB3	0.634
4	C:388:LEU:O	C:388:LEU:HD13	0.634
4	A:181:MET:HG3	A:194:LEU:HD23	0.633
4	C:259:GLU:C	C:310:ASP:HB3	0.633
4	D:15:LYS:HD3	F:1:MET:HA	0.633
4	A:71:SER:OG	A:108:ARG:HG3	0.632
4	A:352:ALA:O	A:353:ARG:HG2	0.632
4	A:391:ARG:O	A:395:GLU:HG2	0.632
4	C:34:LYS:HA	D:55:LEU:CD1	0.632
4	C:88:LYS:HG3	C:204:THR:HB	0.632
4	C:363:PHE:HE2	C:366:ALA:HB2	0.632
4	D:15:LYS:HD3	F:1:MET:CA	0.632
4	D:77:GLY:O	D:95:LEU:HB2	0.632
4	D:273:ILE:HG12	D:288:GLY:O	0.632
4	E:54:VAL:CG2	E:55:PRO:HD2	0.632

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:395:GLU:HA	A:395:GLU:OE2	0.631
4	C:244:ILE:HD11	C:287:VAL:N	0.631
4	C:248:VAL:HG22	C:249:ALA:N	0.631
4	D:286:LEU:HD22	D:296:VAL:HG22	0.631
4	A:236:VAL:HG12	A:237:LEU:CD2	0.630
4	C:32:LYS:HD2	C:36:VAL:HG23	0.630
4	C:84:SER:H	C:91:LYS:CD	0.630
4	E:3:SER:CB	E:6:THR:HB	0.630
4	F:84:MET:HG2	F:87:LEU:HD11	0.630
4	A:169:LEU:O	A:169:LEU:HD22	0.629
4	A:412:PRO:HA	F:58:SER:HB3	0.629
4	C:46:LEU:HB2	C:48:ALA:CB	0.629
4	C:75:GLU:CD	C:252:SER:HA	0.629
4	C:155:GLU:HG2	C:156:ASP:N	0.629
4	C:212:PHE:HE2	C:214:VAL:HB	0.629
4	D:6:GLN:HA	D:6:GLN:NE2	0.629
4	D:15:LYS:HD3	F:1:MET:H2	0.629
4	C:48:ALA:HB1	C:295:ASP:HB2	0.628
4	C:53:LYS:CA	C:91:LYS:HD2	0.628
4	C:56:ILE:O	C:56:ILE:HD13	0.628
4	C:281:TRP:HB2	C:345:PHE:CZ	0.628
4	D:95:LEU:HD13	D:100:VAL:HG12	0.628
4	C:11:ASP:O	C:15:GLU:HG3	0.627

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:54:ASN:CG	C:91:LYS:HG2	0.627
4	C:55:THR:H	C:91:LYS:CG	0.627
4	C:203:LEU:N	C:203:LEU:HD12	0.627
4	C:247:VAL:HG11	C:290:PHE:CD2	0.627
4	F:61:TYR:HB2	F:69:PHE:CE1	0.627
4	A:143:LEU:HD23	A:146:PHE:C	0.626
4	C:37:TYR:O	C:40:THR:HG22	0.626
4	C:233:LYS:CD	D:188:MET:HE2	0.626
4	C:249:ALA:C	C:249:ALA:CB	0.626
4	C:343:ASP:HA	C:346:LEU:HG	0.626
4	D:304:ARG:HD3	D:304:ARG:O	0.626
4	F:42:PRO:HD3	F:93:ALA:HB2	0.626
4	A:182:TYR:HB2	B:14:LEU:CG	0.625
4	C:113:LEU:HD21	C:117:VAL:HG23	0.625
4	C:206:GLY:HA3	C:208:PHE:CE2	0.625
4	C:209:GLU:HG3	C:220:HIS:NE2	0.625
4	C:244:ILE:O	C:244:ILE:HD12	0.625
4	C:248:VAL:HG12	C:292:ASN:CA	0.625
4	C:280:LYS:HA	C:283:ARG:CZ	0.625
4	C:299:GLU:O	C:303:ALA:HA	0.625
4	A:57:PHE:HB3	A:78:TYR:HE1	0.624
4	A:357:ARG:CB	A:360:LYS:HE3	0.624
4	C:83:ASN:CG	C:85:ASP:HB3	0.624

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:185:ILE:C	C:185:ILE:HD13	0.624
4	A:322:ILE:HA	A:325:ARG:NH2	0.623
4	C:36:VAL:HA	C:39:ALA:CB	0.623
4	C:46:LEU:HA	C:48:ALA:CB	0.623
4	C:49:GLY:N	C:224:VAL:HG22	0.623
4	C:272:LEU:HA	C:307:LYS:HE2	0.623
4	D:273:ILE:C	D:273:ILE:HD13	0.623
4	F:70:THR:OG1	F:83:GLN:HB3	0.623
4	A:194:LEU:O	A:194:LEU:HD22	0.622
4	C:155:GLU:HG3	C:365:CYS:O	0.622
4	C:294:GLN:HB3	C:296:LEU:O	0.622
4	D:1:MET:HG2	D:2:SER:N	0.622
4	D:51:LEU:C	D:51:LEU:HD13	0.622
4	D:107:PRO:HD2	D:151:PHE:CE2	0.622
4	A:304:VAL:O	A:307:ILE:HG22	0.621
4	A:311:LYS:HD3	A:311:LYS:O	0.621
4	C:166:SER:OG	C:171:LEU:HD11	0.621
4	C:275:SER:HA	C:279:ASN:OD1	0.621
4	C:248:VAL:N	C:279:ASN:HA	0.621
4	D:18:ILE:HG13	D:22:ARG:NH2	0.621
4	A:23:CYS:HG	A:43:PHE:HE1	0.621
4	A:86:LEU:N	A:86:LEU:HD23	0.620
4	A:236:VAL:HA	C:39:ALA:CA	0.620

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:277:ASN:OD1	A:283:TRP:HB2	0.620
4	C:46:LEU:CD1	C:224:VAL:HG23	0.620
4	C:250:SER:CB	C:302:LEU:HB3	0.620
4	D:4:LEU:HD11	E:9:ILE:HG13	0.620
4	D:298:ASP:OD1	D:303:ASP:HB3	0.620
4	D:304:ARG:HH21	D:307:VAL:HG23	0.620
4	A:153:ARG:O	A:156:ILE:HG23	0.619
4	C:43:LEU:HD23	C:243:ALA:O	0.619
4	C:181:LYS:CD	C:184:VAL:HB	0.619
4	D:235:PHE:HB3	D:240:ALA:HB3	0.619
4	D:320:VAL:HG22	D:327:VAL:CG2	0.619
4	E:53:PRO:HG3	E:65:LYS:HA	0.619
4	F:44:LYS:HG3	F:45:GLY:N	0.619
4	A:143:LEU:HG	A:147:ARG:CG	0.618
4	C:270:LEU:O	C:270:LEU:HD22	0.618
4	C:61:ARG:HH22	C:370:GLU:HB2	0.618
4	D:222:PHE:HZ	D:260:GLU:HB3	0.618
4	A:367:PHE:O	A:371:GLN:HG3	0.617
4	C:49:GLY:HA3	C:227:GLN:NE2	0.617
4	C:174:CYS:HB3	C:251:SER:O	0.617
4	C:224:VAL:HG11	C:295:ASP:OD2	0.617
4	D:235:PHE:CB	D:240:ALA:HB3	0.617
4	F:10:GLY:HA2	F:19:LEU:CD1	0.617

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:177:TYR:CG	C:250:SER:HA	0.616
4	C:274:ASP:HB2	C:344:GLU:OE2	0.616
4	C:353:GLY:HA2	C:356:ARG:NH1	0.616
4	D:239:ASN:HA	D:255:LEU:HD12	0.616
4	E:54:VAL:HB	E:55:PRO:CD	0.616
4	F:19:LEU:HD22	F:20:ARG:H	0.616
4	A:115:GLU:HG2	A:119:LEU:HD11	0.615
4	C:82:SER:CB	C:91:LYS:H	0.615
4	C:181:LYS:HA	C:181:LYS:HE2	0.615
4	C:278:ASN:CB	C:291:LEU:HB3	0.615
4	F:12:LEU:CB	F:126:THR:HG21	0.615
4	A:133:PHE:CZ	A:165:ILE:HD11	0.614
4	A:312:LEU:HD13	A:325:ARG:NH2	0.614
4	D:90:VAL:HG12	D:91:HIS:H	0.614
4	D:99:TRP:CD1	D:117:LEU:HG	0.614
4	C:83:ASN:H	C:87:GLU:HB3	0.613
4	C:71:GLU:CA	C:93:GLN:HB3	0.613
4	C:183:ASP:OD1	C:188:ALA:HB3	0.613
4	C:248:VAL:C	C:293:LYS:HA	0.613
4	C:262:GLN:HB2	F:62:THR:O	0.613
4	C:307:LYS:C	C:307:LYS:CB	0.613
4	D:223:THR:CB	F:2:GLN:HB3	0.612
4	D:188:MET:SD	D:230:ASN:HA	0.612

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:289:TYR:CE2	D:295:ASN:HB2	0.612
4	D:292:PHE:HB3	D:311:HIS:O	0.612
4	E:48:ASP:HB3	E:50:LEU:O	0.612
4	F:71:ILE:HD13	F:72:SER:O	0.612
4	A:146:PHE:HB2	D:335:PHE:CD2	0.611
4	A:153:ARG:HG2	A:157:HIS:NE2	0.611
4	A:236:VAL:HA	C:38:ARG:O	0.611
4	C:103:ILE:CD1	C:153:LEU:HD23	0.611
4	C:208:PHE:HB2	C:223:ASP:H	0.611
4	C:233:LYS:HE3	D:188:MET:HE2	0.611
4	C:271:LYS:HA	C:283:ARG:HD3	0.611
4	C:294:GLN:HB3	C:296:LEU:C	0.611
4	D:79:LEU:CD2	D:95:LEU:HD21	0.611
4	D:99:TRP:CD1	D:117:LEU:H	0.611
4	D:173:THR:HG23	D:174:GLY:N	0.611
4	D:325:MET:HB2	E:55:PRO:HD2	0.611
4	C:50:GLU:C	C:50:GLU:N	0.611
4	C:50:GLU:HB2	D:117:LEU:HB2	0.610
4	C:56:ILE:HD11	C:174:CYS:HB2	0.610
4	C:68:PHE:CB	C:199:ARG:HG2	0.610
4	D:57:LYS:HA	D:332:TRP:O	0.610
4	C:281:TRP:C	C:281:TRP:N	0.610
4	A:86:LEU:HD12	A:89:GLN:NE2	0.609

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:147:ARG:HB2	A:154:ASN:OD1	0.609
4	A:156:ILE:HD11	A:224:GLU:HA	0.609
4	A:167:ARG:HA	A:213:CYS:HB3	0.609
4	A:259:VAL:N	A:260:PRO:HD2	0.609
4	A:258:VAL:CG2	A:286:ILE:HD13	0.609
4	A:332:THR:HG22	A:333:LEU:HD22	0.609
4	C:53:LYS:CA	C:91:LYS:HE2	0.609
4	C:58:LYS:CA	C:58:LYS:O	0.609
4	C:184:VAL:HG12	C:223:ASP:CB	0.609
4	C:266:LEU:O	C:269:ALA:HB3	0.609
4	C:278:ASN:OD1	C:291:LEU:HD13	0.609
4	D:183:HIS:NE2	D:209:LYS:HB3	0.609
4	D:286:LEU:HD22	D:296:VAL:CG1	0.609
4	A:249:ILE:O	A:249:ILE:HG23	0.608
4	C:61:ARG:HB3	C:212:PHE:CB	0.608
4	C:163:TYR:CZ	C:175:ALA:HB3	0.608
4	C:265:ARG:HH21	C:266:LEU:HB2	0.608
4	C:296:LEU:HD11	F:109:PHE:CG	0.608
4	C:309:GLU:HG2	C:310:ASP:N	0.608
4	D:170:ASP:HB3	D:173:THR:CG2	0.608
4	F:46:LEU:HD12	F:111:VAL:HA	0.608
4	A:219:TYR:CE2	A:249:ILE:HG13	0.607
4	C:61:ARG:HG2	C:212:PHE:CD1	0.607

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:86:GLY:HA2	C:91:LYS:CE	0.607
4	C:161:ALA:O	C:164:GLU:HG2	0.607
4	C:261:ASN:HA	C:272:LEU:O	0.607
4	C:379:CYS:HA	C:382:ILE:HG22	0.607
4	F:15:PRO:O	F:87:LEU:HB2	0.607
4	C:89:ALA:O	C:90:THR:HG22	0.606
4	C:293:LYS:HG3	C:295:ASP:N	0.606
4	D:338:ILE:HG23	D:339:TRP:N	0.606
4	A:214:VAL:HG11	B:3:GLU:HG2	0.605
4	C:210:THR:O	C:221:MET:HB2	0.605
4	C:155:GLU:CB	C:365:CYS:HB3	0.605
4	C:388:LEU:C	C:388:LEU:HD13	0.605
4	A:273:CYS:SG	A:275:THR:HG22	0.604
4	A:321:ASP:HB3	A:325:ARG:HG3	0.604
4	C:61:ARG:NH2	C:372:ILE:HB	0.604
4	D:68:ARG:HG2	D:68:ARG:O	0.604
4	D:208:ALA:HB3	D:222:PHE:HB3	0.604
4	C:73:GLY:O	C:74:GLU:HG3	0.603
4	C:202:VAL:HG13	C:203:LEU:H	0.603
4	C:247:VAL:HA	C:292:ASN:H	0.603
4	C:279:ASN:HB3	C:297:LEU:CD2	0.603
4	D:69:LEU:O	D:69:LEU:HD12	0.603
4	D:77:GLY:C	D:95:LEU:HD12	0.603

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	F:91:ASP:O	F:92:THR:HG22	0.603
4	A:287:ARG:O	A:290:ILE:HG12	0.602
4	C:56:ILE:HA	C:95:ILE:CD1	0.602
4	C:56:ILE:HA	C:95:ILE:HD12	0.602
4	C:80:ALA:O	C:83:ASN:HA	0.602
4	C:250:SER:HB3	C:302:LEU:CD1	0.602
4	C:75:GLU:OE2	C:252:SER:HA	0.602
4	C:289:LEU:N	C:289:LEU:HD23	0.602
4	D:232:ILE:HG13	D:243:THR:HB	0.602
4	E:3:SER:HA	F:115:THR:HB	0.602
4	A:239:GLU:HG2	A:240:GLN:N	0.601
4	C:58:LYS:CB	C:185:ILE:HB	0.601
4	C:59:GLN:HB2	C:184:VAL:CG1	0.601
4	C:61:ARG:HG2	C:62:ILE:H	0.601
4	D:273:ILE:HD11	D:276:VAL:HG23	0.601
4	F:103:PRO:HG2	F:104:PHE:H	0.601
4	C:231:ARG:HG3	C:232:ARG:N	0.600
4	D:4:LEU:HD21	E:9:ILE:HG13	0.600
4	D:252:LEU:HD13	D:253:PHE:N	0.600
4	C:48:ALA:HB1	C:295:ASP:CA	0.599
4	C:83:ASN:H	C:87:GLU:CB	0.599
4	C:148:GLU:HA	C:187:GLN:OE1	0.599
4	C:177:TYR:O	C:180:ASP:HB3	0.599

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:252:LEU:C	D:252:LEU:HD13	0.599
4	F:12:LEU:HA	F:126:THR:CB	0.599
4	A:165:ILE:CG2	A:166:LEU:HD12	0.598
4	A:327:ALA:O	A:328:LYS:HG3	0.598
4	A:370:PHE:CE1	A:373:LEU:HD11	0.598
4	B:10:VAL:HG12	B:11:SER:N	0.598
4	C:50:GLU:HG3	C:208:PHE:CZ	0.598
4	C:68:PHE:HB2	C:198:LEU:HD22	0.598
4	C:180:ASP:CG	C:293:LYS:HB3	0.598
4	C:233:LYS:HD2	D:188:MET:HE2	0.598
4	C:272:LEU:O	C:275:SER:HB3	0.598
4	C:48:ALA:O	C:295:ASP:HB3	0.598
4	C:301:VAL:O	C:302:LEU:HD13	0.598
4	D:199:PHE:CZ	D:211:TRP:HB3	0.598
4	D:229:ILE:HG12	D:244:GLY:O	0.598
4	D:234:PHE:HB3	D:241:PHE:CE2	0.598
4	C:304:GLY:H	F:113:SER:CB	0.598
4	A:178:LEU:C	A:178:LEU:HD13	0.597
4	A:304:VAL:O	A:308:VAL:HG23	0.597
4	C:61:ARG:CZ	C:372:ILE:HB	0.597
4	C:74:GLU:O	C:84:SER:HB3	0.597
4	C:152:ALA:HA	C:155:GLU:OE2	0.597
4	C:321:PRO:HG2	C:324:ALA:HB2	0.597

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:99:TRP:CE2	D:101:MET:HB2	0.597
4	D:318:LEU:HD11	D:327:VAL:HG12	0.597
4	A:144:LEU:HA	D:47:THR:CG2	0.596
4	A:225:GLY:HA3	A:337:LEU:HD11	0.596
4	A:322:ILE:HG13	A:325:ARG:HH22	0.596
4	C:244:ILE:C	C:244:ILE:HD12	0.596
4	C:260:ASP:OD2	C:300:LYS:HG2	0.596
4	F:106:ARG:HG2	F:106:ARG:O	0.596
4	A:399:LEU:HG	A:410:MET:CE	0.595
4	C:37:TYR:HB3	D:55:LEU:CD1	0.595
4	C:288:ILE:C	C:288:ILE:HD13	0.595
4	C:290:PHE:CE2	C:364:THR:HG21	0.595
4	C:300:LYS:HD3	C:300:LYS:O	0.595
4	C:318:TYR:CG	C:340:PHE:HD1	0.595
4	D:142:HIS:CE1	D:163:ASP:H	0.595
4	E:13:ARG:HG3	E:16:VAL:CG2	0.595
4	A:143:LEU:CD2	A:147:ARG:HG3	0.594
4	A:202:SER:O	A:205:LEU:HB3	0.594
4	A:309:VAL:O	A:312:LEU:HB2	0.594
4	B:3:GLU:HG3	B:4:GLY:N	0.594
4	C:83:ASN:HB3	C:86:GLY:H	0.594
4	C:99:LEU:HB2	C:178:PHE:CE2	0.594
4	C:233:LYS:CE	D:188:MET:HE2	0.594

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:271:LYS:HA	C:283:ARG:CD	0.594
4	D:61:MET:HE1	D:329:THR:N	0.594
4	E:54:VAL:HG23	E:55:PRO:HD2	0.594
4	F:33:TYR:HB3	F:99:ARG:HE	0.594
4	A:236:VAL:CG1	C:39:ALA:HA	0.593
4	A:307:ILE:HD11	C:384:GLN:HG2	0.593
4	A:334:ILE:CD1	A:339:THR:HB	0.593
4	C:90:THR:O	C:94:ASP:HB3	0.593
4	C:247:VAL:HB	C:292:ASN:CB	0.593
4	C:248:VAL:N	C:293:LYS:HA	0.593
4	C:297:LEU:O	C:297:LEU:HD23	0.593
4	C:372:ILE:HD13	C:375:VAL:HG21	0.593
4	F:61:TYR:CE2	F:66:LYS:HD3	0.593
4	F:88:LYS:O	F:127:VAL:HG11	0.593
4	A:124:ILE:HG21	A:362:PHE:HE1	0.592
4	C:44:LEU:HD13	C:47:GLY:HA2	0.592
4	C:63:LEU:C	C:200:CYS:HB3	0.592
4	C:103:ILE:HG23	C:104:GLU:N	0.592
4	C:248:VAL:HB	C:279:ASN:HA	0.592
4	C:343:ASP:OD1	C:346:LEU:HD11	0.592
4	D:37:ILE:HG12	D:38:ASP:H	0.592
4	D:200:VAL:HG22	D:210:LEU:CD2	0.592
4	D:274:THR:HG21	D:314:ARG:NH2	0.592

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:143:LEU:HD23	A:147:ARG:HG3	0.591
4	A:162:ALA:O	A:165:ILE:HG22	0.591
4	C:46:LEU:HD11	C:223:ASP:OD2	0.591
4	C:271:LYS:HB2	C:283:ARG:CG	0.591
4	D:111:TYR:OH	D:113:ALA:HB2	0.591
4	A:144:LEU:HA	D:47:THR:CB	0.590
4	A:232:LEU:HD13	A:307:ILE:HD13	0.590
4	A:331:LEU:C	A:331:LEU:HD13	0.590
4	C:30:LEU:HD12	C:33:ASP:OD2	0.590
4	C:55:THR:HA	C:207:ILE:HG12	0.590
4	C:58:LYS:C	C:184:VAL:HG12	0.590
4	C:247:VAL:HG12	C:291:LEU:C	0.590
4	C:247:VAL:HG13	C:290:PHE:CB	0.590
4	C:260:ASP:C	C:260:ASP:CB	0.590
4	C:282:LEU:HG	C:285:THR:OG1	0.590
4	D:49:ARG:NH1	D:84:SER:HB3	0.590
4	D:190:LEU:HD21	D:199:PHE:CD1	0.590
4	F:99:ARG:HB2	F:118:TYR:CE1	0.590
4	A:165:ILE:HG23	A:166:LEU:HD12	0.589
4	A:182:TYR:CE1	A:194:LEU:HD21	0.589
4	A:245:LEU:O	A:249:ILE:HG22	0.589
4	C:58:LYS:HB2	C:185:ILE:CB	0.589
4	C:55:THR:O	C:95:ILE:HB	0.589

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:231:ARG:HB2	C:235:ILE:HB	0.589
4	C:268:ALA:HB1	C:271:LYS:HZ2	0.589
4	C:248:VAL:CA	C:297:LEU:HD21	0.589
4	C:306:SER:HB2	F:44:LYS:O	0.589
4	D:62:HIS:CD2	D:105:TYR:HB3	0.589
4	D:80:ILE:CD1	D:89:LYS:HB3	0.589
4	D:285:LEU:CD2	D:299:ALA:HB2	0.589
4	F:80:LEU:HD13	F:81:TYR:O	0.589
4	C:87:GLU:H	C:91:LYS:HZ1	0.589
4	A:265:LYS:HB2	A:274:TRP:CZ2	0.588
4	C:62:ILE:O	C:63:LEU:HG	0.588
4	C:251:SER:HB3	C:302:LEU:CD2	0.588
4	C:277:TRP:CD1	C:341:ILE:HD13	0.588
4	C:289:LEU:HG	C:360:TYR:C	0.588
4	C:306:SER:HB2	F:45:GLY:CA	0.588
4	C:281:TRP:HE3	C:345:PHE:CZ	0.588
4	D:42:ARG:C	D:43:ILE:HD12	0.588
4	D:69:LEU:C	D:69:LEU:HD12	0.588
4	D:292:PHE:CD1	D:311:HIS:HB2	0.588
4	A:181:MET:HE3	A:182:TYR:CE2	0.587
4	A:191:TRP:CE2	A:195:LEU:HD11	0.587
4	A:288:LEU:HD21	A:292:PHE:HZ	0.587
4	C:55:THR:HG23	C:56:ILE:N	0.587

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:52:GLY:O	C:91:LYS:HE2	0.587
4	C:151:LYS:HB3	C:187:GLN:OE1	0.587
4	C:246:PHE:CE2	C:289:LEU:HB3	0.587
4	C:260:ASP:HB2	C:307:LYS:HG3	0.587
4	D:204:CYS:HA	D:228:ASP:CG	0.587
4	A:329:SER:O	A:333:LEU:HD23	0.586
4	C:46:LEU:HB2	C:293:LYS:HG2	0.586
4	C:74:GLU:O	C:75:GLU:HG3	0.586
4	C:180:ASP:O	C:181:LYS:HE2	0.586
4	C:244:ILE:HD12	C:245:ILE:O	0.586
4	C:270:LEU:HA	C:344:GLU:OE1	0.586
4	C:332:PRO:O	C:336:ARG:HG3	0.586
4	C:372:ILE:HD13	C:375:VAL:CG2	0.586
4	D:62:HIS:HD2	D:105:TYR:HB3	0.586
4	D:311:HIS:NE2	D:329:THR:HG21	0.586
4	A:228:LEU:HD13	C:387:HIS:HE1	0.585
4	A:374:MET:O	A:377:ILE:HG12	0.585
4	C:82:SER:O	C:91:LYS:HD3	0.585
4	C:99:LEU:HD13	C:100:LYS:HA	0.585
4	C:249:ALA:HB2	C:300:LYS:HZ2	0.585
4	C:250:SER:HB2	C:301:VAL:CG1	0.585
4	D:63:TRP:NE1	D:67:SER:HA	0.585
4	F:13:VAL:H	F:126:THR:CG2	0.585

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:150:HIS:O	A:151:CYS:HB2	0.584
4	C:99:LEU:C	C:99:LEU:HD13	0.584
4	C:244:ILE:CG1	C:287:VAL:HG23	0.584
4	C:305:LYS:HD2	C:305:LYS:N	0.584
4	D:49:ARG:HB3	D:338:ILE:CG2	0.584
4	D:49:ARG:HG2	D:50:THR:N	0.584
4	E:27:ARG:C	E:27:ARG:HD2	0.584
4	C:82:SER:N	C:88:LYS:N	0.584
4	A:204:ARG:HD3	A:270:ASP:OD2	0.583
4	C:82:SER:HB2	C:88:LYS:C	0.583
4	C:84:SER:HB2	C:94:ASP:CG	0.583
4	C:102:ALA:O	C:105:THR:HG22	0.583
4	C:179:LEU:HA	C:182:ILE:HD11	0.583
4	C:260:ASP:CB	C:307:LYS:HB2	0.583
4	C:281:TRP:HB2	C:345:PHE:CE1	0.583
4	C:284:ASP:HB2	C:296:LEU:HB3	0.583
4	C:302:LEU:O	C:302:LEU:HD22	0.583
4	D:277:SER:HB2	D:318:LEU:CD2	0.583
4	C:317:ARG:N	C:317:ARG:HH11	0.583
4	A:142:ILE:HD12	D:309:ALA:HB3	0.582
4	A:181:MET:HG2	A:182:TYR:CE2	0.582
4	A:201:LEU:HG	A:201:LEU:O	0.582
4	A:321:ASP:OD2	A:324:CYS:HB2	0.582

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:346:PHE:O	A:347:VAL:HG23	0.582
4	C:44:LEU:HD12	C:238:PHE:CG	0.582
4	C:57:VAL:HG12	C:225:GLY:CA	0.582
4	C:231:ARG:NH1	C:235:ILE:HG12	0.582
4	D:32:GLN:HG2	F:32:ASN:HD21	0.582
4	D:95:LEU:HD13	D:100:VAL:CG1	0.582
4	F:31:SER:O	F:54:GLN:HG3	0.582
4	A:12:THR:HA	A:65:TYR:HE1	0.581
4	A:115:GLU:CG	A:119:LEU:HD11	0.581
4	C:113:LEU:HD11	C:116:PRO:CA	0.581
4	D:111:TYR:HB2	D:154:ASP:OD1	0.581
4	E:38:MET:O	E:41:CYS:HB3	0.581
4	F:8:SER:O	F:21:LEU:HD12	0.581
4	F:37:TRP:CD2	F:95:TYR:CE1	0.581
4	C:281:TRP:HE3	C:345:PHE:HZ	0.581
4	C:59:GLN:HA	C:184:VAL:CG1	0.580
4	C:208:PHE:HE1	C:222:PHE:CD2	0.580
4	C:274:ASP:HA	C:341:ILE:CG2	0.580
4	C:282:LEU:HA	C:285:THR:C	0.580
4	C:345:PHE:CE1	C:359:CYS:HB3	0.580
4	A:398:ARG:NH1	C:351:ALA:HA	0.580
4	C:155:GLU:OE1	C:367:VAL:HA	0.580
4	C:389:ARG:HA	C:389:ARG:HE	0.580

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:38:ASP:CG	D:39:PRO:HD2	0.580
4	D:142:HIS:CG	D:161:SER:HB3	0.580
4	D:285:LEU:C	D:286:LEU:HD23	0.580
4	F:112:THR:HG23	F:116:TYR:CD2	0.580
4	A:215:ALA:H	A:218:TYR:HD2	0.580
4	A:12:THR:HB	A:65:TYR:CZ	0.579
4	A:13:VAL:HA	A:16:TRP:NE1	0.579
4	A:23:CYS:SG	A:48:CYS:HB2	0.579
4	A:234:PHE:CZ	A:237:LEU:HB2	0.579
4	C:234:TRP:CZ3	C:237:CYS:HB2	0.579
4	C:245:ILE:HD11	C:290:PHE:CG	0.579
4	D:4:LEU:HD21	E:9:ILE:HG23	0.579
4	D:30:LEU:N	D:30:LEU:HD23	0.579
4	E:15:LEU:O	E:15:LEU:HD13	0.579
4	C:231:ARG:CZ	C:285:THR:HB	0.578
4	C:231:ARG:HH11	C:235:ILE:HG21	0.578
4	C:251:SER:HB3	C:302:LEU:CG	0.578
4	C:283:ARG:HD3	C:297:LEU:HD13	0.578
4	C:330:GLU:HA	C:330:GLU:OE1	0.578
4	F:5:LEU:HG	F:120:GLY:HA3	0.578
4	A:60:VAL:HG22	A:61:SER:H	0.577
4	A:334:ILE:HG21	A:339:THR:OG1	0.577
4	C:270:LEU:HD11	C:345:PHE:CA	0.577

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:280:LYS:HE3	C:281:TRP:O	0.577
4	E:9:ILE:N	E:9:ILE:HD12	0.577
4	F:115:THR:O	F:115:THR:HG23	0.577
4	A:215:ALA:O	A:254:PRO:HB2	0.576
4	A:258:VAL:HA	A:286:ILE:HD13	0.576
4	C:281:TRP:CH2	C:349:SER:HB2	0.576
4	C:271:LYS:CG	C:283:ARG:HD3	0.576
4	C:296:LEU:HD21	F:109:PHE:CG	0.576
4	D:240:ALA:HB1	D:252:LEU:HD21	0.576
4	C:30:LEU:HA	C:33:ASP:OD2	0.575
4	C:61:ARG:HG2	C:62:ILE:N	0.575
4	C:241:VAL:CG2	C:244:ILE:HG22	0.575
4	C:264:ASN:C	F:60:SER:HB2	0.575
4	C:346:LEU:C	C:346:LEU:HD12	0.575
4	D:80:ILE:HD12	D:92:ALA:HB2	0.575
4	D:187:VAL:CG2	D:203:ALA:HB2	0.575
4	A:79:ARG:HD3	A:87:TRP:CD1	0.574
4	A:402:LEU:C	A:402:LEU:HD13	0.574
4	C:55:THR:HG21	C:91:LYS:O	0.574
4	C:81:ARG:H	C:90:THR:HG23	0.574
4	C:55:THR:OG1	C:95:ILE:HG22	0.574
4	C:270:LEU:HD23	C:344:GLU:CG	0.574
4	C:293:LYS:HB2	C:301:VAL:HG21	0.574

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:128:THR:O	D:128:THR:HG23	0.574
4	E:19:LEU:HA	E:22:GLU:HG2	0.574
4	A:204:ARG:HD2	A:270:ASP:OD1	0.573
4	C:53:LYS:HE2	D:143:THR:O	0.573
4	C:232:ARG:H	C:235:ILE:HG22	0.573
4	D:63:TRP:HE1	D:67:SER:CA	0.573
4	D:223:THR:HB	F:2:GLN:CB	0.573
4	C:308:ILE:H	F:47:GLU:CD	0.573
4	F:100:CYS:CB	F:108:CYS:HB2	0.573
4	A:3:GLN:HA	A:3:GLN:OE1	0.572
4	A:148:HIS:HA	D:312:ASP:CB	0.572
4	A:221:LEU:HD21	A:337:LEU:O	0.572
4	C:84:SER:CA	C:91:LYS:HD3	0.572
4	C:52:GLY:O	C:86:GLY:HA2	0.572
4	C:127:ARG:HA	C:149:HIS:ND1	0.572
4	C:163:TYR:OH	C:175:ALA:HB3	0.572
4	C:327:GLU:HA	C:327:GLU:OE1	0.572
4	D:311:HIS:CD2	D:335:PHE:HZ	0.572
4	F:18:SER:HB2	F:85:ASN:HB3	0.572
4	A:364:GLU:O	A:368:THR:HG22	0.571
4	C:43:LEU:HD21	C:245:ILE:HG22	0.571
4	C:392:GLU:C	C:392:GLU:HA	0.571
4	D:49:ARG:HB3	D:338:ILE:CB	0.571

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:120:ILE:HD11	D:138:GLU:CG	0.571
4	D:292:PHE:HB2	D:313:ASN:O	0.571
4	C:54:ASN:ND2	C:55:THR:N	0.571
4	A:102:GLU:HA	A:102:GLU:OE1	0.570
4	A:400:GLU:HG2	C:347:ARG:NH1	0.570
4	C:1:MET:HA	C:209:GLU:OE1	0.570
4	C:68:PHE:HB3	C:199:ARG:HB3	0.570
4	C:267:GLN:HG2	C:282:LEU:O	0.570
4	C:280:LYS:HG2	C:294:GLN:HA	0.570
4	C:308:ILE:HD13	F:49:VAL:CG2	0.570
4	D:67:SER:O	D:68:ARG:HB3	0.570
4	D:183:HIS:CE1	D:209:LYS:HG2	0.570
4	D:201:SER:H	D:209:LYS:HG3	0.570
4	D:297:TRP:HE1	D:302:ALA:CB	0.570
4	C:115:PRO:HB2	C:116:PRO:HA	0.569
4	C:59:GLN:O	C:210:THR:HB	0.569
4	D:39:PRO:CG	D:269:ILE:HB	0.569
4	C:234:TRP:HZ3	D:99:TRP:CD2	0.569
4	A:9:LEU:HD22	B:19:ALA:HB2	0.568
4	A:151:CYS:O	A:154:ASN:HB3	0.568
4	A:275:THR:HG21	B:11:SER:OG	0.568
4	C:54:ASN:ND2	C:207:ILE:HG13	0.568
4	C:224:VAL:HB	C:293:LYS:HZ1	0.568

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:245:ILE:HG13	C:246:PHE:H	0.568
4	C:299:GLU:HB3	F:111:VAL:O	0.568
4	C:301:VAL:O	C:301:VAL:HG12	0.568
4	C:312:PHE:CD1	C:313:PRO:HD2	0.568
4	C:262:GLN:NE2	C:314:GLU:HG3	0.568
4	E:6:THR:HG23	E:8:SER:N	0.568
4	A:143:LEU:CG	A:147:ARG:HG3	0.567
4	A:156:ILE:CD1	A:224:GLU:HA	0.567
4	A:255:LEU:C	A:255:LEU:HD13	0.567
4	A:295:GLY:O	A:299:LEU:HD12	0.567
4	A:335:PRO:HD2	A:374:MET:CE	0.567
4	A:392:LYS:HB2	A:413:LEU:HD22	0.567
4	C:53:LYS:HA	C:91:LYS:CD	0.567
4	C:53:LYS:HA	C:91:LYS:CE	0.567
4	D:19:ARG:O	D:23:LYS:HB2	0.567
4	D:198:LEU:HD21	D:210:LEU:HD22	0.567
4	F:37:TRP:CG	F:95:TYR:CE1	0.567
4	C:15:GLU:O	C:19:GLN:HG3	0.566
4	C:151:LYS:HD2	C:182:ILE:O	0.566
4	C:234:TRP:CE3	C:237:CYS:HB2	0.566
4	C:248:VAL:HB	C:279:ASN:CB	0.566
4	C:260:ASP:CB	C:307:LYS:H	0.566
4	F:52:ILE:HD11	F:56:GLY:O	0.566

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	F:80:LEU:HD13	F:81:TYR:N	0.566
4	C:291:LEU:HD12	C:363:PHE:HD1	0.565
4	C:61:ARG:NE	C:372:ILE:HG13	0.565
4	C:380:ARG:O	C:383:ILE:HG22	0.565
4	F:90:GLU:O	F:129:SER:HA	0.565
4	A:236:VAL:HA	C:38:ARG:C	0.564
4	C:57:VAL:CG1	C:177:TYR:CZ	0.564
4	C:177:TYR:HD2	C:178:PHE:HA	0.564
4	C:257:ILE:CG1	F:43:GLY:HA3	0.564
4	C:308:ILE:O	C:309:GLU:HB2	0.564
4	D:135:VAL:O	D:135:VAL:HG13	0.564
4	F:5:LEU:H	F:5:LEU:HD23	0.564
4	A:53:GLU:HB3	A:54:PRO:CD	0.563
4	A:312:LEU:HD13	A:325:ARG:HH21	0.563
4	C:152:ALA:O	C:155:GLU:HG2	0.563
4	D:32:GLN:HB2	F:32:ASN:OD1	0.563
4	D:106:ALA:CB	D:111:TYR:HB3	0.563
4	D:189:SER:OG	D:231:ALA:HA	0.563
4	D:276:VAL:HG12	D:277:SER:N	0.563
4	A:284:LEU:C	A:284:LEU:HD13	0.562
4	A:308:VAL:HB	A:326:LEU:HD11	0.562
4	A:312:LEU:HD11	A:326:LEU:HD12	0.562
4	C:45:LEU:HG	C:45:LEU:O	0.562

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:58:LYS:HD3	C:185:ILE:CB	0.562
4	C:1:MET:SD	C:202:VAL:HG11	0.562
4	D:83:ASP:HB2	E:58:GLU:CB	0.562
4	A:261:TRP:CD2	A:286:ILE:HD12	0.561
4	A:294:ILE:HG23	A:342:VAL:HG22	0.561
4	C:45:LEU:HD23	C:181:LYS:CE	0.561
4	C:46:LEU:CB	C:293:LYS:HG2	0.561
4	C:52:GLY:HA3	D:119:ASN:CB	0.561
4	C:82:SER:OG	C:88:LYS:HA	0.561
4	C:103:ILE:HA	C:106:ILE:HG12	0.561
4	C:106:ILE:HG13	C:107:VAL:N	0.561
4	C:178:PHE:CZ	C:182:ILE:HA	0.561
4	D:223:THR:OG1	F:2:GLN:HB3	0.561
4	F:95:TYR:O	F:122:GLY:HA3	0.561
4	A:46:TYR:OH	A:63:PRO:HD2	0.560
4	A:149:LEU:HD13	A:153:ARG:HE	0.560
4	A:160:LEU:HD21	A:164:PHE:CE1	0.560
4	A:291:LEU:HG	A:294:ILE:HD12	0.560
4	A:411:LYS:CE	C:352:SER:HA	0.560
4	C:56:ILE:HG13	C:174:CYS:SG	0.560
4	C:78:GLN:O	C:85:ASP:HB2	0.560
4	C:83:ASN:H	C:87:GLU:CA	0.560
4	C:308:ILE:HB	F:47:GLU:OE2	0.560

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	F:38:VAL:HG11	F:46:LEU:HD21	0.560
4	A:349:ASP:OD1	A:352:ALA:HB2	0.559
4	C:180:ASP:OD2	C:181:LYS:HE2	0.559
4	C:185:ILE:O	C:185:ILE:HD13	0.559
4	C:233:LYS:HE3	D:188:MET:HG3	0.559
4	C:341:ILE:HG22	C:344:GLU:OE2	0.559
4	A:159:ASN:HB3	A:220:TRP:CE2	0.558
4	A:182:TYR:H	B:14:LEU:HD21	0.558
4	C:232:ARG:N	C:235:ILE:HG22	0.558
4	C:265:ARG:HB3	C:268:ALA:O	0.558
4	C:299:GLU:HG2	F:111:VAL:HG21	0.558
4	C:303:ALA:H	C:305:LYS:CA	0.558
4	C:327:GLU:OE1	C:328:PRO:HD2	0.558
4	D:180:PHE:CD1	D:211:TRP:CZ3	0.558
4	E:53:PRO:CG	E:65:LYS:HA	0.558
4	F:23:CYS:HB3	F:80:LEU:HB3	0.558
4	C:61:ARG:CG	C:62:ILE:H	0.557
4	C:113:LEU:C	C:113:LEU:HD12	0.557
4	C:220:HIS:CD2	C:222:PHE:CE1	0.557
4	C:246:PHE:CE2	C:345:PHE:CE2	0.557
4	C:273:PHE:CE1	C:340:PHE:HD2	0.557
4	C:180:ASP:OD1	C:293:LYS:HB3	0.557
4	C:231:ARG:HE	C:296:LEU:CD1	0.557

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:334:VAL:O	C:338:LYS:HG2	0.557
4	D:142:HIS:CE1	D:163:ASP:HB3	0.557
4	A:334:ILE:O	A:334:ILE:HG13	0.556
4	B:5:THR:HG23	B:6:PHE:N	0.556
4	C:82:SER:C	C:91:LYS:HE3	0.556
4	C:73:GLY:N	C:94:ASP:HA	0.556
4	C:99:LEU:HD13	C:100:LYS:N	0.556
4	C:143:PRO:HB2	C:194:ASP:CG	0.556
4	C:315:PHE:CZ	C:336:ARG:HB3	0.556
4	D:270:ILE:O	D:270:ILE:HG12	0.556
4	A:77:VAL:HA	A:99:ASP:OD1	0.555
4	A:178:LEU:HD22	B:14:LEU:CD2	0.555
4	A:236:VAL:HG13	C:39:ALA:O	0.555
4	A:387:GLN:O	A:391:ARG:HG3	0.555
4	C:23:ASN:HB2	D:88:ASN:OD1	0.555
4	C:58:LYS:C	C:223:ASP:HB2	0.555
4	C:61:ARG:NH1	C:190:TYR:HA	0.555
4	C:207:ILE:CD1	C:208:PHE:N	0.555
4	C:307:LYS:C	F:47:GLU:HG3	0.555
4	D:120:ILE:C	D:120:ILE:HD13	0.555
4	D:180:PHE:CD1	D:211:TRP:CE3	0.555
4	D:292:PHE:CE1	D:311:HIS:CB	0.555
4	B:23:ILE:O	B:27:VAL:HG23	0.554

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:57:VAL:HG13	C:177:TYR:CD2	0.554
4	C:155:GLU:HB2	C:365:CYS:HA	0.554
4	C:260:ASP:C	C:310:ASP:HA	0.554
4	C:269:ALA:CA	C:272:LEU:HD13	0.554
4	C:300:LYS:HB2	C:307:LYS:NZ	0.554
4	D:99:TRP:NE1	D:101:MET:HE3	0.554
4	D:292:PHE:CE1	D:311:HIS:HB3	0.554
4	D:222:PHE:HE2	D:251:ARG:HH12	0.554
4	A:308:VAL:O	A:312:LEU:HD23	0.553
4	A:428:SER:HB3	A:430:MET:HE1	0.553
4	D:199:PHE:CE2	D:211:TRP:CD1	0.553
4	C:229:ASP:OD2	F:112:THR:HG22	0.553
4	A:48:CYS:O	A:60:VAL:HG11	0.552
4	A:117:GLN:O	A:121:LEU:HG	0.552
4	C:246:PHE:HB2	C:280:LYS:HE2	0.552
4	C:346:LEU:O	C:347:ARG:HB2	0.552
4	D:57:LYS:HB2	D:332:TRP:HD1	0.552
4	D:155:ASN:O	D:171:ILE:HG23	0.552
4	D:277:SER:CB	D:318:LEU:HD23	0.552
4	F:37:TRP:CE3	F:95:TYR:CZ	0.552
4	F:47:GLU:OE2	F:49:VAL:HA	0.552
4	C:46:LEU:HD13	C:293:LYS:HG2	0.551
4	C:71:GLU:HG2	C:93:GLN:CG	0.551

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:82:SER:HB3	C:91:LYS:H	0.551
4	D:99:TRP:HE1	D:101:MET:HB2	0.551
4	D:119:ASN:HD21	D:142:HIS:CB	0.551
4	D:167:ALA:HB2	D:176:GLN:NE2	0.551
4	D:196:THR:HG23	D:197:ARG:N	0.551
4	D:264:TYR:HD1	D:297:TRP:CE2	0.551
4	D:329:THR:O	D:329:THR:HG23	0.551
4	E:7:ALA:HB1	E:10:ALA:HB3	0.551
4	F:40:GLN:HB2	F:46:LEU:HA	0.551
4	A:398:ARG:NE	A:399:LEU:H	0.551
4	A:178:LEU:CD1	B:14:LEU:HD22	0.550
4	A:381:PHE:CE1	A:385:GLU:HB3	0.550
4	C:36:VAL:CA	C:39:ALA:HB3	0.550
4	C:48:ALA:CB	C:295:ASP:HB2	0.550
4	C:250:SER:HB3	C:302:LEU:CB	0.550
4	C:233:LYS:HZ1	D:188:MET:HA	0.550
4	D:289:TYR:CZ	D:293:ASN:HB3	0.550
4	A:59:ASN:HB2	A:76:HIS:CB	0.549
4	A:84:GLU:HG2	A:86:LEU:CD2	0.549
4	A:156:ILE:HD11	A:224:GLU:N	0.549
4	A:240:GLN:H	A:242:ILE:HG13	0.549
4	C:55:THR:CG2	C:95:ILE:N	0.549
4	C:58:LYS:HD3	C:185:ILE:HB	0.549

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:59:GLN:HA	C:184:VAL:HG13	0.549
4	D:187:VAL:HG22	D:203:ALA:CB	0.549
4	D:329:THR:HG22	D:337:LYS:HB3	0.549
4	F:47:GLU:CG	F:48:TRP:N	0.549
4	A:377:ILE:HG13	A:378:LEU:HD23	0.548
4	C:99:LEU:CB	C:178:PHE:CD2	0.548
4	C:100:LYS:HA	C:103:ILE:HG22	0.548
4	C:151:LYS:HB3	C:187:GLN:CD	0.548
4	C:246:PHE:O	C:290:PHE:HB3	0.548
4	D:44:GLN:HG3	D:45:MET:N	0.548
4	D:304:ARG:C	D:304:ARG:HD3	0.548
4	F:92:THR:CB	F:127:VAL:HB	0.548
4	A:143:LEU:C	A:145:GLY:H	0.547
4	C:72:GLY:C	C:94:ASP:HA	0.547
4	C:49:GLY:N	C:224:VAL:CG2	0.547
4	C:261:ASN:C	C:272:LEU:HB3	0.547
4	D:164:THR:HG21	D:185:GLY:N	0.547
4	E:9:ILE:CD1	E:9:ILE:H	0.547
4	E:49:PRO:HD2	E:65:LYS:HD3	0.547
4	A:224:GLU:CD	A:336:LEU:HD21	0.546
4	C:181:LYS:HG3	C:223:ASP:OD2	0.546
4	D:222:PHE:CG	D:253:PHE:CD1	0.546
4	F:37:TRP:CD2	F:95:TYR:CZ	0.546

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	F:48:TRP:HH2	F:100:CYS:SG	0.546
4	A:219:TYR:O	A:222:LEU:HB3	0.545
4	A:400:GLU:HG2	C:347:ARG:HH12	0.545
4	C:81:ARG:HB2	C:89:ALA:O	0.545
4	C:54:ASN:HD22	C:207:ILE:CG1	0.545
4	C:298:ALA:C	C:301:VAL:H	0.545
4	C:371:ASN:O	C:374:ARG:HB2	0.545
4	D:150:ARG:O	D:157:ILE:HD11	0.545
4	D:222:PHE:HB2	D:253:PHE:CE1	0.545
4	E:48:ASP:HB2	E:53:PRO:O	0.545
4	C:255:MET:O	F:44:LYS:HB3	0.545
4	F:95:TYR:CD1	F:96:TYR:N	0.545
4	A:115:GLU:O	A:119:LEU:HG	0.544
4	A:331:LEU:O	A:331:LEU:HD13	0.544
4	A:359:ILE:HG23	A:360:LYS:N	0.544
4	A:370:PHE:CE2	A:373:LEU:HD11	0.544
4	C:62:ILE:HG22	C:197:LEU:HD22	0.544
4	C:83:ASN:HB3	C:86:GLY:C	0.544
4	C:113:LEU:HD21	C:117:VAL:CG2	0.544
4	C:163:TYR:CE1	C:175:ALA:HB3	0.544
4	C:205:SER:HB2	C:207:ILE:O	0.544
4	C:236:GLN:HG2	D:314:ARG:NH1	0.544
4	C:277:TRP:CG	C:341:ILE:HD13	0.544

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:296:LEU:HG	F:109:PHE:CD2	0.544
4	C:303:ALA:H	C:305:LYS:C	0.544
4	D:95:LEU:HD21	D:114:CYS:SG	0.544
4	D:325:MET:CB	E:55:PRO:HD2	0.544
4	F:28:PHE:CD2	F:33:TYR:HD2	0.544
4	F:42:PRO:HD2	F:129:SER:CB	0.544
4	A:82:THR:HG22	A:86:LEU:O	0.543
4	C:248:VAL:CB	C:279:ASN:CB	0.543
4	C:164:GLU:O	C:258:ARG:HA	0.543
4	C:275:SER:HA	C:279:ASN:ND2	0.543
4	C:302:LEU:O	C:302:LEU:HD13	0.543
4	C:308:ILE:CG2	C:309:GLU:H	0.543
4	C:308:ILE:HD13	F:49:VAL:HG13	0.543
4	F:99:ARG:HD2	F:118:TYR:CZ	0.543
4	F:109:PHE:CE1	F:112:THR:CG2	0.543
4	A:178:LEU:HD13	B:14:LEU:HD22	0.542
4	C:104:GLU:OE1	C:135:MET:HG3	0.542
4	C:51:SER:N	C:208:PHE:CD2	0.542
4	C:246:PHE:CD1	C:247:VAL:N	0.542
4	C:204:THR:OG1	D:96:ARG:HD2	0.542
4	D:122:SER:HA	D:138:GLU:HB3	0.542
4	D:286:LEU:HD22	D:296:VAL:CG2	0.542
4	D:49:ARG:NE	D:338:ILE:HB	0.542

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	F:50:SER:HB2	F:69:PHE:CZ	0.542
4	C:134:VAL:O	C:134:VAL:HG23	0.541
4	C:61:ARG:H	C:210:THR:CG2	0.541
4	C:231:ARG:HD2	C:235:ILE:HG12	0.541
4	C:307:LYS:O	C:309:GLU:HA	0.541
4	C:187:GLN:NE2	C:368:ASP:HB3	0.541
4	D:225:HIS:HD2	D:227:SER:H	0.541
4	C:55:THR:HG22	C:91:LYS:CG	0.540
4	C:280:LYS:HG2	C:294:GLN:N	0.540
4	C:284:ASP:CG	C:296:LEU:HD22	0.540
4	D:58:ILE:HG23	D:331:SER:H	0.540
4	D:172:GLU:HG3	D:173:THR:N	0.540
4	D:223:THR:HB	F:2:GLN:HB3	0.540
4	D:236:PRO:O	D:237:ASN:HB3	0.540
4	D:320:VAL:HG22	D:327:VAL:HG22	0.540
4	F:88:LYS:HB2	F:88:LYS:NZ	0.540
4	F:94:VAL:HG11	F:96:TYR:CZ	0.540
4	C:54:ASN:HD21	C:92:VAL:N	0.540
4	A:12:THR:HA	A:65:TYR:CE1	0.539
4	A:312:LEU:HD21	A:326:LEU:HG	0.539
4	A:275:THR:OG1	B:8:SER:HA	0.539
4	C:46:LEU:HA	C:48:ALA:HB2	0.539
4	C:51:SER:CB	C:207:ILE:HD12	0.539

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:272:LEU:HA	C:307:LYS:HE3	0.539
4	A:381:PHE:HZ	D:37:ILE:HG13	0.539
4	D:187:VAL:HG13	D:202:GLY:O	0.539
4	D:201:SER:HB2	D:209:LYS:CD	0.539
4	D:293:ASN:HD21	D:307:VAL:HG13	0.539
4	A:72:VAL:HG21	A:106:SER:HB3	0.538
4	A:200:SER:O	A:201:LEU:HB3	0.538
4	C:231:ARG:HG2	C:296:LEU:HD12	0.538
4	C:281:TRP:CE3	C:349:SER:HB2	0.538
4	C:288:ILE:C	C:289:LEU:HD23	0.538
4	C:308:ILE:HD12	F:39:ARG:CD	0.538
4	C:234:TRP:CB	D:117:LEU:HD11	0.538
4	D:201:SER:CB	D:209:LYS:HD3	0.538
4	D:273:ILE:O	D:273:ILE:HD13	0.538
4	D:49:ARG:NH2	D:338:ILE:HG13	0.538
4	F:53:SER:HB3	F:58:SER:OG	0.538
4	F:109:PHE:CE1	F:112:THR:HG23	0.538
4	C:308:ILE:N	C:309:GLU:H	0.538
4	A:213:CYS:O	A:216:ALA:HB3	0.537
4	C:48:ALA:HB3	C:224:VAL:CG2	0.537
4	C:56:ILE:HD11	C:174:CYS:SG	0.537
4	C:95:ILE:CG2	C:185:ILE:HG21	0.537
4	C:285:THR:HG23	C:286:SER:N	0.537

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:293:LYS:HG3	C:294:GLN:N	0.537
4	C:372:ILE:HG22	C:373:ARG:N	0.537
4	D:200:VAL:HG13	D:209:LYS:O	0.537
4	D:260:GLU:HG3	D:260:GLU:O	0.537
4	A:191:TRP:CH2	A:195:LEU:HD11	0.536
4	A:255:LEU:O	A:255:LEU:HD13	0.536
4	C:95:ILE:HG12	C:178:PHE:CE1	0.536
4	D:164:THR:HB	D:185:GLY:O	0.536
4	D:193:ALA:HB1	D:194:PRO:CD	0.536
4	F:72:SER:OG	F:81:TYR:HB2	0.536
4	A:358:PHE:HA	A:361:LEU:CD1	0.535
4	A:381:PHE:HE1	A:385:GLU:CB	0.535
4	C:50:GLU:HB2	D:117:LEU:HB3	0.535
4	C:62:ILE:HG22	C:197:LEU:CD2	0.535
4	C:62:ILE:O	C:63:LEU:HD23	0.535
4	C:99:LEU:HG	C:178:PHE:CE2	0.535
4	C:178:PHE:CD2	C:182:ILE:HG12	0.535
4	C:248:VAL:CA	C:279:ASN:CB	0.535
4	C:298:ALA:O	C:303:ALA:HA	0.535
4	D:20:ASP:O	D:23:LYS:HB3	0.535
4	D:54:HIS:CG	D:82:TRP:HH2	0.535
4	F:12:LEU:HB3	F:126:THR:HG21	0.535
4	C:285:THR:H	C:294:GLN:NE2	0.535

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:398:ARG:CD	A:399:LEU:H	0.534
4	C:208:PHE:CE1	C:222:PHE:CD2	0.534
4	C:246:PHE:CE2	C:345:PHE:CD2	0.534
4	D:101:MET:O	D:102:THR:HB	0.534
4	D:165:THR:O	D:165:THR:HG23	0.534
4	D:222:PHE:CD1	D:253:PHE:CE1	0.534
4	A:142:ILE:O	D:310:GLY:HA3	0.534
4	C:61:ARG:HE	C:372:ILE:CG1	0.534
4	A:126:THR:HA	A:129:TYR:CE2	0.533
4	C:244:ILE:CD1	C:287:VAL:H	0.533
4	C:249:ALA:C	C:301:VAL:HG22	0.533
4	C:273:PHE:CD1	C:340:PHE:HD2	0.533
4	D:50:THR:O	D:50:THR:HG23	0.533
4	C:306:SER:CA	F:45:GLY:HA3	0.532
4	D:59:TYR:CD2	D:316:SER:HB3	0.532
4	D:277:SER:OG	D:318:LEU:HD23	0.532
4	F:20:ARG:HG2	F:83:GLN:HA	0.532
4	D:99:TRP:HD1	D:117:LEU:N	0.532
4	A:11:GLU:HA	A:11:GLU:OE2	0.531
4	A:149:LEU:HD21	A:157:HIS:CD2	0.531
4	D:304:ARG:HH21	D:307:VAL:CG2	0.531
4	D:320:VAL:HG22	D:327:VAL:CB	0.531
4	F:71:ILE:HG23	F:72:SER:H	0.531

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:254:ASN:N	C:254:ASN:HD22	0.531
4	A:99:ASP:O	A:100:LEU:HB2	0.530
4	A:432:THR:HG23	A:434:THR:O	0.530
4	C:60:MET:HA	C:210:THR:CB	0.530
4	C:62:ILE:HG23	C:190:TYR:H	0.530
4	C:115:PRO:HB2	C:116:PRO:C	0.530
4	C:220:HIS:CD2	C:222:PHE:CD1	0.530
4	C:342:ARG:HD2	C:361:PRO:HB2	0.530
4	E:13:ARG:HG3	E:16:VAL:HG21	0.530
4	E:15:LEU:C	E:15:LEU:HD13	0.530
4	F:12:LEU:HA	F:126:THR:HB	0.530
4	F:44:LYS:CG	F:45:GLY:H	0.530
4	F:46:LEU:CD1	F:111:VAL:HA	0.530
4	A:13:VAL:HG11	A:191:TRP:HZ3	0.529
4	C:152:ALA:HA	C:155:GLU:CD	0.529
4	C:345:PHE:CE1	C:359:CYS:CB	0.529
4	D:57:LYS:HG3	D:332:TRP:CA	0.529
4	D:226:GLU:HG2	F:28:PHE:CZ	0.529
4	D:304:ARG:NH2	D:307:VAL:HG23	0.529
4	C:308:ILE:N	F:47:GLU:HB2	0.529
4	A:261:TRP:CD1	A:262:GLY:N	0.528
4	C:25:LYS:HB2	C:25:LYS:NZ	0.528
4	C:28:LYS:O	C:29:GLN:HB2	0.528

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:46:LEU:C	C:48:ALA:N	0.528
4	C:58:LYS:CB	C:207:ILE:HD13	0.528
4	C:107:VAL:HG21	C:159:VAL:HG22	0.528
4	C:189:ASP:OD2	C:197:LEU:HD13	0.528
4	F:93:ALA:C	F:125:VAL:HG22	0.528
4	C:267:GLN:CG	C:281:TRP:HD1	0.527
4	C:280:LYS:CB	C:283:ARG:HD2	0.527
4	C:291:LEU:HD12	C:363:PHE:CE1	0.527
4	D:3:GLU:O	D:4:LEU:HB2	0.527
4	D:225:HIS:CD2	D:245:SER:CB	0.527
4	D:54:HIS:O	D:334:SER:HB3	0.527
4	C:308:ILE:CD1	F:39:ARG:HD2	0.527
4	F:48:TRP:CE2	F:51:ASP:HB3	0.527
4	D:292:PHE:HD1	D:293:ASN:N	0.527
4	C:30:LEU:HD22	D:89:LYS:HZ1	0.526
4	C:32:LYS:HD2	C:32:LYS:O	0.526
4	C:58:LYS:C	C:223:ASP:CB	0.526
4	C:99:LEU:HD21	C:182:ILE:HD13	0.526
4	C:238:PHE:CD2	C:239:ASN:N	0.526
4	C:249:ALA:C	C:301:VAL:HA	0.526
4	C:257:ILE:CD1	F:43:GLY:HA3	0.526
4	C:308:ILE:HG23	C:309:GLU:N	0.526
4	C:318:TYR:CG	C:340:PHE:CD1	0.526

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:138:GLU:C	D:139:LEU:HD23	0.526
4	D:211:TRP:CZ2	D:217:MET:N	0.526
4	D:72:SER:OG	D:336:LEU:HD11	0.526
4	F:48:TRP:HB2	F:111:VAL:HG11	0.526
4	F:71:ILE:C	F:71:ILE:HD13	0.526
4	A:41:ARG:O	A:42:THR:HG23	0.525
4	C:46:LEU:HD21	C:181:LYS:CD	0.525
4	C:58:LYS:HD3	C:185:ILE:HG13	0.525
4	C:271:LYS:HA	C:283:ARG:NH1	0.525
4	C:303:ALA:N	C:305:LYS:CA	0.525
4	D:71:VAL:HG23	D:81:ILE:HD12	0.525
4	D:83:ASP:CB	E:58:GLU:HB2	0.525
4	E:49:PRO:HG2	E:65:LYS:HE2	0.525
4	F:28:PHE:CG	F:29:THR:N	0.525
4	A:124:ILE:HG21	A:362:PHE:CE1	0.524
4	C:36:VAL:C	C:39:ALA:HB3	0.524
4	C:124:ASN:O	C:127:ARG:HB2	0.524
4	C:250:SER:N	C:301:VAL:HG13	0.524
4	D:106:ALA:HB2	D:111:TYR:CD1	0.524
4	D:99:TRP:HE1	D:117:LEU:HD23	0.524
4	D:283:ARG:HG2	D:283:ARG:O	0.524
4	D:292:PHE:CD1	D:315:VAL:HG22	0.524
4	F:28:PHE:HD2	F:33:TYR:CD2	0.524

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:249:ILE:HA	A:253:VAL:CG2	0.523
4	C:29:GLN:HA	C:29:GLN:OE1	0.523
4	C:180:ASP:HB2	C:292:ASN:O	0.523
4	C:59:GLN:N	C:184:VAL:HA	0.523
4	C:289:LEU:HD12	C:361:PRO:HA	0.523
4	C:249:ALA:H	C:300:LYS:HD2	0.523
4	D:21:ALA:O	D:22:ARG:HB2	0.523
4	D:162:GLY:O	D:186:ASP:HB2	0.523
4	D:209:LYS:NZ	D:211:TRP:HB2	0.523
4	D:282:GLY:O	D:283:ARG:HB3	0.523
4	F:12:LEU:HB3	F:126:THR:OG1	0.523
4	C:212:PHE:CG	C:213:GLN:N	0.523
4	A:39:CYS:SG	A:87:TRP:CE2	0.522
4	A:98:ARG:HG2	A:100:LEU:CD1	0.522
4	A:386:VAL:HG13	A:390:PHE:HE2	0.522
4	C:82:SER:CA	C:87:GLU:C	0.522
4	C:117:VAL:HG11	C:158:GLY:O	0.522
4	C:260:ASP:CB	C:307:LYS:N	0.522
4	C:296:LEU:CD1	F:109:PHE:CD2	0.522
4	D:79:LEU:O	D:79:LEU:HD12	0.522
4	D:190:LEU:CD2	D:199:PHE:HB2	0.522
4	D:251:ARG:CZ	D:251:ARG:HB2	0.522
4	D:284:LEU:HD11	D:296:VAL:CG1	0.522

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:51:SER:HB3	C:54:ASN:CB	0.521
4	C:55:THR:OG1	C:92:VAL:HA	0.521
4	C:235:ILE:HG23	C:236:GLN:N	0.521
4	C:246:PHE:HB2	C:280:LYS:CG	0.521
4	D:106:ALA:CB	D:151:PHE:CE1	0.521
4	D:125:ASN:O	D:133:VAL:HG13	0.521
4	A:71:SER:O	A:73:PRO:HD2	0.520
4	C:56:ILE:CA	C:95:ILE:HD13	0.520
4	C:195:GLN:HA	C:198:LEU:HD12	0.520
4	C:214:VAL:HG21	C:373:ARG:HG3	0.520
4	C:281:TRP:CG	C:282:LEU:N	0.520
4	C:281:TRP:CZ3	C:349:SER:HB2	0.520
4	D:21:ALA:C	D:23:LYS:H	0.520
4	D:292:PHE:CZ	D:315:VAL:CA	0.520
4	C:43:LEU:CD1	C:375:VAL:HG11	0.519
4	C:95:ILE:HG12	C:185:ILE:CG2	0.519
4	C:143:PRO:HB2	C:194:ASP:HB3	0.519
4	C:231:ARG:CD	C:296:LEU:HD12	0.519
4	C:258:ARG:HB3	C:310:ASP:OD2	0.519
4	C:285:THR:HG21	C:394:LEU:HB2	0.519
4	C:260:ASP:OD2	C:307:LYS:HD2	0.519
4	C:356:ARG:O	C:357:HIS:HB2	0.519
4	D:33:ILE:HA	F:54:GLN:CD	0.519

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:318:LEU:HD12	D:329:THR:HB	0.519
4	C:309:GLU:OE1	F:129:SER:HB3	0.519
4	A:142:ILE:HD13	D:44:GLN:HE21	0.518
4	A:394:TRP:NE1	A:397:TRP:CZ2	0.518
4	C:73:GLY:CA	C:97:ASN:HB3	0.518
4	C:178:PHE:CE1	C:185:ILE:CG2	0.518
4	C:234:TRP:CD2	D:117:LEU:CD1	0.518
4	C:249:ALA:O	C:301:VAL:HG13	0.518
4	C:389:ARG:HA	C:389:ARG:NE	0.518
4	D:33:ILE:HD11	F:55:SER:CB	0.518
4	D:100:VAL:O	D:116:GLY:HA2	0.518
4	D:120:ILE:O	D:120:ILE:HG23	0.518
4	D:292:PHE:CZ	D:311:HIS:HB3	0.518
4	A:203:CYS:O	A:204:ARG:HB2	0.517
4	C:107:VAL:HG12	C:128:VAL:HG13	0.517
4	C:124:ASN:HA	C:127:ARG:CD	0.517
4	C:173:ASP:HB3	C:254:ASN:ND2	0.517
4	C:270:LEU:C	C:270:LEU:HD22	0.517
4	C:335:THR:HB	C:338:LYS:NZ	0.517
4	D:49:ARG:HH12	D:84:SER:HB3	0.517
4	D:99:TRP:NE1	D:117:LEU:HD23	0.517
4	D:330:GLY:HA2	D:336:LEU:HD23	0.517
4	C:246:PHE:HD1	C:247:VAL:N	0.517

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:63:TRP:HD1	D:64:GLY:N	0.517
4	A:143:LEU:HD12	A:158:LEU:CB	0.516
4	A:287:ARG:HG3	B:1:HIS:NE2	0.516
4	C:56:ILE:C	C:56:ILE:HD13	0.516
4	C:57:VAL:HG13	C:177:TYR:CG	0.516
4	C:46:LEU:O	C:244:ILE:HD13	0.516
4	D:211:TRP:CZ3	D:218:CYS:N	0.516
4	A:99:ASP:CG	A:100:LEU:H	0.515
4	A:210:MET:CE	A:211:GLN:HE22	0.515
4	C:66:ASN:HB3	C:200:CYS:HA	0.515
4	C:95:ILE:O	C:95:ILE:HD12	0.515
4	C:96:LYS:HD3	C:142:PHE:CE2	0.515
4	C:248:VAL:CA	C:279:ASN:CA	0.515
4	C:274:ASP:HB2	C:344:GLU:CD	0.515
4	D:135:VAL:HG22	D:136:SER:O	0.515
4	D:180:PHE:HD1	D:211:TRP:CE3	0.515
4	F:105:THR:O	F:106:ARG:HB3	0.515
4	F:125:VAL:O	F:125:VAL:HG23	0.515
4	A:42:THR:O	A:49:TRP:HB3	0.514
4	A:232:LEU:HD22	C:384:GLN:HA	0.514
4	C:110:MET:O	C:111:SER:HB3	0.514
4	C:248:VAL:HB	C:279:ASN:N	0.514
4	C:260:ASP:HB2	C:307:LYS:N	0.514

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:267:GLN:CD	C:267:GLN:H	0.514
4	C:270:LEU:HG	C:345:PHE:CA	0.514
4	C:271:LYS:HB3	C:272:LEU:HD12	0.514
4	C:281:TRP:CE3	C:345:PHE:CZ	0.514
4	D:297:TRP:CE2	D:302:ALA:HB1	0.514
4	A:265:LYS:HB2	A:274:TRP:CH2	0.513
4	C:91:LYS:O	C:94:ASP:HB3	0.513
4	C:96:LYS:HD2	C:96:LYS:O	0.513
4	C:238:PHE:O	C:239:ASN:HB2	0.513
4	C:246:PHE:CE1	C:280:LYS:N	0.513
4	C:264:ASN:HB2	F:61:TYR:O	0.513
4	E:27:ARG:HD2	E:28:ILE:N	0.513
4	F:46:LEU:C	F:46:LEU:HD13	0.513
4	A:198:GLN:HE22	A:273:CYS:N	0.513
4	A:161:PHE:CD2	A:162:ALA:N	0.512
4	C:57:VAL:HG23	C:226:ALA:HB2	0.512
4	C:245:ILE:HB	C:288:ILE:HD12	0.512
4	C:246:PHE:CE2	C:289:LEU:CB	0.512
4	C:272:LEU:CD2	C:307:LYS:HD3	0.512
4	C:338:LYS:HA	C:341:ILE:HG12	0.512
4	C:342:ARG:O	C:346:LEU:HD23	0.512
4	D:73:ALA:HB2	D:79:LEU:CB	0.512
4	D:109:GLY:O	D:126:LEU:HD12	0.512

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:142:HIS:CE1	D:163:ASP:N	0.512
4	E:8:SER:OG	E:9:ILE:HD12	0.512
4	C:87:GLU:H	C:91:LYS:NZ	0.512
4	A:18:GLU:HA	A:18:GLU:OE1	0.511
4	A:86:LEU:HD12	A:89:GLN:HE22	0.511
4	A:260:PRO:CA	A:263:ILE:HG22	0.511
4	C:281:TRP:CD1	C:348:ILE:CG2	0.511
4	C:294:GLN:NE2	C:296:LEU:CB	0.511
4	F:12:LEU:CA	F:126:THR:HG21	0.511
4	A:143:LEU:CD2	A:144:LEU:H	0.511
4	A:178:LEU:HD21	B:11:SER:HA	0.510
4	C:50:GLU:CB	C:208:PHE:CZ	0.510
4	C:280:LYS:CE	C:281:TRP:N	0.510
4	C:343:ASP:CB	C:346:LEU:HD21	0.510
4	D:204:CYS:O	D:228:ASP:HA	0.510
4	D:286:LEU:CD2	D:296:VAL:HG13	0.510
4	F:30:PHE:CE2	F:73:ARG:CD	0.510
4	F:48:TRP:HB2	F:111:VAL:CG1	0.510
4	C:296:LEU:N	C:298:ALA:N	0.510
4	A:319:LYS:HG3	A:322:ILE:H	0.509
4	B:24:ALA:HB1	B:28:LYS:NZ	0.509
4	A:240:GLN:OE1	C:31:GLN:HG3	0.509
4	C:57:VAL:CG1	C:177:TYR:CE2	0.509

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:82:SER:C	C:91:LYS:HB2	0.509
4	C:131:ILE:HG12	C:146:PHE:CZ	0.509
4	C:271:LYS:HE2	C:307:LYS:NZ	0.509
4	C:293:LYS:HB2	C:301:VAL:CG2	0.509
4	C:308:ILE:HD11	F:39:ARG:NH1	0.509
4	C:345:PHE:CE1	C:349:SER:HB3	0.509
4	D:198:LEU:C	D:198:LEU:HD22	0.509
4	A:12:THR:CA	A:65:TYR:HE1	0.508
4	A:198:GLN:HG3	A:198:GLN:O	0.508
4	A:250:GLY:H	A:253:VAL:HG23	0.508
4	C:181:LYS:H22	C:183:ASP:HB3	0.508
4	C:266:LEU:HB3	C:348:ILE:HD12	0.508
4	C:229:ASP:CB	C:298:ALA:HB1	0.508
4	C:317:ARG:H	C:317:ARG:HD2	0.508
4	D:34:THR:O	D:35:ASN:HB2	0.508
4	D:285:LEU:HG	D:299:ALA:HB2	0.508
4	C:305:LYS:CD	F:44:LYS:HG2	0.508
4	F:13:VAL:N	F:126:THR:HG21	0.508
4	C:96:LYS:H23	C:100:LYS:CE	0.508
4	A:289:PRO:HA	A:292:PHE:HD2	0.507
4	C:244:ILE:C	C:288:ILE:HG22	0.507
4	C:247:VAL:CB	C:292:ASN:HB2	0.507
4	C:299:GLU:CD	C:307:LYS:H22	0.507

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:311:TYR:CG	C:312:PHE:N	0.507
4	C:363:PHE:CE2	C:366:ALA:N	0.507
4	D:211:TRP:NE1	D:216:GLY:HA2	0.507
4	C:297:LEU:O	C:301:VAL:N	0.507
4	A:9:LEU:C	A:9:LEU:HD13	0.506
4	A:13:VAL:CG1	A:191:TRP:HZ3	0.506
4	A:19:TYR:HE1	A:64:TRP:CZ3	0.506
4	A:124:ILE:O	A:125:TYR:HB3	0.506
4	C:10:GLU:HG2	C:18:ALA:HB1	0.506
4	C:53:LYS:HD3	C:252:SER:OG	0.506
4	C:81:ARG:HB3	C:88:LYS:O	0.506
4	C:202:VAL:CG1	C:203:LEU:N	0.506
4	C:51:SER:H	C:206:GLY:HA3	0.506
4	C:246:PHE:HB2	C:280:LYS:HG3	0.506
4	C:271:LYS:HE2	C:307:LYS:HZ1	0.506
4	C:290:PHE:CZ	C:364:THR:CB	0.506
4	C:231:ARG:NE	C:296:LEU:HD12	0.506
4	C:283:ARG:HH11	C:297:LEU:HD13	0.506
4	D:128:THR:HG21	D:132:ASN:O	0.506
4	D:230:ASN:ND2	D:274:THR:HG22	0.506
4	F:30:PHE:HB2	F:78:ASN:ND2	0.506
4	F:36:ASN:HB2	F:50:SER:O	0.506
4	F:69:PHE:HD2	F:82:LEU:HD12	0.506

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	F:94:VAL:CG1	F:96:TYR:CZ	0.506
4	A:117:GLN:CG	A:358:PHE:CE2	0.505
4	A:398:ARG:C	A:399:LEU:HD12	0.505
4	C:87:GLU:H	C:91:LYS:CE	0.505
4	C:270:LEU:CD1	C:348:ILE:HG22	0.505
4	C:289:LEU:CD2	C:345:PHE:CE2	0.505
4	C:308:ILE:CD1	F:49:VAL:HG22	0.505
4	C:346:LEU:C	C:348:ILE:H	0.505
4	D:69:LEU:HB2	D:81:ILE:CD1	0.505
4	C:237:CYS:SG	D:99:TRP:CH2	0.505
4	A:181:MET:SD	A:197:TYR:HD1	0.505
4	A:370:PHE:O	A:374:MET:HG3	0.504
4	C:46:LEU:HD21	C:181:LYS:CE	0.504
4	C:279:ASN:C	C:279:ASN:CB	0.504
4	C:281:TRP:CA	C:281:TRP:H	0.504
4	C:308:ILE:HG23	C:309:GLU:H	0.504
4	C:341:ILE:HA	C:344:GLU:CG	0.504
4	C:345:PHE:C	C:345:PHE:CD1	0.504
4	D:158:VAL:HG22	D:168:LEU:HD13	0.504
4	E:61:PHE:CG	E:62:ARG:N	0.504
4	A:43:PHE:CE1	A:48:CYS:HB2	0.503
4	C:46:LEU:HA	C:48:ALA:HB3	0.503
4	C:251:SER:HB3	C:302:LEU:CB	0.503

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:356:ARG:HB3	C:356:ARG:NH1	0.503
4	D:61:MET:HE1	D:329:THR:CA	0.503
4	D:118:ASP:CB	D:120:ILE:HG22	0.503
4	D:193:ALA:CB	D:194:PRO:HD2	0.503
4	D:241:PHE:HE1	D:255:LEU:HD11	0.503
4	D:259:GLN:HG2	D:260:GLU:N	0.503
4	F:40:GLN:HA	F:45:GLY:O	0.503
4	A:288:LEU:CD2	A:292:PHE:CZ	0.502
4	C:64:HIS:C	C:200:CYS:HB2	0.502
4	C:271:LYS:HD2	C:297:LEU:N	0.502
4	C:299:GLU:C	C:303:ALA:HA	0.502
4	C:308:ILE:CG2	C:309:GLU:N	0.502
4	D:57:LYS:CG	D:332:TRP:CD1	0.502
4	D:290:ASP:O	D:291:ASP:HB2	0.502
4	D:327:VAL:O	D:339:TRP:HB3	0.502
4	F:65:VAL:O	F:65:VAL:HG23	0.502
4	F:19:LEU:O	F:84:MET:HB3	0.502
4	C:261:ASN:CB	C:261:ASN:N	0.502
4	C:280:LYS:NZ	C:287:VAL:H	0.502
4	A:79:ARG:CD	A:87:TRP:CD1	0.501
4	A:411:LYS:HE2	C:352:SER:HA	0.501
4	C:202:VAL:CG1	C:203:LEU:H	0.501
4	C:273:PHE:HB3	C:344:GLU:OE1	0.501

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:198:LEU:HD23	D:211:TRP:H	0.501
4	D:206:ALA:HB2	D:227:SER:O	0.501
4	F:99:ARG:CB	F:118:TYR:CE1	0.501
4	C:60:MET:SD	C:61:ARG:N	0.501
4	A:19:TYR:CE2	A:23:CYS:SG	0.500
4	A:155:TYR:CE1	D:52:ARG:CZ	0.500
4	A:290:ILE:HG13	A:291:LEU:N	0.500
4	A:368:THR:O	A:369:SER:HB3	0.500
4	D:58:ILE:HD11	D:72:SER:CB	0.500
4	F:109:PHE:HD1	F:110:ASP:N	0.500
4	C:303:ALA:N	C:305:LYS:N	0.500
4	A:142:ILE:CD1	D:309:ALA:HB3	0.499
4	A:160:LEU:CD2	A:164:PHE:CE1	0.499
4	A:236:VAL:O	A:236:VAL:HG12	0.499
4	A:343:ILE:HG23	A:344:PHE:H	0.499
4	A:375:VAL:CG1	A:379:TYR:CE2	0.499
4	A:409:SER:HB3	A:414:LYS:HD2	0.499
4	C:58:LYS:CA	C:207:ILE:HD13	0.499
4	C:95:ILE:CD1	C:178:PHE:CD1	0.499
4	C:99:LEU:HD21	C:182:ILE:HD11	0.499
4	C:281:TRP:CG	C:282:LEU:H	0.499
4	C:289:LEU:HD22	C:345:PHE:CE2	0.499
4	C:231:ARG:HE	C:296:LEU:HD12	0.499

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:298:ALA:HA	C:301:VAL:CB	0.499
4	D:106:ALA:HB1	D:151:PHE:CE1	0.499
4	D:117:LEU:HD22	D:145:TYR:CB	0.499
4	F:99:ARG:CB	F:118:TYR:CD1	0.499
4	F:112:THR:CG2	F:116:TYR:CD2	0.499
4	A:182:TYR:C	B:14:LEU:HD11	0.498
4	A:288:LEU:HD21	A:292:PHE:CZ	0.498
4	C:54:ASN:ND2	C:207:ILE:CG2	0.498
4	C:207:ILE:O	C:208:PHE:CG	0.498
4	C:61:ARG:H	C:210:THR:HG22	0.498
4	C:291:LEU:HD11	C:341:ILE:CD1	0.498
4	C:305:LYS:HD3	F:44:LYS:CG	0.498
4	D:199:PHE:CZ	D:211:TRP:CB	0.498
4	D:207:SER:HB2	D:223:THR:CG2	0.498
4	D:264:TYR:HD1	D:297:TRP:CZ2	0.498
4	F:61:TYR:CE2	F:66:LYS:CG	0.498
4	A:12:THR:CA	A:65:TYR:CE1	0.497
4	A:21:ARG:O	A:24:GLN:HB3	0.497
4	A:44:ASP:HB3	A:98:ARG:HH22	0.497
4	A:197:TYR:O	A:198:GLN:HB3	0.497
4	C:234:TRP:CZ3	C:237:CYS:CB	0.497
4	C:232:ARG:H	C:235:ILE:CG2	0.497
4	C:246:PHE:CD2	C:345:PHE:HE2	0.497

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:273:PHE:C	C:275:SER:H	0.497
4	D:226:GLU:CB	F:28:PHE:CD1	0.497
4	D:284:LEU:HG	D:286:LEU:HD21	0.497
4	E:11:GLN:H	E:14:LYS:HD3	0.497
4	F:2:GLN:CD	F:3:VAL:H	0.497
4	F:61:TYR:CE2	F:66:LYS:CD	0.497
4	C:284:ASP:OD1	F:111:VAL:HG22	0.497
4	A:100:LEU:O	A:101:SER:HB2	0.496
4	A:165:ILE:HG23	A:166:LEU:N	0.496
4	C:50:GLU:CG	C:208:PHE:CZ	0.496
4	C:50:GLU:HB3	C:208:PHE:CZ	0.496
4	C:51:SER:CB	C:54:ASN:CB	0.496
4	C:260:ASP:HB2	C:307:LYS:CA	0.496
4	C:272:LEU:HG	C:307:LYS:CE	0.496
4	D:151:PHE:O	D:157:ILE:HA	0.496
4	D:256:ARG:HB3	E:28:ILE:CG2	0.496
4	E:46:LYS:C	E:46:LYS:HD2	0.496
4	C:308:ILE:N	F:47:GLU:CG	0.496
4	C:54:ASN:HD22	C:55:THR:N	0.496
4	C:247:VAL:CG1	C:292:ASN:N	0.496
4	A:23:CYS:SG	A:43:PHE:CE1	0.495
4	A:211:GLN:HG3	B:1:HIS:H1	0.495
4	A:221:LEU:HD12	A:336:LEU:O	0.495

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:61:ARG:CD	C:212:PHE:CD2	0.495
4	C:62:ILE:CG1	C:212:PHE:CE1	0.495
4	C:62:ILE:CG1	C:212:PHE:HE1	0.495
4	C:128:VAL:O	C:128:VAL:HG12	0.495
4	C:137:VAL:HG12	C:138:PRO:N	0.495
4	C:270:LEU:HD13	C:348:ILE:HG22	0.495
4	C:246:PHE:CB	C:280:LYS:CE	0.495
4	C:281:TRP:C	C:283:ARG:N	0.495
4	C:281:TRP:CB	C:345:PHE:CZ	0.495
4	C:296:LEU:HA	C:298:ALA:HB3	0.495
4	C:249:ALA:N	C:301:VAL:CG2	0.495
4	C:308:ILE:HD13	F:49:VAL:HG22	0.495
4	C:312:PHE:CG	C:313:PRO:N	0.495
4	D:142:HIS:CD2	D:146:LEU:CD2	0.495
4	F:6:GLN:O	F:23:CYS:HA	0.495
4	F:34:LYS:NZ	F:106:ARG:HA	0.495
4	A:265:LYS:HZ1	A:274:TRP:NE1	0.495
4	A:43:PHE:HD1	A:48:CYS:CB	0.494
4	C:53:LYS:CG	C:226:ALA:HB1	0.494
4	C:231:ARG:CD	C:235:ILE:HD13	0.494
4	C:270:LEU:HD22	C:283:ARG:HH21	0.494
4	C:289:LEU:HD13	C:345:PHE:CD2	0.494
4	D:126:LEU:N	D:126:LEU:HD23	0.494

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:339:TRP:CG	D:340:ASN:N	0.494
4	D:292:PHE:HD2	D:313:ASN:N	0.494
4	A:279:ASN:CB	A:282:TYR:CD1	0.493
4	A:335:PRO:HD2	A:374:MET:HE2	0.493
4	A:399:LEU:HG	A:410:MET:HE2	0.493
4	C:48:ALA:HB1	C:294:GLN:C	0.493
4	C:122:PRO:O	C:123:GLU:HB2	0.493
4	C:163:TYR:HE2	C:176:GLN:CG	0.493
4	C:178:PHE:O	C:182:ILE:HG13	0.493
4	D:99:TRP:CD1	D:117:LEU:HD23	0.493
4	A:340:HIS:HB3	A:367:PHE:CE2	0.492
4	C:46:LEU:CD1	C:293:LYS:HG2	0.492
4	C:83:ASN:C	C:85:ASP:H	0.492
4	C:277:TRP:CD1	C:341:ILE:CD1	0.492
4	C:296:LEU:CG	F:109:PHE:CD2	0.492
4	D:234:PHE:CA	D:241:PHE:CD2	0.492
4	A:36:ASP:CG	A:37:LEU:H	0.491
4	C:45:LEU:HB3	C:184:VAL:HG11	0.491
4	C:87:GLU:H	C:91:LYS:HE3	0.491
4	C:159:VAL:O	C:162:CYS:HB2	0.491
4	C:224:VAL:HG13	C:227:GLN:NE2	0.491
4	C:231:ARG:HD2	C:235:ILE:CB	0.491
4	D:190:LEU:HD23	D:200:VAL:O	0.491

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:225:HIS:CD2	D:245:SER:HB3	0.491
4	E:4:ASN:HA	F:119:ARG:HH22	0.491
4	F:61:TYR:CB	F:69:PHE:CE1	0.491
4	A:16:TRP:CZ3	A:17:ARG:NE	0.490
4	A:143:LEU:HD22	A:144:LEU:N	0.490
4	A:219:TYR:HD2	A:250:GLY:HA2	0.490
4	B:10:VAL:C	B:12:SER:H	0.490
4	C:68:PHE:CG	C:199:ARG:CG	0.490
4	C:72:GLY:H	C:93:GLN:C	0.490
4	C:244:ILE:HD11	C:286:SER:CB	0.490
4	C:260:ASP:HB3	C:307:LYS:H	0.490
4	C:271:LYS:HA	C:283:ARG:NE	0.490
4	C:281:TRP:CE3	C:345:PHE:CE1	0.490
4	C:296:LEU:CA	C:298:ALA:HB2	0.490
4	D:80:ILE:CG2	D:82:TRP:CZ3	0.490
4	D:118:ASP:O	D:119:ASN:HB3	0.490
4	D:241:PHE:HE1	D:255:LEU:HD21	0.490
4	F:40:GLN:HG3	F:44:LYS:HZ3	0.490
4	C:110:MET:SD	C:111:SER:N	0.490
4	A:138:ILE:HG21	D:42:ARG:CD	0.489
4	A:140:SER:O	A:143:LEU:HB3	0.489
4	C:82:SER:H	C:87:GLU:HB3	0.489
4	C:178:PHE:CZ	C:185:ILE:CG2	0.489

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:231:ARG:HG2	C:296:LEU:CD1	0.489
4	C:234:TRP:CD2	D:117:LEU:HD11	0.489
4	D:57:LYS:CB	D:332:TRP:CD1	0.489
4	E:54:VAL:CB	E:55:PRO:CD	0.489
4	A:307:ILE:HG23	A:308:VAL:N	0.488
4	A:381:PHE:HE1	A:385:GLU:HB2	0.488
4	A:399:LEU:HD12	A:410:MET:CE	0.488
4	C:60:MET:HB2	C:185:ILE:O	0.488
4	C:59:GLN:N	C:184:VAL:CG1	0.488
4	C:273:PHE:HB3	C:344:GLU:CD	0.488
4	C:314:GLU:HG2	F:66:LYS:HE2	0.488
4	D:22:ARG:O	D:25:CYS:HB2	0.488
4	D:100:VAL:CG2	D:101:MET:N	0.488
4	D:239:ASN:O	D:240:ALA:HB2	0.488
4	F:30:PHE:HD1	F:33:TYR:CZ	0.488
4	A:68:TRP:NE1	A:106:SER:H	0.488
4	F:126:THR:CG2	F:127:VAL:N	0.488
4	C:50:GLU:CB	C:208:PHE:CE2	0.487
4	C:59:GLN:CD	C:221:MET:HB3	0.487
4	C:57:VAL:CA	C:177:TYR:CE2	0.487
4	C:51:SER:OG	C:207:ILE:HD12	0.487
4	C:245:ILE:HD11	C:290:PHE:CB	0.487
4	C:261:ASN:ND2	C:276:ILE:HD12	0.487

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:298:ALA:CA	C:301:VAL:H	0.487
4	C:326:PRO:O	C:327:GLU:HB3	0.487
4	D:112:VAL:HG23	D:126:LEU:HD21	0.487
4	D:222:PHE:CZ	D:260:GLU:HB3	0.487
4	D:234:PHE:CB	D:241:PHE:CE2	0.487
4	E:14:LYS:HD2	E:14:LYS:N	0.487
4	A:258:VAL:HG13	A:261:TRP:NE1	0.486
4	A:264:VAL:CG1	A:282:TYR:HD2	0.486
4	A:335:PRO:CG	A:367:PHE:CZ	0.486
4	C:46:LEU:HB3	C:293:LYS:O	0.486
4	C:51:SER:HB3	C:54:ASN:HB2	0.486
4	C:55:THR:CG2	C:56:ILE:N	0.486
4	C:56:ILE:HD11	C:174:CYS:CB	0.486
4	C:163:TYR:CE2	C:176:GLN:HB3	0.486
4	C:69:ASN:O	C:198:LEU:HD23	0.486
4	C:304:GLY:CA	F:113:SER:HB3	0.486
4	D:326:ALA:HB1	D:339:TRP:O	0.486
4	F:47:GLU:HG2	F:48:TRP:N	0.486
4	A:98:ARG:HE	A:100:LEU:HD11	0.485
4	A:244:ARG:O	A:247:VAL:HG22	0.485
4	C:106:ILE:HG13	C:107:VAL:H	0.485
4	C:261:ASN:C	C:261:ASN:CG	0.485
4	C:289:LEU:HD12	C:361:PRO:N	0.485

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:364:THR:HG23	C:365:CYS:H	0.485
4	D:139:LEU:CB	D:169:TRP:CE3	0.485
4	D:198:LEU:C	D:198:LEU:HD13	0.485
4	D:226:GLU:CG	F:28:PHE:CD1	0.485
4	E:48:ASP:OD1	E:49:PRO:HD2	0.485
4	F:33:TYR:CE1	F:35:MET:HB3	0.485
4	F:35:MET:HE3	F:36:ASN:HA	0.485
4	F:84:MET:CE	F:87:LEU:HD13	0.485
4	A:236:VAL:HG22	C:39:ALA:O	0.484
4	C:75:GLU:HB3	C:252:SER:OG	0.484
4	C:143:PRO:HG2	C:145:GLU:HB2	0.484
4	C:54:ASN:ND2	C:207:ILE:CG1	0.484
4	C:248:VAL:CA	C:279:ASN:HA	0.484
4	C:263:THR:HA	C:269:ALA:HB1	0.484
4	D:27:ASP:CG	D:28:ALA:H	0.484
4	D:49:ARG:CZ	D:338:ILE:HG13	0.484
4	D:86:THR:HG23	D:88:ASN:HB3	0.484
4	D:164:THR:HG21	D:184:THR:C	0.484
4	D:198:LEU:O	D:198:LEU:HD13	0.484
4	E:48:ASP:CG	E:50:LEU:H	0.484
4	F:33:TYR:CB	F:99:ARG:HE	0.484
4	C:59:GLN:NE2	C:221:MET:SD	0.484
4	D:293:ASN:ND2	D:294:CYS:N	0.484

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:43:LEU:HD12	C:375:VAL:HG11	0.483
4	C:84:SER:HB2	C:94:ASP:OD2	0.483
4	C:177:TYR:CD2	C:178:PHE:CA	0.483
4	C:177:TYR:OH	C:181:LYS:HB2	0.483
4	C:247:VAL:CG1	C:290:PHE:CD2	0.483
4	C:280:LYS:CB	C:294:GLN:HB2	0.483
4	C:280:LYS:CD	C:286:SER:HB2	0.483
4	C:289:LEU:HB2	C:360:TYR:O	0.483
4	D:51:LEU:HD11	D:82:TRP:CE2	0.483
4	D:80:ILE:CG2	D:82:TRP:CE3	0.483
4	D:152:LEU:O	D:153:ASP:HB2	0.483
4	D:198:LEU:HD23	D:211:TRP:N	0.483
4	E:63:GLU:OE2	E:71:LEU:HG	0.483
4	F:30:PHE:CB	F:78:ASN:ND2	0.483
4	F:30:PHE:CD1	F:33:TYR:CZ	0.483
4	F:38:VAL:H	F:95:TYR:HE1	0.483
4	D:85:TYR:CG	D:86:THR:N	0.483
4	C:53:LYS:HG3	C:226:ALA:HB1	0.482
4	C:73:GLY:CA	C:97:ASN:CB	0.482
4	C:331:ASP:OD2	C:332:PRO:HD2	0.482
4	D:183:HIS:CE1	D:209:LYS:CG	0.482
4	D:183:HIS:HE1	D:209:LYS:HG2	0.482
4	E:15:LEU:HD13	E:19:LEU:HD13	0.482

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	F:96:TYR:CE1	F:119:ARG:NH2	0.482
4	F:99:ARG:HD3	F:118:TYR:CE2	0.482
4	D:317:CYS:SG	D:318:LEU:N	0.482
4	A:87:TRP:CE3	A:96:PRO:HG2	0.481
4	A:146:PHE:CB	D:335:PHE:CD1	0.481
4	A:152:THR:CA	A:155:TYR:HD1	0.481
4	A:222:LEU:HA	A:297:ASN:OD1	0.481
4	A:279:ASN:HB3	A:282:TYR:CD1	0.481
4	A:377:ILE:HG13	A:378:LEU:N	0.481
4	C:66:ASN:CG	C:67:GLY:H	0.481
4	C:82:SER:N	C:87:GLU:HB3	0.481
4	C:92:VAL:O	C:93:GLN:HB2	0.481
4	D:58:ILE:HG23	D:331:SER:O	0.481
4	C:42:ARG:NH2	D:76:ASP:HA	0.481
4	D:229:ILE:HD13	D:243:THR:HG23	0.481
4	D:297:TRP:HE1	D:302:ALA:HB2	0.481
4	D:293:ASN:HD21	D:307:VAL:CG1	0.481
4	F:29:THR:HG23	F:30:PHE:N	0.481
4	F:35:MET:HE3	F:36:ASN:N	0.481
4	F:59:ILE:HD12	F:71:ILE:CG2	0.481
4	F:99:ARG:O	F:101:PRO:HD3	0.481
4	C:280:LYS:NZ	C:287:VAL:N	0.481
4	A:118:LEU:HA	A:121:LEU:HD12	0.480

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:273:CYS:SG	A:275:THR:CG2	0.480
4	B:21:GLU:HA	B:21:GLU:OE1	0.480
4	C:84:SER:H	C:91:LYS:HE3	0.480
4	C:96:LYS:NZ	C:100:LYS:HE3	0.480
4	C:246:PHE:C	C:246:PHE:CD1	0.480
4	C:246:PHE:HB2	C:280:LYS:HD3	0.480
4	C:282:LEU:HD12	C:394:LEU:O	0.480
4	D:119:ASN:ND2	D:142:HIS:HB3	0.480
4	C:233:LYS:NZ	D:188:MET:HA	0.480
4	D:328:ALA:HA	D:337:LYS:O	0.480
4	C:280:LYS:HZ1	C:287:VAL:N	0.480
4	C:236:GLN:CG	D:314:ARG:HH11	0.480
4	A:16:TRP:CH2	A:17:ARG:NH2	0.479
4	A:409:SER:HB2	F:58:SER:O	0.479
4	C:46:LEU:CB	C:48:ALA:HB2	0.479
4	C:58:LYS:HA	C:207:ILE:HD13	0.479
4	C:141:ASP:O	C:143:PRO:HD3	0.479
4	C:54:ASN:HD22	C:207:ILE:HG13	0.479
4	C:234:TRP:CG	D:117:LEU:CD1	0.479
4	D:225:HIS:CD2	D:227:SER:N	0.479
4	D:249:THR:CG2	D:251:ARG:HG3	0.479
4	D:327:VAL:H	D:339:TRP:HD1	0.479
4	C:285:THR:N	C:294:GLN:NE2	0.479

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	F:35:MET:SD	F:97:CYS:SG	0.479
4	A:257:PHE:O	A:260:PRO:HD2	0.478
4	C:58:LYS:CG	C:207:ILE:HG12	0.478
4	C:264:ASN:N	C:269:ALA:CB	0.478
4	D:271:CYS:SG	D:291:ASP:HB2	0.478
4	D:304:ARG:HE	D:307:VAL:HG22	0.478
4	A:229:TYR:CD1	A:303:ARG:CD	0.477
4	A:307:ILE:HD11	C:384:GLN:HG3	0.477
4	A:386:VAL:CG1	A:390:PHE:HE2	0.477
4	C:289:LEU:HD11	C:359:CYS:HB2	0.477
4	C:312:PHE:CD2	C:313:PRO:N	0.477
4	C:331:ASP:HB3	C:334:VAL:HG23	0.477
4	D:57:LYS:HD2	D:332:TRP:CD1	0.477
4	D:199:PHE:CZ	D:211:TRP:CG	0.477
4	D:311:HIS:CE1	D:337:LYS:HD2	0.477
4	F:37:TRP:HD1	F:49:VAL:HB	0.477
4	A:212:TYR:O	A:216:ALA:HB2	0.476
4	A:427:GLY:C	A:429:SER:H	0.476
4	C:117:VAL:O	C:118:GLU:HG2	0.476
4	C:151:LYS:HE2	C:368:ASP:OD2	0.476
4	C:147:TYR:HD2	C:182:ILE:CG2	0.476
4	C:144:PRO:CD	C:194:ASP:HB2	0.476
4	C:241:VAL:HG21	C:244:ILE:HG22	0.476

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:280:LYS:NZ	C:286:SER:CB	0.476
4	C:299:GLU:CG	F:111:VAL:HB	0.476
4	C:307:LYS:C	F:47:GLU:CB	0.476
4	D:81:ILE:O	D:90:VAL:HB	0.476
4	D:251:ARG:HD2	D:260:GLU:OE1	0.476
4	F:109:PHE:C	F:109:PHE:CD1	0.476
4	D:293:ASN:HD21	D:308:LEU:N	0.476
4	A:39:CYS:HG	A:87:TRP:CD1	0.475
4	C:82:SER:HB3	C:91:LYS:HB3	0.475
4	C:84:SER:CA	C:91:LYS:CD	0.475
4	C:46:LEU:CD1	C:293:LYS:HE2	0.475
4	C:296:LEU:CA	C:298:ALA:CB	0.475
4	C:306:SER:CA	F:45:GLY:CA	0.475
4	C:316:ALA:HB3	C:317:ARG:HH11	0.475
4	D:325:MET:SD	E:54:VAL:CG2	0.475
4	C:155:GLU:CG	C:156:ASP:N	0.475
4	A:158:LEU:HD12	A:159:ASN:CA	0.474
4	C:6:ASN:O	C:7:SER:HB2	0.474
4	C:206:GLY:HA3	C:208:PHE:HE2	0.474
4	C:248:VAL:H	C:292:ASN:C	0.474
4	C:299:GLU:HG2	F:111:VAL:CG2	0.474
4	D:49:ARG:HB3	D:338:ILE:HG21	0.474
4	D:77:GLY:HA2	D:95:LEU:HD12	0.474

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:85:TYR:CD1	E:61:PHE:C	0.474
4	D:190:LEU:HD22	D:191:SER:O	0.474
4	A:23:CYS:SG	A:48:CYS:CB	0.473
4	A:413:LEU:HD13	D:34:THR:OG1	0.473
4	C:56:ILE:HG12	C:98:ASN:HB2	0.473
4	C:95:ILE:CG2	C:96:LYS:N	0.473
4	C:281:TRP:HA	C:345:PHE:HZ	0.473
4	D:61:MET:HB2	D:70:LEU:CD2	0.473
4	D:199:PHE:CZ	D:211:TRP:CD1	0.473
4	D:231:ALA:HB3	D:275:SER:HA	0.473
4	E:23:ALA:O	E:24:ASN:HB3	0.473
4	E:39:ALA:O	E:40:TYR:HB2	0.473
4	F:65:VAL:CG2	F:69:PHE:CD1	0.473
4	C:228:ARG:NH2	F:114:THR:HG23	0.473
4	C:341:ILE:O	C:341:ILE:HG13	0.473
4	A:46:TYR:CZ	A:63:PRO:HG2	0.472
4	A:413:LEU:HB2	D:34:THR:OG1	0.472
4	C:46:LEU:HD11	C:181:LYS:CG	0.472
4	C:180:ASP:HB2	C:248:VAL:O	0.472
4	C:247:VAL:CA	C:292:ASN:H	0.472
4	C:247:VAL:CG1	C:290:PHE:HB3	0.472
4	C:293:LYS:CD	C:295:ASP:HA	0.472
4	C:251:SER:N	C:302:LEU:HB3	0.472

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:80:ILE:HG23	D:82:TRP:CE3	0.472
4	D:111:TYR:CZ	D:113:ALA:HB2	0.472
4	D:139:LEU:HB2	D:169:TRP:CE3	0.472
4	D:255:LEU:N	D:255:LEU:HD23	0.472
4	F:21:LEU:HG	F:22:SER:N	0.472
4	C:285:THR:CG2	C:286:SER:N	0.472
4	D:338:ILE:CG2	D:339:TRP:N	0.472
4	A:13:VAL:HG23	A:14:GLN:N	0.471
4	A:20:ARG:C	A:20:ARG:HD2	0.471
4	A:381:PHE:CE1	A:385:GLU:CB	0.471
4	C:51:SER:CB	C:207:ILE:CD1	0.471
4	C:52:GLY:HA3	D:119:ASN:HB2	0.471
4	C:53:LYS:CB	C:75:GLU:HG2	0.471
4	C:206:GLY:CA	C:208:PHE:CE2	0.471
4	C:247:VAL:HA	C:290:PHE:O	0.471
4	C:254:ASN:HB2	C:305:LYS:CG	0.471
4	C:278:ASN:HB2	C:291:LEU:HD22	0.471
4	C:280:LYS:CA	C:283:ARG:CZ	0.471
4	C:294:GLN:C	C:296:LEU:N	0.471
4	C:303:ALA:HB3	C:305:LYS:N	0.471
4	C:266:LEU:CD1	C:348:ILE:HD11	0.471
4	D:149:CYS:SG	D:157:ILE:CD1	0.471
4	D:167:ALA:CB	D:176:GLN:NE2	0.471

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:197:ARG:C	D:197:ARG:HD3	0.471
4	D:292:PHE:CE1	D:315:VAL:CG2	0.471
4	D:320:VAL:HG12	D:321:THR:N	0.471
4	F:12:LEU:HB3	F:126:THR:CG2	0.471
4	D:226:GLU:CG	F:28:PHE:CE1	0.471
4	F:37:TRP:CD1	F:49:VAL:HB	0.471
4	C:187:GLN:H	C:189:ASP:H	0.471
4	C:280:LYS:N	C:283:ARG:NH1	0.471
4	A:71:SER:HB2	A:108:ARG:HD2	0.470
4	A:143:LEU:CG	A:144:LEU:H	0.470
4	C:54:ASN:CG	C:207:ILE:HG13	0.470
4	C:103:ILE:CG2	C:104:GLU:N	0.470
4	C:188:ALA:HB1	C:372:ILE:HG12	0.470
4	C:241:VAL:HG23	C:244:ILE:HG22	0.470
4	C:284:ASP:HB2	C:296:LEU:CD1	0.470
4	C:290:PHE:CZ	C:364:THR:CG2	0.470
4	C:284:ASP:HB3	C:296:LEU:HD13	0.470
4	C:308:ILE:HB	F:62:THR:CG2	0.470
4	C:363:PHE:HE2	C:366:ALA:CB	0.470
4	D:222:PHE:CG	D:253:PHE:CE1	0.470
4	D:264:TYR:CD1	D:297:TRP:CD2	0.470
4	D:323:ASP:HB2	E:55:PRO:HG3	0.470
4	F:34:LYS:HZ3	F:106:ARG:HA	0.470

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:238:PHE:HD2	C:239:ASN:H	0.470
4	A:148:HIS:C	D:312:ASP:HB2	0.469
4	A:182:TYR:CZ	A:194:LEU:HD21	0.469
4	A:340:HIS:O	A:343:ILE:HG22	0.469
4	C:55:THR:HA	C:58:LYS:CG	0.469
4	C:231:ARG:CG	C:232:ARG:N	0.469
4	C:294:GLN:CB	C:297:LEU:CB	0.469
4	C:303:ALA:HB2	C:305:LYS:C	0.469
4	D:33:ILE:HA	F:54:GLN:OE1	0.469
4	C:83:ASN:C	C:85:ASP:N	0.468
4	C:151:LYS:HD3	C:187:GLN:CB	0.468
4	C:223:ASP:CG	C:224:VAL:N	0.468
4	C:254:ASN:HB2	C:305:LYS:HG3	0.468
4	C:267:GLN:CG	C:281:TRP:CD1	0.468
4	C:271:LYS:NZ	C:272:LEU:CD1	0.468
4	C:251:SER:N	C:302:LEU:CB	0.468
4	C:343:ASP:HA	C:346:LEU:HD23	0.468
4	C:363:PHE:CE2	C:366:ALA:HB2	0.468
4	A:144:LEU:CA	D:47:THR:HB	0.468
4	C:177:TYR:HE1	C:293:LYS:CD	0.468
4	C:55:THR:HG1	C:95:ILE:H	0.468
4	A:65:TYR:O	A:66:LEU:HB2	0.467
4	A:78:TYR:CG	A:79:ARG:N	0.467

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:136:LEU:CD1	A:161:PHE:CD1	0.467
4	A:375:VAL:HG12	A:379:TYR:CE2	0.467
4	A:406:ARG:HB2	A:408:SER:O	0.467
4	A:411:LYS:HE2	C:352:SER:H	0.467
4	C:84:SER:H	C:91:LYS:CE	0.467
4	C:208:PHE:C	C:208:PHE:CD1	0.467
4	C:321:PRO:HG2	C:324:ALA:CB	0.467
4	D:82:TRP:NE1	D:89:LYS:HG2	0.467
4	D:142:HIS:HB3	D:146:LEU:HD21	0.467
4	D:251:ARG:CB	D:251:ARG:NH1	0.467
4	D:292:PHE:HD2	D:313:ASN:C	0.467
4	D:318:LEU:HD11	D:327:VAL:CG1	0.467
4	D:311:HIS:NE2	D:329:THR:CG2	0.467
4	D:329:THR:CG2	D:337:LYS:HB3	0.467
4	F:52:ILE:HD12	F:59:ILE:N	0.467
4	A:49:TRP:CH2	A:58:VAL:HB	0.466
4	C:53:LYS:CD	C:226:ALA:HB1	0.466
4	C:224:VAL:HG11	C:295:ASP:CB	0.466
4	C:247:VAL:O	C:280:LYS:HG3	0.466
4	C:42:ARG:HH22	D:76:ASP:CA	0.466
4	D:121:CYS:O	D:138:GLU:HB2	0.466
4	D:139:LEU:N	D:139:LEU:HD23	0.466
4	D:299:ALA:O	D:300:LEU:HB3	0.466

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	B:5:THR:CG2	B:6:PHE:N	0.466
4	C:317:ARG:N	C:317:ARG:NH1	0.466
4	C:53:LYS:HE2	D:143:THR:C	0.465
4	C:264:ASN:H	C:269:ALA:HB1	0.465
4	C:248:VAL:CB	C:279:ASN:CA	0.465
4	C:291:LEU:HD11	C:341:ILE:HD11	0.465
4	D:151:PHE:CZ	D:153:ASP:C	0.465
4	D:292:PHE:CD2	D:312:ASP:C	0.465
4	F:38:VAL:HG11	F:46:LEU:HD11	0.465
4	F:50:SER:HB2	F:69:PHE:CE2	0.465
4	D:225:HIS:HD2	D:227:SER:N	0.465
4	A:68:TRP:CH2	A:105:GLU:HG3	0.464
4	C:57:VAL:HB	C:226:ALA:N	0.464
4	C:177:TYR:CD1	C:250:SER:CA	0.464
4	C:191:VAL:HG22	C:192:PRO:HD3	0.464
4	D:72:SER:HB2	D:82:TRP:HZ3	0.464
4	D:80:ILE:CG2	D:82:TRP:CD2	0.464
4	D:296:VAL:CG1	D:297:TRP:N	0.464
4	C:276:ILE:CG2	C:277:TRP:N	0.464
4	A:9:LEU:O	A:9:LEU:HD13	0.463
4	A:15:LYS:HG2	A:65:TYR:HA	0.463
4	A:236:VAL:O	A:237:LEU:HB2	0.463
4	A:239:GLU:HG2	A:240:GLN:H	0.463

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:359:ILE:CG2	A:360:LYS:N	0.463
4	C:53:LYS:CD	D:143:THR:HB	0.463
4	C:57:VAL:HG12	C:224:VAL:O	0.463
4	C:62:ILE:HG23	C:190:TYR:CB	0.463
4	D:292:PHE:CE2	D:331:SER:CB	0.463
4	E:16:VAL:HG23	E:17:GLU:N	0.463
4	D:325:MET:CB	E:54:VAL:HG21	0.463
4	F:5:LEU:HD11	F:120:GLY:N	0.463
4	F:12:LEU:O	F:13:VAL:HG13	0.463
4	A:198:GLN:NE2	A:272:GLY:CA	0.463
4	C:289:LEU:CD2	C:289:LEU:N	0.463
4	C:304:GLY:N	F:113:SER:CB	0.463
4	C:11:ASP:C	C:15:GLU:HG3	0.462
4	C:55:THR:HA	C:58:LYS:HG2	0.462
4	C:241:VAL:HG23	C:244:ILE:CG2	0.462
4	D:120:ILE:HD13	D:121:CYS:N	0.462
4	D:142:HIS:CE1	D:161:SER:CB	0.462
4	C:99:LEU:CD2	C:178:PHE:HD2	0.462
4	A:398:ARG:CA	A:398:ARG:HE	0.462
4	D:173:THR:CG2	D:174:GLY:N	0.462
4	F:99:ARG:HG2	F:100:CYS:N	0.462
4	A:9:LEU:O	A:13:VAL:HG13	0.461
4	A:319:LYS:CG	A:322:ILE:H	0.461

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:30:LEU:HD12	C:33:ASP:CG	0.461
4	C:105:THR:HG23	C:106:ILE:N	0.461
4	C:183:ASP:OD1	C:184:VAL:HG23	0.461
4	C:280:LYS:CA	C:283:ARG:NE	0.461
4	D:180:PHE:CE1	D:209:LYS:NZ	0.461
4	D:325:MET:SD	E:54:VAL:HG23	0.461
4	F:89:PRO:CA	F:127:VAL:CG1	0.461
4	C:275:SER:N	C:279:ASN:HD21	0.461
4	A:32:PRO:HA	A:33:PRO:HD2	0.460
4	A:72:VAL:HG13	A:73:PRO:O	0.460
4	A:282:TYR:CD1	A:282:TYR:N	0.460
4	A:368:THR:HA	A:371:GLN:HG3	0.460
4	C:41:HIS:CE1	C:379:CYS:CB	0.460
4	C:45:LEU:HA	C:45:LEU:HD12	0.460
4	C:81:ARG:HB2	C:90:THR:CG2	0.460
4	C:269:ALA:N	C:272:LEU:CD1	0.460
4	D:39:PRO:CA	D:268:ASN:HB3	0.460
4	D:80:ILE:HG21	D:82:TRP:CH2	0.460
4	D:178:THR:HG23	D:179:THR:N	0.460
4	D:180:PHE:CE1	D:211:TRP:CZ3	0.460
4	D:222:PHE:CD1	D:253:PHE:CD1	0.460
4	F:34:LYS:HG2	F:53:SER:HA	0.460
4	A:258:VAL:O	A:261:TRP:HD1	0.460

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:253:VAL:N	A:254:PRO:CD	0.460
4	A:343:ILE:CG2	A:344:PHE:N	0.460
4	C:372:ILE:CG2	C:373:ARG:N	0.460
4	D:276:VAL:CG1	D:277:SER:N	0.460
4	A:150:HIS:HA	D:333:ASP:OD2	0.459
4	A:315:ASN:O	A:316:LEU:HB2	0.459
4	C:64:HIS:C	C:200:CYS:CB	0.459
4	C:76:ASP:CB	C:77:PRO:HD3	0.459
4	C:220:HIS:CE1	C:222:PHE:CZ	0.459
4	C:231:ARG:HG2	F:109:PHE:HD2	0.459
4	C:279:ASN:O	C:280:LYS:HB3	0.459
4	D:223:THR:HB	F:2:GLN:CG	0.459
4	D:226:GLU:CD	F:28:PHE:CG	0.459
4	F:61:TYR:CE2	F:66:LYS:HG3	0.459
4	F:88:LYS:HG3	F:90:GLU:H	0.459
4	F:97:CYS:SG	F:98:ALA:N	0.459
4	C:183:ASP:HA	C:186:LYS:O	0.458
4	C:231:ARG:HG2	F:109:PHE:CD2	0.458
4	C:258:ARG:O	C:259:GLU:HG3	0.458
4	C:282:LEU:HA	C:286:SER:N	0.458
4	C:280:LYS:HE3	C:286:SER:HB2	0.458
4	C:290:PHE:CE1	C:371:ASN:CG	0.458
4	C:392:GLU:O	C:393:LEU:HD13	0.458

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:83:ASP:HB3	E:58:GLU:OE1	0.458
4	D:95:LEU:CD2	D:114:CYS:SG	0.458
4	D:292:PHE:CD2	D:313:ASN:C	0.458
4	D:297:TRP:NE1	D:302:ALA:CB	0.458
4	D:293:ASN:OD1	D:309:ALA:HA	0.458
4	F:61:TYR:CZ	F:66:LYS:CD	0.458
4	C:76:ASP:N	C:77:PRO:CD	0.458
4	A:288:LEU:CD2	A:292:PHE:CE2	0.457
4	C:48:ALA:CB	C:294:GLN:C	0.457
4	C:99:LEU:CG	C:178:PHE:CE2	0.457
4	C:369:THR:CG2	C:370:GLU:N	0.457
4	D:167:ALA:CB	D:169:TRP:NE1	0.457
4	C:83:ASN:N	C:87:GLU:N	0.457
4	A:143:LEU:HD11	A:158:LEU:HB3	0.456
4	A:160:LEU:CD2	A:164:PHE:HE1	0.456
4	C:62:ILE:CG2	C:190:TYR:CB	0.456
4	C:59:GLN:N	C:184:VAL:C	0.456
4	C:241:VAL:O	C:241:VAL:HG23	0.456
4	C:246:PHE:HB3	C:280:LYS:NZ	0.456
4	C:264:ASN:H	C:269:ALA:CB	0.456
4	C:247:VAL:HB	C:292:ASN:HB2	0.456
4	D:124:TYR:HB3	D:133:VAL:HG12	0.456
4	D:234:PHE:HB3	D:241:PHE:HE2	0.456

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	F:40:GLN:HG2	F:45:GLY:O	0.456
4	A:392:LYS:C	A:392:LYS:HD2	0.455
4	C:84:SER:CB	C:91:LYS:CD	0.455
4	C:41:HIS:CG	C:242:THR:HG23	0.455
4	C:268:ALA:CB	C:271:LYS:HD3	0.455
4	C:284:ASP:CB	C:296:LEU:HD22	0.455
4	C:245:ILE:HB	C:288:ILE:HG23	0.455
4	C:391:TYR:CA	C:391:TYR:O	0.455
4	D:80:ILE:CG2	D:82:TRP:CH2	0.455
4	D:142:HIS:CD2	D:144:GLY:C	0.455
4	C:233:LYS:HZ3	D:147:SER:HB2	0.455
4	D:199:PHE:CE2	D:211:TRP:HB3	0.455
4	A:398:ARG:HD3	A:399:LEU:H	0.454
4	C:24:LYS:HA	C:24:LYS:HD2	0.454
4	C:248:VAL:CB	C:279:ASN:HA	0.454
4	D:152:LEU:HD22	D:196:THR:CG2	0.454
4	F:112:THR:HG23	F:116:TYR:HD2	0.454
4	A:161:PHE:C	A:161:PHE:CD2	0.453
4	C:153:LEU:CG	C:159:VAL:HG21	0.453
4	C:241:VAL:CG2	C:244:ILE:CG2	0.453
4	C:294:GLN:HB2	C:297:LEU:CB	0.453
4	C:308:ILE:CD1	F:49:VAL:CG2	0.453
4	C:315:PHE:O	C:318:TYR:HB3	0.453

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:383:ILE:HG23	C:384:GLN:N	0.453
4	D:178:THR:HG23	D:179:THR:H	0.453
4	D:226:GLU:OE1	F:28:PHE:HB2	0.453
4	F:30:PHE:CZ	F:73:ARG:HD3	0.453
4	F:38:VAL:CG1	F:46:LEU:CD1	0.453
4	F:40:GLN:CG	F:41:ALA:N	0.453
4	D:289:TYR:HD1	D:290:ASP:O	0.453
4	C:4:LEU:HA	C:4:LEU:HD23	0.452
4	C:95:ILE:HG12	C:185:ILE:HG21	0.452
4	C:181:LYS:HE3	C:247:VAL:HG21	0.452
4	C:244:ILE:CD1	C:287:VAL:N	0.452
4	C:280:LYS:HD2	C:286:SER:CB	0.452
4	D:77:GLY:CA	D:95:LEU:HD12	0.452
4	D:83:ASP:OD2	D:86:THR:HG23	0.452
4	D:292:PHE:C	D:292:PHE:CD1	0.452
4	A:236:VAL:HG13	C:39:ALA:C	0.451
4	A:344:PHE:CE2	A:364:GLU:CD	0.451
4	A:436:GLN:HG3	A:437:ALA:O	0.451
4	C:177:TYR:HA	C:249:ALA:C	0.451
4	C:179:LEU:HA	C:182:ILE:CD1	0.451
4	C:179:LEU:HD23	C:182:ILE:HD11	0.451
4	C:184:VAL:CG1	C:223:ASP:CB	0.451
4	C:62:ILE:CG2	C:197:LEU:CD1	0.451

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:230:GLU:HB3	F:112:THR:CG2	0.451
4	C:253:TYR:O	C:254:ASN:HB3	0.451
4	C:274:ASP:HA	C:341:ILE:HG21	0.451
4	C:280:LYS:HD2	C:286:SER:HB2	0.451
4	C:324:ALA:O	C:326:PRO:HD3	0.451
4	C:281:TRP:CA	C:345:PHE:CZ	0.451
4	C:367:VAL:HG12	C:368:ASP:N	0.451
4	D:159:THR:HG21	D:169:TRP:CH2	0.451
4	D:244:GLY:HA3	D:273:ILE:CD1	0.451
4	D:292:PHE:HD2	D:312:ASP:C	0.451
4	E:5:ASN:OD1	F:44:LYS:HE2	0.451
4	F:99:ARG:CD	F:118:TYR:CE2	0.451
4	D:293:ASN:HD21	D:308:LEU:H	0.451
4	F:99:ARG:NH2	F:102:ALA:H	0.451
4	A:12:THR:CB	A:65:TYR:HE1	0.450
4	A:169:LEU:CD2	A:173:ILE:HG12	0.450
4	A:342:VAL:O	A:345:ALA:HB3	0.450
4	A:392:LYS:HB2	A:413:LEU:CD2	0.450
4	C:28:LYS:C	C:30:LEU:H	0.450
4	C:42:ARG:HA	C:220:HIS:HB3	0.450
4	C:83:ASN:CB	C:86:GLY:C	0.450
4	C:92:VAL:HG22	C:207:ILE:HG23	0.450
4	C:57:VAL:CB	C:225:GLY:HA2	0.450

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:247:VAL:CB	C:292:ASN:N	0.450
4	C:273:PHE:C	C:275:SER:N	0.450
4	C:274:ASP:O	C:278:ASN:C	0.450
4	C:309:GLU:HG2	C:310:ASP:H	0.450
4	D:81:ILE:CG2	D:91:HIS:CD2	0.450
4	D:152:LEU:O	D:156:GLN:HG3	0.450
4	D:225:HIS:NE2	D:245:SER:CB	0.450
4	D:61:MET:SD	D:336:LEU:HD22	0.450
4	F:43:GLY:O	F:44:LYS:HB2	0.450
4	F:109:PHE:CE1	F:112:THR:HG22	0.450
4	D:184:THR:CG2	F:115:THR:CG2	0.450
4	C:247:VAL:CG1	C:290:PHE:HD2	0.450
4	D:90:VAL:CG1	D:91:HIS:N	0.450
4	A:66:LEU:C	A:66:LEU:HD22	0.449
4	A:152:THR:HG23	A:227:TYR:OH	0.449
4	A:319:LYS:HD2	A:319:LYS:N	0.449
4	B:11:SER:HA	B:14:LEU:HB3	0.449
4	C:44:LEU:HB3	C:47:GLY:H	0.449
4	C:53:LYS:CA	C:91:LYS:CD	0.449
4	C:58:LYS:CE	C:185:ILE:CG1	0.449
4	C:107:VAL:CG1	C:128:VAL:CG1	0.449
4	C:383:ILE:CG2	C:384:GLN:N	0.449
4	D:30:LEU:CD2	D:30:LEU:N	0.449

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:250:CYS:HB3	D:264:TYR:HB3	0.449
4	D:244:GLY:CA	D:273:ILE:HD12	0.449
4	D:273:ILE:CG1	D:287:ALA:HB1	0.449
4	A:146:PHE:CB	D:335:PHE:CG	0.449
4	F:2:GLN:HE21	F:3:VAL:HG23	0.449
4	F:20:ARG:CZ	F:83:GLN:NE2	0.449
4	A:162:ALA:O	A:166:LEU:HD13	0.448
4	C:113:LEU:CD2	C:117:VAL:HG23	0.448
4	C:178:PHE:CE1	C:185:ILE:HG23	0.448
4	C:234:TRP:CD2	C:234:TRP:O	0.448
4	C:270:LEU:CD1	C:348:ILE:CG2	0.448
4	C:285:THR:HG21	C:394:LEU:CB	0.448
4	C:308:ILE:CG2	F:62:THR:CG2	0.448
4	D:59:TYR:CD2	D:316:SER:CB	0.448
4	D:79:LEU:HD11	D:93:ILE:HD12	0.448
4	E:52:THR:HA	E:53:PRO:O	0.448
4	F:48:TRP:H22	F:51:ASP:CB	0.448
4	F:116:TYR:C	F:116:TYR:CD1	0.448
4	F:41:ALA:CB	F:129:SER:CB	0.448
4	A:148:HIS:CA	D:312:ASP:CB	0.447
4	A:173:ILE:CG2	A:206:VAL:HG11	0.447
4	A:243:PHE:C	A:243:PHE:CD2	0.447
4	A:398:ARG:O	A:399:LEU:HB2	0.447

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:56:ILE:CG1	C:98:ASN:CB	0.447
4	C:62:ILE:CG2	C:197:LEU:HD13	0.447
4	C:230:GLU:HB3	F:112:THR:HG21	0.447
4	C:248:VAL:HA	C:279:ASN:CB	0.447
4	C:271:LYS:CG	C:283:ARG:HG2	0.447
4	C:290:PHE:CE1	C:364:THR:CB	0.447
4	C:296:LEU:CA	C:296:LEU:H	0.447
4	D:284:LEU:HG	D:286:LEU:CD2	0.447
4	D:57:LYS:NZ	D:59:TYR:HD2	0.447
4	D:270:ILE:CD1	D:270:ILE:N	0.447
4	C:52:GLY:C	C:91:LYS:HE2	0.446
4	C:72:GLY:C	C:97:ASN:HB2	0.446
4	C:154:TRP:CD2	C:179:LEU:HB3	0.446
4	C:214:VAL:HG12	C:219:PHE:HE1	0.446
4	C:276:ILE:HG23	C:277:TRP:H	0.446
4	C:244:ILE:O	C:288:ILE:HG22	0.446
4	D:63:TRP:NE1	D:67:SER:CA	0.446
4	D:211:TRP:CZ2	D:216:GLY:C	0.446
4	F:30:PHE:CD2	F:78:ASN:CG	0.446
4	F:38:VAL:CG1	F:46:LEU:CD2	0.446
4	F:47:GLU:OE1	F:62:THR:HG21	0.446
4	D:71:VAL:CG1	D:72:SER:N	0.446
4	A:122:TYR:O	A:126:THR:HG22	0.445

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:136:LEU:HD11	A:161:PHE:HA	0.445
4	C:48:ALA:HB1	C:293:LYS:HE3	0.445
4	C:59:GLN:CB	C:184:VAL:HG22	0.445
4	C:143:PRO:HB3	C:194:ASP:OD2	0.445
4	C:51:SER:N	C:208:PHE:CE2	0.445
4	C:246:PHE:CE2	C:345:PHE:HE2	0.445
4	C:254:ASN:CB	C:305:LYS:CG	0.445
4	C:267:GLN:HG2	C:281:TRP:CD1	0.445
4	D:229:ILE:HD13	D:243:THR:CG2	0.445
4	D:277:SER:HB2	D:318:LEU:HD23	0.445
4	F:73:ARG:CG	F:74:ASP:N	0.445
4	A:153:ARG:CA	A:156:ILE:HG22	0.444
4	A:182:TYR:CE2	B:15:GLU:CG	0.444
4	C:82:SER:C	C:91:LYS:CE	0.444
4	C:92:VAL:CB	C:207:ILE:HG21	0.444
4	C:99:LEU:CD2	C:182:ILE:CD1	0.444
4	C:280:LYS:NZ	C:286:SER:HB2	0.444
4	A:315:ASN:HD21	C:346:LEU:HB3	0.444
4	A:235:SER:OG	C:383:ILE:HD11	0.444
4	D:59:TYR:C	D:59:TYR:CD1	0.444
4	D:63:TRP:CD1	D:64:GLY:N	0.444
4	D:82:TRP:HE1	D:89:LYS:HG2	0.444
4	D:167:ALA:HB3	D:169:TRP:NE1	0.444

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:269:ILE:HD13	D:289:TYR:CD2	0.444
4	D:320:VAL:CG1	D:321:THR:N	0.444
4	D:48:ARG:NE	D:340:ASN:HB2	0.444
4	F:100:CYS:SG	F:108:CYS:HB2	0.444
4	F:109:PHE:HE1	F:111:VAL:C	0.444
4	C:296:LEU:N	C:298:ALA:CB	0.444
4	A:67:PRO:O	A:68:TRP:HB2	0.443
4	A:197:TYR:HA	A:200:SER:HB2	0.443
4	A:322:ILE:HA	A:325:ARG:CZ	0.443
4	A:344:PHE:HB2	A:348:MET:HE3	0.443
4	C:111:SER:HA	C:116:PRO:HB2	0.443
4	C:124:ASN:CA	C:127:ARG:HD2	0.443
4	C:245:ILE:HG13	C:246:PHE:N	0.443
4	C:262:GLN:O	C:269:ALA:HA	0.443
4	C:280:LYS:HE2	C:281:TRP:N	0.443
4	D:54:HIS:CE1	D:82:TRP:CH2	0.443
4	D:85:TYR:CD2	D:86:THR:N	0.443
4	D:191:SER:OG	D:232:ILE:HG23	0.443
4	A:144:LEU:HD22	D:50:THR:HB	0.442
4	A:252:GLY:C	A:253:VAL:HG23	0.442
4	A:289:PRO:HA	A:292:PHE:CD2	0.442
4	A:395:GLU:CG	A:411:LYS:HD3	0.442
4	C:58:LYS:C	C:184:VAL:C	0.442

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:58:LYS:HB2	C:185:ILE:HA	0.442
4	C:178:PHE:CE1	C:185:ILE:HG22	0.442
4	C:356:ARG:HG2	C:357:HIS:CD2	0.442
4	D:111:TYR:C	D:111:TYR:CD1	0.442
4	D:164:THR:HG23	D:183:HIS:O	0.442
4	D:280:LYS:HE3	E:44:HIS:CD2	0.442
4	D:318:LEU:CD1	D:329:THR:HB	0.442
4	A:165:ILE:CG2	A:166:LEU:N	0.442
4	A:296:VAL:O	A:296:VAL:HG13	0.441
4	C:58:LYS:HD3	C:95:ILE:CG2	0.441
4	C:107:VAL:CG1	C:128:VAL:HG11	0.441
4	C:342:ARG:HD2	C:361:PRO:CA	0.441
4	D:80:ILE:HG23	D:82:TRP:CD2	0.441
4	C:247:VAL:CB	C:293:LYS:H	0.441
4	A:160:LEU:CB	A:220:TRP:CD1	0.440
4	C:82:SER:CA	C:88:LYS:N	0.440
4	C:54:ASN:H	C:91:LYS:HG2	0.440
4	C:99:LEU:HD13	C:100:LYS:CA	0.440
4	C:173:ASP:CB	C:254:ASN:ND2	0.440
4	C:53:LYS:H	C:226:ALA:HB3	0.440
4	C:283:ARG:C	C:285:THR:N	0.440
4	D:39:PRO:CD	D:269:ILE:HB	0.440
4	D:57:LYS:CB	D:332:TRP:HD1	0.440

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:198:LEU:HD21	D:210:LEU:CD2	0.440
4	E:22:GLU:HG3	E:23:ALA:N	0.440
4	D:325:MET:CB	E:54:VAL:CG2	0.440
4	A:253:VAL:H	A:254:PRO:CD	0.440
4	D:293:ASN:HD22	D:294:CYS:N	0.440
4	A:288:LEU:HB3	A:289:PRO:CD	0.439
4	C:37:TYR:HB3	D:55:LEU:HD13	0.439
4	C:55:THR:CA	C:95:ILE:HB	0.439
4	C:207:ILE:HD13	C:208:PHE:N	0.439
4	C:231:ARG:CG	C:296:LEU:HD12	0.439
4	C:271:LYS:CB	C:283:ARG:CG	0.439
4	C:345:PHE:C	C:345:PHE:HD1	0.439
4	D:284:LEU:HD11	D:296:VAL:HG11	0.439
4	D:327:VAL:H	D:339:TRP:CD1	0.439
4	F:5:LEU:CD2	F:5:LEU:N	0.439
4	B:10:VAL:CG1	B:11:SER:N	0.438
4	C:296:LEU:CD2	F:111:VAL:CG2	0.438
4	C:317:ARG:CZ	C:317:ARG:HB3	0.438
4	F:52:ILE:CD1	F:59:ILE:HB	0.438
4	F:38:VAL:N	F:95:TYR:HE1	0.438
4	C:61:ARG:CG	C:62:ILE:N	0.438
4	A:6:THR:O	A:6:THR:HG23	0.438
4	A:53:GLU:CB	A:54:PRO:CD	0.437

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:232:LEU:CD2	C:387:HIS:CB	0.437
4	C:54:ASN:CG	C:91:LYS:CB	0.437
4	C:87:GLU:N	C:91:LYS:HE3	0.437
4	C:144:PRO:HG2	C:197:LEU:HB2	0.437
4	C:251:SER:OG	C:254:ASN:HB3	0.437
4	C:270:LEU:HD23	C:344:GLU:CD	0.437
4	C:280:LYS:HE3	C:281:TRP:N	0.437
4	D:18:ILE:HG13	D:22:ARG:HE	0.437
4	D:90:VAL:HG23	E:58:GLU:OE1	0.437
4	D:161:SER:HB2	D:165:THR:O	0.437
4	D:209:LYS:HB2	D:209:LYS:NZ	0.437
4	D:209:LYS:HZ1	D:211:TRP:HB2	0.437
4	D:286:LEU:CD2	D:296:VAL:CG1	0.437
4	D:85:TYR:HE1	E:62:ARG:CA	0.437
4	C:307:LYS:C	C:309:GLU:N	0.437
4	A:172:PHE:C	A:172:PHE:CD2	0.436
4	A:229:TYR:CD2	A:300:ILE:HD12	0.436
4	C:154:TRP:CZ3	C:179:LEU:CD1	0.436
4	C:68:PHE:CD2	C:199:ARG:HG2	0.436
4	C:235:ILE:HG13	C:238:PHE:CZ	0.436
4	C:248:VAL:HG23	C:300:LYS:HE3	0.436
4	C:250:SER:HB2	C:301:VAL:HG12	0.436
4	C:294:GLN:HB3	C:297:LEU:CB	0.436

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:249:ALA:O	C:301:VAL:HG22	0.436
4	C:280:LYS:O	C:345:PHE:CE2	0.436
4	D:54:HIS:CE1	D:80:ILE:HG22	0.436
4	D:280:LYS:C	D:280:LYS:HD3	0.436
4	D:338:ILE:O	D:339:TRP:HB3	0.436
4	F:61:TYR:C	F:61:TYR:CD2	0.436
4	A:99:ASP:CG	A:100:LEU:N	0.435
4	A:219:TYR:CZ	A:222:LEU:HD13	0.435
4	A:219:TYR:O	A:223:VAL:HG23	0.435
4	A:279:ASN:HB3	A:282:TYR:HD1	0.435
4	C:46:LEU:N	C:46:LEU:HD12	0.435
4	C:82:SER:HB3	C:91:LYS:N	0.435
4	C:107:VAL:HG12	C:128:VAL:CG1	0.435
4	C:245:ILE:HD11	C:290:PHE:HB2	0.435
4	C:280:LYS:HG2	C:293:LYS:O	0.435
4	D:81:ILE:HG22	D:91:HIS:CD2	0.435
4	D:190:LEU:HD21	D:199:PHE:HD1	0.435
4	F:95:TYR:OH	F:97:CYS:HB2	0.435
4	D:63:TRP:HD1	D:64:GLY:H	0.435
4	A:259:VAL:N	A:260:PRO:CD	0.435
4	C:302:LEU:O	C:303:ALA:C	0.435
4	A:136:LEU:C	A:161:PHE:HE1	0.434
4	A:239:GLU:HG3	A:242:ILE:HD11	0.434

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	B:19:ALA:O	B:23:ILE:HG13	0.434
4	C:53:LYS:CA	C:91:LYS:CE	0.434
4	D:132:ASN:CG	D:133:VAL:H	0.434
4	D:211:TRP:CZ3	D:218:CYS:HB3	0.434
4	D:225:HIS:HD2	D:227:SER:O	0.434
4	A:182:TYR:CD1	B:18:ALA:CB	0.433
4	A:184:THR:O	A:188:GLN:HG2	0.433
4	C:205:SER:OG	C:207:ILE:HA	0.433
4	C:45:LEU:CD1	C:245:ILE:HG23	0.433
4	C:288:ILE:HD13	C:289:LEU:O	0.433
4	C:318:TYR:CD2	C:340:PHE:HD1	0.433
4	C:37:TYR:CB	D:55:LEU:CD1	0.433
4	D:106:ALA:HB2	D:151:PHE:CE1	0.433
4	F:65:VAL:HA	F:68:ARG:HD2	0.433
4	F:77:LYS:O	F:79:THR:HG22	0.433
4	F:118:TYR:HD1	F:118:TYR:O	0.433
4	C:92:VAL:O	C:93:GLN:CB	0.433
4	A:143:LEU:CD1	A:158:LEU:CB	0.432
4	A:146:PHE:CD2	A:147:ARG:N	0.432
4	C:58:LYS:HD3	C:185:ILE:CG1	0.432
4	C:100:LYS:O	C:104:GLU:HG3	0.432
4	C:163:TYR:HE2	C:176:GLN:CD	0.432
4	C:58:LYS:CB	C:185:ILE:HG22	0.432

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:54:ASN:ND2	C:207:ILE:HG23	0.432
4	C:57:VAL:CG2	C:226:ALA:HB2	0.432
4	C:247:VAL:HB	C:293:LYS:N	0.432
4	C:250:SER:C	C:302:LEU:CB	0.432
4	C:297:LEU:C	C:300:LYS:HB3	0.432
4	D:34:THR:HG22	F:54:GLN:HE21	0.432
4	D:180:PHE:CE1	D:211:TRP:CE3	0.432
4	D:241:PHE:CE1	D:255:LEU:HD11	0.432
4	F:92:THR:HG23	F:127:VAL:CB	0.432
4	F:96:TYR:CD1	F:122:GLY:N	0.432
4	F:109:PHE:HE1	F:111:VAL:O	0.432
4	C:306:SER:CB	C:306:SER:N	0.432
4	F:114:THR:O	F:114:THR:HG23	0.432
4	A:191:TRP:O	A:192:ASP:HB3	0.431
4	A:305:ILE:O	A:309:VAL:HG23	0.431
4	A:182:TYR:CB	B:18:ALA:HB2	0.431
4	C:27:GLU:O	C:30:LEU:HB3	0.431
4	C:32:LYS:C	C:32:LYS:HD2	0.431
4	C:51:SER:HB2	C:207:ILE:HD12	0.431
4	C:56:ILE:CG1	C:174:CYS:SG	0.431
4	C:82:SER:CB	C:88:LYS:C	0.431
4	C:113:LEU:CD1	C:116:PRO:CA	0.431
4	C:178:PHE:CE1	C:181:LYS:O	0.431

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:250:SER:CA	C:302:LEU:HB3	0.431
4	D:300:LEU:C	D:300:LEU:HD13	0.431
4	F:92:THR:CG2	F:127:VAL:CB	0.431
4	C:283:ARG:N	C:285:THR:N	0.431
4	A:141:ALA:C	D:44:GLN:HG2	0.430
4	A:428:SER:HB3	A:430:MET:CE	0.430
4	C:273:PHE:CD1	C:341:ILE:CG2	0.430
4	C:303:ALA:CB	C:305:LYS:C	0.430
4	D:105:TYR:CD1	D:112:VAL:HG22	0.430
4	D:119:ASN:ND2	D:142:HIS:CD2	0.430
4	D:180:PHE:HD1	D:211:TRP:CZ3	0.430
4	D:273:ILE:HD11	D:275:SER:C	0.430
4	E:53:PRO:HD3	E:66:PHE:CE1	0.430
4	D:49:ARG:NH1	D:84:SER:CB	0.430
4	A:57:PHE:CB	A:78:TYR:CE1	0.429
4	A:117:GLN:CD	A:358:PHE:CD2	0.429
4	A:131:LEU:HA	A:131:LEU:HD23	0.429
4	A:182:TYR:CE1	A:194:LEU:HD11	0.429
4	C:44:LEU:HD12	C:238:PHE:CD1	0.429
4	C:83:ASN:C	C:86:GLY:H	0.429
4	C:121:ASN:HA	C:122:PRO:HD2	0.429
4	C:272:LEU:N	C:272:LEU:HD12	0.429
4	C:279:ASN:HB3	C:297:LEU:CG	0.429

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:280:LYS:CD	C:286:SER:CB	0.429
4	C:308:ILE:HG21	F:62:THR:CG2	0.429
4	D:180:PHE:C	D:180:PHE:CD2	0.429
4	D:256:ARG:O	D:257:ALA:HB2	0.429
4	C:262:GLN:NE2	C:314:GLU:H	0.429
4	C:294:GLN:CB	C:296:LEU:O	0.429
4	D:261:LEU:HG	D:261:LEU:O	0.429
4	A:350:GLU:HA	A:350:GLU:OE1	0.428
4	A:399:LEU:HA	A:410:MET:HE1	0.428
4	C:50:GLU:CA	C:208:PHE:CE2	0.428
4	C:56:ILE:CD1	C:174:CYS:SG	0.428
4	C:208:PHE:CE1	C:222:PHE:HD2	0.428
4	C:257:ILE:HD12	F:42:PRO:O	0.428
4	C:364:THR:CG2	C:365:CYS:N	0.428
4	D:85:TYR:CG	E:60:PRO:O	0.428
4	D:107:PRO:HD2	D:151:PHE:CG	0.428
4	E:48:ASP:HB2	E:52:THR:HA	0.428
4	E:47:GLU:O	E:48:ASP:HB3	0.428
4	F:100:CYS:CB	F:108:CYS:CB	0.428
4	F:112:THR:HG23	F:116:TYR:CE2	0.428
4	C:91:LYS:O	C:94:ASP:N	0.428
4	C:317:ARG:H	C:317:ARG:HH11	0.428
4	D:142:HIS:HE2	D:163:ASP:H	0.428

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:209:LYS:HZ1	D:211:TRP:HE3	0.428
4	A:78:TYR:CD2	A:79:ARG:N	0.427
4	A:277:ASN:CG	A:283:TRP:CE3	0.427
4	C:48:ALA:C	C:295:ASP:HB3	0.427
4	C:59:GLN:C	C:184:VAL:O	0.427
4	C:82:SER:O	C:91:LYS:HB2	0.427
4	C:272:LEU:HD22	F:47:GLU:OE1	0.427
4	C:273:PHE:CE1	C:341:ILE:HG23	0.427
4	C:337:ALA:O	C:341:ILE:HG12	0.427
4	D:51:LEU:HD21	D:82:TRP:CG	0.427
4	D:55:LEU:HD12	D:76:ASP:OD2	0.427
4	D:142:HIS:CB	D:146:LEU:HD21	0.427
4	E:70:ILE:O	E:71:LEU:HB3	0.427
4	F:37:TRP:HA	F:95:TYR:CE1	0.427
4	C:308:ILE:H	F:47:GLU:CG	0.427
4	C:229:ASP:O	F:109:PHE:HE2	0.427
4	C:362:HIS:NE2	C:374:ARG:CG	0.427
4	D:218:CYS:SG	E:18:GLN:NE2	0.427
4	F:103:PRO:CG	F:104:PHE:H	0.427
4	E:25:ILE:O	E:25:ILE:HG23	0.427
4	C:177:TYR:CD1	C:249:ALA:O	0.426
4	C:270:LEU:HD13	C:348:ILE:CG2	0.426
4	C:294:GLN:C	C:296:LEU:H	0.426

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:315:PHE:C	C:315:PHE:CD1	0.426
4	C:349:SER:O	C:350:THR:HG23	0.426
4	E:48:ASP:HB3	E:51:LEU:O	0.426
4	F:102:ALA:HB3	F:105:THR:CG2	0.426
4	C:82:SER:HB2	C:91:LYS:H	0.426
4	C:287:VAL:CG1	C:288:ILE:N	0.426
4	A:250:GLY:O	A:254:PRO:HD3	0.425
4	A:366:SER:O	A:370:PHE:HB2	0.425
4	C:47:GLY:HA3	C:244:ILE:HB	0.425
4	C:95:ILE:HD11	C:178:PHE:CB	0.425
4	C:92:VAL:CG2	C:207:ILE:CG2	0.425
4	C:60:MET:CE	C:210:THR:HG21	0.425
4	C:244:ILE:HG13	C:287:VAL:CG2	0.425
4	C:247:VAL:HB	C:292:ASN:N	0.425
4	C:274:ASP:C	C:279:ASN:ND2	0.425
4	C:296:LEU:HD11	F:109:PHE:CB	0.425
4	C:294:GLN:N	C:297:LEU:HD22	0.425
4	C:348:ILE:C	C:350:THR:H	0.425
4	C:356:ARG:HB3	C:356:ARG:HH11	0.425
4	C:370:GLU:HG3	C:370:GLU:O	0.425
4	D:30:LEU:HG	D:31:SER:N	0.425
4	D:256:ARG:C	E:28:ILE:HG23	0.425
4	F:28:PHE:CD2	F:33:TYR:CD2	0.425

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	F:37:TRP:HA	F:95:TYR:HE1	0.425
4	A:116:GLU:O	A:117:GLN:HB2	0.425
4	A:16:TRP:CZ3	A:17:ARG:HG3	0.424
4	C:55:THR:C	C:57:VAL:N	0.424
4	C:58:LYS:O	C:181:LYS:HB3	0.424
4	C:220:HIS:C	C:220:HIS:CD2	0.424
4	C:244:ILE:HG13	C:287:VAL:N	0.424
4	C:280:LYS:HB3	C:294:GLN:HB2	0.424
4	D:152:LEU:HD22	D:196:THR:HG21	0.424
4	D:199:PHE:CE2	D:211:TRP:HD1	0.424
4	E:1:MET:HB2	E:1:MET:HE2	0.424
4	F:95:TYR:CZ	F:97:CYS:HA	0.424
4	C:117:VAL:CB	C:162:CYS:SG	0.424
4	A:148:HIS:C	D:312:ASP:CB	0.423
4	C:55:THR:HG23	C:95:ILE:HA	0.423
4	C:73:GLY:C	C:94:ASP:CG	0.423
4	C:103:ILE:HG12	C:131:ILE:HD13	0.423
4	C:224:VAL:HB	C:293:LYS:HE2	0.423
4	C:234:TRP:CD2	D:117:LEU:HD12	0.423
4	C:177:TYR:HD1	C:250:SER:CA	0.423
4	C:334:VAL:HG12	C:338:LYS:HE3	0.423
4	C:376:PHE:C	C:376:PHE:CD2	0.423
4	D:277:SER:CB	D:318:LEU:CD2	0.423

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:149:CYS:SG	D:150:ARG:N	0.423
4	A:12:THR:CB	A:65:TYR:CE1	0.422
4	A:393:SER:O	A:396:ARG:HG2	0.422
4	A:398:ARG:CA	A:398:ARG:NE	0.422
4	C:43:LEU:HB3	C:221:MET:SD	0.422
4	C:46:LEU:HD21	C:181:LYS:HE3	0.422
4	C:144:PRO:HG3	C:186:LYS:CE	0.422
4	C:147:TYR:HD2	C:182:ILE:HG22	0.422
4	C:181:LYS:NZ	C:183:ASP:HB3	0.422
4	C:51:SER:HG	C:208:PHE:HB3	0.422
4	C:279:ASN:O	C:297:LEU:CD2	0.422
4	C:42:ARG:NH1	D:75:GLN:HG2	0.422
4	D:296:VAL:HB	D:305:ALA:O	0.422
4	D:226:GLU:OE1	F:3:VAL:HG21	0.422
4	C:273:PHE:HD1	C:344:GLU:OE2	0.422
4	D:54:HIS:ND1	D:82:TRP:HH2	0.422
4	A:77:VAL:CG1	A:78:TYR:N	0.422
4	C:394:LEU:CD1	C:394:LEU:N	0.422
4	D:312:ASP:CG	D:313:ASN:N	0.422
4	A:146:PHE:HB3	D:335:PHE:CD1	0.421
4	A:155:TYR:HA	A:158:LEU:CD2	0.421
4	A:221:LEU:HD23	A:297:ASN:ND2	0.421
4	A:261:TRP:CG	A:286:ILE:CD1	0.421

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:309:VAL:HA	A:312:LEU:CD1	0.421
4	C:44:LEU:CD1	C:238:PHE:CB	0.421
4	C:54:ASN:CG	C:206:GLY:O	0.421
4	C:185:ILE:HD13	C:186:LYS:HG3	0.421
4	C:207:ILE:O	C:208:PHE:CD2	0.421
4	C:364:THR:HG23	C:365:CYS:SG	0.421
4	D:51:LEU:HD21	D:82:TRP:CD2	0.421
4	D:99:TRP:CZ2	D:101:MET:HB2	0.421
4	D:117:LEU:HA	D:117:LEU:HD22	0.421
4	D:151:PHE:CG	D:152:LEU:N	0.421
4	F:35:MET:HB2	F:98:ALA:O	0.421
4	F:38:VAL:HG13	F:46:LEU:CD1	0.421
4	F:35:MET:CE	F:80:LEU:CD2	0.421
4	C:231:ARG:HH11	C:235:ILE:CG1	0.421
4	E:1:MET:H3	E:11:GLN:HE22	0.421
4	A:100:LEU:HD21	B:27:VAL:CG1	0.420
4	A:118:LEU:HB3	A:121:LEU:HD12	0.420
4	A:349:ASP:CG	A:352:ALA:HB2	0.420
4	B:10:VAL:O	B:11:SER:HB3	0.420
4	C:72:GLY:C	C:94:ASP:CA	0.420
4	C:264:ASN:CG	C:265:ARG:N	0.420
4	C:273:PHE:CE1	C:276:ILE:CG2	0.420
4	D:110:ASN:O	D:111:TYR:HB2	0.420

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:254:ASP:OD1	D:257:ALA:HB3	0.420
4	D:292:PHE:C	D:292:PHE:HD1	0.420
4	D:292:PHE:CE1	D:311:HIS:HB2	0.420
4	C:228:ARG:HH21	F:114:THR:HG23	0.420
4	F:93:ALA:N	F:125:VAL:CG2	0.420
4	A:38:PHE:HD2	A:39:CYS:O	0.420
4	A:124:ILE:CD1	A:125:TYR:N	0.420
4	C:50:GLU:N	C:50:GLU:O	0.420
4	C:274:ASP:N	C:344:GLU:OE2	0.420
4	D:146:LEU:N	D:146:LEU:HD23	0.420
4	A:17:ARG:CB	A:17:ARG:NH1	0.419
4	A:400:GLU:HB2	A:403:HIS:CE1	0.419
4	C:44:LEU:HB3	C:47:GLY:N	0.419
4	C:77:PRO:C	C:78:GLN:HG3	0.419
4	C:203:LEU:CD1	C:203:LEU:N	0.419
4	C:235:ILE:O	C:238:PHE:CD1	0.419
4	C:245:ILE:CG1	C:246:PHE:N	0.419
4	C:279:ASN:OD1	C:300:LYS:HG3	0.419
4	C:273:PHE:HE1	C:341:ILE:HG23	0.419
4	C:339:TYR:O	C:343:ASP:HB3	0.419
4	D:157:ILE:O	D:168:LEU:HD12	0.419
4	D:271:CYS:SG	D:291:ASP:CG	0.419
4	E:52:THR:OG1	E:53:PRO:HA	0.419

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	E:57:SER:C	E:59:ASN:N	0.419
4	F:80:LEU:C	F:80:LEU:HD13	0.419
4	C:298:ALA:N	C:301:VAL:H	0.419
4	A:117:GLN:CD	A:358:PHE:CE2	0.418
4	A:144:LEU:CD2	D:50:THR:HB	0.418
4	C:147:TYR:CD2	C:182:ILE:CG2	0.418
4	C:268:ALA:HB2	C:284:ASP:OD2	0.418
4	C:277:TRP:CE3	C:337:ALA:HB1	0.418
4	C:289:LEU:HD21	C:359:CYS:CB	0.418
4	C:296:LEU:N	C:298:ALA:CA	0.418
4	C:348:ILE:C	C:350:THR:N	0.418
4	D:18:ILE:HA	D:18:ILE:HD12	0.418
4	D:167:ALA:CB	D:169:TRP:HE1	0.418
4	D:180:PHE:HD1	D:211:TRP:CD2	0.418
4	D:239:ASN:H	D:255:LEU:HD12	0.418
4	F:47:GLU:CD	F:62:THR:HG21	0.418
4	F:73:ARG:HG3	F:74:ASP:N	0.418
4	A:210:MET:HE2	A:211:GLN:HE22	0.418
4	C:261:ASN:HA	C:261:ASN:N	0.418
4	A:276:ARG:HH21	B:15:GLU:CD	0.417
4	C:45:LEU:CD1	C:245:ILE:CG2	0.417
4	C:84:SER:CB	C:91:LYS:HD2	0.417
4	C:162:CYS:C	C:164:GLU:H	0.417

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:177:TYR:C	C:177:TYR:CD2	0.417
4	C:248:VAL:N	C:293:LYS:CA	0.417
4	C:294:GLN:HB2	C:297:LEU:HB3	0.417
4	D:120:ILE:HD13	D:121:CYS:C	0.417
4	C:318:TYR:CD1	C:340:PHE:HD1	0.417
4	C:1:MET:SD	C:202:VAL:CG2	0.417
4	A:133:PHE:O	A:137:VAL:HG23	0.416
4	A:160:LEU:C	A:160:LEU:CD2	0.416
4	A:264:VAL:CG1	A:282:TYR:CD2	0.416
4	A:402:LEU:C	A:402:LEU:CD1	0.416
4	C:10:GLU:HG2	C:18:ALA:CB	0.416
4	C:58:LYS:CD	C:185:ILE:CG2	0.416
4	C:286:SER:O	C:287:VAL:HG22	0.416
4	D:99:TRP:CE3	D:99:TRP:HA	0.416
4	D:190:LEU:HD22	D:191:SER:H	0.416
4	D:188:MET:SD	D:230:ASN:CG	0.416
4	D:325:MET:HG2	D:326:ALA:N	0.416
4	D:320:VAL:CG2	D:327:VAL:CG2	0.416
4	F:35:MET:HE3	F:36:ASN:CA	0.416
4	C:296:LEU:CG	F:109:PHE:CE2	0.416
4	C:335:THR:HG1	C:339:TYR:HD1	0.416
4	C:344:GLU:CG	C:345:PHE:N	0.416
4	A:222:LEU:C	A:222:LEU:CD2	0.415

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:57:VAL:CG1	C:225:GLY:C	0.415
4	C:74:GLU:HG2	C:78:GLN:N	0.415
4	C:72:GLY:N	C:93:GLN:C	0.415
4	C:72:GLY:O	C:94:ASP:HA	0.415
4	C:244:ILE:CG1	C:287:VAL:N	0.415
4	C:246:PHE:CD1	C:280:LYS:CA	0.415
4	C:307:LYS:C	F:47:GLU:CG	0.415
4	D:142:HIS:HE1	D:163:ASP:HB3	0.415
4	D:264:TYR:CD1	D:297:TRP:CE2	0.415
4	D:293:ASN:C	D:293:ASN:HD22	0.415
4	F:93:ALA:N	F:125:VAL:HG21	0.415
4	A:212:TYR:HE2	A:255:LEU:CB	0.415
4	A:77:VAL:HG12	A:78:TYR:N	0.415
4	A:133:PHE:CE2	A:165:ILE:CD1	0.414
4	C:37:TYR:CB	D:55:LEU:HD12	0.414
4	C:72:GLY:N	C:93:GLN:HB3	0.414
4	C:184:VAL:HG13	C:223:ASP:HB2	0.414
4	C:57:VAL:CG1	C:225:GLY:CA	0.414
4	C:50:GLU:OE1	C:234:TRP:CH2	0.414
4	C:246:PHE:CD1	C:280:LYS:N	0.414
4	C:247:VAL:CB	C:293:LYS:N	0.414
4	C:318:TYR:CD1	C:340:PHE:CD1	0.414
4	C:246:PHE:HE2	C:345:PHE:CD2	0.414

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:281:TRP:CD1	C:348:ILE:HG22	0.414
4	D:70:LEU:C	D:70:LEU:CD2	0.414
4	D:289:TYR:OH	D:293:ASN:HB3	0.414
4	D:49:ARG:HD3	D:338:ILE:HD12	0.414
4	F:28:PHE:CD2	F:29:THR:HG22	0.414
4	D:226:GLU:OE2	F:118:TYR:HE2	0.414
4	D:63:TRP:CD1	D:64:GLY:H	0.414
4	F:40:GLN:CG	F:44:LYS:HZ3	0.414
4	A:181:MET:SD	A:197:TYR:CD1	0.413
4	A:388:LEU:O	A:391:ARG:HB2	0.413
4	C:43:LEU:HD13	C:221:MET:SD	0.413
4	C:207:ILE:C	C:209:GLU:N	0.413
4	C:214:VAL:CG1	C:376:PHE:HD1	0.413
4	D:67:SER:HB3	D:321:THR:OG1	0.413
4	D:99:TRP:CD2	D:100:VAL:N	0.413
4	F:29:THR:HG21	F:32:ASN:CG	0.413
4	A:125:TYR:O	A:129:TYR:HD2	0.413
4	D:18:ILE:CG1	D:22:ARG:HH21	0.413
4	D:33:ILE:CG1	D:34:THR:H	0.413
4	D:88:ASN:CG	D:89:LYS:N	0.413
4	A:37:LEU:N	A:37:LEU:HD13	0.412
4	A:49:TRP:CD1	A:50:PRO:O	0.412
4	A:231:LEU:HD12	C:387:HIS:NE2	0.412

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:236:VAL:HG22	C:39:ALA:C	0.412
4	A:311:LYS:HD2	C:385:ARG:CB	0.412
4	C:190:TYR:O	C:191:VAL:HB	0.412
4	C:208:PHE:CD1	C:208:PHE:O	0.412
4	C:255:MET:C	C:256:VAL:HG13	0.412
4	C:271:LYS:CA	C:283:ARG:HD3	0.412
4	C:284:ASP:C	C:284:ASP:CB	0.412
4	C:293:LYS:HE3	C:295:ASP:CA	0.412
4	D:59:TYR:CE2	D:316:SER:HB3	0.412
4	F:33:TYR:HE1	F:35:MET:HB3	0.412
4	A:412:PRO:CA	F:58:SER:HB3	0.412
4	D:226:GLU:OE2	F:118:TYR:CE2	0.412
4	A:88:LEU:C	A:88:LEU:CD2	0.411
4	A:146:PHE:HB2	D:335:PHE:CD1	0.411
4	A:160:LEU:HB2	A:220:TRP:NE1	0.411
4	C:46:LEU:HB2	C:293:LYS:CG	0.411
4	C:52:GLY:CA	D:119:ASN:HB3	0.411
4	C:72:GLY:H	C:93:GLN:CA	0.411
4	C:62:ILE:HG21	C:190:TYR:HB3	0.411
4	C:271:LYS:NZ	C:272:LEU:HG	0.411
4	D:79:LEU:CD1	D:93:ILE:HB	0.411
4	F:38:VAL:CG1	F:46:LEU:HD11	0.411
4	A:126:THR:HA	A:129:TYR:CD2	0.410

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:365:LEU:C	A:365:LEU:HD12	0.410
4	A:427:GLY:C	A:429:SER:N	0.410
4	C:32:LYS:CD	C:36:VAL:HG21	0.410
4	C:56:ILE:CG2	C:75:GLU:CD	0.410
4	C:83:ASN:N	C:91:LYS:HE3	0.410
4	C:96:LYS:CD	C:142:PHE:CD2	0.410
4	C:231:ARG:HD3	C:235:ILE:HD13	0.410
4	C:235:ILE:O	C:238:PHE:CE1	0.410
4	C:242:THR:O	C:243:ALA:HB3	0.410
4	C:271:LYS:HE3	C:299:GLU:HG2	0.410
4	D:38:ASP:CG	D:39:PRO:CD	0.410
4	F:61:TYR:CD2	F:61:TYR:O	0.410
4	F:95:TYR:CE1	F:96:TYR:O	0.410
4	C:113:LEU:CD1	C:115:PRO:N	0.410
4	C:207:ILE:O	C:209:GLU:N	0.410
4	C:101:GLU:HA	C:101:GLU:OE2	0.410
4	A:205:LEU:C	A:205:LEU:CD2	0.409
4	A:239:GLU:CG	A:240:GLN:N	0.409
4	C:62:ILE:CG2	C:190:TYR:HB2	0.409
4	C:260:ASP:C	C:307:LYS:HB2	0.409
4	C:316:ALA:HB3	C:317:ARG:HH12	0.409
4	C:343:ASP:HA	C:346:LEU:HD21	0.409
4	C:391:TYR:C	C:391:TYR:CD1	0.409

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:30:LEU:HD11	D:32:GLN:HE21	0.409
4	F:73:ARG:HG3	F:79:THR:O	0.409
4	F:109:PHE:C	F:109:PHE:HD1	0.409
4	D:75:GLN:HG3	D:99:TRP:HE3	0.409
4	C:246:PHE:N	C:288:ILE:O	0.409
4	C:195:GLN:O	C:198:LEU:HD13	0.409
4	A:13:VAL:HB	A:191:TRP:CH2	0.408
4	A:45:GLU:HB2	B:26:LEU:HD11	0.408
4	A:266:TYR:O	A:270:ASP:HB2	0.408
4	A:355:THR:C	A:357:ARG:H	0.408
4	C:73:GLY:CA	C:94:ASP:CB	0.408
4	C:41:HIS:NE2	C:242:THR:HG23	0.408
4	C:246:PHE:CE2	C:280:LYS:O	0.408
4	C:177:TYR:HD1	C:250:SER:HA	0.408
4	C:264:ASN:CA	F:60:SER:HB2	0.408
4	C:273:PHE:CE1	C:340:PHE:CD2	0.408
4	D:30:LEU:HD11	D:32:GLN:NE2	0.408
4	D:190:LEU:HD21	D:199:PHE:CG	0.408
4	F:10:GLY:N	F:19:LEU:HD11	0.408
4	F:28:PHE:CZ	F:29:THR:HG22	0.408
4	C:308:ILE:N	F:47:GLU:CD	0.408
4	F:48:TRP:CZ2	F:51:ASP:CB	0.408
4	F:42:PRO:CD	F:93:ALA:CB	0.408

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:23:CYS:SG	A:43:PHE:HE1	0.408
4	A:288:LEU:HD23	A:292:PHE:HE2	0.408
4	C:203:LEU:HB3	C:204:THR:H	0.408
4	C:49:GLY:CA	C:227:GLN:HE22	0.408
4	D:190:LEU:CD2	D:191:SER:N	0.408
4	A:136:LEU:O	A:161:PHE:CE1	0.408
4	A:258:VAL:O	A:261:TRP:CD1	0.408
4	A:394:TRP:CE2	A:397:TRP:CZ2	0.407
4	C:99:LEU:CD2	C:179:LEU:HD23	0.407
4	C:47:GLY:O	C:238:PHE:CE1	0.407
4	C:383:ILE:HG13	C:386:MET:HE2	0.407
4	D:85:TYR:CD1	E:60:PRO:O	0.407
4	D:86:THR:C	D:88:ASN:N	0.407
4	D:252:LEU:O	D:260:GLU:HA	0.407
4	F:38:VAL:HG21	F:110:ASP:OD2	0.407
4	F:38:VAL:CG1	F:46:LEU:HD21	0.407
4	A:68:TRP:HH2	A:109:GLY:O	0.407
4	A:86:LEU:CD2	A:86:LEU:N	0.407
4	A:74:GLN:HG2	A:74:GLN:O	0.407
4	A:197:TYR:O	A:198:GLN:CB	0.407
4	C:50:GLU:OE2	C:234:TRP:CZ2	0.407
4	A:240:GLN:C	A:242:ILE:N	0.406
4	A:368:THR:HA	A:371:GLN:OE1	0.406

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	C:96:LYS:C	C:96:LYS:CD	0.406
4	C:113:LEU:C	C:113:LEU:CD1	0.406
4	C:131:ILE:HG12	C:146:PHE:CE2	0.406
4	C:294:GLN:HB3	C:296:LEU:H	0.406
4	C:391:TYR:C	C:391:TYR:N	0.406
4	F:38:VAL:HG11	F:46:LEU:CD2	0.406
4	F:47:GLU:OE1	F:62:THR:CB	0.406
4	C:262:GLN:NE2	C:314:GLU:N	0.406
4	C:363:PHE:HE2	C:366:ALA:N	0.406
4	A:355:THR:O	A:356:LEU:HB2	0.406
4	A:178:LEU:C	A:178:LEU:CD1	0.405
4	A:240:GLN:CD	C:31:GLN:HG3	0.405
4	A:279:ASN:HB2	A:282:TYR:CD1	0.405
4	C:54:ASN:OD1	C:91:LYS:HB3	0.405
4	C:280:LYS:HG2	C:293:LYS:C	0.405
4	C:372:ILE:HA	C:372:ILE:HD13	0.405
4	D:80:ILE:HG13	D:92:ALA:CB	0.405
4	D:190:LEU:C	D:190:LEU:HD22	0.405
4	E:7:ALA:O	E:8:SER:HB3	0.405
4	D:163:ASP:O	D:165:THR:HG22	0.405
4	D:240:ALA:O	D:241:PHE:CD1	0.405
4	D:289:TYR:CE1	D:291:ASP:O	0.405
4	F:99:ARG:HG2	F:100:CYS:O	0.405

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:190:GLN:HG2	A:190:GLN:O	0.404
4	A:333:LEU:HA	A:333:LEU:HD13	0.404
4	C:59:GLN:HA	C:184:VAL:CG2	0.404
4	C:206:GLY:N	C:208:PHE:CE2	0.404
4	C:231:ARG:CG	F:109:PHE:HD2	0.404
4	C:247:VAL:C	C:293:LYS:CA	0.404
4	C:270:LEU:HD11	C:345:PHE:O	0.404
4	C:273:PHE:CZ	C:276:ILE:CG2	0.404
4	C:281:TRP:HH2	C:357:HIS:HB2	0.404
4	D:21:ALA:C	D:23:LYS:N	0.404
4	D:211:TRP:CE2	D:217:MET:N	0.404
4	D:300:LEU:HD21	E:38:MET:SD	0.404
4	F:65:VAL:O	F:69:PHE:CE1	0.404
4	F:71:ILE:C	F:71:ILE:CD1	0.404
4	A:43:PHE:HE2	A:45:GLU:HG2	0.404
4	A:264:VAL:HG12	A:282:TYR:HD2	0.404
4	C:54:ASN:H	C:91:LYS:NZ	0.404
4	C:55:THR:O	C:57:VAL:N	0.404
4	D:150:ARG:HE	D:190:LEU:HD11	0.404
4	A:43:PHE:CD2	A:44:ASP:O	0.404
4	C:82:SER:OG	C:88:LYS:CA	0.404
4	C:297:LEU:CG	C:297:LEU:O	0.404
4	A:41:ARG:H	A:41:ARG:HD3	0.403

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:189:HIS:CD2	A:189:HIS:O	0.403
4	C:58:LYS:HG2	C:207:ILE:HD13	0.403
4	C:228:ARG:HE	C:230:GLU:HG2	0.403
4	C:248:VAL:CG1	C:292:ASN:C	0.403
4	C:312:PHE:HA	C:313:PRO:HD3	0.403
4	C:333:ARG:HA	C:336:ARG:HE	0.403
4	C:341:ILE:CA	C:344:GLU:HG2	0.403
4	D:264:TYR:CD2	D:264:TYR:O	0.403
4	F:101:PRO:HG2	F:116:TYR:HE1	0.403
4	E:6:THR:HG23	E:7:ALA:N	0.403
4	C:75:GLU:CD	C:252:SER:HG	0.403
4	C:104:GLU:OE2	C:135:MET:HA	0.402
4	C:62:ILE:CG2	C:190:TYR:HB3	0.402
4	C:289:LEU:CD1	C:361:PRO:HA	0.402
4	D:183:HIS:CE1	D:209:LYS:CD	0.402
4	D:193:ALA:CB	D:194:PRO:CD	0.402
4	D:273:ILE:CD1	D:276:VAL:HG23	0.402
4	D:289:TYR:CE1	D:293:ASN:O	0.402
4	D:311:HIS:CD2	D:335:PHE:CZ	0.402
4	D:57:LYS:HG3	D:332:TRP:CD1	0.402
4	F:30:PHE:CD2	F:78:ASN:OD1	0.402
4	C:51:SER:HG	C:208:PHE:HD2	0.402
4	C:250:SER:CB	C:250:SER:N	0.402

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	D:286:LEU:N	D:286:LEU:HD23	0.402
4	E:4:ASN:ND2	F:96:TYR:CE2	0.402
4	C:55:THR:OG1	C:95:ILE:N	0.402
4	C:205:SER:CB	C:207:ILE:O	0.402
4	C:267:GLN:CB	C:283:ARG:O	0.402
4	D:159:THR:O	D:159:THR:HG23	0.402
4	F:118:TYR:CD1	F:118:TYR:O	0.402
4	F:119:ARG:HG3	F:119:ARG:O	0.402
4	B:10:VAL:C	B:12:SER:N	0.401
4	C:48:ALA:HA	C:294:GLN:C	0.401
4	C:53:LYS:HG3	C:226:ALA:CB	0.401
4	C:60:MET:SD	C:186:LYS:HG2	0.401
4	C:68:PHE:CB	C:199:ARG:CB	0.401
4	C:206:GLY:HA3	C:208:PHE:CD2	0.401
4	C:235:ILE:CD1	C:238:PHE:HE1	0.401
4	C:247:VAL:CG1	C:290:PHE:C	0.401
4	C:249:ALA:CA	C:301:VAL:CG2	0.401
4	C:266:LEU:HB3	C:348:ILE:CD1	0.401
4	C:283:ARG:CD	C:297:LEU:HD13	0.401
4	C:279:ASN:CB	C:297:LEU:HD21	0.401
4	C:318:TYR:CE2	C:319:THR:O	0.401
4	D:80:ILE:CG2	D:82:TRP:CE2	0.401
4	D:320:VAL:CG2	D:327:VAL:HG22	0.401

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	F:5:LEU:HD12	F:97:CYS:C	0.401
4	C:177:TYR:HD1	C:249:ALA:O	0.401
4	A:117:GLN:HB3	A:118:LEU:H	0.401
4	C:215:ASP:C	C:217:VAL:N	0.401
4	C:248:VAL:CG2	C:249:ALA:N	0.401
4	C:308:ILE:N	F:47:GLU:CB	0.401
4	D:172:GLU:CG	D:173:THR:N	0.401
4	A:386:VAL:O	A:390:PHE:HD2	0.401
4	D:85:TYR:CD2	E:60:PRO:O	0.401
4	D:297:TRP:NE1	D:302:ALA:HB1	0.400
4	F:30:PHE:CZ	F:73:ARG:CD	0.400
4	C:189:ASP:CG	C:190:TYR:N	0.400
4	F:7:GLU:CD	F:7:GLU:N	0.400
4	A:236:VAL:CG1	C:39:ALA:O	0.400
5	C:284:ASP:C	C:284:ASP:CA	1.576
5	C:292:ASN:C	C:292:ASN:CA	1.571
5	C:305:LYS:CA	C:305:LYS:N	1.569
5	C:280:LYS:C	C:280:LYS:CA	1.556
5	C:285:THR:CA	C:285:THR:N	1.544
5	C:391:TYR:C	C:391:TYR:CA	1.538
5	C:187:GLN:C	C:187:GLN:CA	1.533
5	C:188:ALA:C	C:188:ALA:CA	1.530
5	A:149:LEU:C	A:149:LEU:CA	1.526

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:58:LYS:C	C:58:LYS:CA	1.524
5	C:87:GLU:C	C:87:GLU:CA	1.524
5	C:392:GLU:C	C:392:GLU:CA	1.523
5	C:189:ASP:CA	C:189:ASP:N	1.510
5	C:285:THR:C	C:285:THR:CA	1.504
5	C:306:SER:C	C:306:SER:CA	1.503
5	C:304:GLY:C	C:304:GLY:CA	1.502
5	C:307:LYS:CA	C:307:LYS:N	1.502
5	C:286:SER:CA	C:286:SER:N	1.491
5	C:88:LYS:CA	C:88:LYS:N	1.489
5	C:393:LEU:CA	C:393:LEU:N	1.489
5	C:286:SER:C	C:287:VAL:N	1.485
5	C:305:LYS:C	C:306:SER:N	1.440
5	C:187:GLN:CA	C:187:GLN:N	1.425
5	C:287:VAL:CA	C:287:VAL:N	1.405
5	C:306:SER:CA	C:306:SER:N	1.385
5	C:51:SER:CA	C:51:SER:N	1.369
5	C:186:LYS:C	C:186:LYS:CA	1.362
5	C:50:GLU:C	C:50:GLU:CA	1.350
5	C:286:SER:C	C:286:SER:CA	1.316
5	C:50:GLU:C	C:50:GLU:HA	1.295
5	C:51:SER:HA	C:51:SER:N	1.246
5	C:305:LYS:C	C:305:LYS:CA	1.244

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:149:LEU:C	A:149:LEU:HA	1.126
5	C:50:GLU:HA	C:84:SER:HB3	1.126
5	C:292:ASN:C	C:292:ASN:CB	1.118
5	D:50:THR:HG22	D:337:LYS:HA	1.107
5	C:268:ALA:HB1	C:283:ARG:HB2	1.098
5	C:50:GLU:HB3	C:88:LYS:HB2	1.089
5	C:46:LEU:HD13	C:89:ALA:C	1.088
5	C:280:LYS:C	C:280:LYS:N	1.088
5	D:45:MET:HA	E:60:PRO:HG3	1.080
5	C:48:ALA:HB2	C:292:ASN:HA	1.079
5	C:92:VAL:HG11	C:244:ILE:HD13	1.074
5	C:279:ASN:C	C:280:LYS:C	1.066
5	C:97:ASN:HA	C:303:ALA:HB1	1.050
5	C:46:LEU:HA	C:89:ALA:H	1.044
5	C:52:GLY:HA2	C:231:ARG:HA	1.043
5	C:53:LYS:HB3	C:224:VAL:HG13	1.037
5	A:221:LEU:HD21	A:337:LEU:HA	1.032
5	C:182:ILE:HB	C:356:ARG:HG2	1.025
5	C:210:THR:HG22	C:221:MET:HB2	1.023
5	C:139:ASP:HB2	C:301:VAL:HG12	1.019
5	C:173:ASP:HA	D:290:ASP:HB2	1.019
5	A:149:LEU:HB3	C:393:LEU:HA	1.018
5	C:321:PRO:HG2	C:324:ALA:HB2	1.015

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:150:HIS:HB2	C:392:GLU:HB3	1.014
5	C:267:GLN:HG3	C:296:LEU:HD22	1.013
5	A:111:ARG:HA	A:111:ARG:HE	1.009
5	C:386:MET:HG2	C:392:GLU:HB2	1.009
5	C:54:ASN:H	C:91:LYS:HE2	1.004
5	C:260:ASP:HA	C:272:LEU:HD11	1.004
5	C:84:SER:HB2	C:87:GLU:HA	0.994
5	C:295:ASP:HB3	C:301:VAL:HG22	0.994
5	C:96:LYS:HE2	C:287:VAL:HG21	0.992
5	C:187:GLN:HA	C:379:CYS:HB3	0.992
5	C:301:VAL:HG11	C:307:LYS:HG2	0.990
5	A:72:VAL:HG21	A:106:SER:HB3	0.989
5	C:268:ALA:HB1	C:283:ARG:CB	0.978
5	C:44:LEU:HD21	C:54:ASN:HB3	0.977
5	C:99:LEU:HD12	C:179:LEU:HD23	0.976
5	F:41:ALA:HB3	F:44:LYS:HD2	0.976
5	C:71:GLU:HB2	C:201:ARG:HD2	0.975
5	C:92:VAL:HG12	C:246:PHE:CE1	0.973
5	C:127:ARG:HD2	C:153:LEU:HD22	0.971
5	C:309:GLU:HB3	F:60:SER:HB3	0.968
5	D:106:ALA:HB1	D:107:PRO:HD2	0.966
5	C:282:LEU:HB3	C:283:ARG:HD2	0.965
5	C:44:LEU:HD11	C:91:LYS:CG	0.961

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:183:ASP:HB2	C:386:MET:HB2	0.961
5	D:4:LEU:H	D:4:LEU:HD12	0.958
5	C:92:VAL:HG13	C:96:LYS:HD3	0.957
5	C:138:PRO:CB	C:302:LEU:HG	0.956
5	C:46:LEU:HD11	C:294:GLN:CA	0.953
5	C:88:LYS:HD2	C:223:ASP:HB3	0.953
5	A:149:LEU:HD23	C:394:LEU:N	0.951
5	D:187:VAL:HG12	D:203:ALA:HB2	0.951
5	D:115:GLY:HA3	D:146:LEU:HD21	0.948
5	C:247:VAL:HA	C:292:ASN:HB3	0.947
5	C:76:ASP:HB3	C:77:PRO:HD3	0.946
5	E:7:ALA:HB3	E:11:GLN:HG2	0.946
5	C:149:HIS:HB2	C:355:GLY:H	0.945
5	D:106:ALA:HB3	D:111:TYR:HB3	0.945
5	C:44:LEU:HB3	C:244:ILE:HG23	0.941
5	C:46:LEU:HB3	C:246:PHE:HA	0.941
5	C:46:LEU:HD11	C:294:GLN:N	0.941
5	C:78:GLN:HB3	C:198:LEU:HD11	0.940
5	C:55:THR:HA	C:238:PHE:HB2	0.937
5	D:273:ILE:HD12	D:287:ALA:HB1	0.935
5	C:149:HIS:HB2	C:354:ASP:HA	0.934
5	C:308:ILE:HD13	C:348:ILE:HG22	0.934
5	D:286:LEU:HD23	D:296:VAL:HG22	0.934

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:149:LEU:HB3	C:393:LEU:CA	0.931
5	A:348:MET:HE2	A:360:LYS:HG3	0.931
5	C:88:LYS:HA	C:224:VAL:CB	0.931
5	C:201:ARG:HE	C:210:THR:HA	0.931
5	C:113:LEU:HD11	C:165:ARG:HD2	0.930
5	C:247:VAL:HA	C:292:ASN:CB	0.929
5	C:293:LYS:HB3	C:300:LYS:HE2	0.929
5	A:125:TYR:HB2	A:365:LEU:HD21	0.925
5	C:44:LEU:HD11	C:91:LYS:HG3	0.924
5	C:271:LYS:HG3	C:297:LEU:HB2	0.924
5	D:71:VAL:HG22	D:81:ILE:HG22	0.924
5	C:51:SER:HB2	C:224:VAL:HB	0.922
5	C:202:VAL:HG22	C:211:LYS:HD3	0.922
5	C:305:LYS:C	F:108:CYS:HA	0.922
5	C:91:LYS:CD	C:235:ILE:HA	0.919
5	C:91:LYS:HD3	C:235:ILE:HG12	0.916
5	C:138:PRO:C	C:302:LEU:HD23	0.915
5	C:92:VAL:CG1	C:244:ILE:HB	0.911
5	D:57:LYS:HE2	D:59:TYR:HB2	0.911
5	A:143:LEU:HD21	A:379:TYR:CE2	0.910
5	C:69:ASN:HA	C:211:LYS:HG2	0.910
5	C:147:TYR:HA	C:357:HIS:H	0.909
5	C:186:LYS:HA	C:243:ALA:HB2	0.909

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:127:ARG:HG2	C:149:HIS:HB3	0.908
5	C:280:LYS:H	C:285:THR:HA	0.907
5	C:302:LEU:HD13	F:107:ASP:HA	0.906
5	D:122:SER:HA	D:138:GLU:HG2	0.905
5	A:121:LEU:HD22	A:122:TYR:H	0.904
5	C:147:TYR:HA	C:357:HIS:N	0.903
5	C:62:ILE:HD12	C:202:VAL:HA	0.900
5	C:50:GLU:HG2	C:88:LYS:HD3	0.899
5	C:36:VAL:HG11	C:190:TYR:HB2	0.898
5	D:27:ASP:HB2	D:32:GLN:HB2	0.897
5	C:142:PHE:HA	C:349:SER:HB3	0.896
5	C:271:LYS:HE2	C:284:ASP:HA	0.896
5	F:19:LEU:HD12	F:21:LEU:CD1	0.896
5	C:142:PHE:HA	C:349:SER:CB	0.895
5	C:147:TYR:N	C:355:GLY:HA2	0.894
5	C:124:ASN:HB2	C:153:LEU:HD11	0.893
5	C:127:ARG:CD	C:153:LEU:HD22	0.892
5	C:245:ILE:HB	C:288:ILE:HG13	0.892
5	C:44:LEU:HD23	C:57:VAL:HG12	0.891
5	D:206:ALA:HB1	D:225:HIS:HB2	0.891
5	D:200:VAL:CG2	D:210:LEU:HG	0.890
5	C:57:VAL:HG22	C:222:PHE:HD1	0.889
5	C:244:ILE:HG22	C:246:PHE:CD1	0.889

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:96:LYS:CE	C:287:VAL:HG21	0.888
5	D:124:TYR:CD2	D:126:LEU:HG	0.888
5	D:117:LEU:HD13	D:118:ASP:H	0.887
5	D:296:VAL:HG12	D:305:ALA:HB3	0.887
5	C:46:LEU:HD12	C:47:GLY:H	0.886
5	C:134:VAL:HG22	C:137:VAL:HG21	0.886
5	C:238:PHE:CD2	C:241:VAL:HG21	0.884
5	C:246:PHE:CE1	C:287:VAL:HB	0.884
5	F:70:THR:HG22	F:83:GLN:HB2	0.884
5	C:48:ALA:HB3	C:248:VAL:CB	0.883
5	C:46:LEU:HA	C:89:ALA:N	0.882
5	C:49:GLY:N	C:248:VAL:HA	0.882
5	C:266:LEU:HD23	F:113:SER:HB3	0.881
5	C:88:LYS:HA	C:224:VAL:CG2	0.879
5	C:124:ASN:HB2	C:153:LEU:HD21	0.879
5	C:48:ALA:HB3	C:248:VAL:HB	0.878
5	C:53:LYS:CB	C:224:VAL:HG13	0.876
5	D:99:TRP:CB	D:117:LEU:HD12	0.876
5	D:252:LEU:HD13	D:253:PHE:N	0.875
5	A:129:TYR:CD1	A:168:ALA:HB1	0.873
5	C:260:ASP:H	C:282:LEU:HD22	0.872
5	C:81:ARG:HB2	C:83:ASN:HA	0.871
5	C:246:PHE:CD2	C:293:LYS:HA	0.870

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:57:LYS:HZ3	D:75:GLN:HB3	0.870
5	C:88:LYS:HA	C:224:VAL:HB	0.868
5	C:94:ASP:HB3	C:235:ILE:HG13	0.868
5	C:53:LYS:HE3	D:117:LEU:HB2	0.867
5	C:143:PRO:HB2	C:144:PRO:HD2	0.867
5	D:99:TRP:HB3	D:117:LEU:HD12	0.867
5	D:211:TRP:HE1	D:213:VAL:HA	0.863
5	C:44:LEU:HB2	C:244:ILE:HG13	0.862
5	C:187:GLN:HB3	C:242:THR:HG21	0.862
5	D:47:THR:HG22	D:48:ARG:H	0.862
5	C:143:PRO:HD2	C:146:PHE:HB3	0.860
5	C:293:LYS:HB3	C:300:LYS:HG3	0.860
5	D:124:TYR:CE2	D:126:LEU:HA	0.860
5	C:260:ASP:CA	C:272:LEU:HD11	0.859
5	C:52:GLY:CA	C:231:ARG:HA	0.858
5	C:87:GLU:HB3	C:227:GLN:HG3	0.858
5	C:209:GLU:HG2	C:211:LYS:HE3	0.858
5	C:246:PHE:HD2	C:293:LYS:HA	0.858
5	A:253:VAL:HB	A:254:PRO:HD3	0.857
5	C:95:ILE:HG23	C:178:PHE:HE2	0.857
5	C:241:VAL:HG12	C:242:THR:H	0.856
5	D:81:ILE:HG13	D:90:VAL:HB	0.856
5	C:46:LEU:HD13	C:90:THR:N	0.854

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:47:GLY:HA2	C:49:GLY:H	0.854
5	C:93:GLN:HE21	C:303:ALA:HB2	0.854
5	C:392:GLU:C	C:392:GLU:CB	0.854
5	D:252:LEU:HB3	D:262:MET:HG2	0.854
5	A:382:VAL:HG23	C:120:ALA:HB1	0.853
5	C:44:LEU:HD21	C:54:ASN:CB	0.853
5	C:60:MET:HE1	C:205:SER:HA	0.853
5	C:386:MET:CG	C:392:GLU:HB2	0.853
5	B:22:PHE:CZ	B:26:LEU:HD11	0.851
5	D:49:ARG:HD2	E:55:PRO:HB3	0.851
5	A:333:LEU:HD11	A:337:LEU:HD13	0.850
5	C:44:LEU:HD13	C:244:ILE:HG21	0.850
5	C:56:ILE:HG23	D:99:TRP:CD2	0.850
5	C:82:SER:HB3	C:224:VAL:HA	0.850
5	C:305:LYS:HG3	F:105:THR:HG23	0.848
5	A:129:TYR:CE1	A:168:ALA:HB1	0.847
5	C:46:LEU:HD23	C:246:PHE:CG	0.847
5	D:219:ARG:HG2	D:220:GLN:HG3	0.847
5	A:305:ILE:HA	A:308:VAL:CG2	0.844
5	D:150:ARG:NE	D:192:LEU:HG	0.844
5	C:147:TYR:HB2	C:358:TYR:HB2	0.842
5	A:149:LEU:HD13	C:180:ASP:CB	0.841
5	A:387:GLN:HB2	C:125:GLN:HG2	0.841

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:289:LEU:HD11	C:360:TYR:HD2	0.841
5	C:286:SER:N	C:293:LYS:HB2	0.837
5	A:148:HIS:C	A:149:LEU:HD12	0.836
5	A:182:TYR:HB2	B:18:ALA:HB3	0.836
5	A:261:TRP:HZ3	A:283:TRP:HA	0.836
5	C:286:SER:H	C:293:LYS:HB2	0.835
5	A:111:ARG:HA	A:111:ARG:NE	0.834
5	C:170:GLN:HB3	D:270:ILE:HG23	0.834
5	C:151:LYS:HG3	C:389:ARG:HH11	0.832
5	D:292:PHE:CD1	D:315:VAL:HG22	0.832
5	C:2:GLY:HA2	C:394:LEU:HB3	0.831
5	C:183:ASP:HB2	C:386:MET:HE2	0.831
5	C:70:GLY:HA2	C:74:GLU:HG3	0.830
5	C:289:LEU:HD11	C:360:TYR:CD2	0.830
5	C:289:LEU:HD12	C:360:TYR:HB3	0.830
5	C:97:ASN:CA	C:303:ALA:HB1	0.829
5	C:148:GLU:N	C:355:GLY:HA3	0.829
5	C:50:GLU:HB3	C:88:LYS:CB	0.828
5	C:80:ALA:HB1	C:209:GLU:H	0.828
5	C:92:VAL:HG22	C:95:ILE:CG2	0.828
5	C:149:HIS:CB	C:354:ASP:HA	0.828
5	C:238:PHE:CE2	C:241:VAL:HG11	0.828
5	C:54:ASN:N	C:91:LYS:HE2	0.827

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:151:LYS:HD3	C:182:ILE:HD13	0.827
5	C:90:THR:HG21	C:299:GLU:HB2	0.826
5	C:41:HIS:HB2	C:188:ALA:HA	0.825
5	C:80:ALA:HB3	C:201:ARG:NH1	0.825
5	C:45:LEU:O	C:89:ALA:HB3	0.825
5	C:103:ILE:HD11	C:127:ARG:HH21	0.825
5	C:186:LYS:HE2	C:382:ILE:HB	0.825
5	D:112:VAL:HG23	D:126:LEU:HD11	0.825
5	F:62:THR:CG2	F:65:VAL:HG23	0.825
5	C:188:ALA:C	C:188:ALA:CB	0.824
5	C:201:ARG:NE	C:210:THR:HA	0.824
5	D:318:LEU:HD13	D:319:GLY:N	0.823
5	A:54:PRO:HA	A:81:CYS:SG	0.821
5	C:91:LYS:CE	C:235:ILE:HA	0.821
5	C:106:ILE:HD11	C:163:TYR:HB2	0.821
5	C:119:LEU:HD11	C:156:ASP:CG	0.821
5	C:188:ALA:HB1	C:218:ASN:N	0.821
5	C:286:SER:HB3	C:345:PHE:HD2	0.819
5	A:57:PHE:HA	A:78:TYR:CE1	0.818
5	C:5:GLY:HA2	D:52:ARG:NE	0.818
5	C:77:PRO:HD2	C:198:LEU:HD23	0.818
5	C:150:ALA:HB3	C:356:ARG:N	0.818
5	C:246:PHE:CZ	C:287:VAL:HB	0.818

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:99:TRP:CE3	D:117:LEU:HB3	0.818
5	C:84:SER:H	C:88:LYS:HG3	0.817
5	D:273:ILE:CD1	D:287:ALA:HB1	0.817
5	F:19:LEU:HD12	F:21:LEU:HD11	0.817
5	C:139:ASP:H	C:302:LEU:HB2	0.816
5	C:99:LEU:HD13	C:178:PHE:HD1	0.815
5	C:113:LEU:HD11	C:165:ARG:CD	0.815
5	C:179:LEU:HD23	C:356:ARG:HD3	0.815
5	D:124:TYR:CE1	D:133:VAL:HG13	0.815
5	C:72:GLY:HA3	C:76:ASP:HB2	0.814
5	C:83:ASN:CA	C:225:GLY:HA3	0.814
5	D:232:ILE:HB	D:241:PHE:CE1	0.813
5	D:256:ARG:HD3	E:28:ILE:HD12	0.813
5	C:155:GLU:HG3	C:390:GLN:HG2	0.812
5	C:281:TRP:CB	C:284:ASP:HB2	0.812
5	C:82:SER:HB2	C:224:VAL:N	0.811
5	C:141:ASP:HB3	C:345:PHE:HA	0.811
5	C:295:ASP:HB2	C:297:LEU:HA	0.811
5	D:99:TRP:CZ3	D:117:LEU:HB3	0.811
5	D:124:TYR:CD1	D:133:VAL:HG13	0.811
5	C:280:LYS:N	C:285:THR:HA	0.810
5	D:124:TYR:CZ	D:133:VAL:HA	0.809
5	C:46:LEU:HB2	C:89:ALA:CB	0.808

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:92:VAL:HG12	C:246:PHE:HE1	0.808
5	C:245:ILE:HG12	C:247:VAL:HG13	0.808
5	C:42:ARG:CB	C:241:VAL:HG13	0.807
5	C:47:GLY:CA	C:284:ASP:HB3	0.807
5	C:208:PHE:HE1	C:210:THR:HG22	0.807
5	A:98:ARG:HG2	A:100:LEU:HD22	0.806
5	D:52:ARG:H	D:52:ARG:HD2	0.806
5	D:235:PHE:CE1	E:37:LEU:HD21	0.806
5	A:149:LEU:HA	C:393:LEU:O	0.805
5	C:271:LYS:HD3	C:284:ASP:N	0.805
5	D:47:THR:HG22	D:48:ARG:N	0.805
5	A:261:TRP:CZ3	A:283:TRP:HA	0.804
5	A:298:PHE:HB2	A:342:VAL:HG21	0.804
5	C:46:LEU:HB2	C:89:ALA:HB3	0.804
5	C:57:VAL:HG13	C:222:PHE:HB3	0.804
5	C:298:ALA:HB2	F:111:VAL:HG23	0.804
5	A:149:LEU:HD13	C:180:ASP:HB3	0.803
5	C:151:LYS:HB2	C:356:ARG:HG3	0.802
5	C:224:VAL:HG12	C:227:GLN:HB3	0.802
5	C:289:LEU:HD12	C:360:TYR:C	0.802
5	D:63:TRP:CD1	D:321:THR:HB	0.802
5	C:141:ASP:HB2	C:293:LYS:HE3	0.801
5	C:271:LYS:HB3	C:280:LYS:HB3	0.801

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:402:LEU:HG	A:403:HIS:N	0.800
5	C:81:ARG:HG3	C:83:ASN:HB2	0.800
5	C:92:VAL:HG11	C:244:ILE:CD1	0.800
5	D:18:ILE:HD11	E:23:ALA:HB2	0.800
5	D:200:VAL:HG22	D:210:LEU:HA	0.800
5	A:415:CYS:HB3	A:416:PRO:HA	0.799
5	C:201:ARG:HG2	C:202:VAL:H	0.798
5	C:296:LEU:CB	C:299:GLU:HB2	0.798
5	C:142:PHE:N	C:349:SER:HB3	0.798
5	A:294:ILE:HG23	A:342:VAL:HG23	0.797
5	C:56:ILE:HG23	D:99:TRP:CE3	0.797
5	C:59:GLN:HG2	C:60:MET:H	0.796
5	C:92:VAL:HB	C:244:ILE:HG12	0.796
5	C:48:ALA:HB2	C:292:ASN:CA	0.795
5	C:56:ILE:HG12	D:99:TRP:HA	0.795
5	D:123:ILE:HG22	D:137:ARG:O	0.795
5	A:333:LEU:HD11	A:337:LEU:CD1	0.794
5	C:44:LEU:HD12	C:92:VAL:HG23	0.794
5	C:92:VAL:CG1	C:96:LYS:HD3	0.793
5	F:15:PRO:HG3	F:127:VAL:HB	0.793
5	A:264:VAL:HB	A:282:TYR:CE1	0.792
5	C:48:ALA:CA	C:279:ASN:HB3	0.791
5	F:41:ALA:HB3	F:44:LYS:CD	0.791

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:71:SER:HB3	A:108:ARG:HH21	0.790
5	A:156:ILE:HD11	A:224:GLU:HB2	0.790
5	C:141:ASP:HA	C:293:LYS:HE3	0.790
5	C:173:ASP:HA	D:290:ASP:CB	0.790
5	C:296:LEU:HB2	C:299:GLU:HB2	0.789
5	C:305:LYS:HB2	F:100:CYS:HB2	0.789
5	D:211:TRP:CH2	D:216:GLY:HA2	0.789
5	A:143:LEU:HD11	A:379:TYR:CE2	0.788
5	C:208:PHE:CE1	C:210:THR:HB	0.788
5	C:42:ARG:HB3	C:241:VAL:HG13	0.787
5	C:44:LEU:HD12	C:92:VAL:CG2	0.787
5	C:82:SER:N	C:208:PHE:HB2	0.787
5	C:232:ARG:HA	C:235:ILE:HG21	0.787
5	C:243:ALA:HB1	C:288:ILE:HD13	0.787
5	C:363:PHE:CE2	C:366:ALA:HB2	0.787
5	C:31:GLN:HA	C:34:LYS:HG2	0.786
5	C:121:ASN:HD21	C:123:GLU:HB3	0.786
5	C:248:VAL:HG23	C:281:TRP:CD1	0.786
5	C:231:ARG:HB3	C:299:GLU:HG2	0.784
5	A:231:LEU:HG	C:387:HIS:CD2	0.783
5	D:259:GLN:HG2	D:260:GLU:H	0.783
5	C:50:GLU:CB	C:88:LYS:HB2	0.782
5	C:52:GLY:HA2	C:231:ARG:CA	0.782

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:107:VAL:HG11	C:128:VAL:HG11	0.782
5	D:184:THR:HG22	E:2:ALA:H	0.782
5	C:299:GLU:HG3	F:109:PHE:HB3	0.781
5	C:305:LYS:CG	F:105:THR:HG23	0.781
5	A:150:HIS:CB	C:392:GLU:HB3	0.780
5	C:44:LEU:HD13	C:89:ALA:HB1	0.780
5	C:87:GLU:HB2	C:265:ARG:CZ	0.779
5	C:293:LYS:CD	C:300:LYS:HD3	0.779
5	D:52:ARG:NH1	D:87:THR:HG21	0.779
5	D:124:TYR:CE2	D:126:LEU:HG	0.779
5	D:167:ALA:HB3	D:176:GLN:NE2	0.779
5	D:286:LEU:HD12	D:318:LEU:HD21	0.779
5	A:105:GLU:HG3	A:108:ARG:HH11	0.778
5	A:142:ILE:HG23	A:143:LEU:HD23	0.778
5	C:93:GLN:CB	C:300:LYS:HG2	0.778
5	C:141:ASP:HA	C:293:LYS:CE	0.778
5	C:151:LYS:HD2	C:386:MET:CE	0.778
5	C:246:PHE:CD1	C:287:VAL:HB	0.778
5	C:268:ALA:HA	C:271:LYS:HD2	0.778
5	C:289:LEU:HD22	C:290:PHE:CD1	0.777
5	C:302:LEU:CD1	F:107:ASP:HA	0.776
5	C:363:PHE:HE2	C:366:ALA:HB2	0.776
5	D:54:HIS:CE1	D:58:ILE:HD13	0.776

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:205:LEU:CD2	A:208:LEU:HD12	0.775
5	C:100:LYS:HD2	C:140:PHE:CD1	0.775
5	C:268:ALA:HB1	C:283:ARG:CA	0.775
5	B:26:LEU:HA	B:31:GLY:HA3	0.774
5	C:99:LEU:HB3	C:178:PHE:CD1	0.774
5	D:142:HIS:CE1	D:161:SER:HB3	0.774
5	A:327:ALA:O	A:331:LEU:HG	0.773
5	C:43:LEU:HD22	C:44:LEU:H	0.773
5	C:45:LEU:HD22	C:247:VAL:HG21	0.773
5	C:147:TYR:CD2	C:358:TYR:HB2	0.773
5	C:260:ASP:HA	C:272:LEU:HD21	0.773
5	D:22:ARG:HB2	E:27:ARG:HD2	0.773
5	C:142:PHE:CA	C:349:SER:HB3	0.772
5	C:308:ILE:HG13	C:310:ASP:HB3	0.772
5	A:149:LEU:HB2	C:180:ASP:HB3	0.771
5	A:305:ILE:HD13	A:330:THR:HG22	0.771
5	C:208:PHE:CG	C:223:ASP:HB2	0.771
5	C:266:LEU:HB2	F:113:SER:CB	0.771
5	E:15:LEU:HD23	E:19:LEU:HD13	0.771
5	C:304:GLY:H	F:107:ASP:HB2	0.771
5	A:46:TYR:HB2	B:27:VAL:HG22	0.770
5	A:370:PHE:O	A:373:LEU:HD22	0.770
5	C:51:SER:HB2	C:88:LYS:N	0.770

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:90:THR:CG2	C:296:LEU:HD12	0.770
5	C:93:GLN:HB2	C:246:PHE:CE2	0.770
5	A:174:LYS:HZ3	A:178:LEU:HD11	0.769
5	A:211:GLN:HA	B:1:HIS:HD2	0.769
5	C:139:ASP:HA	C:301:VAL:O	0.769
5	D:27:ASP:HB2	D:32:GLN:CB	0.769
5	C:127:ARG:HG3	C:153:LEU:HD13	0.768
5	D:183:HIS:HE1	D:201:SER:HB3	0.768
5	C:54:ASN:HB3	C:91:LYS:HG2	0.767
5	C:56:ILE:HB	C:237:CYS:HB3	0.766
5	C:139:ASP:N	C:302:LEU:HD23	0.766
5	C:315:PHE:CZ	C:336:ARG:HG2	0.766
5	D:150:ARG:CZ	D:192:LEU:HD23	0.766
5	A:150:HIS:N	C:393:LEU:N	0.766
5	C:244:ILE:HG22	C:246:PHE:CE1	0.765
5	F:39:ARG:HG3	F:95:TYR:HE1	0.765
5	C:305:LYS:N	F:107:ASP:N	0.765
5	C:90:THR:HA	C:294:GLN:HB2	0.764
5	C:99:LEU:CD1	C:179:LEU:HD23	0.764
5	C:99:LEU:HB3	C:178:PHE:CG	0.764
5	C:321:PRO:HG2	C:324:ALA:CB	0.764
5	D:151:PHE:CE2	D:154:ASP:HA	0.764
5	D:235:PHE:CG	D:236:PRO:HD2	0.764

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:58:LYS:HB2	C:241:VAL:HG22	0.763
5	C:99:LEU:HD22	C:178:PHE:CE1	0.763
5	A:139:ALA:HA	A:142:ILE:HG22	0.762
5	C:134:VAL:CB	C:351:ALA:HB1	0.762
5	C:104:GLU:OE2	C:135:MET:HA	0.762
5	C:150:ALA:CB	C:356:ARG:HB2	0.762
5	C:181:LYS:NZ	C:239:ASN:HA	0.762
5	C:45:LEU:HB2	C:88:LYS:NZ	0.761
5	C:54:ASN:HB2	C:88:LYS:O	0.761
5	C:60:MET:HG3	D:97:SER:CA	0.761
5	C:134:VAL:HB	C:351:ALA:CA	0.761
5	F:54:GLN:HG3	F:55:SER:H	0.761
5	D:264:TYR:CE2	D:297:TRP:HB2	0.760
5	F:13:VAL:HG23	F:127:VAL:HG12	0.760
5	C:128:VAL:HA	C:131:ILE:HG22	0.759
5	C:147:TYR:HB2	C:358:TYR:N	0.759
5	D:18:ILE:HD11	E:23:ALA:HA	0.759
5	D:278:PHE:CE2	D:285:LEU:HD12	0.759
5	C:82:SER:CB	C:224:VAL:HA	0.758
5	C:140:PHE:CA	C:348:ILE:HB	0.757
5	C:147:TYR:HB2	C:358:TYR:CA	0.757
5	C:271:LYS:HE2	C:284:ASP:CA	0.757
5	C:285:THR:HG23	C:300:LYS:HE2	0.757

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:293:LYS:HB3	C:300:LYS:CE	0.757
5	D:111:TYR:CE2	D:123:ILE:HG13	0.757
5	E:54:VAL:HG23	E:55:PRO:HD2	0.757
5	C:41:HIS:HB2	C:188:ALA:CA	0.756
5	C:127:ARG:HG2	C:354:ASP:HB3	0.756
5	C:140:PHE:CZ	C:352:SER:HB2	0.756
5	D:150:ARG:HG2	D:151:PHE:H	0.756
5	A:339:THR:O	A:342:VAL:HG12	0.755
5	C:51:SER:HB2	C:88:LYS:CA	0.755
5	D:52:ARG:HG2	D:53:GLY:H	0.755
5	C:49:GLY:HA2	C:281:TRP:CB	0.754
5	C:138:PRO:HB2	C:302:LEU:HG	0.754
5	C:148:GLU:C	C:355:GLY:HA3	0.754
5	D:99:TRP:CD2	D:117:LEU:HB3	0.754
5	A:221:LEU:HD11	A:338:GLY:N	0.753
5	C:24:LYS:HA	C:27:GLU:HG2	0.753
5	F:33:TYR:CE1	F:35:MET:HB2	0.753
5	C:143:PRO:HG2	C:146:PHE:H	0.752
5	D:124:TYR:CZ	D:133:VAL:HG22	0.752
5	D:276:VAL:HG13	D:285:LEU:HD21	0.752
5	C:44:LEU:HD12	C:92:VAL:CB	0.751
5	C:90:THR:HB	C:296:LEU:HG	0.751
5	C:149:HIS:CB	C:355:GLY:H	0.751

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:280:LYS:HA	C:285:THR:HB	0.751
5	C:295:ASP:HA	C:300:LYS:HE3	0.751
5	A:205:LEU:HD21	A:208:LEU:HD12	0.750
5	C:31:GLN:HG3	C:34:LYS:HE3	0.750
5	C:58:LYS:HB2	C:58:LYS:HZ3	0.750
5	C:92:VAL:HB	C:244:ILE:CG1	0.750
5	C:147:TYR:CZ	C:385:ARG:HB2	0.750
5	C:289:LEU:CD2	C:290:PHE:HA	0.750
5	A:267:LEU:HD13	A:268:TYR:N	0.749
5	C:68:PHE:C	C:211:LYS:HG2	0.749
5	C:234:TRP:CH2	D:101:MET:HB2	0.749
5	D:43:ILE:HG23	D:44:GLN:H	0.749
5	D:56:ALA:HB1	D:75:GLN:HG2	0.749
5	A:149:LEU:HD23	C:394:LEU:H	0.748
5	C:99:LEU:HD13	C:178:PHE:CD1	0.748
5	C:150:ALA:N	C:354:ASP:HB2	0.748
5	D:71:VAL:CG2	D:81:ILE:HG22	0.748
5	A:236:VAL:O	A:237:LEU:HD23	0.747
5	C:45:LEU:CD2	C:245:ILE:HG23	0.747
5	C:210:THR:CG2	C:221:MET:HB2	0.747
5	D:124:TYR:CZ	D:133:VAL:HG13	0.747
5	A:105:GLU:HA	A:108:ARG:HH12	0.746
5	C:44:LEU:HB2	C:244:ILE:CG1	0.746

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:46:LEU:HD11	C:294:GLN:CB	0.746
5	C:71:GLU:HB2	C:201:ARG:HH11	0.746
5	D:50:THR:HG21	D:335:PHE:CD1	0.746
5	C:293:LYS:HD3	C:300:LYS:HD3	0.745
5	C:392:GLU:HG2	C:393:LEU:N	0.745
5	D:211:TRP:NE1	D:213:VAL:HA	0.745
5	A:211:GLN:HA	B:1:HIS:CD2	0.744
5	C:94:ASP:HB3	C:235:ILE:CG1	0.744
5	C:134:VAL:HG11	C:351:ALA:HB1	0.744
5	C:134:VAL:HG13	C:137:VAL:HB	0.744
5	C:214:VAL:HG22	C:219:PHE:HE2	0.744
5	C:83:ASN:N	C:225:GLY:HA3	0.744
5	D:70:LEU:O	D:70:LEU:HD22	0.744
5	D:194:PRO:HD2	D:234:PHE:CD2	0.744
5	C:47:GLY:HA2	C:49:GLY:N	0.743
5	C:90:THR:HG21	C:296:LEU:HD12	0.743
5	C:92:VAL:HG11	C:244:ILE:HB	0.743
5	C:96:LYS:HE2	C:246:PHE:CZ	0.743
5	C:264:ASN:OD1	C:266:LEU:HD21	0.743
5	C:289:LEU:HD22	C:290:PHE:CG	0.743
5	D:115:GLY:CA	D:146:LEU:HD21	0.743
5	D:139:LEU:HD13	D:169:TRP:CD1	0.743
5	C:91:LYS:HA	C:91:LYS:H22	0.742

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:211:LYS:HE2	C:220:HIS:CG	0.742
5	C:386:MET:SD	C:392:GLU:HB2	0.742
5	D:45:MET:HG3	E:60:PRO:HG2	0.742
5	D:292:PHE:CD1	D:311:HIS:HB2	0.742
5	C:84:SER:HB2	C:87:GLU:CA	0.741
5	C:151:LYS:HG2	C:389:ARG:HG3	0.741
5	C:214:VAL:HG23	C:376:PHE:CD1	0.741
5	C:181:LYS:HZ2	C:239:ASN:HA	0.741
5	A:391:ARG:HE	C:129:ASP:HA	0.740
5	C:96:LYS:NZ	C:142:PHE:HB2	0.740
5	D:151:PHE:CZ	D:154:ASP:HA	0.740
5	A:59:ASN:HA	A:76:HIS:CD2	0.739
5	A:334:ILE:HG12	A:340:HIS:CE1	0.739
5	C:232:ARG:HB3	F:109:PHE:CE1	0.739
5	C:308:ILE:HD13	C:348:ILE:CG2	0.739
5	D:69:LEU:HD22	D:70:LEU:H	0.739
5	D:286:LEU:HD23	D:296:VAL:CG2	0.739
5	A:16:TRP:HB2	A:65:TYR:CE1	0.738
5	C:69:ASN:HB2	C:212:PHE:N	0.738
5	C:75:GLU:HB2	C:201:ARG:HH12	0.738
5	C:90:THR:HG21	C:296:LEU:HB2	0.738
5	C:124:ASN:HB2	C:153:LEU:CD1	0.738
5	C:231:ARG:HB3	C:296:LEU:CD1	0.738

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:174:LYS:O	A:178:LEU:HG	0.737
5	C:45:LEU:HD23	C:245:ILE:HG23	0.737
5	C:53:LYS:HD2	D:145:TYR:HD2	0.737
5	C:183:ASP:CB	C:386:MET:HB2	0.737
5	C:208:PHE:CZ	C:210:THR:HB	0.737
5	D:292:PHE:CE1	D:315:VAL:HG22	0.737
5	C:50:GLU:C	C:84:SER:HB3	0.736
5	C:97:ASN:HB2	C:304:GLY:H	0.736
5	C:151:LYS:HE3	C:386:MET:CA	0.736
5	C:212:PHE:CE2	C:214:VAL:HG13	0.736
5	C:266:LEU:HG	F:45:GLY:HA2	0.735
5	C:271:LYS:CB	C:280:LYS:HB3	0.735
5	D:124:TYR:CG	D:133:VAL:HG13	0.735
5	F:62:THR:HG21	F:65:VAL:HG23	0.735
5	C:45:LEU:C	C:89:ALA:HB3	0.734
5	C:300:LYS:C	C:300:LYS:HD2	0.734
5	D:103:CYS:HA	D:114:CYS:SG	0.734
5	A:174:LYS:HG3	A:206:VAL:HG11	0.733
5	C:46:LEU:HD21	C:294:GLN:N	0.733
5	C:141:ASP:HB3	C:345:PHE:CA	0.733
5	C:155:GLU:HB2	C:389:ARG:HE	0.733
5	C:53:LYS:HB3	C:224:VAL:CG1	0.732
5	C:208:PHE:HD1	C:222:PHE:HA	0.732

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:271:LYS:NZ	C:294:GLN:HG2	0.732
5	C:296:LEU:HD13	C:299:GLU:OE2	0.732
5	D:237:ASN:HB2	E:40:TYR:CZ	0.732
5	C:44:LEU:HD12	C:244:ILE:HG12	0.731
5	C:149:HIS:HB2	C:355:GLY:N	0.731
5	C:295:ASP:CB	C:297:LEU:HA	0.731
5	C:87:GLU:HG3	C:265:ARG:NH2	0.730
5	C:247:VAL:HG12	C:292:ASN:ND2	0.730
5	A:212:TYR:CD1	A:255:LEU:HD23	0.729
5	A:223:VAL:HG12	A:246:TYR:CZ	0.729
5	C:140:PHE:HA	C:348:ILE:HB	0.729
5	C:185:ILE:CD1	C:244:ILE:HD13	0.729
5	C:300:LYS:HD2	C:301:VAL:CA	0.729
5	A:255:LEU:O	A:259:VAL:HG23	0.728
5	C:57:VAL:CA	C:222:PHE:HB3	0.728
5	C:141:ASP:CB	C:345:PHE:HA	0.728
5	C:179:LEU:HB3	C:356:ARG:NH1	0.728
5	C:186:LYS:HB2	C:382:ILE:CB	0.728
5	C:293:LYS:NZ	C:300:LYS:HD3	0.728
5	D:292:PHE:CG	D:311:HIS:HB2	0.728
5	C:46:LEU:CD1	C:47:GLY:H	0.727
5	C:100:LYS:HE3	C:140:PHE:CE2	0.727
5	C:124:ASN:CB	C:153:LEU:HD11	0.727

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:187:GLN:C	C:187:GLN:CB	0.727
5	C:233:LYS:H	C:235:ILE:HG22	0.727
5	C:238:PHE:CZ	C:241:VAL:HG11	0.727
5	C:266:LEU:CD1	C:269:ALA:HB3	0.727
5	C:295:ASP:HB2	C:297:LEU:HG	0.727
5	A:387:GLN:HG3	C:125:GLN:HB3	0.726
5	C:56:ILE:HG22	C:237:CYS:HB2	0.726
5	C:139:ASP:CB	C:301:VAL:HG12	0.726
5	C:178:PHE:CZ	C:181:LYS:HE2	0.726
5	C:392:GLU:C	C:392:GLU:CG	0.726
5	C:46:LEU:HD21	C:293:LYS:C	0.725
5	C:99:LEU:HD12	C:179:LEU:CD2	0.725
5	C:298:ALA:HA	F:48:TRP:CZ3	0.725
5	C:141:ASP:N	C:348:ILE:HG13	0.725
5	D:69:LEU:HD21	D:81:ILE:HB	0.725
5	D:59:TYR:HE2	D:101:MET:HE3	0.725
5	D:119:ASN:HD21	D:146:LEU:HB3	0.725
5	F:23:CYS:HB2	F:80:LEU:HD23	0.725
5	C:50:GLU:HA	C:84:SER:CB	0.724
5	C:81:ARG:C	C:208:PHE:HB2	0.724
5	C:107:VAL:HB	C:127:ARG:HH12	0.724
5	C:119:LEU:HD11	C:156:ASP:OD1	0.724
5	C:128:VAL:HG23	C:153:LEU:CD2	0.724

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:151:LYS:HE2	C:385:ARG:HD2	0.724
5	C:184:VAL:HA	C:242:THR:HA	0.724
5	C:69:ASN:ND2	C:191:VAL:HG11	0.724
5	C:270:LEU:HD12	C:297:LEU:HD11	0.724
5	C:293:LYS:HB3	C:300:LYS:CD	0.724
5	C:151:LYS:HZ1	C:385:ARG:HD2	0.724
5	C:306:SER:N	F:108:CYS:HA	0.724
5	C:53:LYS:HE3	D:117:LEU:CD2	0.723
5	C:90:THR:CB	C:296:LEU:HB2	0.723
5	C:92:VAL:CG2	C:244:ILE:HG12	0.723
5	C:154:TRP:CZ3	C:179:LEU:HD13	0.723
5	D:12:GLU:HA	D:15:LYS:HE2	0.723
5	C:60:MET:N	D:98:SER:HB2	0.723
5	D:99:TRP:CH2	D:117:LEU:HB3	0.723
5	D:264:TYR:HE2	D:297:TRP:HB2	0.723
5	A:80:PHE:HB3	A:88:LEU:HG	0.722
5	C:147:TYR:CE2	C:385:ARG:HB2	0.722
5	C:246:PHE:CE2	C:287:VAL:HB	0.722
5	C:284:ASP:C	C:284:ASP:CB	0.722
5	C:298:ALA:HB3	C:299:GLU:OE1	0.722
5	C:304:GLY:HA3	F:106:ARG:C	0.722
5	A:305:ILE:HA	A:308:VAL:HG22	0.721
5	C:245:ILE:CG1	C:247:VAL:HG13	0.721

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:13:VAL:HG21	A:191:TRP:CZ3	0.720
5	A:397:TRP:CE3	A:398:ARG:HG3	0.720
5	C:92:VAL:CG1	C:185:ILE:HD11	0.720
5	C:248:VAL:HG12	C:292:ASN:OD1	0.720
5	D:289:TYR:CZ	D:295:ASN:HB2	0.720
5	F:69:PHE:CZ	F:84:MET:HG3	0.720
5	A:66:LEU:HD22	A:67:PRO:N	0.719
5	A:297:ASN:OD1	A:337:LEU:HD23	0.719
5	C:93:GLN:HG2	C:300:LYS:HG2	0.719
5	C:182:ILE:HD12	C:356:ARG:C	0.719
5	C:305:LYS:C	F:108:CYS:HB3	0.719
5	C:394:LEU:H	C:394:LEU:HD12	0.719
5	C:134:VAL:CG1	C:137:VAL:HB	0.718
5	C:143:PRO:HA	C:359:CYS:SG	0.718
5	C:247:VAL:HA	C:292:ASN:CG	0.718
5	C:281:TRP:HB2	C:284:ASP:HB2	0.718
5	D:264:TYR:HA	D:297:TRP:CZ2	0.718
5	C:48:ALA:CB	C:248:VAL:HB	0.717
5	C:178:PHE:CG	C:181:LYS:HD2	0.717
5	C:69:ASN:ND2	C:191:VAL:HG21	0.717
5	C:280:LYS:HG2	C:285:THR:HB	0.717
5	C:284:ASP:C	C:284:ASP:HA	0.717
5	F:13:VAL:HG23	F:127:VAL:CG1	0.717

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:16:TRP:HH2	A:46:TYR:HA	0.716
5	A:215:ALA:HA	A:218:TYR:CD2	0.716
5	C:88:LYS:HB3	C:88:LYS:NZ	0.716
5	C:84:SER:N	C:88:LYS:HG3	0.716
5	C:113:LEU:CD1	C:165:ARG:HD2	0.716
5	C:127:ARG:CG	C:153:LEU:HD22	0.716
5	C:208:PHE:CE1	C:210:THR:HG22	0.716
5	C:294:GLN:O	C:300:LYS:HB3	0.716
5	D:150:ARG:NH1	D:152:LEU:HD23	0.716
5	D:289:TYR:CE2	D:295:ASN:HB2	0.716
5	F:71:ILE:HD13	F:72:SER:N	0.716
5	A:79:ARG:HB3	A:87:TRP:NE1	0.715
5	A:79:ARG:HB3	A:87:TRP:HE1	0.714
5	A:136:LEU:HD12	A:165:ILE:CG2	0.714
5	A:305:ILE:HA	A:308:VAL:HG21	0.714
5	D:124:TYR:CE1	D:133:VAL:HA	0.714
5	D:288:GLY:HA2	D:294:CYS:SG	0.714
5	C:306:SER:N	F:107:ASP:C	0.714
5	A:156:ILE:HG12	A:220:TRP:CZ2	0.713
5	C:87:GLU:HB2	C:265:ARG:NE	0.713
5	C:231:ARG:HG3	C:235:ILE:HG13	0.713
5	C:260:ASP:N	C:282:LEU:HD22	0.713
5	C:285:THR:HG22	C:295:ASP:N	0.713

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:267:GLN:O	C:297:LEU:HB2	0.713
5	C:299:GLU:HG3	F:109:PHE:CB	0.713
5	D:200:VAL:HG21	D:210:LEU:HG	0.713
5	D:308:LEU:HD11	D:339:TRP:CD1	0.713
5	F:36:ASN:HB3	F:51:ASP:HB3	0.713
5	A:219:TYR:CD2	A:250:GLY:HA2	0.712
5	D:209:LYS:HB2	D:218:CYS:SG	0.712
5	A:215:ALA:HA	A:218:TYR:CE2	0.711
5	A:265:LYS:HG3	A:274:TRP:CE3	0.711
5	C:88:LYS:CD	C:223:ASP:HB3	0.711
5	C:124:ASN:HB2	C:153:LEU:CD2	0.711
5	C:286:SER:HB3	C:345:PHE:CD2	0.711
5	D:169:TRP:HE1	D:174:GLY:HA2	0.711
5	C:55:THR:HG21	C:234:TRP:CA	0.710
5	F:35:MET:CG	F:80:LEU:HD13	0.710
5	A:16:TRP:CH2	A:46:TYR:HA	0.709
5	A:404:ILE:HD13	A:405:GLN:N	0.709
5	C:50:GLU:CG	C:88:LYS:HD3	0.709
5	C:55:THR:CA	C:91:LYS:HD2	0.709
5	C:386:MET:HE3	C:392:GLU:HB2	0.709
5	C:60:MET:SD	D:97:SER:HA	0.709
5	D:150:ARG:HH12	D:152:LEU:HA	0.709
5	D:186:ASP:HB3	D:204:CYS:SG	0.709

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:297:TRP:CZ2	D:302:ALA:HB1	0.709
5	A:38:PHE:CE1	A:51:ASP:HB2	0.708
5	A:49:TRP:CH2	A:58:VAL:HB	0.708
5	C:104:GLU:CD	C:135:MET:HA	0.708
5	C:321:PRO:HD3	C:339:TYR:CD2	0.708
5	D:42:ARG:HD3	E:67:PHE:HA	0.708
5	A:348:MET:HG3	A:360:LYS:NZ	0.707
5	A:406:ARG:HG2	A:407:ASP:H	0.707
5	C:57:VAL:CB	C:222:PHE:HB3	0.707
5	C:68:PHE:HA	C:202:VAL:HG13	0.707
5	C:83:ASN:CB	C:225:GLY:HA3	0.707
5	C:185:ILE:C	C:243:ALA:HA	0.707
5	C:187:GLN:HG2	C:188:ALA:N	0.707
5	C:268:ALA:CA	C:271:LYS:HD2	0.707
5	D:167:ALA:CB	D:179:THR:HG22	0.707
5	D:234:PHE:CE2	D:238:GLY:HA2	0.707
5	D:235:PHE:CD1	D:236:PRO:HD2	0.707
5	A:49:TRP:CZ2	A:58:VAL:HB	0.706
5	A:79:ARG:HH12	A:98:ARG:HB2	0.706
5	A:382:VAL:HG23	C:120:ALA:C	0.706
5	C:62:ILE:HD11	C:203:LEU:HG	0.706
5	C:81:ARG:HB2	C:83:ASN:CA	0.706
5	C:84:SER:H	C:88:LYS:CG	0.706

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:138:PRO:HB3	C:302:LEU:HG	0.706
5	C:95:ILE:N	C:235:ILE:HD11	0.706
5	C:265:ARG:NH2	C:283:ARG:HB2	0.706
5	D:71:VAL:HG22	D:81:ILE:CG2	0.706
5	E:52:THR:HG23	E:53:PRO:CA	0.706
5	C:309:GLU:CB	F:60:SER:HB3	0.706
5	C:150:ALA:H	C:355:GLY:N	0.706
5	A:59:ASN:HA	A:76:HIS:NE2	0.705
5	A:166:LEU:HG	A:213:CYS:SG	0.705
5	C:55:THR:HG23	C:56:ILE:H	0.705
5	C:93:GLN:NE2	C:96:LYS:HE3	0.705
5	C:141:ASP:C	C:349:SER:HB3	0.705
5	C:151:LYS:HG2	C:389:ARG:CB	0.705
5	C:249:ALA:HB2	C:364:THR:CG2	0.705
5	C:271:LYS:HB3	C:280:LYS:CB	0.705
5	C:291:LEU:HD12	C:363:PHE:HE1	0.705
5	C:293:LYS:HB3	C:300:LYS:CG	0.705
5	E:52:THR:HG23	E:53:PRO:HA	0.705
5	C:52:GLY:HA3	C:230:GLU:O	0.704
5	C:194:ASP:OD1	C:197:LEU:HA	0.704
5	C:247:VAL:CA	C:292:ASN:HB3	0.704
5	C:266:LEU:HB2	F:113:SER:HB3	0.704
5	C:386:MET:HE3	C:392:GLU:CB	0.704

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:20:ASP:N	D:23:LYS:HB2	0.704
5	A:174:LYS:HE2	A:178:LEU:HD21	0.703
5	C:58:LYS:CB	C:241:VAL:HG22	0.703
5	C:151:LYS:CB	C:356:ARG:HA	0.703
5	C:206:GLY:N	D:118:ASP:HB2	0.703
5	F:69:PHE:HD2	F:82:LEU:HD21	0.703
5	C:71:GLU:HG3	C:201:ARG:CB	0.702
5	C:96:LYS:HB3	C:142:PHE:CE1	0.702
5	C:182:ILE:HD12	C:356:ARG:CA	0.702
5	C:268:ALA:HA	C:271:LYS:CD	0.702
5	C:299:GLU:CD	F:109:PHE:HB2	0.702
5	C:305:LYS:HG3	F:105:THR:CG2	0.702
5	C:308:ILE:HG13	C:310:ASP:CB	0.702
5	D:57:LYS:HE3	D:59:TYR:CD1	0.702
5	D:115:GLY:HA3	D:146:LEU:CD2	0.702
5	A:57:PHE:CE2	A:78:TYR:HB2	0.701
5	A:174:LYS:HG3	A:206:VAL:CG1	0.701
5	A:387:GLN:HG3	C:125:GLN:CB	0.701
5	C:141:ASP:CB	C:293:LYS:HE3	0.701
5	C:185:ILE:HG13	C:244:ILE:CD1	0.701
5	C:294:GLN:HB3	C:296:LEU:N	0.701
5	D:81:ILE:HD11	D:90:VAL:CG1	0.701
5	D:269:ILE:HG12	D:271:CYS:HB3	0.701

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:79:ARG:HH21	A:96:PRO:HB2	0.700
5	A:257:PHE:CD2	A:289:PRO:HG3	0.700
5	C:53:LYS:C	C:224:VAL:HG22	0.700
5	C:95:ILE:HG23	C:178:PHE:CE2	0.700
5	C:146:PHE:CA	C:355:GLY:HA2	0.700
5	C:231:ARG:HB3	C:296:LEU:HD12	0.700
5	C:71:GLU:CB	C:201:ARG:HD2	0.699
5	C:270:LEU:CD1	C:297:LEU:HD11	0.699
5	C:34:LYS:HA	D:55:LEU:CD1	0.698
5	C:47:GLY:CA	C:49:GLY:H	0.698
5	C:143:PRO:HD3	C:349:SER:HA	0.698
5	C:147:TYR:HB2	C:358:TYR:CB	0.698
5	D:43:ILE:HG23	D:44:GLN:N	0.698
5	D:107:PRO:HD3	D:151:PHE:HD2	0.698
5	A:159:ASN:HB3	A:220:TRP:CZ2	0.697
5	A:305:ILE:HG13	A:308:VAL:CG2	0.697
5	A:328:LYS:HE3	A:329:SER:H	0.697
5	C:30:LEU:HG	D:78:LYS:HZ1	0.697
5	C:56:ILE:HG23	D:99:TRP:CE2	0.697
5	C:60:MET:CA	D:98:SER:HB2	0.697
5	C:107:VAL:HG11	C:128:VAL:CG1	0.697
5	C:127:ARG:CD	C:354:ASP:HB3	0.697
5	C:189:ASP:C	C:218:ASN:HB3	0.697

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:69:LEU:HD22	D:70:LEU:N	0.697
5	D:45:MET:CA	E:60:PRO:HG3	0.697
5	C:72:GLY:HA3	C:76:ASP:CB	0.696
5	C:186:LYS:HB2	C:382:ILE:HB	0.696
5	C:265:ARG:O	C:268:ALA:HB3	0.696
5	C:300:LYS:CE	C:301:VAL:HA	0.696
5	C:309:GLU:HA	C:309:GLU:OE1	0.696
5	C:386:MET:HG3	C:387:HIS:N	0.696
5	F:37:TRP:NE1	F:95:TYR:HB3	0.696
5	C:92:VAL:O	C:95:ILE:HG22	0.695
5	A:344:PHE:CG	A:364:GLU:HG3	0.694
5	A:382:VAL:CG2	C:120:ALA:HB1	0.694
5	C:55:THR:HG23	C:56:ILE:N	0.694
5	C:58:LYS:HD3	C:59:GLN:N	0.694
5	C:62:ILE:HG13	C:203:LEU:N	0.694
5	C:98:ASN:ND2	C:172:ILE:HD11	0.694
5	C:224:VAL:HG12	C:225:GLY:N	0.694
5	C:245:ILE:HG12	C:247:VAL:CG1	0.694
5	C:253:TYR:CE1	C:257:ILE:HB	0.694
5	D:99:TRP:CG	D:117:LEU:HD12	0.694
5	D:124:TYR:CE2	D:133:VAL:HG13	0.694
5	D:139:LEU:HD22	D:169:TRP:CG	0.694
5	D:150:ARG:HG2	D:150:ARG:HH11	0.694

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:80:PHE:HB3	A:88:LEU:CD1	0.693
5	C:85:ASP:HB2	C:253:TYR:CD2	0.693
5	C:208:PHE:CB	C:223:ASP:HB2	0.693
5	C:287:VAL:HG12	C:288:ILE:N	0.693
5	C:306:SER:C	C:306:SER:CB	0.693
5	D:27:ASP:HB2	D:32:GLN:CG	0.693
5	D:180:PHE:HB2	D:211:TRP:CZ3	0.693
5	A:60:VAL:HG23	A:76:HIS:HE1	0.692
5	A:399:LEU:HD13	A:400:GLU:N	0.692
5	C:44:LEU:HB3	C:244:ILE:CG2	0.692
5	C:60:MET:HA	D:98:SER:HB2	0.692
5	C:83:ASN:HB3	C:225:GLY:HA3	0.692
5	C:87:GLU:HB3	C:227:GLN:CG	0.692
5	C:151:LYS:HG3	C:389:ARG:NH1	0.692
5	C:214:VAL:HG22	C:219:PHE:CE2	0.692
5	C:293:LYS:CB	C:300:LYS:HE2	0.692
5	C:305:LYS:CD	F:105:THR:HG23	0.692
5	C:345:PHE:CE1	C:361:PRO:HB3	0.692
5	D:14:LEU:HB2	E:19:LEU:HD23	0.692
5	F:40:GLN:O	F:93:ALA:HB1	0.692
5	A:143:LEU:HD21	A:379:TYR:HE2	0.691
5	B:26:LEU:HA	B:31:GLY:CA	0.691
5	C:71:GLU:HA	C:201:ARG:NH1	0.691

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:141:ASP:CA	C:293:LYS:HE3	0.691
5	C:155:GLU:HB2	C:389:ARG:NE	0.691
5	C:267:GLN:HA	C:297:LEU:HB3	0.691
5	C:270:LEU:HD23	F:44:LYS:HE2	0.691
5	C:290:PHE:HB2	C:292:ASN:ND2	0.691
5	C:286:SER:CB	C:286:SER:N	0.691
5	A:156:ILE:HG13	A:246:TYR:CE2	0.690
5	C:134:VAL:HG13	C:137:VAL:CG2	0.690
5	C:289:LEU:CD1	C:360:TYR:HB3	0.690
5	E:54:VAL:HG23	E:55:PRO:CD	0.690
5	A:158:LEU:HB2	A:161:PHE:CE2	0.689
5	C:56:ILE:HG12	D:99:TRP:CA	0.689
5	C:60:MET:HB2	D:98:SER:H	0.689
5	C:290:PHE:CE1	C:375:VAL:HG23	0.689
5	C:321:PRO:HB3	C:339:TYR:CZ	0.689
5	E:22:GLU:O	E:25:ILE:HG22	0.689
5	F:62:THR:HG23	F:65:VAL:H	0.689
5	A:71:SER:H	A:73:PRO:HD3	0.688
5	C:44:LEU:HD22	C:45:LEU:H	0.688
5	C:46:LEU:HD12	C:47:GLY:N	0.688
5	C:117:VAL:HB	C:162:CYS:SG	0.688
5	C:198:LEU:HD12	C:199:ARG:HH11	0.688
5	C:189:ASP:O	C:218:ASN:HB3	0.688

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:285:THR:HG21	C:295:ASP:CG	0.688
5	C:302:LEU:HD11	F:106:ARG:O	0.688
5	D:4:LEU:CD1	D:4:LEU:H	0.688
5	A:72:VAL:HG21	A:106:SER:CB	0.687
5	C:30:LEU:HD21	D:55:LEU:HD21	0.687
5	C:51:SER:HB2	C:88:LYS:HA	0.687
5	C:139:ASP:HB3	C:308:ILE:CB	0.687
5	D:256:ARG:CD	E:28:ILE:HD12	0.687
5	C:71:GLU:H	C:201:ARG:NE	0.687
5	C:30:LEU:HG	D:78:LYS:NZ	0.686
5	C:42:ARG:HG2	C:58:LYS:NZ	0.686
5	C:151:LYS:HG2	C:389:ARG:CG	0.686
5	C:231:ARG:CZ	C:232:ARG:HB2	0.686
5	C:286:SER:HA	C:292:ASN:C	0.686
5	D:79:LEU:HB2	D:93:ILE:CG2	0.686
5	F:89:PRO:HA	F:127:VAL:HG23	0.686
5	C:304:GLY:N	F:107:ASP:HB2	0.686
5	C:54:ASN:HD21	C:88:LYS:NZ	0.686
5	A:190:GLN:NE2	A:193:GLY:HA3	0.685
5	A:212:TYR:CE1	A:254:PRO:HB2	0.685
5	A:334:ILE:CD1	A:339:THR:HB	0.685
5	C:68:PHE:CA	C:202:VAL:HG13	0.685
5	C:76:ASP:CB	C:77:PRO:HD3	0.685

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:155:TYR:CE1	A:247:VAL:HG21	0.684
5	C:54:ASN:ND2	C:88:LYS:HB3	0.684
5	A:387:GLN:NE2	C:125:GLN:HA	0.684
5	C:151:LYS:HB2	C:356:ARG:HA	0.684
5	C:182:ILE:HG23	C:183:ASP:H	0.684
5	C:202:VAL:CG2	C:211:LYS:HD3	0.684
5	C:289:LEU:HD22	C:290:PHE:HA	0.684
5	C:298:ALA:CA	C:301:VAL:HG23	0.684
5	A:9:LEU:O	A:9:LEU:HD22	0.683
5	C:54:ASN:O	C:57:VAL:HB	0.683
5	C:69:ASN:HB2	C:211:LYS:C	0.683
5	C:119:LEU:CD2	C:159:VAL:HG22	0.683
5	C:124:ASN:CB	C:153:LEU:HD21	0.683
5	C:92:VAL:CG1	C:244:ILE:HD13	0.683
5	C:291:LEU:O	C:291:LEU:HD22	0.683
5	F:54:GLN:HG3	F:55:SER:N	0.683
5	C:238:PHE:CG	C:241:VAL:HG21	0.682
5	C:259:GLU:HA	C:282:LEU:CD2	0.682
5	C:271:LYS:HE3	C:295:ASP:H	0.682
5	C:344:GLU:C	C:348:ILE:HD11	0.682
5	D:272:GLY:H	D:290:ASP:HB3	0.682
5	A:189:HIS:NE2	A:191:TRP:HB2	0.681
5	C:55:THR:HB	C:235:ILE:HA	0.681

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:57:VAL:CG1	C:222:PHE:HB3	0.681
5	C:144:PRO:HB3	C:358:TYR:CZ	0.681
5	C:150:ALA:C	C:356:ARG:HB2	0.681
5	C:151:LYS:CD	C:182:ILE:HD13	0.681
5	C:171:LEU:HD22	D:290:ASP:OD1	0.681
5	C:305:LYS:HD2	F:105:THR:HG23	0.681
5	D:18:ILE:HD11	E:23:ALA:CB	0.681
5	F:21:LEU:N	F:21:LEU:HD12	0.681
5	C:44:LEU:HD23	C:238:PHE:CE1	0.680
5	A:391:ARG:NE	C:129:ASP:HA	0.680
5	C:206:GLY:CA	D:118:ASP:HB2	0.680
5	C:289:LEU:HD21	C:362:HIS:HB3	0.680
5	C:321:PRO:CG	C:324:ALA:HB2	0.680
5	D:227:SER:HA	F:118:TYR:OH	0.680
5	C:93:GLN:HG2	C:300:LYS:O	0.679
5	C:121:ASN:ND2	C:123:GLU:HB3	0.679
5	D:12:GLU:CB	D:15:LYS:HE2	0.679
5	D:124:TYR:CD2	D:133:VAL:HG13	0.679
5	C:45:LEU:HD13	C:252:SER:CB	0.678
5	C:93:GLN:CG	C:300:LYS:HG2	0.678
5	C:151:LYS:CE	C:385:ARG:HD2	0.678
5	C:98:ASN:HD22	C:172:ILE:HD11	0.678
5	C:211:LYS:HD2	C:211:LYS:N	0.678

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:246:PHE:CD2	C:287:VAL:HB	0.678
5	D:150:ARG:HG2	D:151:PHE:N	0.678
5	C:150:ALA:HB2	C:354:ASP:CG	0.677
5	C:151:LYS:HE3	C:386:MET:N	0.677
5	C:177:TYR:HB2	D:332:TRP:CD1	0.677
5	C:181:LYS:HG3	C:239:ASN:ND2	0.677
5	C:289:LEU:HD12	C:360:TYR:CB	0.677
5	D:58:ILE:HD11	D:72:SER:HB2	0.677
5	D:277:SER:HB2	D:318:LEU:HD12	0.677
5	F:33:TYR:HE1	F:35:MET:HB2	0.677
5	A:308:VAL:HG23	A:309:VAL:H	0.676
5	C:92:VAL:HG21	C:238:PHE:CD2	0.676
5	C:93:GLN:HB2	C:246:PHE:HE2	0.676
5	C:127:ARG:HG3	C:149:HIS:O	0.676
5	C:155:GLU:HG3	C:390:GLN:CG	0.676
5	C:214:VAL:CG2	C:372:ILE:HD11	0.676
5	C:257:ILE:HD13	C:258:ARG:N	0.676
5	C:90:THR:OG1	C:296:LEU:HB2	0.676
5	D:124:TYR:CE2	D:133:VAL:HG22	0.676
5	D:296:VAL:CG1	D:305:ALA:HB3	0.676
5	A:150:HIS:HB2	C:392:GLU:CB	0.675
5	A:219:TYR:HD2	A:250:GLY:HA2	0.675
5	A:321:ASP:H	A:325:ARG:HG3	0.675

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:92:VAL:HB	C:244:ILE:CB	0.675
5	C:246:PHE:CG	C:287:VAL:HB	0.675
5	C:266:LEU:HB2	F:113:SER:HB2	0.675
5	C:290:PHE:HB2	C:292:ASN:HD21	0.675
5	C:321:PRO:HB3	C:339:TYR:CE1	0.675
5	D:79:LEU:HB2	D:93:ILE:HG22	0.675
5	A:387:GLN:HB2	C:125:GLN:CG	0.674
5	C:143:PRO:HD3	C:349:SER:C	0.674
5	C:153:LEU:N	C:153:LEU:HD12	0.674
5	C:178:PHE:CD1	C:181:LYS:HD2	0.674
5	C:187:GLN:HB3	C:242:THR:CG2	0.674
5	C:182:ILE:CB	C:356:ARG:HG2	0.674
5	D:17:GLN:HG3	D:18:ILE:N	0.674
5	D:80:ILE:HG21	D:82:TRP:HE3	0.674
5	D:123:ILE:HG21	D:171:ILE:HD11	0.674
5	D:293:ASN:ND2	D:307:VAL:HG11	0.674
5	A:227:TYR:HB2	A:246:TYR:CE1	0.673
5	A:353:ARG:HG2	A:354:GLY:H	0.673
5	A:384:ASN:HB2	C:119:LEU:H	0.673
5	C:80:ALA:HB3	C:201:ARG:CZ	0.673
5	C:103:ILE:HA	C:106:ILE:HG22	0.673
5	C:142:PHE:HA	C:349:SER:OG	0.673
5	C:209:GLU:HA	C:222:PHE:CD2	0.673

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:302:LEU:HB3	C:306:SER:C	0.673
5	C:348:ILE:O	C:351:ALA:HB3	0.673
5	A:105:GLU:HG3	A:108:ARG:NH1	0.672
5	A:301:PHE:HB2	A:337:LEU:HD11	0.672
5	A:402:LEU:HG	A:403:HIS:H	0.672
5	C:50:GLU:HG2	C:88:LYS:CD	0.672
5	C:54:ASN:OD1	C:57:VAL:HG21	0.672
5	C:71:GLU:HG3	C:201:ARG:HB3	0.672
5	C:71:GLU:N	C:74:GLU:HA	0.672
5	C:127:ARG:NH1	C:128:VAL:HG22	0.672
5	C:140:PHE:CD1	C:349:SER:HB2	0.672
5	C:151:LYS:HE3	C:386:MET:HA	0.672
5	C:304:GLY:HA3	F:106:ARG:O	0.672
5	C:305:LYS:HA	F:108:CYS:H	0.672
5	D:99:TRP:CE3	D:117:LEU:HG	0.672
5	A:388:LEU:HD22	A:389:GLU:N	0.671
5	C:58:LYS:HA	C:238:PHE:CE1	0.671
5	C:62:ILE:CG1	C:203:LEU:HG	0.671
5	C:62:ILE:HG12	C:63:LEU:N	0.671
5	C:62:ILE:HG13	C:203:LEU:CB	0.671
5	C:243:ALA:C	C:244:ILE:HD12	0.671
5	D:23:LYS:CE	D:23:LYS:HA	0.671
5	D:123:ILE:HG23	D:136:SER:HB3	0.671

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:201:SER:HB2	D:209:LYS:HE3	0.671
5	E:28:ILE:HG23	E:29:LYS:N	0.671
5	A:67:PRO:HB2	A:68:TRP:CE3	0.670
5	C:54:ASN:OD1	C:57:VAL:HG11	0.670
5	C:62:ILE:HB	C:202:VAL:HG12	0.670
5	C:141:ASP:HB3	C:345:PHE:C	0.670
5	C:183:ASP:HB2	C:386:MET:CE	0.670
5	D:311:HIS:ND1	D:331:SER:HB3	0.670
5	E:7:ALA:HB3	E:11:GLN:CG	0.670
5	A:121:LEU:HD22	A:122:TYR:N	0.669
5	A:182:TYR:CB	B:18:ALA:HB3	0.669
5	C:62:ILE:CG2	C:202:VAL:HG12	0.669
5	C:87:GLU:HB3	C:227:GLN:NE2	0.669
5	C:138:PRO:C	C:308:ILE:HA	0.669
5	C:146:PHE:C	C:355:GLY:HA2	0.669
5	C:209:GLU:HG3	C:220:HIS:NE2	0.669
5	C:231:ARG:HE	C:235:ILE:HG21	0.669
5	C:292:ASN:C	C:292:ASN:HB2	0.669
5	C:391:TYR:C	C:391:TYR:CB	0.669
5	D:58:ILE:CD1	D:72:SER:HB2	0.669
5	D:229:ILE:HD11	D:232:ILE:CG2	0.669
5	F:89:PRO:HA	F:127:VAL:CG2	0.669
5	C:56:ILE:HG12	D:99:TRP:CB	0.668

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:81:ARG:C	C:83:ASN:N	0.668
5	C:95:ILE:HG13	C:178:PHE:CD2	0.668
5	C:281:TRP:CG	C:282:LEU:H	0.668
5	C:285:THR:C	C:285:THR:CB	0.668
5	A:158:LEU:HB2	A:161:PHE:HE2	0.667
5	C:31:GLN:HG3	C:34:LYS:CE	0.667
5	C:54:ASN:CG	C:224:VAL:HG23	0.667
5	C:143:PRO:HB2	C:346:LEU:HD23	0.667
5	C:154:TRP:HB3	C:389:ARG:HH22	0.667
5	C:271:LYS:CG	C:297:LEU:HB2	0.667
5	D:63:TRP:NE1	D:67:SER:HA	0.667
5	D:226:GLU:HG2	F:28:PHE:HB3	0.667
5	C:147:TYR:CA	C:357:HIS:H	0.667
5	A:158:LEU:HA	A:161:PHE:CD2	0.666
5	B:26:LEU:HD22	B:31:GLY:CA	0.666
5	C:24:LYS:CA	C:27:GLU:HG2	0.666
5	C:96:LYS:HG3	C:185:ILE:HD13	0.666
5	C:185:ILE:HG23	C:357:HIS:ND1	0.666
5	C:280:LYS:HA	C:285:THR:CB	0.666
5	C:152:ALA:N	C:389:ARG:HG3	0.666
5	C:389:ARG:HD3	C:390:GLN:N	0.666
5	D:69:LEU:C	D:69:LEU:HD13	0.666
5	D:250:CYS:HB2	D:264:TYR:CB	0.666

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:151:LYS:HD2	C:386:MET:SD	0.665
5	C:81:ARG:O	C:207:ILE:HG23	0.665
5	C:392:GLU:C	C:392:GLU:HG2	0.665
5	C:88:LYS:HG2	C:224:VAL:O	0.664
5	C:183:ASP:HB3	C:392:GLU:CD	0.664
5	D:252:LEU:CB	D:262:MET:HG2	0.664
5	E:12:ALA:O	E:15:LEU:HB3	0.664
5	A:136:LEU:O	A:136:LEU:HD13	0.663
5	A:420:LEU:C	A:420:LEU:HD23	0.663
5	C:81:ARG:HD2	C:83:ASN:CG	0.663
5	C:92:VAL:HG12	C:246:PHE:CZ	0.663
5	C:96:LYS:HG3	C:185:ILE:CD1	0.663
5	C:134:VAL:CG1	C:351:ALA:HB1	0.663
5	C:139:ASP:HB2	C:301:VAL:CG1	0.663
5	C:189:ASP:HB3	C:218:ASN:CG	0.663
5	C:234:TRP:CE3	C:234:TRP:HA	0.663
5	C:321:PRO:HD3	C:339:TYR:CG	0.663
5	D:201:SER:CB	D:209:LYS:HE3	0.663
5	F:35:MET:HG2	F:80:LEU:HD13	0.663
5	C:54:ASN:HD21	C:88:LYS:HZ1	0.663
5	C:40:THR:HG21	C:42:ARG:HD2	0.662
5	C:44:LEU:HD12	C:92:VAL:HB	0.662
5	C:62:ILE:HB	C:202:VAL:CB	0.662

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:127:ARG:CG	C:149:HIS:HB3	0.662
5	C:139:ASP:HB3	C:308:ILE:HB	0.662
5	C:143:PRO:HD3	C:349:SER:CA	0.662
5	C:147:TYR:CB	C:358:TYR:HB2	0.662
5	D:57:LYS:HE3	D:59:TYR:HD1	0.662
5	F:21:LEU:HB2	F:37:TRP:CH2	0.662
5	C:393:LEU:HA	C:393:LEU:N	0.662
5	A:98:ARG:HG2	A:100:LEU:CD2	0.661
5	C:106:ILE:CD1	C:163:TYR:HB2	0.661
5	D:51:LEU:HD22	D:82:TRP:NE1	0.661
5	D:99:TRP:CD1	D:116:GLY:HA2	0.661
5	D:259:GLN:HG2	D:260:GLU:N	0.661
5	D:337:LYS:HG2	D:338:ILE:N	0.661
5	C:53:LYS:CE	D:117:LEU:HB2	0.660
5	C:72:GLY:HA3	C:76:ASP:CA	0.660
5	C:88:LYS:HA	C:224:VAL:HG23	0.660
5	C:100:LYS:HG2	C:140:PHE:CE1	0.660
5	C:144:PRO:HA	C:358:TYR:CG	0.660
5	C:267:GLN:CA	C:297:LEU:HB3	0.660
5	C:307:LYS:HD2	C:308:ILE:H	0.660
5	D:250:CYS:HB2	D:264:TYR:CG	0.660
5	A:149:LEU:HA	C:393:LEU:C	0.659
5	A:194:LEU:C	A:194:LEU:HD23	0.659

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:43:LEU:CD2	C:245:ILE:HG22	0.659
5	D:160:SER:HB2	D:187:VAL:HG23	0.659
5	F:23:CYS:HB2	F:80:LEU:CD2	0.659
5	A:57:PHE:HA	A:78:TYR:HE1	0.658
5	A:222:LEU:HD11	A:226:VAL:HG23	0.658
5	A:227:TYR:HA	A:230:THR:HG22	0.658
5	A:321:ASP:H	A:325:ARG:CG	0.658
5	C:186:LYS:CB	C:382:ILE:HB	0.658
5	C:194:ASP:CG	C:197:LEU:HA	0.658
5	C:81:ARG:N	C:208:PHE:HA	0.658
5	C:281:TRP:HB3	C:284:ASP:OD1	0.658
5	D:19:ARG:C	D:23:LYS:HB2	0.658
5	D:51:LEU:HD13	D:82:TRP:CD1	0.658
5	D:99:TRP:CE2	D:117:LEU:HB3	0.658
5	D:256:ARG:CD	E:28:ILE:HB	0.658
5	C:51:SER:CB	C:224:VAL:HG11	0.657
5	C:90:THR:CG2	C:296:LEU:HB2	0.657
5	C:82:SER:H	C:208:PHE:HB2	0.657
5	D:50:THR:HG22	D:337:LYS:CA	0.657
5	D:296:VAL:HB	D:306:GLY:O	0.657
5	C:245:ILE:CD1	C:375:VAL:HG21	0.656
5	D:149:CYS:HB3	D:157:ILE:HD11	0.656
5	D:199:PHE:CE2	D:213:VAL:HG22	0.656

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	E:27:ARG:HH21	E:30:VAL:HG13	0.656
5	A:374:MET:HA	A:377:ILE:HG22	0.655
5	A:387:GLN:CB	C:125:GLN:HG2	0.655
5	C:289:LEU:HD12	C:360:TYR:O	0.655
5	C:293:LYS:CB	C:300:LYS:HG3	0.655
5	C:286:SER:O	C:293:LYS:HD2	0.655
5	C:307:LYS:HD2	C:308:ILE:HG22	0.655
5	C:386:MET:HG2	C:392:GLU:CB	0.655
5	C:136:ASN:ND2	F:106:ARG:HG2	0.655
5	A:15:LYS:CG	A:65:TYR:HA	0.654
5	A:58:VAL:HG12	A:59:ASN:N	0.654
5	C:69:ASN:HD21	C:191:VAL:HG11	0.654
5	C:139:ASP:O	C:348:ILE:HD12	0.654
5	C:147:TYR:N	C:355:GLY:CA	0.654
5	D:27:ASP:CB	D:32:GLN:HB2	0.654
5	D:22:ARG:NH1	D:258:ASP:HB3	0.654
5	A:60:VAL:HG23	A:76:HIS:CE1	0.653
5	A:68:TRP:HD1	A:108:ARG:HD3	0.653
5	A:221:LEU:O	A:221:LEU:HD22	0.653
5	C:46:LEU:HD23	C:246:PHE:CD2	0.653
5	C:94:ASP:C	C:235:ILE:HD11	0.653
5	C:266:LEU:HD13	C:269:ALA:HB3	0.653
5	D:234:PHE:HE2	D:238:GLY:HA2	0.653

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:80:PHE:HB3	A:88:LEU:CG	0.652
5	A:80:PHE:HD2	A:88:LEU:HG	0.652
5	A:387:GLN:HA	C:125:GLN:NE2	0.652
5	C:58:LYS:HB2	C:58:LYS:NZ	0.652
5	C:62:ILE:CD1	C:203:LEU:HG	0.652
5	C:155:GLU:CG	C:390:GLN:HG2	0.652
5	C:304:GLY:C	F:107:ASP:CB	0.652
5	C:61:ARG:NH2	D:96:ARG:HB2	0.652
5	F:112:THR:CG2	F:116:TYR:HB3	0.652
5	A:334:ILE:CG2	A:335:PRO:HD3	0.651
5	C:44:LEU:HD22	C:45:LEU:N	0.651
5	C:45:LEU:HB2	C:88:LYS:HZ3	0.651
5	C:295:ASP:HB3	C:301:VAL:CG2	0.651
5	C:300:LYS:HD2	C:301:VAL:HA	0.651
5	D:123:ILE:HD12	D:171:ILE:HD13	0.651
5	F:112:THR:HG21	F:116:TYR:HB3	0.651
5	C:8:LYS:HG2	C:9:THR:H	0.650
5	C:70:GLY:CA	C:74:GLU:HG3	0.650
5	C:99:LEU:HD12	C:179:LEU:HA	0.650
5	C:134:VAL:HG13	C:137:VAL:CB	0.650
5	C:185:ILE:HG23	C:357:HIS:CG	0.650
5	C:299:GLU:OE1	F:109:PHE:HA	0.650
5	C:44:LEU:HD23	C:57:VAL:CG1	0.649

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:201:ARG:HG2	C:202:VAL:N	0.649
5	C:88:LYS:O	C:224:VAL:HG21	0.649
5	C:272:LEU:HA	C:275:SER:CB	0.649
5	D:285:LEU:HD23	D:286:LEU:N	0.649
5	F:23:CYS:SG	F:97:CYS:HB3	0.649
5	A:319:LYS:HB2	C:126:PHE:CD1	0.648
5	C:271:LYS:N	C:297:LEU:HD12	0.648
5	D:139:LEU:HD13	D:169:TRP:NE1	0.648
5	A:43:PHE:CE2	A:45:GLU:HA	0.647
5	A:87:TRP:CD1	A:96:PRO:HB3	0.647
5	A:265:LYS:HG3	A:274:TRP:CZ3	0.647
5	A:308:VAL:HG23	A:309:VAL:N	0.647
5	C:40:THR:HG23	C:41:HIS:N	0.647
5	C:56:ILE:HG23	D:99:TRP:CZ3	0.647
5	C:143:PRO:HD2	C:146:PHE:CB	0.647
5	C:260:ASP:HA	C:272:LEU:CD1	0.647
5	C:289:LEU:HG	C:362:HIS:N	0.647
5	D:25:CYS:HB3	D:259:GLN:NE2	0.647
5	D:106:ALA:CB	D:111:TYR:HB3	0.647
5	A:321:ASP:N	A:325:ARG:HG3	0.646
5	C:95:ILE:HD13	C:236:GLN:HA	0.646
5	C:191:VAL:HG22	C:192:PRO:N	0.646
5	C:289:LEU:CD2	C:362:HIS:HB3	0.646

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:232:ILE:HB	D:241:PHE:HE1	0.646
5	A:72:VAL:CG2	A:106:SER:HB3	0.645
5	A:222:LEU:CD1	A:226:VAL:HG23	0.645
5	A:344:PHE:HA	A:348:MET:CG	0.645
5	C:60:MET:HE3	D:97:SER:HA	0.645
5	C:97:ASN:HB2	C:304:GLY:N	0.645
5	C:119:LEU:HD22	C:159:VAL:HG22	0.645
5	C:181:LYS:HA	C:184:VAL:HG12	0.645
5	C:185:ILE:HG13	C:244:ILE:HD12	0.645
5	C:249:ALA:CB	C:364:THR:HG21	0.645
5	C:141:ASP:H	C:348:ILE:HG13	0.645
5	D:95:LEU:HD22	D:96:ARG:N	0.645
5	D:232:ILE:HB	D:241:PHE:CZ	0.645
5	C:143:PRO:CB	C:346:LEU:HD23	0.644
5	C:189:ASP:CG	C:211:LYS:HG3	0.644
5	C:187:GLN:N	C:242:THR:HG22	0.644
5	C:92:VAL:CB	C:244:ILE:HG12	0.644
5	C:272:LEU:HA	C:275:SER:HB3	0.644
5	C:282:LEU:HD12	C:283:ARG:NE	0.644
5	D:124:TYR:OH	D:133:VAL:HA	0.644
5	A:95:LEU:N	A:95:LEU:HD12	0.643
5	A:160:LEU:O	A:160:LEU:HD22	0.643
5	C:188:ALA:HB2	C:217:VAL:CG1	0.643

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:231:ARG:HD2	C:299:GLU:HB3	0.643
5	C:280:LYS:CA	C:285:THR:CA	0.643
5	A:150:HIS:H	C:393:LEU:CA	0.643
5	C:24:LYS:HA	C:27:GLU:CG	0.642
5	C:43:LEU:CD1	C:221:MET:HE2	0.642
5	C:74:GLU:HG2	C:212:PHE:HB2	0.642
5	C:92:VAL:HB	C:244:ILE:HB	0.642
5	C:95:ILE:HG13	C:178:PHE:HD2	0.642
5	C:147:TYR:CG	C:358:TYR:HB2	0.642
5	C:212:PHE:HE2	C:372:ILE:HD12	0.642
5	D:221:THR:HG21	E:1:MET:CE	0.642
5	D:252:LEU:HD13	D:253:PHE:C	0.642
5	D:270:ILE:HD11	F:103:PRO:HB2	0.642
5	F:35:MET:HE1	F:73:ARG:CB	0.642
5	C:201:ARG:HE	C:210:THR:CA	0.642
5	A:165:ILE:HG13	A:166:LEU:N	0.641
5	A:353:ARG:HA	A:357:ARG:NH2	0.641
5	A:360:LYS:O	A:363:THR:HG22	0.641
5	C:55:THR:HG21	C:234:TRP:HB3	0.641
5	C:81:ARG:HD2	C:83:ASN:ND2	0.641
5	C:134:VAL:HB	C:352:SER:N	0.641
5	C:202:VAL:HG22	C:211:LYS:CD	0.641
5	C:209:GLU:HG3	C:222:PHE:CE2	0.641

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:250:CYS:HB2	D:264:TYR:HB3	0.641
5	C:72:GLY:H	C:76:ASP:N	0.641
5	A:16:TRP:HB2	A:65:TYR:CZ	0.640
5	A:38:PHE:CZ	A:51:ASP:HB2	0.640
5	C:43:LEU:HD13	C:221:MET:HG2	0.640
5	C:48:ALA:HB1	C:279:ASN:CB	0.640
5	C:82:SER:HB2	C:223:ASP:C	0.640
5	C:124:ASN:HB2	C:153:LEU:CG	0.640
5	C:202:VAL:HG21	C:209:GLU:HG2	0.640
5	C:267:GLN:CG	C:296:LEU:HD22	0.640
5	C:332:PRO:HA	C:335:THR:HG22	0.640
5	A:15:LYS:HG2	A:65:TYR:HD1	0.639
5	C:151:LYS:CB	C:356:ARG:HG3	0.639
5	C:177:TYR:HB3	D:313:ASN:HD22	0.639
5	C:345:PHE:O	C:348:ILE:HG12	0.639
5	D:14:LEU:O	D:17:GLN:HG2	0.639
5	C:88:LYS:CB	C:88:LYS:N	0.639
5	C:51:SER:HB2	C:224:VAL:CB	0.638
5	C:88:LYS:HG2	C:223:ASP:O	0.638
5	C:92:VAL:HG12	C:244:ILE:HB	0.638
5	C:231:ARG:HG2	C:235:ILE:HB	0.638
5	C:245:ILE:HB	C:288:ILE:CG1	0.638
5	C:386:MET:CE	C:392:GLU:HB2	0.638

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:19:ARG:HG2	D:23:LYS:HZ1	0.638
5	D:57:LYS:HG2	D:75:GLN:HG2	0.638
5	D:63:TRP:HE1	D:67:SER:HA	0.638
5	D:229:ILE:HD11	D:232:ILE:HG23	0.638
5	F:39:ARG:HB2	F:95:TYR:CD1	0.638
5	F:65:VAL:HG13	F:69:PHE:CD1	0.638
5	A:100:LEU:N	A:100:LEU:HD22	0.637
5	C:127:ARG:HG2	C:354:ASP:CB	0.637
5	C:181:LYS:C	C:181:LYS:HD3	0.637
5	C:191:VAL:HG22	C:192:PRO:O	0.637
5	C:208:PHE:HB3	C:223:ASP:N	0.637
5	C:96:LYS:NZ	C:287:VAL:HG21	0.637
5	C:338:LYS:HE3	C:363:PHE:HB2	0.637
5	D:81:ILE:CG1	D:90:VAL:HB	0.637
5	D:283:ARG:HG3	D:284:LEU:HD13	0.637
5	A:71:SER:C	A:73:PRO:HD3	0.636
5	A:326:LEU:O	A:330:THR:HG23	0.636
5	C:48:ALA:C	C:281:TRP:HB2	0.636
5	C:59:GLN:HA	C:220:HIS:CE1	0.636
5	C:60:MET:HB3	C:209:GLU:CD	0.636
5	C:91:LYS:HA	C:91:LYS:NZ	0.636
5	C:147:TYR:HA	C:357:HIS:CA	0.636
5	C:186:LYS:CD	C:358:TYR:HB3	0.636

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:394:LEU:N	C:394:LEU:HD12	0.636
5	C:51:SER:H	C:88:LYS:C	0.635
5	C:134:VAL:HG21	C:351:ALA:CB	0.635
5	C:136:ASN:HA	F:106:ARG:HG2	0.635
5	C:238:PHE:CE2	C:244:ILE:HG13	0.635
5	C:282:LEU:HG	C:283:ARG:NH1	0.635
5	C:295:ASP:C	C:297:LEU:HA	0.635
5	C:300:LYS:HE3	C:301:VAL:HA	0.635
5	C:142:PHE:O	C:359:CYS:HB3	0.635
5	D:257:ALA:HB2	E:28:ILE:HG22	0.635
5	A:55:GLY:HA2	A:80:PHE:CZ	0.634
5	A:148:HIS:O	A:149:LEU:HD12	0.634
5	A:253:VAL:CB	A:254:PRO:HD3	0.634
5	A:312:LEU:CD2	A:320:THR:HG22	0.634
5	A:387:GLN:CG	C:125:GLN:HG2	0.634
5	C:128:VAL:HA	C:131:ILE:CG2	0.634
5	C:140:PHE:HA	C:348:ILE:O	0.634
5	C:149:HIS:O	C:153:LEU:HB2	0.634
5	D:12:GLU:HA	D:15:LYS:HG2	0.634
5	D:198:LEU:HD22	D:199:PHE:N	0.634
5	D:308:LEU:HD11	D:339:TRP:NE1	0.634
5	C:147:TYR:N	C:357:HIS:H	0.634
5	C:46:LEU:O	C:50:GLU:HB2	0.633

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:54:ASN:CB	C:91:LYS:HG2	0.633
5	C:55:THR:CG2	C:234:TRP:HB3	0.633
5	C:186:LYS:HB2	C:382:ILE:CG2	0.633
5	A:239:GLU:O	A:242:ILE:HG22	0.632
5	C:93:GLN:HA	C:246:PHE:CZ	0.632
5	C:127:ARG:CG	C:354:ASP:HB3	0.632
5	C:215:ASP:O	C:217:VAL:HG23	0.632
5	C:229:ASP:HB3	C:267:GLN:OE1	0.632
5	C:185:ILE:O	C:243:ALA:HA	0.632
5	D:79:LEU:H	D:93:ILE:HG22	0.632
5	D:242:ALA:HB2	D:278:PHE:HZ	0.632
5	C:286:SER:HA	C:286:SER:N	0.632
5	C:124:ASN:O	C:153:LEU:HD21	0.631
5	C:78:GLN:CB	C:198:LEU:HD11	0.631
5	C:202:VAL:HG21	C:209:GLU:CD	0.631
5	C:271:LYS:HE3	C:295:ASP:N	0.631
5	C:307:LYS:O	C:309:GLU:HG2	0.631
5	D:57:LYS:HA	D:332:TRP:O	0.631
5	D:142:HIS:CD2	D:161:SER:HB3	0.631
5	F:88:LYS:HB3	F:89:PRO:HD2	0.631
5	A:329:SER:HA	A:332:THR:HG22	0.630
5	C:43:LEU:HB3	C:221:MET:HG2	0.630
5	C:43:LEU:HD21	C:288:ILE:HD11	0.630

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:46:LEU:HD11	C:294:GLN:HB2	0.630
5	D:70:LEU:N	D:70:LEU:HD13	0.630
5	D:164:THR:HG21	D:183:HIS:HB2	0.630
5	A:356:LEU:O	A:356:LEU:HD22	0.629
5	A:370:PHE:CE2	A:374:MET:HB2	0.629
5	C:53:LYS:HD2	D:145:TYR:CD2	0.629
5	C:54:ASN:C	C:91:LYS:HG2	0.629
5	C:64:HIS:CB	C:203:LEU:HD11	0.629
5	C:144:PRO:HB3	C:358:TYR:CE1	0.629
5	C:270:LEU:O	C:270:LEU:HD13	0.629
5	C:229:ASP:O	C:296:LEU:HD11	0.629
5	C:331:ASP:CG	C:332:PRO:HD2	0.629
5	D:123:ILE:CD1	D:171:ILE:HD13	0.629
5	D:229:ILE:HG23	D:230:ASN:N	0.629
5	F:39:ARG:HG3	F:95:TYR:CE1	0.629
5	F:95:TYR:O	F:122:GLY:HA3	0.629
5	A:382:VAL:HG23	C:120:ALA:CB	0.628
5	A:414:LYS:HA	F:57:ALA:HA	0.628
5	B:1:HIS:CE1	B:4:GLY:HA3	0.628
5	C:97:ASN:HB2	C:303:ALA:CA	0.628
5	C:231:ARG:CB	C:296:LEU:HD12	0.628
5	C:249:ALA:HB2	C:364:THR:HG21	0.628
5	C:266:LEU:HD12	F:45:GLY:HA3	0.628

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:95:LEU:HD13	D:97:SER:O	0.628
5	F:44:LYS:HG3	F:45:GLY:O	0.628
5	F:71:ILE:HD13	F:72:SER:H	0.628
5	A:305:ILE:CB	A:308:VAL:HG21	0.627
5	A:319:LYS:HB2	C:126:PHE:CE1	0.627
5	C:84:SER:HA	C:87:GLU:HA	0.627
5	C:91:LYS:HE3	C:235:ILE:HA	0.627
5	C:188:ALA:HB1	C:218:ASN:H	0.627
5	C:235:ILE:C	C:235:ILE:HD13	0.627
5	A:311:LYS:HD3	C:384:GLN:HE22	0.626
5	C:55:THR:HB	C:91:LYS:HE3	0.626
5	C:186:LYS:C	C:242:THR:HG22	0.626
5	C:321:PRO:HG3	C:339:TYR:CD1	0.626
5	C:372:ILE:C	C:372:ILE:HD13	0.626
5	D:255:LEU:C	D:255:LEU:HD13	0.626
5	C:189:ASP:H	C:219:PHE:N	0.626
5	A:11:GLU:HG2	A:15:LYS:NZ	0.625
5	A:202:SER:O	A:206:VAL:HG23	0.625
5	C:46:LEU:CB	C:89:ALA:HB3	0.625
5	C:48:ALA:HB3	C:248:VAL:CA	0.625
5	C:62:ILE:HB	C:202:VAL:CG1	0.625
5	C:202:VAL:HG21	C:209:GLU:CG	0.625
5	C:266:LEU:CD2	F:113:SER:HB3	0.625

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:267:GLN:HG3	C:296:LEU:CD2	0.625
5	D:167:ALA:HB3	D:176:GLN:CD	0.625
5	D:198:LEU:C	D:198:LEU:HD13	0.625
5	F:19:LEU:HD12	F:21:LEU:HD12	0.625
5	A:156:ILE:HG12	A:220:TRP:CE2	0.624
5	A:249:ILE:O	A:249:ILE:HG13	0.624
5	B:1:HIS:ND1	B:4:GLY:HA3	0.624
5	B:26:LEU:CD2	B:31:GLY:HA2	0.624
5	C:46:LEU:HD21	C:293:LYS:CA	0.624
5	C:51:SER:N	C:88:LYS:C	0.624
5	C:92:VAL:HG13	C:96:LYS:CD	0.624
5	C:97:ASN:CB	C:304:GLY:H	0.624
5	C:182:ILE:HG12	C:183:ASP:N	0.624
5	C:210:THR:C	C:211:LYS:HD2	0.624
5	C:267:GLN:HB2	C:297:LEU:O	0.624
5	D:198:LEU:O	D:198:LEU:HD13	0.624
5	E:52:THR:CG2	E:53:PRO:HA	0.624
5	A:107:LYS:O	A:108:ARG:HG2	0.623
5	A:153:ARG:HD2	C:391:TYR:CE1	0.623
5	A:387:GLN:CD	C:125:GLN:HG2	0.623
5	C:92:VAL:HG13	C:185:ILE:HD11	0.623
5	C:134:VAL:HB	C:351:ALA:HB1	0.623
5	C:186:LYS:HB2	C:382:ILE:HG21	0.623

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:87:GLU:O	C:224:VAL:HB	0.623
5	C:268:ALA:C	C:283:ARG:HA	0.623
5	C:268:ALA:CB	C:283:ARG:HB2	0.623
5	C:295:ASP:CB	C:301:VAL:HG22	0.623
5	A:381:PHE:O	A:382:VAL:HG22	0.622
5	C:138:PRO:HA	C:307:LYS:O	0.622
5	C:253:TYR:HE1	C:257:ILE:HB	0.622
5	D:40:VAL:HG12	D:41:GLY:N	0.622
5	A:80:PHE:CD2	A:88:LEU:HG	0.621
5	A:384:ASN:HB2	C:118:GLU:HA	0.621
5	C:44:LEU:CD1	C:244:ILE:HG21	0.621
5	C:46:LEU:HD21	C:294:GLN:H	0.621
5	C:85:ASP:HB3	C:253:TYR:HA	0.621
5	C:93:GLN:HA	C:246:PHE:HZ	0.621
5	C:150:ALA:HB3	C:356:ARG:H	0.621
5	C:287:VAL:HG12	C:288:ILE:H	0.621
5	D:99:TRP:CZ2	D:117:LEU:HB3	0.621
5	F:52:ILE:HD11	F:56:GLY:HA2	0.621
5	A:391:ARG:HG3	C:129:ASP:CG	0.620
5	C:58:LYS:C	C:58:LYS:CB	0.620
5	C:92:VAL:CG2	C:238:PHE:CD2	0.620
5	C:102:ALA:O	C:105:THR:HG22	0.620
5	C:208:PHE:HB2	C:223:ASP:HB2	0.620

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:275:SER:HA	C:278:ASN:C	0.620
5	A:321:ASP:O	A:322:ILE:HG22	0.619
5	C:58:LYS:CA	C:238:PHE:CE1	0.619
5	C:151:LYS:HB2	C:182:ILE:CD1	0.619
5	C:189:ASP:HB2	C:219:PHE:O	0.619
5	C:279:ASN:OD1	C:291:LEU:HD13	0.619
5	E:3:SER:O	E:4:ASN:HB2	0.619
5	F:35:MET:HE1	F:73:ARG:HB3	0.619
5	C:46:LEU:HD13	C:89:ALA:O	0.618
5	C:47:GLY:HA3	C:284:ASP:HB3	0.618
5	C:44:LEU:CD2	C:54:ASN:HB3	0.618
5	C:146:PHE:O	C:147:TYR:HB3	0.618
5	C:149:HIS:HB2	C:354:ASP:CA	0.618
5	C:202:VAL:HG23	C:209:GLU:HB3	0.618
5	C:63:LEU:O	C:203:LEU:HD12	0.618
5	D:241:PHE:O	D:252:LEU:HD22	0.618
5	A:236:VAL:HG12	A:237:LEU:N	0.617
5	A:403:HIS:HE1	A:405:GLN:HB2	0.617
5	C:88:LYS:HE2	C:223:ASP:OD2	0.617
5	C:108:ALA:HB2	C:132:LEU:CD2	0.617
5	C:139:ASP:C	C:348:ILE:HB	0.617
5	C:245:ILE:HG13	C:288:ILE:O	0.617
5	C:265:ARG:CZ	C:283:ARG:HB2	0.617

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:56:ALA:HB1	D:75:GLN:CG	0.617
5	D:146:LEU:O	D:146:LEU:HD22	0.617
5	D:256:ARG:HD3	E:28:ILE:CD1	0.617
5	C:46:LEU:HD22	C:89:ALA:O	0.616
5	C:106:ILE:HG23	C:107:VAL:H	0.616
5	C:148:GLU:HB2	C:385:ARG:NH2	0.616
5	C:155:GLU:HG3	C:390:GLN:CD	0.616
5	C:184:VAL:C	C:242:THR:HA	0.616
5	C:140:PHE:H	C:302:LEU:HD23	0.616
5	C:309:GLU:HB3	F:51:ASP:OD1	0.616
5	D:106:ALA:HB1	D:107:PRO:CD	0.616
5	A:305:ILE:CD1	A:330:THR:HG22	0.615
5	C:49:GLY:HA2	C:281:TRP:CG	0.615
5	C:87:GLU:CD	C:229:ASP:HA	0.615
5	C:119:LEU:HD21	C:156:ASP:OD1	0.615
5	C:139:ASP:CB	C:308:ILE:H	0.615
5	C:267:GLN:O	C:271:LYS:HD2	0.615
5	C:289:LEU:HB3	C:360:TYR:O	0.615
5	C:151:LYS:NZ	C:385:ARG:HD2	0.615
5	D:256:ARG:HG2	E:28:ILE:HB	0.615
5	C:280:LYS:N	C:280:LYS:O	0.615
5	A:156:ILE:HG13	A:246:TYR:HE2	0.614
5	C:47:GLY:HA3	C:284:ASP:CB	0.614

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:49:GLY:HA2	C:284:ASP:OD1	0.614
5	C:184:VAL:CA	C:242:THR:HA	0.614
5	C:271:LYS:CA	C:280:LYS:HB3	0.614
5	E:52:THR:OG1	E:53:PRO:HA	0.614
5	A:156:ILE:CD1	A:224:GLU:HB2	0.613
5	A:211:GLN:HE22	A:261:TRP:CD1	0.613
5	C:280:LYS:CA	C:285:THR:HB	0.613
5	D:286:LEU:C	D:286:LEU:HD13	0.613
5	A:334:ILE:HG23	A:335:PRO:HD3	0.612
5	A:384:ASN:CB	C:118:GLU:HA	0.612
5	C:141:ASP:HB3	C:345:PHE:O	0.612
5	C:149:HIS:O	C:153:LEU:HD13	0.612
5	C:182:ILE:HG23	C:183:ASP:N	0.612
5	C:66:ASN:ND2	C:199:ARG:HB3	0.612
5	C:267:GLN:C	C:271:LYS:HD2	0.612
5	C:282:LEU:HD12	C:283:ARG:CZ	0.612
5	C:141:ASP:O	C:349:SER:HA	0.612
5	D:57:LYS:HD3	D:332:TRP:CZ2	0.612
5	D:286:LEU:HD21	D:294:CYS:CB	0.612
5	D:335:PHE:O	D:336:LEU:HG	0.612
5	A:89:GLN:HG2	A:91:ASP:O	0.611
5	A:143:LEU:HD11	A:379:TYR:HE2	0.611
5	A:304:VAL:O	A:308:VAL:HG13	0.611

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:5:GLY:HA2	D:52:ARG:HE	0.611
5	C:151:LYS:CE	C:386:MET:HA	0.611
5	C:186:LYS:HB2	C:382:ILE:CD1	0.611
5	C:260:ASP:C	C:272:LEU:HD11	0.611
5	A:132:SER:HA	A:373:LEU:HB3	0.610
5	A:344:PHE:HA	A:348:MET:HG2	0.610
5	A:361:LEU:N	A:361:LEU:HD12	0.610
5	C:47:GLY:C	C:285:THR:H	0.610
5	C:149:HIS:C	C:354:ASP:HB2	0.610
5	C:185:ILE:HG12	C:357:HIS:CE1	0.610
5	C:94:ASP:OD1	C:231:ARG:HD2	0.610
5	C:231:ARG:NE	C:232:ARG:HA	0.610
5	C:289:LEU:N	C:289:LEU:HD13	0.610
5	C:87:GLU:OE2	C:296:LEU:HD21	0.610
5	D:99:TRP:HB3	D:117:LEU:CD1	0.610
5	D:193:ALA:HB2	D:234:PHE:CZ	0.610
5	C:187:GLN:HA	C:187:GLN:N	0.610
5	A:182:TYR:HB2	B:18:ALA:CB	0.609
5	A:237:LEU:HD21	C:39:ALA:CB	0.609
5	A:237:LEU:HD22	C:35:GLN:HE21	0.609
5	A:301:PHE:CD1	A:337:LEU:HD13	0.609
5	C:44:LEU:HD13	C:89:ALA:CB	0.609
5	C:62:ILE:HB	C:202:VAL:HB	0.609

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:90:THR:CA	C:294:GLN:HB2	0.609
5	C:87:GLU:OE1	C:229:ASP:HA	0.609
5	C:231:ARG:HG2	C:235:ILE:CB	0.609
5	C:271:LYS:O	C:280:LYS:HB2	0.609
5	C:288:ILE:O	C:288:ILE:HG13	0.609
5	C:314:GLU:HG3	C:315:PHE:N	0.609
5	D:13:GLN:O	D:16:ASN:HB3	0.609
5	D:19:ARG:O	D:23:LYS:HD2	0.609
5	D:191:SER:O	D:199:PHE:HB2	0.609
5	E:8:SER:O	E:11:GLN:HB2	0.609
5	A:31:PRO:HB2	A:32:PRO:HD2	0.608
5	A:119:LEU:O	A:123:ILE:HG12	0.608
5	C:43:LEU:HD22	C:44:LEU:N	0.608
5	C:84:SER:CB	C:87:GLU:HA	0.608
5	C:140:PHE:CE2	C:352:SER:HB2	0.608
5	C:148:GLU:HB2	C:385:ARG:HH21	0.608
5	C:48:ALA:O	C:279:ASN:HB3	0.608
5	C:244:ILE:O	C:288:ILE:HG12	0.608
5	C:289:LEU:HD22	C:290:PHE:CA	0.608
5	C:143:PRO:O	C:358:TYR:HA	0.608
5	D:256:ARG:NE	E:28:ILE:HB	0.608
5	F:87:LEU:HD22	F:88:LYS:N	0.608
5	A:16:TRP:H22	A:45:GLU:HG3	0.607

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:90:THR:HG21	C:296:LEU:CB	0.607
5	C:139:ASP:CG	C:348:ILE:HD12	0.607
5	C:148:GLU:HB3	C:385:ARG:NE	0.607
5	C:150:ALA:CA	C:354:ASP:HB2	0.607
5	C:233:LYS:HG3	D:188:MET:SD	0.607
5	C:247:VAL:HA	C:292:ASN:ND2	0.607
5	C:267:GLN:NE2	C:268:ALA:HB2	0.607
5	C:305:LYS:HE2	F:100:CYS:SG	0.607
5	C:150:ALA:H	C:354:ASP:C	0.607
5	D:45:MET:HA	E:60:PRO:CG	0.607
5	D:50:THR:HB	D:336:LEU:O	0.607
5	C:34:LYS:HA	D:55:LEU:HD11	0.606
5	C:92:VAL:HG21	C:244:ILE:HG12	0.606
5	C:92:VAL:HG22	C:95:ILE:HG21	0.606
5	C:93:GLN:HB2	C:300:LYS:HG2	0.606
5	C:140:PHE:HE1	C:142:PHE:CE1	0.606
5	C:211:LYS:HB3	C:220:HIS:HA	0.606
5	C:274:ASP:O	C:277:TRP:HB3	0.606
5	C:147:TYR:H	C:355:GLY:HA2	0.606
5	D:28:ALA:O	D:31:SER:HA	0.606
5	D:61:MET:HB2	D:71:VAL:O	0.606
5	D:139:LEU:HB2	D:169:TRP:CE2	0.606
5	C:345:PHE:HD1	C:346:LEU:H	0.606

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:124:ILE:HG23	A:365:LEU:HD11	0.605
5	C:62:ILE:HG13	C:203:LEU:HG	0.605
5	C:153:LEU:O	C:159:VAL:HG21	0.605
5	C:286:SER:C	C:293:LYS:HG3	0.605
5	C:385:ARG:NH1	C:388:LEU:HD13	0.605
5	D:221:THR:CB	E:1:MET:HE1	0.605
5	A:353:ARG:HG2	A:354:GLY:N	0.604
5	A:370:PHE:CD1	A:373:LEU:HD21	0.604
5	C:57:VAL:HA	C:222:PHE:CD1	0.604
5	C:60:MET:HG3	D:97:SER:HA	0.604
5	C:62:ILE:HG22	C:68:PHE:CE2	0.604
5	C:142:PHE:HE2	C:146:PHE:CZ	0.604
5	C:160:ARG:HD2	C:164:GLU:OE2	0.604
5	C:189:ASP:OD2	C:211:LYS:HG3	0.604
5	C:304:GLY:C	F:107:ASP:HB2	0.604
5	D:19:ARG:HA	D:23:LYS:CE	0.604
5	D:155:ASN:O	D:156:GLN:HG2	0.604
5	D:142:HIS:NE2	D:161:SER:HB3	0.604
5	A:250:GLY:H	A:253:VAL:HG23	0.603
5	C:60:MET:CB	D:98:SER:H	0.603
5	C:131:ILE:HG13	C:354:ASP:OD1	0.603
5	C:155:GLU:HG3	C:390:GLN:NE2	0.603
5	C:198:LEU:HD12	C:199:ARG:NH1	0.603

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:271:LYS:HG3	C:297:LEU:CB	0.603
5	C:280:LYS:HA	C:284:ASP:C	0.603
5	D:283:ARG:HG3	D:284:LEU:CD1	0.603
5	A:27:LEU:HG	A:41:ARG:HH21	0.602
5	C:143:PRO:HD3	C:349:SER:CB	0.602
5	C:308:ILE:O	C:308:ILE:HG23	0.602
5	C:151:LYS:HZ1	C:385:ARG:CD	0.602
5	D:295:ASN:OD1	D:304:ARG:HG3	0.602
5	A:333:LEU:O	A:333:LEU:HD13	0.601
5	A:336:LEU:O	A:336:LEU:HD22	0.601
5	C:46:LEU:HB2	C:89:ALA:O	0.601
5	C:55:THR:HB	C:235:ILE:CA	0.601
5	C:97:ASN:HA	C:303:ALA:CB	0.601
5	C:182:ILE:HB	C:356:ARG:O	0.601
5	C:307:LYS:C	C:309:GLU:HG2	0.601
5	C:183:ASP:OD2	C:382:ILE:HG23	0.601
5	D:23:LYS:HE2	D:26:ALA:H	0.601
5	D:57:LYS:HG3	D:57:LYS:O	0.601
5	C:49:GLY:CA	C:248:VAL:HA	0.600
5	C:60:MET:HE3	D:97:SER:CA	0.600
5	C:90:THR:HB	C:294:GLN:OE1	0.600
5	C:113:LEU:O	C:113:LEU:HD22	0.600
5	C:134:VAL:HB	C:351:ALA:C	0.600

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:305:LYS:C	F:107:ASP:H	0.600
5	D:19:ARG:C	D:23:LYS:HD2	0.600
5	D:16:ASN:O	D:20:ASP:HB2	0.600
5	D:40:VAL:HG11	E:67:PHE:CB	0.600
5	D:57:LYS:CE	D:59:TYR:HB2	0.600
5	D:80:ILE:HG12	D:89:LYS:HE2	0.600
5	D:269:ILE:HD11	D:271:CYS:SG	0.600
5	A:328:LYS:HD2	C:123:GLU:OE2	0.599
5	C:140:PHE:HA	C:348:ILE:CA	0.599
5	C:208:PHE:HB3	C:223:ASP:H	0.599
5	C:280:LYS:HA	C:284:ASP:O	0.599
5	D:93:ILE:HG12	D:94:PRO:O	0.599
5	D:184:THR:OG1	D:205:ASP:HB3	0.599
5	D:276:VAL:HG12	D:277:SER:N	0.599
5	F:35:MET:SD	F:80:LEU:HB3	0.599
5	A:298:PHE:O	A:301:PHE:HB3	0.598
5	A:374:MET:O	A:377:ILE:HG22	0.598
5	C:48:ALA:C	C:248:VAL:HB	0.598
5	C:57:VAL:HG12	C:238:PHE:HE1	0.598
5	C:81:ARG:CA	C:208:PHE:HB2	0.598
5	C:289:LEU:HD23	C:362:HIS:CA	0.598
5	C:342:ARG:O	C:345:PHE:HB3	0.598
5	D:31:SER:O	D:32:GLN:HG2	0.598

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:260:GLU:OE1	D:263:THR:HB	0.598
5	C:305:LYS:H	F:106:ARG:N	0.598
5	C:49:GLY:HA2	C:281:TRP:HB2	0.597
5	C:61:ARG:HG2	C:62:ILE:N	0.597
5	C:87:GLU:OE2	C:229:ASP:HA	0.597
5	C:140:PHE:H	C:302:LEU:CD2	0.597
5	D:22:ARG:HD2	D:258:ASP:O	0.597
5	D:231:ALA:O	D:232:ILE:HG23	0.597
5	D:264:TYR:OH	D:295:ASN:HB3	0.597
5	D:293:ASN:OD1	D:307:VAL:HG13	0.597
5	C:246:PHE:H	C:246:PHE:HD1	0.597
5	C:51:SER:H	C:89:ALA:N	0.597
5	A:85:GLY:O	A:86:LEU:HG	0.596
5	A:333:LEU:CD1	A:337:LEU:HD13	0.596
5	C:77:PRO:HD2	C:198:LEU:CD2	0.596
5	C:114:VAL:HB	C:115:PRO:CD	0.596
5	C:273:PHE:O	C:276:ILE:HG22	0.596
5	D:20:ASP:O	D:23:LYS:HB3	0.596
5	D:38:ASP:HB3	D:267:ASP:OD1	0.596
5	D:49:ARG:HD2	E:55:PRO:CB	0.596
5	F:34:LYS:HB2	F:100:CYS:SG	0.596
5	F:55:SER:HA	F:73:ARG:HH21	0.596
5	C:90:THR:HG21	C:296:LEU:CD1	0.595

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:139:ASP:HB3	C:308:ILE:HG22	0.595
5	C:285:THR:O	C:292:ASN:HA	0.595
5	D:19:ARG:HG2	D:23:LYS:NZ	0.595
5	D:80:ILE:HG12	D:89:LYS:CE	0.595
5	F:84:MET:SD	F:87:LEU:HB2	0.595
5	A:47:ALA:HB2	A:63:PRO:HG3	0.594
5	A:139:ALA:O	A:140:SER:HB3	0.594
5	A:280:MET:HG3	A:283:TRP:CZ2	0.594
5	A:316:LEU:C	A:316:LEU:HD13	0.594
5	A:328:LYS:HG2	C:123:GLU:OE1	0.594
5	C:46:LEU:CD1	C:294:GLN:HB2	0.594
5	C:70:GLY:O	C:201:ARG:HB2	0.594
5	C:68:PHE:O	C:211:LYS:HG2	0.594
5	C:298:ALA:HA	C:301:VAL:HG23	0.594
5	C:339:TYR:HA	C:342:ARG:HB3	0.594
5	F:80:LEU:H	F:80:LEU:HD23	0.594
5	A:9:LEU:HB2	B:15:GLU:CG	0.593
5	C:8:LYS:HG2	C:9:THR:N	0.593
5	C:80:ALA:HB3	C:201:ARG:HH11	0.593
5	C:184:VAL:HG22	C:242:THR:OG1	0.593
5	C:186:LYS:HA	C:243:ALA:CB	0.593
5	C:251:SER:HB2	C:253:TYR:O	0.593
5	C:285:THR:HG21	C:295:ASP:OD1	0.593

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:271:CYS:HA	D:290:ASP:OD1	0.593
5	A:110:GLU:OE2	A:112:SER:HB2	0.592
5	A:348:MET:CE	A:360:LYS:HG3	0.592
5	A:406:ARG:CB	A:412:PRO:HB3	0.592
5	C:46:LEU:HD23	C:246:PHE:CB	0.592
5	C:178:PHE:HA	C:239:ASN:HD21	0.592
5	C:295:ASP:CA	C:297:LEU:HA	0.592
5	D:25:CYS:HB3	D:259:GLN:CD	0.592
5	D:117:LEU:HD13	D:118:ASP:N	0.592
5	F:92:THR:HG21	F:127:VAL:HG22	0.592
5	A:149:LEU:CD1	C:180:ASP:HB3	0.591
5	C:47:GLY:HA2	C:284:ASP:HB3	0.591
5	C:62:ILE:CB	C:202:VAL:HG12	0.591
5	C:208:PHE:CD1	C:222:PHE:HA	0.591
5	C:69:ASN:CA	C:211:LYS:HG2	0.591
5	C:238:PHE:CE2	C:244:ILE:CG1	0.591
5	C:267:GLN:HG2	C:271:LYS:HZ2	0.591
5	C:346:LEU:C	C:346:LEU:HD13	0.591
5	C:180:ASP:H	C:356:ARG:CZ	0.591
5	C:394:LEU:HD21	D:55:LEU:O	0.591
5	D:56:ALA:O	D:334:SER:HB3	0.591
5	C:96:LYS:HZ1	C:142:PHE:HB2	0.590
5	C:54:ASN:N	C:224:VAL:CG2	0.590

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:235:ILE:O	C:235:ILE:HD13	0.590
5	C:389:ARG:C	C:389:ARG:HD3	0.590
5	C:155:GLU:OE2	C:390:GLN:HB3	0.590
5	A:245:LEU:O	A:245:LEU:HD13	0.589
5	A:264:VAL:HB	A:282:TYR:CZ	0.589
5	A:312:LEU:HD21	A:320:THR:HG22	0.589
5	A:370:PHE:CE2	A:374:MET:HG3	0.589
5	C:55:THR:HG21	C:234:TRP:C	0.589
5	C:73:GLY:HA2	C:197:LEU:HD21	0.589
5	C:184:VAL:HG22	C:241:VAL:O	0.589
5	C:268:ALA:O	C:283:ARG:HA	0.589
5	C:50:GLU:H	C:284:ASP:CG	0.589
5	D:111:TYR:HD2	D:123:ILE:HD11	0.589
5	C:173:ASP:CA	D:290:ASP:HB2	0.589
5	A:181:MET:O	A:194:LEU:HD12	0.588
5	A:261:TRP:HA	A:282:TYR:HH	0.588
5	C:92:VAL:HG22	C:95:ILE:HG22	0.588
5	C:101:GLU:HA	F:106:ARG:HH22	0.588
5	C:144:PRO:HD3	C:359:CYS:SG	0.588
5	C:170:GLN:HB3	D:270:ILE:HA	0.588
5	C:182:ILE:HB	C:356:ARG:CG	0.588
5	C:259:GLU:HG3	C:282:LEU:N	0.588
5	D:260:GLU:HG2	D:262:MET:H	0.588

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	E:28:ILE:HG23	E:29:LYS:O	0.588
5	F:39:ARG:HE	F:93:ALA:HB3	0.588
5	C:305:LYS:NZ	F:105:THR:H	0.588
5	A:11:GLU:HG2	A:15:LYS:HZ2	0.587
5	A:156:ILE:O	A:156:ILE:HG23	0.587
5	A:388:LEU:H	A:388:LEU:HD13	0.587
5	C:87:GLU:CA	C:87:GLU:O	0.587
5	C:103:ILE:HD11	C:127:ARG:NH2	0.587
5	C:244:ILE:N	C:244:ILE:HD12	0.587
5	C:259:GLU:HA	C:282:LEU:HD23	0.587
5	C:279:ASN:O	C:280:LYS:HB2	0.587
5	A:60:VAL:HG12	A:61:SER:N	0.586
5	A:332:THR:O	A:335:PRO:HD2	0.586
5	B:2:ALA:O	B:3:GLU:HB2	0.586
5	C:74:GLU:HG3	C:211:LYS:O	0.586
5	C:103:ILE:C	C:131:ILE:HD11	0.586
5	C:143:PRO:HD3	C:349:SER:OG	0.586
5	C:214:VAL:HG11	C:372:ILE:HD12	0.586
5	C:42:ARG:O	C:241:VAL:HG12	0.586
5	C:302:LEU:HB3	C:306:SER:O	0.586
5	D:292:PHE:HD1	D:315:VAL:HG22	0.586
5	F:19:LEU:HD13	F:20:ARG:N	0.586
5	C:88:LYS:HA	C:88:LYS:N	0.586

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:305:LYS:HZ2	F:105:THR:H	0.586
5	A:265:LYS:HD2	A:274:TRP:CE3	0.585
5	A:298:PHE:CD1	A:342:VAL:HG11	0.585
5	A:363:THR:HG23	A:364:GLU:N	0.585
5	A:414:LYS:HD2	A:414:LYS:O	0.585
5	C:43:LEU:HD21	C:245:ILE:HG22	0.585
5	C:45:LEU:HD13	C:252:SER:HB2	0.585
5	C:75:GLU:HA	C:201:ARG:HH12	0.585
5	C:104:GLU:HG2	C:131:ILE:HG12	0.585
5	C:178:PHE:O	C:181:LYS:HB3	0.585
5	D:99:TRP:CG	D:117:LEU:H	0.585
5	D:286:LEU:HD12	D:318:LEU:CD2	0.585
5	C:54:ASN:HA	C:224:VAL:HG22	0.584
5	C:73:GLY:HA2	C:197:LEU:HD11	0.584
5	C:54:ASN:HD22	C:89:ALA:CB	0.584
5	C:183:ASP:HB2	C:386:MET:CB	0.584
5	D:298:ASP:HB3	D:301:LYS:O	0.584
5	A:301:PHE:HD1	A:337:LEU:HD13	0.583
5	A:344:PHE:CD1	A:364:GLU:HG3	0.583
5	C:60:MET:HA	D:98:SER:CA	0.583
5	C:103:ILE:O	C:131:ILE:HD11	0.583
5	C:134:VAL:CG2	C:351:ALA:HA	0.583
5	C:150:ALA:HA	C:354:ASP:HB2	0.583

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:155:GLU:HA	C:389:ARG:HH21	0.583
5	C:181:LYS:HD3	C:181:LYS:O	0.583
5	D:38:ASP:OD1	D:39:PRO:HD2	0.583
5	F:127:VAL:O	F:127:VAL:HG23	0.583
5	C:70:GLY:C	C:201:ARG:HB2	0.582
5	C:73:GLY:HA2	C:197:LEU:CD2	0.582
5	C:90:THR:CB	C:294:GLN:HB2	0.582
5	C:127:ARG:HH11	C:128:VAL:HG22	0.582
5	C:143:PRO:HG3	C:349:SER:C	0.582
5	C:185:ILE:O	C:186:LYS:HG3	0.582
5	C:96:LYS:HZ1	C:287:VAL:HG21	0.582
5	C:298:ALA:H	C:301:VAL:HG22	0.582
5	D:7:LEU:N	D:7:LEU:HD23	0.582
5	D:43:ILE:C	D:43:ILE:HD13	0.582
5	A:25:ARG:O	A:28:THR:HG22	0.581
5	A:35:THR:O	A:35:THR:HG23	0.581
5	C:96:LYS:HE2	C:287:VAL:CG2	0.581
5	C:308:ILE:CD1	C:310:ASP:HB2	0.581
5	D:80:ILE:HG23	D:89:LYS:HG3	0.581
5	D:107:PRO:HD3	D:151:PHE:CD2	0.581
5	D:134:ARG:HG2	D:135:VAL:N	0.581
5	D:273:ILE:HG13	D:288:GLY:O	0.581
5	C:46:LEU:CA	C:89:ALA:H	0.581

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:13:VAL:HG21	A:191:TRP:HZ3	0.580
5	C:44:LEU:CB	C:238:PHE:CZ	0.580
5	C:54:ASN:HD22	C:89:ALA:HB2	0.580
5	C:99:LEU:C	C:99:LEU:HD23	0.580
5	C:66:ASN:HD22	C:199:ARG:HB3	0.580
5	C:245:ILE:HD13	C:375:VAL:HG21	0.580
5	D:269:ILE:O	D:269:ILE:HG23	0.580
5	A:305:ILE:HB	A:308:VAL:HG21	0.579
5	A:311:LYS:HD3	C:384:GLN:NE2	0.579
5	A:344:PHE:HA	A:348:MET:SD	0.579
5	C:56:ILE:HG22	C:237:CYS:CB	0.579
5	C:64:HIS:HB3	C:203:LEU:HD11	0.579
5	C:102:ALA:HB2	C:172:ILE:HG21	0.579
5	C:104:GLU:OE2	C:135:MET:HG3	0.579
5	D:112:VAL:HG23	D:126:LEU:CD1	0.579
5	D:221:THR:HB	E:1:MET:HE1	0.579
5	D:250:CYS:O	D:264:TYR:HB3	0.579
5	A:22:GLN:O	A:25:ARG:HB3	0.578
5	C:46:LEU:HD11	C:294:GLN:H	0.578
5	C:144:PRO:O	C:147:TYR:HB3	0.578
5	C:151:LYS:CB	C:182:ILE:HD13	0.578
5	C:154:TRP:HB3	C:389:ARG:NH2	0.578
5	C:214:VAL:HG21	C:372:ILE:HD11	0.578

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:271:LYS:CE	C:294:GLN:HG2	0.578
5	C:280:LYS:HA	C:285:THR:CA	0.578
5	C:281:TRP:HB2	C:284:ASP:CB	0.578
5	D:194:PRO:HD2	D:234:PHE:CE2	0.578
5	E:53:PRO:O	E:54:VAL:HG22	0.578
5	F:37:TRP:HE1	F:95:TYR:HB3	0.578
5	D:124:TYR:HE1	D:134:ARG:H	0.578
5	A:15:LYS:HG2	A:65:TYR:CD1	0.577
5	A:66:LEU:HD22	A:67:PRO:O	0.577
5	A:162:ALA:O	A:165:ILE:HG12	0.577
5	A:243:PHE:O	A:244:ARG:HB3	0.577
5	A:301:PHE:CE1	A:333:LEU:HD12	0.577
5	A:370:PHE:HE2	A:374:MET:HG3	0.577
5	A:391:ARG:O	A:395:GLU:HG2	0.577
5	C:59:GLN:HG2	C:60:MET:N	0.577
5	C:92:VAL:HG11	C:185:ILE:HD11	0.577
5	C:275:SER:CA	C:278:ASN:H	0.577
5	C:304:GLY:CA	F:106:ARG:C	0.577
5	C:373:ARG:O	C:376:PHE:HB3	0.577
5	D:60:ALA:HA	D:317:CYS:SG	0.577
5	D:111:TYR:CD2	D:123:ILE:HD11	0.577
5	D:249:THR:HB	D:265:SER:OG	0.577
5	C:356:ARG:NH2	C:389:ARG:HH12	0.577

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:57:PHE:HA	A:78:TYR:CD1	0.576
5	C:75:GLU:HA	C:201:ARG:NH1	0.576
5	C:140:PHE:CE1	C:349:SER:HB2	0.576
5	C:178:PHE:HA	C:181:LYS:HD2	0.576
5	C:201:ARG:HH21	C:210:THR:HB	0.576
5	A:9:LEU:HA	A:12:THR:HG22	0.575
5	A:66:LEU:CD2	A:67:PRO:HD2	0.575
5	A:317:MET:HE1	A:398:ARG:HD2	0.575
5	C:58:LYS:HA	C:238:PHE:CZ	0.575
5	C:51:SER:N	C:88:LYS:CA	0.575
5	C:187:GLN:HG2	C:188:ALA:H	0.575
5	C:78:GLN:H	C:198:LEU:HD21	0.575
5	C:307:LYS:HB2	F:48:TRP:CE3	0.575
5	C:140:PHE:HZ	C:352:SER:HB2	0.575
5	D:81:ILE:HD11	D:90:VAL:HG12	0.575
5	D:82:TRP:CZ3	D:89:LYS:HB2	0.575
5	F:40:GLN:CB	F:46:LEU:HD22	0.575
5	F:99:ARG:HD2	F:118:TYR:CE2	0.575
5	C:147:TYR:H	C:357:HIS:H	0.575
5	A:76:HIS:CG	A:77:VAL:N	0.574
5	A:205:LEU:HD22	A:208:LEU:HB2	0.574
5	A:332:THR:HG23	A:333:LEU:N	0.574
5	A:357:ARG:CG	A:361:LEU:HD11	0.574

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:56:ILE:CG1	D:99:TRP:HA	0.574
5	C:76:ASP:O	C:79:ALA:HB2	0.574
5	C:91:LYS:HE3	C:234:TRP:O	0.574
5	C:380:ARG:O	C:383:ILE:HG22	0.574
5	D:51:LEU:HD22	D:82:TRP:HE1	0.574
5	D:194:PRO:HG2	D:236:PRO:O	0.574
5	D:198:LEU:HB2	D:212:ASP:OD2	0.574
5	F:39:ARG:HB2	F:95:TYR:HD1	0.574
5	C:285:THR:HA	C:285:THR:N	0.574
5	A:80:PHE:HB3	A:88:LEU:HD12	0.573
5	A:223:VAL:HG12	A:246:TYR:CE2	0.573
5	C:58:LYS:C	C:58:LYS:N	0.573
5	C:92:VAL:O	C:92:VAL:HG13	0.573
5	C:194:ASP:OD1	C:197:LEU:HD23	0.573
5	C:208:PHE:CD2	C:223:ASP:HB2	0.573
5	C:320:THR:OG1	C:321:PRO:HD2	0.573
5	D:22:ARG:O	D:25:CYS:HB2	0.573
5	D:119:ASN:CG	D:142:HIS:HB3	0.573
5	C:173:ASP:OD1	D:290:ASP:HA	0.573
5	F:51:ASP:O	F:60:SER:HB2	0.573
5	A:9:LEU:HB2	B:15:GLU:HG3	0.572
5	A:15:LYS:HG2	A:65:TYR:HA	0.572
5	A:319:LYS:HB2	C:126:PHE:CG	0.572

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:55:THR:HG21	C:234:TRP:CB	0.572
5	C:73:GLY:HA2	C:197:LEU:CD1	0.572
5	C:84:SER:HB3	C:88:LYS:H	0.572
5	C:282:LEU:O	C:282:LEU:HD13	0.572
5	D:167:ALA:HB2	D:179:THR:HG22	0.572
5	C:54:ASN:HD22	C:89:ALA:N	0.572
5	C:286:SER:N	C:293:LYS:N	0.572
5	A:17:ARG:HG2	A:17:ARG:O	0.571
5	A:39:CYS:SG	A:81:CYS:HB3	0.571
5	A:79:ARG:NH2	A:96:PRO:HB2	0.571
5	C:42:ARG:HB3	C:58:LYS:O	0.571
5	C:106:ILE:HD11	C:159:VAL:O	0.571
5	C:139:ASP:HB3	C:308:ILE:H	0.571
5	C:140:PHE:HA	C:348:ILE:C	0.571
5	C:184:VAL:HG13	C:241:VAL:O	0.571
5	C:188:ALA:HB2	C:217:VAL:HG13	0.571
5	C:213:GLN:HB2	C:218:ASN:OD1	0.571
5	C:275:SER:HB2	C:279:ASN:O	0.571
5	C:289:LEU:HD23	C:290:PHE:HA	0.571
5	C:345:PHE:CZ	C:361:PRO:HA	0.571
5	D:119:ASN:OD1	D:142:HIS:HB3	0.571
5	D:224:GLY:O	D:251:ARG:HD2	0.571
5	F:39:ARG:HG2	F:93:ALA:HB3	0.571

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:105:GLU:HA	A:108:ARG:NH1	0.570
5	A:138:ILE:O	A:138:ILE:HG23	0.570
5	A:265:LYS:HD2	A:274:TRP:CD2	0.570
5	A:328:LYS:C	A:328:LYS:HD3	0.570
5	C:51:SER:HA	C:294:GLN:OE1	0.570
5	C:57:VAL:HG13	C:222:PHE:CB	0.570
5	C:139:ASP:HB3	C:308:ILE:CG2	0.570
5	C:182:ILE:HD12	C:356:ARG:HA	0.570
5	C:189:ASP:HB2	C:219:PHE:C	0.570
5	C:385:ARG:HD3	C:385:ARG:O	0.570
5	D:99:TRP:CD1	D:117:LEU:H	0.570
5	D:198:LEU:HD21	D:210:LEU:HD23	0.570
5	F:83:GLN:HA	F:83:GLN:HE21	0.570
5	A:325:ARG:HD2	C:123:GLU:OE2	0.569
5	A:370:PHE:HA	A:373:LEU:CD2	0.569
5	A:385:GLU:O	A:388:LEU:HD13	0.569
5	A:404:ILE:HD11	A:412:PRO:HG3	0.569
5	C:48:ALA:HB1	C:279:ASN:HB2	0.569
5	C:92:VAL:HB	C:244:ILE:HG21	0.569
5	C:92:VAL:HG21	C:244:ILE:CD1	0.569
5	C:94:ASP:HB3	C:235:ILE:CD1	0.569
5	C:138:PRO:HG2	C:309:GLU:HB2	0.569
5	C:289:LEU:HD23	C:362:HIS:O	0.569

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:157:ILE:HG23	D:169:TRP:HE3	0.569
5	E:14:LYS:O	E:18:GLN:HG2	0.569
5	F:71:ILE:HB	F:82:LEU:HD13	0.569
5	C:136:ASN:HD22	F:106:ARG:CG	0.569
5	A:189:HIS:CE1	A:191:TRP:HB2	0.568
5	C:10:GLU:O	C:11:ASP:HB2	0.568
5	C:55:THR:HA	C:91:LYS:HD2	0.568
5	C:76:ASP:HB3	C:77:PRO:CD	0.568
5	C:224:VAL:HG12	C:227:GLN:CB	0.568
5	C:58:LYS:N	C:238:PHE:CE1	0.568
5	D:209:LYS:HD2	D:209:LYS:O	0.568
5	A:245:LEU:C	A:245:LEU:HD13	0.567
5	C:31:GLN:HG3	C:34:LYS:NZ	0.567
5	C:46:LEU:HG	C:47:GLY:N	0.567
5	C:47:GLY:HA2	C:49:GLY:C	0.567
5	C:62:ILE:HD12	C:201:ARG:O	0.567
5	C:184:VAL:HG22	C:242:THR:CB	0.567
5	C:227:GLN:O	C:228:ARG:HD3	0.567
5	C:231:ARG:CG	C:235:ILE:HG13	0.567
5	C:315:PHE:CE2	C:336:ARG:HG2	0.567
5	C:150:ALA:O	C:356:ARG:HD2	0.567
5	D:12:GLU:CA	D:15:LYS:HE2	0.567
5	D:23:LYS:HA	D:23:LYS:HE3	0.567

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:102:THR:HG21	D:148:CYS:HA	0.567
5	C:234:TRP:HZ3	C:237:CYS:HG	0.567
5	A:3:GLN:HA	A:11:GLU:OE1	0.566
5	A:78:TYR:OH	A:80:PHE:HB2	0.566
5	A:136:LEU:HD11	A:161:PHE:HB2	0.566
5	A:334:ILE:N	A:335:PRO:HD2	0.566
5	A:298:PHE:HD1	A:342:VAL:HG11	0.566
5	C:46:LEU:C	C:50:GLU:HB2	0.566
5	C:56:ILE:HD12	D:57:LYS:NZ	0.566
5	C:87:GLU:C	C:87:GLU:CB	0.566
5	C:238:PHE:CD2	C:241:VAL:CG2	0.566
5	C:318:TYR:HE2	C:339:TYR:CE2	0.566
5	D:52:ARG:HH12	D:87:THR:HG21	0.566
5	F:40:GLN:HB2	F:46:LEU:CD2	0.566
5	A:57:PHE:CD2	A:78:TYR:CD1	0.565
5	A:254:PRO:O	A:258:VAL:HG23	0.565
5	A:396:ARG:C	A:396:ARG:HD2	0.565
5	A:396:ARG:HD2	A:396:ARG:O	0.565
5	C:70:GLY:HA2	C:74:GLU:HA	0.565
5	C:75:GLU:HB2	C:80:ALA:O	0.565
5	C:123:GLU:H	C:125:GLN:HG3	0.565
5	C:134:VAL:HB	C:351:ALA:CB	0.565
5	C:245:ILE:HA	C:288:ILE:HG13	0.565

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:183:ASP:O	C:382:ILE:HG21	0.565
5	D:57:LYS:O	D:74:SER:HB2	0.565
5	D:128:THR:HG21	D:132:ASN:O	0.565
5	D:168:LEU:H	D:168:LEU:HD13	0.565
5	D:180:PHE:CD1	D:211:TRP:CE3	0.565
5	D:196:THR:HG23	D:197:ARG:N	0.565
5	D:315:VAL:HG13	D:329:THR:CG2	0.565
5	F:70:THR:CG2	F:83:GLN:HB2	0.565
5	C:47:GLY:N	C:50:GLU:N	0.565
5	A:228:LEU:O	A:228:LEU:HD23	0.564
5	A:406:ARG:HG2	A:407:ASP:N	0.564
5	C:245:ILE:CB	C:288:ILE:HG13	0.564
5	D:105:TYR:CE2	D:109:GLY:HA2	0.564
5	A:214:VAL:HG11	B:1:HIS:HB3	0.563
5	C:4:LEU:HD21	C:27:GLU:HB2	0.563
5	C:60:MET:CE	D:97:SER:HA	0.563
5	C:70:GLY:C	C:201:ARG:HG3	0.563
5	C:100:LYS:HE3	C:352:SER:OG	0.563
5	C:147:TYR:CG	C:358:TYR:HD2	0.563
5	C:181:LYS:CA	C:184:VAL:HG12	0.563
5	C:372:ILE:O	C:372:ILE:HD13	0.563
5	C:2:GLY:CA	C:394:LEU:HB3	0.563
5	D:70:LEU:HD13	D:82:TRP:O	0.563

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:227:SER:OG	D:246:ASP:HB2	0.563
5	F:28:PHE:HE2	F:118:TYR:CE2	0.563
5	A:312:LEU:HD22	A:320:THR:CG2	0.562
5	C:60:MET:HA	D:98:SER:CB	0.562
5	C:280:LYS:CA	C:285:THR:N	0.562
5	C:305:LYS:C	F:108:CYS:N	0.562
5	C:148:GLU:CA	C:355:GLY:HA3	0.562
5	D:33:ILE:O	D:34:THR:HG22	0.562
5	D:311:HIS:HD1	D:331:SER:HB3	0.562
5	A:71:SER:OG	A:108:ARG:HB3	0.561
5	A:156:ILE:C	A:156:ILE:HD13	0.561
5	A:188:GLN:HA	A:188:GLN:OE1	0.561
5	A:343:ILE:HG13	A:347:VAL:HG21	0.561
5	A:373:LEU:O	A:373:LEU:HD23	0.561
5	A:405:GLN:O	A:406:ARG:HB2	0.561
5	A:414:LYS:HA	F:57:ALA:CA	0.561
5	C:19:GLN:O	C:23:ASN:HB2	0.561
5	C:71:GLU:HG3	C:201:ARG:HB2	0.561
5	C:140:PHE:HA	C:348:ILE:CB	0.561
5	C:146:PHE:HA	C:355:GLY:HA2	0.561
5	C:78:GLN:N	C:198:LEU:HD21	0.561
5	C:266:LEU:HD12	F:45:GLY:CA	0.561
5	C:391:TYR:C	C:391:TYR:N	0.561

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:9:GLN:O	D:12:GLU:HG3	0.561
5	D:73:ALA:HB2	D:79:LEU:HD22	0.561
5	D:81:ILE:CG1	D:91:HIS:H	0.561
5	C:136:ASN:HD22	F:106:ARG:HG2	0.561
5	A:37:LEU:CD1	A:54:PRO:HG2	0.560
5	A:66:LEU:HD22	A:67:PRO:CD	0.560
5	A:71:SER:CB	A:108:ARG:HE	0.560
5	A:377:ILE:HG23	A:378:LEU:N	0.560
5	C:70:GLY:HA3	C:74:GLU:OE2	0.560
5	C:97:ASN:HB2	C:303:ALA:C	0.560
5	C:181:LYS:O	C:184:VAL:HG12	0.560
5	C:191:VAL:CG2	C:192:PRO:HD2	0.560
5	C:209:GLU:HG3	C:222:PHE:CD2	0.560
5	C:234:TRP:CD1	D:145:TYR:CD1	0.560
5	C:300:LYS:CD	C:301:VAL:HA	0.560
5	D:6:GLN:HB3	D:7:LEU:HD23	0.560
5	D:100:VAL:CG2	D:114:CYS:HB3	0.560
5	D:297:TRP:NE1	D:302:ALA:HA	0.560
5	A:15:LYS:O	A:18:GLU:HB3	0.559
5	A:46:TYR:CZ	A:63:PRO:HG2	0.559
5	A:71:SER:HB2	A:108:ARG:HE	0.559
5	A:155:TYR:CD1	A:243:PHE:HE1	0.559
5	A:357:ARG:HG2	A:361:LEU:HD11	0.559

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:142:PHE:CE2	C:146:PHE:CZ	0.559
5	C:265:ARG:HH12	C:283:ARG:CB	0.559
5	C:295:ASP:C	C:298:ALA:H	0.559
5	C:151:LYS:H	C:355:GLY:C	0.559
5	D:39:PRO:C	D:40:VAL:HG23	0.559
5	E:37:LEU:C	E:37:LEU:HD13	0.559
5	F:41:ALA:O	F:44:LYS:HG2	0.559
5	A:37:LEU:C	A:37:LEU:HD13	0.558
5	A:67:PRO:HB2	A:68:TRP:CZ3	0.558
5	A:261:TRP:HA	A:282:TYR:OH	0.558
5	A:415:CYS:CB	A:416:PRO:HA	0.558
5	C:69:ASN:HA	C:211:LYS:CG	0.558
5	C:160:ARG:C	C:160:ARG:HD2	0.558
5	C:241:VAL:HG12	C:242:THR:N	0.558
5	C:265:ARG:NH2	C:268:ALA:HB2	0.558
5	C:280:LYS:HA	C:285:THR:N	0.558
5	C:265:ARG:HH22	C:283:ARG:HB2	0.558
5	D:135:VAL:HG11	D:138:GLU:OE1	0.558
5	C:234:TRP:HZ3	C:237:CYS:SG	0.558
5	C:41:HIS:HA	C:188:ALA:N	0.557
5	C:46:LEU:CD1	C:89:ALA:C	0.557
5	A:383:ASN:H	C:122:PRO:HD3	0.557
5	C:153:LEU:HG	C:156:ASP:OD2	0.557

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:186:LYS:HE3	C:378:ASP:OD1	0.557
5	C:244:ILE:C	C:288:ILE:HG12	0.557
5	C:305:LYS:HD2	F:105:THR:CB	0.557
5	C:141:ASP:H	C:348:ILE:CG1	0.557
5	D:23:LYS:HG3	D:26:ALA:O	0.557
5	D:58:ILE:HD11	D:72:SER:C	0.557
5	D:162:GLY:HA2	D:186:ASP:OD1	0.557
5	D:300:LEU:C	D:300:LEU:HD13	0.557
5	C:121:ASN:HD22	C:124:ASN:HD22	0.557
5	A:143:LEU:HD21	A:379:TYR:CZ	0.556
5	C:56:ILE:CG2	D:99:TRP:CD2	0.556
5	C:177:TYR:CD2	D:332:TRP:CE2	0.556
5	C:178:PHE:CA	C:181:LYS:HB3	0.556
5	C:71:GLU:H	C:201:ARG:CZ	0.556
5	C:91:LYS:NZ	C:235:ILE:HB	0.556
5	C:265:ARG:HB3	C:267:GLN:HE22	0.556
5	C:149:HIS:N	C:355:GLY:CA	0.556
5	D:50:THR:HG21	D:335:PHE:HD1	0.556
5	D:135:VAL:CG1	D:138:GLU:HG3	0.556
5	D:264:TYR:CD2	D:297:TRP:CD2	0.556
5	F:20:ARG:HB3	F:83:GLN:NE2	0.556
5	A:362:PHE:O	A:365:LEU:HB3	0.555
5	B:22:PHE:CE2	B:26:LEU:HD11	0.555

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:42:ARG:HG2	C:58:LYS:HZ1	0.555
5	C:46:LEU:HD13	C:90:THR:HA	0.555
5	C:60:MET:HG3	D:97:SER:N	0.555
5	C:51:SER:OG	C:87:GLU:HG2	0.555
5	C:280:LYS:CA	C:285:THR:HA	0.555
5	C:280:LYS:CG	C:285:THR:HB	0.555
5	C:295:ASP:C	C:297:LEU:CA	0.555
5	C:392:GLU:CA	C:392:GLU:O	0.555
5	D:18:ILE:CD1	E:23:ALA:HB2	0.555
5	D:124:TYR:HD2	D:126:LEU:HG	0.555
5	F:35:MET:HG3	F:80:LEU:HD13	0.555
5	F:70:THR:O	F:82:LEU:HD12	0.555
5	C:93:GLN:HE22	C:142:PHE:HD1	0.555
5	C:46:LEU:CG	C:47:GLY:N	0.555
5	A:57:PHE:CZ	A:78:TYR:HB2	0.554
5	A:265:LYS:HD2	A:274:TRP:HB2	0.554
5	A:343:ILE:O	A:343:ILE:HG23	0.554
5	A:401:HIS:CB	C:347:ARG:HD2	0.554
5	C:71:GLU:HA	C:201:ARG:CZ	0.554
5	C:93:GLN:HG2	C:293:LYS:HZ3	0.554
5	C:178:PHE:HA	C:239:ASN:ND2	0.554
5	C:197:LEU:O	C:197:LEU:HD22	0.554
5	C:272:LEU:O	C:272:LEU:HD22	0.554

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:49:GLY:N	C:281:TRP:HB2	0.554
5	C:307:LYS:HB2	F:48:TRP:HE3	0.554
5	C:373:ARG:HD3	C:373:ARG:O	0.554
5	D:81:ILE:O	D:81:ILE:HG13	0.554
5	D:241:PHE:CD1	D:253:PHE:CE2	0.554
5	C:178:PHE:N	C:239:ASN:HD21	0.554
5	A:191:TRP:CZ3	B:22:PHE:CE1	0.553
5	C:58:LYS:HB3	C:241:VAL:CG2	0.553
5	C:172:ILE:HG23	C:175:ALA:HB2	0.553
5	C:174:CYS:HB3	C:236:GLN:OE1	0.553
5	C:233:LYS:N	C:235:ILE:HG22	0.553
5	C:48:ALA:O	C:248:VAL:HB	0.553
5	C:282:LEU:HB3	C:283:ARG:CD	0.553
5	A:261:TRP:CZ3	A:282:TYR:CD2	0.552
5	A:393:SER:HB3	A:394:TRP:CE3	0.552
5	C:55:THR:H	C:91:LYS:CE	0.552
5	C:92:VAL:HG21	C:238:PHE:HD2	0.552
5	C:295:ASP:HB2	C:297:LEU:CA	0.552
5	D:89:LYS:HD3	D:92:ALA:HB2	0.552
5	E:4:ASN:CG	E:5:ASN:H	0.552
5	C:356:ARG:HH21	C:389:ARG:HH12	0.552
5	A:180:TRP:CZ3	A:184:THR:HG21	0.551
5	A:150:HIS:NE2	A:231:LEU:HD21	0.551

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:230:THR:O	A:234:PHE:HB2	0.551
5	A:307:ILE:O	A:307:ILE:HG23	0.551
5	C:54:ASN:CA	C:224:VAL:CG2	0.551
5	C:114:VAL:O	C:116:PRO:HD3	0.551
5	C:119:LEU:CD1	C:124:ASN:HD21	0.551
5	C:142:PHE:HE2	C:146:PHE:CE1	0.551
5	C:173:ASP:CG	D:314:ARG:HD2	0.551
5	C:186:LYS:HD3	C:358:TYR:HB3	0.551
5	C:230:GLU:HB3	F:116:TYR:CE2	0.551
5	C:280:LYS:CA	C:284:ASP:C	0.551
5	C:294:GLN:HB3	C:296:LEU:H	0.551
5	C:296:LEU:HB3	C:299:GLU:CD	0.551
5	C:373:ARG:C	C:373:ARG:HD3	0.551
5	D:42:ARG:HG2	E:67:PHE:CD2	0.551
5	D:78:LYS:HD3	D:80:ILE:HD11	0.551
5	D:164:THR:HG21	D:183:HIS:C	0.551
5	D:286:LEU:CD2	D:296:VAL:HG22	0.551
5	A:117:GLN:HB3	A:358:PHE:CE1	0.550
5	A:208:LEU:O	A:209:LEU:HB2	0.550
5	A:294:ILE:O	A:294:ILE:HG22	0.550
5	A:307:ILE:HD11	C:384:GLN:OE1	0.550
5	A:333:LEU:C	A:333:LEU:HD13	0.550
5	A:404:ILE:C	A:404:ILE:HD13	0.550

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:24:LYS:O	C:28:LYS:HG3	0.550
5	C:53:LYS:HE3	D:117:LEU:CB	0.550
5	C:68:PHE:CB	C:202:VAL:HG13	0.550
5	C:71:GLU:CB	C:201:ARG:HH11	0.550
5	C:80:ALA:C	C:208:PHE:HA	0.550
5	C:141:ASP:HB2	C:293:LYS:CE	0.550
5	C:198:LEU:C	C:198:LEU:HD13	0.550
5	C:42:ARG:HB2	C:241:VAL:HG13	0.550
5	C:289:LEU:HD23	C:362:HIS:C	0.550
5	C:290:PHE:CE2	C:362:HIS:CD2	0.550
5	D:81:ILE:CD1	D:90:VAL:HB	0.550
5	D:111:TYR:CD2	D:123:ILE:HG13	0.550
5	C:48:ALA:N	C:285:THR:H	0.550
5	A:226:VAL:O	A:227:TYR:HB3	0.549
5	C:59:GLN:HG3	C:220:HIS:ND1	0.549
5	C:73:GLY:O	C:74:GLU:HB2	0.549
5	C:140:PHE:CG	C:349:SER:HB2	0.549
5	C:178:PHE:C	C:181:LYS:HB3	0.549
5	C:1:MET:O	D:52:ARG:HB2	0.549
5	D:135:VAL:HG11	D:138:GLU:HG3	0.549
5	E:3:SER:HB2	F:115:THR:OG1	0.549
5	E:4:ASN:ND2	E:5:ASN:H	0.549
5	A:245:LEU:O	A:249:ILE:HG12	0.548

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:47:GLY:HA2	C:50:GLU:N	0.548
5	C:50:GLU:C	C:88:LYS:H	0.548
5	C:127:ARG:HB3	C:153:LEU:HD22	0.548
5	C:147:TYR:HD1	C:148:GLU:HG3	0.548
5	C:205:SER:O	C:207:ILE:HA	0.548
5	C:301:VAL:HG11	C:307:LYS:CG	0.548
5	C:385:ARG:O	C:388:LEU:HB3	0.548
5	D:19:ARG:CA	D:23:LYS:HD2	0.548
5	D:124:TYR:OH	D:133:VAL:HG22	0.548
5	D:183:HIS:CE1	D:201:SER:HB3	0.548
5	D:304:ARG:HG2	D:305:ALA:O	0.548
5	A:156:ILE:HB	A:246:TYR:HE2	0.547
5	A:381:PHE:O	A:382:VAL:HG13	0.547
5	C:58:LYS:C	C:58:LYS:HD3	0.547
5	C:191:VAL:HB	C:218:ASN:ND2	0.547
5	C:321:PRO:HG3	C:339:TYR:CE1	0.547
5	D:93:ILE:HD12	D:133:VAL:HG11	0.547
5	F:40:GLN:HB2	F:46:LEU:HD22	0.547
5	A:9:LEU:HA	A:12:THR:CG2	0.546
5	A:221:LEU:HD21	A:337:LEU:CA	0.546
5	A:294:ILE:CG2	A:342:VAL:HG23	0.546
5	C:71:GLU:OE2	C:78:GLN:HG2	0.546
5	C:80:ALA:HB3	C:201:ARG:CD	0.546

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:91:LYS:HA	C:235:ILE:HG12	0.546
5	C:149:HIS:HB2	C:353:GLY:O	0.546
5	D:226:GLU:CG	F:28:PHE:HB3	0.546
5	E:3:SER:CB	F:115:THR:HB	0.546
5	F:2:GLN:C	F:3:VAL:HG22	0.546
5	C:51:SER:N	C:88:LYS:N	0.546
5	A:190:GLN:CD	A:193:GLY:HA3	0.545
5	A:256:LEU:C	A:256:LEU:HD13	0.545
5	A:303:ARG:O	A:307:ILE:HG22	0.545
5	C:46:LEU:CD1	C:47:GLY:N	0.545
5	C:81:ARG:C	C:208:PHE:N	0.545
5	C:90:THR:HG22	C:296:LEU:HD12	0.545
5	C:129:ASP:O	C:130:TYR:HB2	0.545
5	C:147:TYR:CE2	C:382:ILE:HG13	0.545
5	C:238:PHE:CE2	C:241:VAL:CB	0.545
5	C:48:ALA:C	C:248:VAL:HA	0.545
5	C:256:VAL:O	C:257:ILE:HB	0.545
5	C:280:LYS:CA	C:280:LYS:O	0.545
5	C:345:PHE:N	C:348:ILE:HD11	0.545
5	D:116:GLY:H	D:146:LEU:HD13	0.545
5	E:30:VAL:O	E:33:ALA:HB3	0.545
5	F:20:ARG:C	F:21:LEU:HD12	0.545
5	C:46:LEU:CD1	C:294:GLN:N	0.545

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:391:ARG:CD	C:132:LEU:HD12	0.544
5	C:41:HIS:CD2	C:219:PHE:HD1	0.544
5	C:60:MET:CG	D:97:SER:HA	0.544
5	C:126:PHE:CE1	C:130:TYR:CE1	0.544
5	C:128:VAL:HG23	C:153:LEU:HD23	0.544
5	C:151:LYS:CA	C:356:ARG:HG3	0.544
5	C:188:ALA:C	C:188:ALA:HA	0.544
5	C:251:SER:HB2	C:254:ASN:CA	0.544
5	D:91:HIS:CD2	D:133:VAL:HG21	0.544
5	A:27:LEU:HG	A:41:ARG:HE	0.543
5	A:121:LEU:HD21	A:365:LEU:CD2	0.543
5	A:204:ARG:HG2	A:205:LEU:HD23	0.543
5	A:339:THR:O	A:343:ILE:HG22	0.543
5	C:306:SER:HA	F:48:TRP:CH2	0.543
5	C:390:GLN:HG3	C:391:TYR:N	0.543
5	D:70:LEU:HD11	D:84:SER:HB2	0.543
5	D:70:LEU:H	D:70:LEU:HD13	0.543
5	D:135:VAL:HG12	D:136:SER:O	0.543
5	E:45:ALA:HB1	E:47:GLU:O	0.543
5	F:20:ARG:HB3	F:83:GLN:HE22	0.543
5	C:44:LEU:CD2	C:238:PHE:CE1	0.542
5	C:62:ILE:HD12	C:202:VAL:CA	0.542
5	C:87:GLU:HB3	C:227:GLN:CD	0.542

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:88:LYS:HB3	C:88:LYS:HZ2	0.542
5	C:104:GLU:O	C:108:ALA:HB3	0.542
5	C:151:LYS:HZ3	C:182:ILE:HD13	0.542
5	C:266:LEU:N	C:266:LEU:HD22	0.542
5	C:286:SER:C	C:286:SER:CB	0.542
5	C:290:PHE:CB	C:292:ASN:ND2	0.542
5	A:129:TYR:OH	A:172:PHE:HB2	0.541
5	A:231:LEU:HD12	C:387:HIS:CG	0.541
5	C:143:PRO:HD3	C:349:SER:O	0.541
5	C:186:LYS:HD2	C:358:TYR:HB3	0.541
5	C:195:GLN:HB2	C:200:CYS:SG	0.541
5	C:238:PHE:CE2	C:241:VAL:CG1	0.541
5	D:111:TYR:CZ	D:151:PHE:CE1	0.541
5	D:190:LEU:HD22	D:201:SER:HA	0.541
5	D:237:ASN:HB2	E:40:TYR:OH	0.541
5	C:112:ASN:ND2	C:113:LEU:H	0.541
5	A:8:SER:O	A:12:THR:HG22	0.540
5	A:33:PRO:HB3	A:51:ASP:OD2	0.540
5	A:253:VAL:HB	A:254:PRO:CD	0.540
5	A:307:ILE:HG12	C:384:GLN:NE2	0.540
5	C:34:LYS:HA	D:55:LEU:HD13	0.540
5	C:46:LEU:HB2	C:89:ALA:CA	0.540
5	C:50:GLU:CB	C:88:LYS:HE3	0.540

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:56:ILE:HG12	D:99:TRP:HB2	0.540
5	C:80:ALA:HB1	C:209:GLU:N	0.540
5	C:147:TYR:CD2	C:358:TYR:HD2	0.540
5	C:178:PHE:HA	C:239:ASN:OD1	0.540
5	C:54:ASN:N	C:224:VAL:HG22	0.540
5	C:244:ILE:CG2	C:246:PHE:CE1	0.540
5	D:150:ARG:HG2	D:150:ARG:NH1	0.540
5	E:7:ALA:CB	E:11:GLN:HG2	0.540
5	D:17:GLN:NE2	E:23:ALA:HB1	0.540
5	C:31:GLN:CA	C:34:LYS:HG2	0.539
5	C:119:LEU:HD12	C:124:ASN:HD21	0.539
5	C:189:ASP:H	C:219:PHE:CA	0.539
5	C:281:TRP:CB	C:284:ASP:CB	0.539
5	C:330:GLU:OE2	C:335:THR:HB	0.539
5	D:63:TRP:CE3	D:70:LEU:HB3	0.539
5	D:242:ALA:HB2	D:278:PHE:CZ	0.539
5	F:21:LEU:HD22	F:95:TYR:HD2	0.539
5	A:71:SER:HB3	A:108:ARG:NH2	0.538
5	A:156:ILE:CG1	A:246:TYR:HE2	0.538
5	A:370:PHE:HA	A:373:LEU:HD21	0.538
5	C:140:PHE:CE1	C:349:SER:CB	0.538
5	C:169:TYR:O	C:171:LEU:HD12	0.538
5	C:93:GLN:NE2	C:303:ALA:HB2	0.538

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:317:ARG:HG2	C:317:ARG:O	0.538
5	D:52:ARG:HG2	D:53:GLY:N	0.538
5	D:58:ILE:HD11	D:73:ALA:N	0.538
5	D:209:LYS:C	D:209:LYS:HD2	0.538
5	D:251:ARG:HB3	D:260:GLU:HG3	0.538
5	D:264:TYR:CE2	D:297:TRP:CE3	0.538
5	D:245:SER:H	D:273:ILE:CG2	0.538
5	D:304:ARG:HD3	D:307:VAL:CG2	0.538
5	A:149:LEU:HB3	C:393:LEU:N	0.537
5	C:48:ALA:HB3	C:248:VAL:N	0.537
5	C:88:LYS:NZ	C:223:ASP:CA	0.537
5	C:234:TRP:CD1	D:145:TYR:CE1	0.537
5	C:291:LEU:HB2	C:363:PHE:CD1	0.537
5	C:302:LEU:C	C:302:LEU:HD13	0.537
5	D:43:ILE:O	D:44:GLN:HG2	0.537
5	D:135:VAL:HG11	D:138:GLU:CG	0.537
5	D:273:ILE:HD11	D:287:ALA:O	0.537
5	F:112:THR:O	F:112:THR:HG23	0.537
5	A:72:VAL:O	A:72:VAL:HG12	0.536
5	A:190:GLN:CG	A:193:GLY:HA3	0.536
5	A:223:VAL:HG13	A:246:TYR:CE1	0.536
5	C:61:ARG:HB3	D:96:ARG:HA	0.536
5	C:79:ALA:O	C:207:ILE:HD11	0.536

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:234:TRP:HD1	D:145:TYR:CE1	0.536
5	D:257:ALA:CB	E:28:ILE:HG22	0.536
5	D:278:PHE:CZ	D:285:LEU:HD12	0.536
5	A:31:PRO:CB	A:32:PRO:HD2	0.535
5	A:348:MET:O	A:349:ASP:HB2	0.535
5	C:147:TYR:CD2	C:382:ILE:HG13	0.535
5	C:201:ARG:NH2	C:208:PHE:CZ	0.535
5	D:180:PHE:HB2	D:211:TRP:CE3	0.535
5	C:309:GLU:O	F:60:SER:HA	0.535
5	C:71:GLU:N	C:201:ARG:NE	0.535
5	A:242:ILE:HG23	A:243:PHE:N	0.534
5	B:26:LEU:HD22	B:31:GLY:HA2	0.534
5	C:44:LEU:HD11	C:91:LYS:HG2	0.534
5	C:51:SER:CB	C:88:LYS:N	0.534
5	C:266:LEU:HD12	C:269:ALA:HB3	0.534
5	C:289:LEU:C	C:289:LEU:HD22	0.534
5	C:300:LYS:HD2	C:300:LYS:O	0.534
5	D:124:TYR:CD1	D:125:ASN:N	0.534
5	D:203:ALA:H	D:229:ILE:HG21	0.534
5	F:68:ARG:HB3	F:85:ASN:OD1	0.534
5	A:27:LEU:HG	A:41:ARG:NH2	0.533
5	A:261:TRP:CD1	A:262:GLY:N	0.533
5	A:387:GLN:CD	C:125:GLN:HA	0.533

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:40:THR:HA	C:188:ALA:O	0.533
5	C:45:LEU:HB2	C:88:LYS:CE	0.533
5	C:46:LEU:CD2	C:246:PHE:CD2	0.533
5	C:69:ASN:HB2	C:212:PHE:CA	0.533
5	C:134:VAL:CB	C:351:ALA:CB	0.533
5	C:140:PHE:CE1	C:142:PHE:CE1	0.533
5	C:60:MET:SD	C:205:SER:HB2	0.533
5	C:88:LYS:NZ	C:223:ASP:HA	0.533
5	C:265:ARG:CZ	C:265:ARG:HB2	0.533
5	C:392:GLU:HG2	C:393:LEU:H	0.533
5	D:23:LYS:HE2	D:26:ALA:N	0.533
5	D:50:THR:CG2	D:335:PHE:CD1	0.533
5	D:192:LEU:N	D:192:LEU:HD12	0.533
5	D:200:VAL:HG22	D:209:LYS:O	0.533
5	A:68:TRP:HD1	A:108:ARG:CD	0.533
5	C:146:PHE:HD1	C:147:TYR:H	0.533
5	A:13:VAL:HG11	A:191:TRP:CH2	0.532
5	C:80:ALA:HA	C:207:ILE:O	0.532
5	C:178:PHE:CA	C:239:ASN:HD21	0.532
5	C:238:PHE:CE2	C:241:VAL:HG21	0.532
5	C:259:GLU:HA	C:282:LEU:HD22	0.532
5	D:99:TRP:CD2	D:117:LEU:HD12	0.532
5	D:237:ASN:HB2	E:40:TYR:CE2	0.532

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:280:LYS:HD2	D:322:ASP:O	0.532
5	A:160:LEU:HD22	A:164:PHE:CE1	0.531
5	A:265:LYS:HD2	A:274:TRP:CG	0.531
5	C:71:GLU:CA	C:75:GLU:H	0.531
5	C:71:GLU:HB2	C:201:ARG:NH1	0.531
5	A:149:LEU:CB	C:180:ASP:HB3	0.531
5	C:201:ARG:HH21	C:210:THR:CB	0.531
5	C:186:LYS:O	C:242:THR:HG22	0.531
5	C:275:SER:C	C:278:ASN:H	0.531
5	C:48:ALA:O	C:281:TRP:HB2	0.531
5	C:293:LYS:CG	C:300:LYS:HD3	0.531
5	C:299:GLU:HA	F:108:CYS:O	0.531
5	C:90:THR:HG1	C:300:LYS:CB	0.531
5	D:36:ASN:CG	D:37:ILE:H	0.531
5	D:100:VAL:HG22	D:114:CYS:HB3	0.531
5	D:203:ALA:H	D:229:ILE:CG2	0.531
5	A:136:LEU:CD1	A:161:PHE:HB2	0.530
5	A:147:ARG:HD2	D:312:ASP:HB2	0.530
5	A:301:PHE:HE1	A:333:LEU:HD12	0.530
5	A:335:PRO:HG3	A:374:MET:SD	0.530
5	C:20:ARG:HD3	C:24:LYS:HD2	0.530
5	C:44:LEU:CG	C:238:PHE:CZ	0.530
5	C:54:ASN:HA	C:224:VAL:CG2	0.530

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:171:LEU:N	C:171:LEU:HD13	0.530
5	C:214:VAL:HG22	C:372:ILE:HD11	0.530
5	C:150:ALA:H	C:355:GLY:C	0.530
5	D:277:SER:O	D:285:LEU:HD23	0.530
5	D:307:VAL:C	D:308:LEU:HD22	0.530
5	C:271:LYS:NZ	C:297:LEU:H	0.530
5	A:146:PHE:HE2	A:148:HIS:CG	0.529
5	A:158:LEU:CB	A:161:PHE:HE2	0.529
5	A:158:LEU:HA	A:161:PHE:CE2	0.529
5	A:155:TYR:HE1	A:247:VAL:HG21	0.529
5	A:203:CYS:SG	A:273:CYS:HB3	0.529
5	A:404:ILE:HD11	A:412:PRO:CG	0.529
5	A:406:ARG:CD	A:412:PRO:HB3	0.529
5	C:46:LEU:HB2	C:89:ALA:C	0.529
5	C:178:PHE:CZ	C:185:ILE:HG21	0.529
5	C:212:PHE:CE2	C:372:ILE:HG21	0.529
5	C:265:ARG:HH22	C:283:ARG:CG	0.529
5	C:141:ASP:H	C:348:ILE:CB	0.529
5	D:12:GLU:HB2	D:15:LYS:HE2	0.529
5	D:294:CYS:SG	D:315:VAL:HG11	0.529
5	A:79:ARG:HB3	A:87:TRP:CE2	0.528
5	C:139:ASP:CB	C:308:ILE:N	0.528
5	C:179:LEU:HB3	C:356:ARG:HH11	0.528

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:257:ILE:C	C:257:ILE:HD13	0.528
5	D:55:LEU:HD12	D:76:ASP:OD2	0.528
5	D:111:TYR:OH	D:113:ALA:HB2	0.528
5	E:58:GLU:HA	E:58:GLU:OE1	0.528
5	F:33:TYR:OH	F:35:MET:HG3	0.528
5	F:39:ARG:HE	F:93:ALA:CB	0.528
5	A:383:ASN:H	C:121:ASN:H	0.528
5	C:55:THR:CG2	C:56:ILE:N	0.528
5	A:139:ALA:HA	A:142:ILE:CG2	0.527
5	A:139:ALA:CA	A:142:ILE:HG22	0.527
5	A:218:TYR:CG	A:290:ILE:HG13	0.527
5	A:391:ARG:HH22	A:404:ILE:HD12	0.527
5	C:327:GLU:O	C:330:GLU:HG2	0.527
5	D:116:GLY:H	D:146:LEU:CD1	0.527
5	D:269:ILE:HD12	D:289:TYR:CZ	0.527
5	F:33:TYR:CE1	F:35:MET:CB	0.527
5	A:143:LEU:N	A:143:LEU:HD23	0.526
5	A:319:LYS:HB2	C:126:PHE:CZ	0.526
5	C:49:GLY:CA	C:281:TRP:HB2	0.526
5	C:53:LYS:HG3	D:99:TRP:CZ3	0.526
5	C:191:VAL:HG23	C:192:PRO:HD2	0.526
5	C:91:LYS:HD2	C:235:ILE:HA	0.526
5	C:281:TRP:CA	C:284:ASP:HB2	0.526

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:179:LEU:CD2	C:356:ARG:HD3	0.526
5	D:5:ASP:HA	D:8:ARG:HB2	0.526
5	D:135:VAL:HG11	D:138:GLU:CD	0.526
5	F:20:ARG:HG3	F:81:TYR:OH	0.526
5	A:11:GLU:HG2	A:15:LYS:CE	0.525
5	A:280:MET:HG3	A:283:TRP:CE2	0.525
5	C:62:ILE:HG13	C:203:LEU:CG	0.525
5	C:96:LYS:HD3	C:246:PHE:HZ	0.525
5	C:154:TRP:CG	C:356:ARG:NH1	0.525
5	C:293:LYS:HZ3	C:300:LYS:HD3	0.525
5	C:315:PHE:HZ	C:336:ARG:HG2	0.525
5	C:206:GLY:H	D:118:ASP:HB2	0.525
5	D:164:THR:CG2	D:183:HIS:HB2	0.525
5	C:173:ASP:OD1	D:314:ARG:HD2	0.525
5	F:44:LYS:HG3	F:45:GLY:N	0.525
5	A:301:PHE:HD1	A:337:LEU:CD1	0.524
5	C:234:TRP:CH2	D:101:MET:SD	0.524
5	C:149:HIS:N	C:355:GLY:HA3	0.524
5	D:100:VAL:O	D:100:VAL:HG13	0.524
5	D:180:PHE:CD1	D:211:TRP:HE3	0.524
5	D:286:LEU:CD1	D:318:LEU:HD21	0.524
5	A:394:TRP:HD1	A:398:ARG:HH12	0.524
5	A:60:VAL:N	A:76:HIS:CE1	0.523

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:107:LYS:HG2	A:108:ARG:N	0.523
5	C:44:LEU:CD2	C:54:ASN:CG	0.523
5	C:47:GLY:CA	C:50:GLU:N	0.523
5	C:55:THR:HB	C:91:LYS:HD2	0.523
5	C:56:ILE:HG23	D:99:TRP:CH2	0.523
5	C:63:LEU:O	C:64:HIS:HB2	0.523
5	C:106:ILE:HG23	C:107:VAL:N	0.523
5	C:134:VAL:HG13	C:137:VAL:HG23	0.523
5	C:188:ALA:HB1	C:218:ASN:CA	0.523
5	C:246:PHE:CD1	C:246:PHE:N	0.523
5	C:265:ARG:HH12	C:283:ARG:CG	0.523
5	C:151:LYS:N	C:356:ARG:HA	0.523
5	D:269:ILE:CG1	D:271:CYS:HB3	0.523
5	E:52:THR:HG23	E:53:PRO:N	0.523
5	F:102:ALA:HB1	F:103:PRO:CD	0.523
5	C:44:LEU:HD21	C:54:ASN:CG	0.522
5	C:62:ILE:HG13	C:203:LEU:HB2	0.522
5	C:138:PRO:HB2	C:306:SER:O	0.522
5	C:140:PHE:HB3	C:302:LEU:HD22	0.522
5	C:144:PRO:CB	C:358:TYR:CE2	0.522
5	C:307:LYS:CA	C:307:LYS:H	0.522
5	F:40:GLN:HG3	F:46:LEU:HD21	0.522
5	A:78:TYR:CD1	A:79:ARG:N	0.521

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:149:LEU:C	C:393:LEU:N	0.521
5	C:131:ILE:HG23	C:132:LEU:N	0.521
5	C:294:GLN:CD	C:296:LEU:HD23	0.521
5	C:318:TYR:CE2	C:339:TYR:CE2	0.521
5	D:51:LEU:HB2	D:336:LEU:HB2	0.521
5	D:99:TRP:CE3	D:117:LEU:CB	0.521
5	D:123:ILE:HD12	D:171:ILE:CD1	0.521
5	E:15:LEU:CD2	E:19:LEU:HD13	0.521
5	F:94:VAL:HG23	F:123:THR:O	0.521
5	C:393:LEU:CB	C:393:LEU:N	0.521
5	A:149:LEU:HB2	C:392:GLU:O	0.520
5	A:229:TYR:CE1	A:303:ARG:NE	0.520
5	A:391:ARG:CD	C:129:ASP:HA	0.520
5	C:50:GLU:HB3	C:88:LYS:HE3	0.520
5	C:143:PRO:HG3	C:349:SER:O	0.520
5	C:209:GLU:HB2	C:222:PHE:CE2	0.520
5	D:252:LEU:HD13	D:253:PHE:CA	0.520
5	D:235:PHE:HE2	E:40:TYR:CD2	0.520
5	F:36:ASN:CB	F:51:ASP:HB3	0.520
5	A:231:LEU:O	A:231:LEU:HD13	0.519
5	A:211:GLN:NE2	A:261:TRP:CD1	0.519
5	A:387:GLN:HB2	C:125:GLN:CD	0.519
5	C:48:ALA:C	C:248:VAL:CA	0.519

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:53:LYS:HE3	D:117:LEU:HD22	0.519
5	C:60:MET:HE1	C:205:SER:CA	0.519
5	C:127:ARG:HB3	C:153:LEU:CD2	0.519
5	C:149:HIS:CA	C:355:GLY:H	0.519
5	C:154:TRP:CE3	C:179:LEU:HD13	0.519
5	C:185:ILE:HD11	C:244:ILE:HD13	0.519
5	C:244:ILE:HB	C:246:PHE:HE1	0.519
5	C:266:LEU:CB	F:113:SER:HB3	0.519
5	D:99:TRP:CD1	D:117:LEU:N	0.519
5	D:128:THR:O	D:128:THR:HG23	0.519
5	D:184:THR:HG22	E:2:ALA:N	0.519
5	A:397:TRP:HZ3	A:398:ARG:HH11	0.519
5	A:9:LEU:CA	A:12:THR:HG22	0.518
5	A:234:PHE:CG	A:235:SER:N	0.518
5	A:337:LEU:HD23	A:338:GLY:H	0.518
5	C:46:LEU:H	C:50:GLU:HB3	0.518
5	C:97:ASN:HB2	C:303:ALA:HA	0.518
5	C:143:PRO:HB2	C:144:PRO:CD	0.518
5	C:151:LYS:HD2	C:386:MET:HE2	0.518
5	C:60:MET:SD	C:222:PHE:CZ	0.518
5	C:46:LEU:CB	C:246:PHE:HA	0.518
5	C:296:LEU:HB3	C:299:GLU:HB2	0.518
5	C:307:LYS:HB3	C:309:GLU:HG2	0.518

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:315:PHE:CZ	C:336:ARG:NE	0.518
5	C:358:TYR:CD1	C:359:CYS:N	0.518
5	C:290:PHE:HE1	C:375:VAL:CG2	0.518
5	D:57:LYS:CD	D:332:TRP:CZ2	0.518
5	C:177:TYR:HE1	D:314:ARG:HD3	0.518
5	F:20:ARG:H	F:20:ARG:HD3	0.518
5	A:212:TYR:HE1	A:254:PRO:HB2	0.517
5	A:333:LEU:HD11	A:337:LEU:HD12	0.517
5	A:384:ASN:HB2	C:118:GLU:CA	0.517
5	C:62:ILE:HG13	C:203:LEU:H	0.517
5	C:87:GLU:HG3	C:265:ARG:HH21	0.517
5	C:151:LYS:HE2	C:389:ARG:HB3	0.517
5	C:184:VAL:HB	C:392:GLU:OE2	0.517
5	C:188:ALA:HB2	C:217:VAL:HG12	0.517
5	C:208:PHE:CE1	C:210:THR:CB	0.517
5	C:227:GLN:HG2	C:228:ARG:C	0.517
5	C:291:LEU:HD12	C:363:PHE:CE1	0.517
5	D:91:HIS:NE2	D:133:VAL:HG23	0.517
5	D:256:ARG:CG	E:28:ILE:HB	0.517
5	A:16:TRP:N	A:65:TYR:CD1	0.516
5	A:181:MET:SD	A:182:TYR:CD2	0.516
5	A:349:ASP:OD1	A:360:LYS:HE2	0.516
5	C:54:ASN:HB2	C:91:LYS:CB	0.516

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:59:GLN:O	C:60:MET:HB2	0.516
5	C:82:SER:CB	C:224:VAL:CA	0.516
5	C:144:PRO:HB2	C:358:TYR:CE2	0.516
5	C:153:LEU:O	C:159:VAL:HG11	0.516
5	C:82:SER:N	C:208:PHE:CB	0.516
5	C:208:PHE:CE1	C:210:THR:N	0.516
5	C:227:GLN:HG2	C:228:ARG:N	0.516
5	C:246:PHE:CD2	C:293:LYS:HG3	0.516
5	C:246:PHE:CE2	C:287:VAL:CB	0.516
5	C:141:ASP:H	C:348:ILE:C	0.516
5	F:33:TYR:HB2	F:99:ARG:HH21	0.516
5	F:87:LEU:HD21	F:92:THR:CG2	0.516
5	F:92:THR:CG2	F:127:VAL:HG22	0.516
5	A:57:PHE:CD2	A:78:TYR:CG	0.515
5	A:146:PHE:CD2	A:147:ARG:N	0.515
5	C:44:LEU:CD2	C:57:VAL:CG1	0.515
5	C:46:LEU:CD2	C:293:LYS:HA	0.515
5	C:153:LEU:HA	C:156:ASP:CG	0.515
5	C:182:ILE:O	C:185:ILE:HG22	0.515
5	D:63:TRP:HE1	D:67:SER:CA	0.515
5	D:79:LEU:CB	D:93:ILE:HG22	0.515
5	D:234:PHE:CE2	D:238:GLY:CA	0.515
5	E:3:SER:HB3	F:115:THR:HB	0.515

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:45:LEU:CB	C:88:LYS:NZ	0.515
5	C:148:GLU:N	C:355:GLY:CA	0.515
5	C:307:LYS:CB	C:307:LYS:N	0.515
5	A:23:CYS:SG	A:43:PHE:CD1	0.514
5	A:52:GLY:O	A:53:GLU:HB3	0.514
5	A:136:LEU:CD1	A:165:ILE:HG23	0.514
5	A:264:VAL:CB	A:282:TYR:CE1	0.514
5	A:406:ARG:HB2	A:412:PRO:CB	0.514
5	C:61:ARG:HH12	C:63:LEU:HB2	0.514
5	C:69:ASN:CG	C:191:VAL:HG21	0.514
5	C:127:ARG:CZ	C:131:ILE:HD12	0.514
5	A:391:ARG:NE	C:132:LEU:HD12	0.514
5	C:305:LYS:CA	F:108:CYS:N	0.514
5	D:111:TYR:CZ	D:113:ALA:HB2	0.514
5	C:47:GLY:CA	C:284:ASP:CB	0.513
5	C:110:MET:SD	C:117:VAL:HG12	0.513
5	C:127:ARG:HD3	C:354:ASP:HB3	0.513
5	C:189:ASP:CG	C:190:TYR:H	0.513
5	C:234:TRP:HA	C:234:TRP:HE3	0.513
5	C:50:GLU:OE1	C:247:VAL:HG23	0.513
5	C:364:THR:O	C:365:CYS:HB3	0.513
5	F:40:GLN:C	F:93:ALA:HB1	0.513
5	F:41:ALA:HA	F:93:ALA:HB2	0.513

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:13:VAL:H	A:65:TYR:HE1	0.513
5	C:70:GLY:H	C:211:LYS:H	0.513
5	D:259:GLN:CG	D:260:GLU:H	0.513
5	A:10:TRP:HB2	A:198:GLN:OE1	0.512
5	A:158:LEU:CB	A:161:PHE:CE2	0.512
5	A:231:LEU:C	A:231:LEU:HD13	0.512
5	C:60:MET:HA	D:98:SER:N	0.512
5	C:60:MET:HB3	C:209:GLU:OE1	0.512
5	C:84:SER:C	C:86:GLY:N	0.512
5	C:85:ASP:HA	C:253:TYR:HD2	0.512
5	C:92:VAL:HB	C:244:ILE:CG2	0.512
5	C:100:LYS:HD2	C:140:PHE:CG	0.512
5	C:147:TYR:CE2	C:385:ARG:CB	0.512
5	C:147:TYR:CZ	C:385:ARG:CB	0.512
5	C:231:ARG:CD	C:232:ARG:N	0.512
5	C:284:ASP:O	C:285:THR:HG22	0.512
5	C:285:THR:HG23	C:300:LYS:CE	0.512
5	C:246:PHE:HD2	C:293:LYS:CG	0.512
5	C:298:ALA:HB1	F:48:TRP:CH2	0.512
5	C:150:ALA:N	C:354:ASP:C	0.512
5	D:59:TYR:CE2	D:101:MET:HG3	0.512
5	D:111:TYR:H	D:126:LEU:HD13	0.512
5	D:235:PHE:CZ	E:37:LEU:HD21	0.512

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:256:ARG:CZ	E:28:ILE:HD12	0.512
5	D:328:ALA:HB2	D:338:ILE:HD12	0.512
5	E:28:ILE:O	E:29:LYS:HG3	0.512
5	F:105:THR:O	F:106:ARG:HG3	0.512
5	A:10:TRP:CE3	A:198:GLN:NE2	0.511
5	A:121:LEU:HD21	A:365:LEU:HD23	0.511
5	A:161:PHE:CD1	A:162:ALA:N	0.511
5	A:346:PHE:O	A:347:VAL:HG23	0.511
5	A:182:TYR:HD1	B:14:LEU:HB3	0.511
5	C:90:THR:HG21	C:299:GLU:CB	0.511
5	C:150:ALA:HB3	C:356:ARG:CB	0.511
5	C:87:GLU:CB	C:227:GLN:HG3	0.511
5	C:263:THR:HG21	C:282:LEU:O	0.511
5	C:285:THR:CG2	C:300:LYS:CE	0.511
5	D:41:GLY:O	D:42:ARG:HD2	0.511
5	D:185:GLY:HA2	F:116:TYR:CE1	0.511
5	D:241:PHE:CG	D:253:PHE:CZ	0.511
5	A:134:SER:O	A:138:ILE:HG22	0.510
5	A:344:PHE:CD2	A:364:GLU:HG3	0.510
5	A:399:LEU:HD22	A:403:HIS:HB2	0.510
5	A:401:HIS:CG	C:347:ARG:HD2	0.510
5	C:57:VAL:C	C:58:LYS:C	0.510
5	C:84:SER:CB	C:88:LYS:H	0.510

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:93:GLN:CD	C:96:LYS:HE3	0.510
5	C:106:ILE:HD12	C:154:TRP:CZ3	0.510
5	C:151:LYS:HB2	C:182:ILE:HD13	0.510
5	C:208:PHE:CE1	C:210:THR:CG2	0.510
5	C:251:SER:HB2	C:254:ASN:HA	0.510
5	C:362:HIS:CG	C:363:PHE:N	0.510
5	D:123:ILE:HG21	D:171:ILE:CD1	0.510
5	A:106:SER:N	A:108:ARG:HH12	0.510
5	A:228:LEU:C	A:228:LEU:HD23	0.509
5	C:46:LEU:HA	C:89:ALA:CA	0.509
5	C:48:ALA:HB3	C:248:VAL:H	0.509
5	C:58:LYS:CB	C:241:VAL:CG2	0.509
5	C:51:SER:O	C:90:THR:HG22	0.509
5	C:138:PRO:HB2	C:307:LYS:O	0.509
5	C:143:PRO:HB3	C:346:LEU:CD2	0.509
5	C:209:GLU:CG	C:222:PHE:CE2	0.509
5	C:214:VAL:CG1	C:372:ILE:HD12	0.509
5	C:247:VAL:O	C:247:VAL:HG23	0.509
5	C:345:PHE:CD1	C:346:LEU:N	0.509
5	C:150:ALA:HB3	C:356:ARG:HB2	0.509
5	D:19:ARG:HA	D:23:LYS:HE3	0.509
5	D:124:TYR:CD2	D:126:LEU:CD1	0.509
5	D:166:CYS:HB3	D:180:PHE:HB3	0.509

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:60:MET:SD	C:222:PHE:HZ	0.509
5	A:79:ARG:CB	A:87:TRP:CZ2	0.508
5	A:153:ARG:CD	C:391:TYR:CD1	0.508
5	A:194:LEU:O	A:194:LEU:HD23	0.508
5	A:319:LYS:C	A:321:ASP:N	0.508
5	C:43:LEU:HD11	C:245:ILE:CG2	0.508
5	C:46:LEU:CD1	C:294:GLN:CB	0.508
5	C:82:SER:C	C:225:GLY:N	0.508
5	C:84:SER:HB2	C:87:GLU:C	0.508
5	C:177:TYR:CE1	D:314:ARG:CB	0.508
5	C:69:ASN:N	C:211:LYS:HG2	0.508
5	C:229:ASP:HB3	C:267:GLN:CD	0.508
5	C:289:LEU:HD23	C:362:HIS:N	0.508
5	C:140:PHE:N	C:348:ILE:HB	0.508
5	D:18:ILE:HG22	D:19:ARG:N	0.508
5	D:83:ASP:HB3	D:88:ASN:HD21	0.508
5	D:124:TYR:CE1	D:133:VAL:CA	0.508
5	C:305:LYS:O	F:100:CYS:HB3	0.508
5	A:191:TRP:CD1	A:192:ASP:N	0.507
5	A:257:PHE:CE2	A:289:PRO:HB3	0.507
5	A:259:VAL:HB	A:260:PRO:HD3	0.507
5	A:319:LYS:HB2	C:126:PHE:CD2	0.507
5	A:390:PHE:CE2	A:394:TRP:CE2	0.507

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:26:ILE:HG21	D:92:ALA:HB2	0.507
5	C:154:TRP:CE2	C:176:GLN:NE2	0.507
5	C:49:GLY:N	C:284:ASP:HB3	0.507
5	C:90:THR:CB	C:296:LEU:HG	0.507
5	C:303:ALA:HA	F:107:ASP:OD2	0.507
5	C:307:LYS:CA	C:309:GLU:HG2	0.507
5	C:332:PRO:O	C:333:ARG:HB3	0.507
5	D:269:ILE:CD1	D:289:TYR:CE1	0.507
5	D:308:LEU:N	D:308:LEU:HD22	0.507
5	A:63:PRO:O	A:64:TRP:HB2	0.506
5	A:70:SER:O	A:71:SER:HB2	0.506
5	A:87:TRP:CD1	A:96:PRO:CB	0.506
5	A:222:LEU:O	A:222:LEU:HD12	0.506
5	B:27:VAL:O	B:28:LYS:HG2	0.506
5	C:41:HIS:CG	C:42:ARG:N	0.506
5	C:68:PHE:HA	C:202:VAL:CG1	0.506
5	C:71:GLU:CB	C:201:ARG:NH1	0.506
5	C:147:TYR:CZ	C:385:ARG:CG	0.506
5	C:263:THR:HG21	C:283:ARG:HB3	0.506
5	C:292:ASN:HB2	C:292:ASN:O	0.506
5	C:305:LYS:HD2	F:105:THR:CG2	0.506
5	C:380:ARG:HA	C:383:ILE:HG22	0.506
5	D:57:LYS:HD2	D:332:TRP:CH2	0.506

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:106:ALA:CB	D:151:PHE:CE2	0.506
5	D:183:HIS:CE1	D:209:LYS:CG	0.506
5	D:199:PHE:CE2	D:213:VAL:CG2	0.506
5	E:44:HIS:CG	E:45:ALA:N	0.506
5	F:71:ILE:HG12	F:82:LEU:HD13	0.506
5	F:37:TRP:HE1	F:95:TYR:CB	0.506
5	A:268:TYR:O	A:269:GLU:HB2	0.505
5	A:312:LEU:HD12	A:322:ILE:HD12	0.505
5	A:370:PHE:CD1	A:373:LEU:CD2	0.505
5	C:47:GLY:CA	C:50:GLU:H	0.505
5	C:54:ASN:HB3	C:91:LYS:CG	0.505
5	C:60:MET:CG	C:61:ARG:N	0.505
5	C:103:ILE:HD13	C:150:ALA:HB1	0.505
5	C:110:MET:O	C:111:SER:HB2	0.505
5	C:138:PRO:C	C:308:ILE:CA	0.505
5	C:177:TYR:CB	D:332:TRP:CD1	0.505
5	C:55:THR:O	C:238:PHE:HA	0.505
5	C:307:LYS:C	C:309:GLU:N	0.505
5	D:234:PHE:HD1	D:241:PHE:CD2	0.505
5	A:67:PRO:O	A:68:TRP:HB2	0.504
5	A:237:LEU:HD21	C:39:ALA:HB3	0.504
5	A:288:LEU:HB3	A:289:PRO:CD	0.504
5	A:381:PHE:CG	A:382:VAL:N	0.504

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	B:7:THR:HG22	B:8:SER:N	0.504
5	C:56:ILE:HG23	D:99:TRP:CZ2	0.504
5	C:80:ALA:HA	C:207:ILE:CG1	0.504
5	C:83:ASN:C	C:225:GLY:HA2	0.504
5	C:88:LYS:HG2	C:223:ASP:C	0.504
5	C:100:LYS:CG	C:140:PHE:CE1	0.504
5	C:177:TYR:CG	D:332:TRP:CG	0.504
5	C:271:LYS:CE	C:297:LEU:H	0.504
5	C:248:VAL:N	C:292:ASN:CG	0.504
5	C:298:ALA:N	C:301:VAL:CG2	0.504
5	C:147:TYR:OH	C:385:ARG:HB2	0.504
5	A:150:HIS:N	C:393:LEU:CA	0.504
5	D:119:ASN:ND2	D:146:LEU:HB3	0.504
5	D:235:PHE:CZ	E:37:LEU:CD2	0.504
5	F:65:VAL:CG1	F:69:PHE:CD1	0.504
5	C:189:ASP:N	C:219:PHE:N	0.504
5	A:12:THR:HA	A:15:LYS:HD2	0.503
5	A:126:THR:O	A:126:THR:HG22	0.503
5	A:149:LEU:CG	C:180:ASP:HB3	0.503
5	A:165:ILE:O	A:169:LEU:HD13	0.503
5	A:337:LEU:CD2	A:338:GLY:H	0.503
5	C:45:LEU:HD22	C:247:VAL:CG2	0.503
5	C:172:ILE:CG2	C:175:ALA:HB2	0.503

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:174:CYS:HB3	C:177:TYR:CZ	0.503
5	C:177:TYR:CE1	D:314:ARG:HB2	0.503
5	C:230:GLU:CB	F:116:TYR:CE2	0.503
5	C:231:ARG:HD3	C:232:ARG:N	0.503
5	C:275:SER:HA	C:278:ASN:H	0.503
5	C:48:ALA:C	C:279:ASN:HB3	0.503
5	C:290:PHE:CE1	C:375:VAL:CG2	0.503
5	C:294:GLN:OE1	C:296:LEU:HG	0.503
5	C:295:ASP:CB	C:297:LEU:HG	0.503
5	D:199:PHE:HE2	D:213:VAL:HG22	0.503
5	D:242:ALA:HB3	D:276:VAL:HG11	0.503
5	D:308:LEU:CD1	D:339:TRP:CE2	0.503
5	C:55:THR:OG1	C:237:CYS:N	0.503
5	A:190:GLN:HG2	A:193:GLY:N	0.502
5	C:87:GLU:HB3	C:227:GLN:HE21	0.502
5	C:88:LYS:HD2	C:223:ASP:O	0.502
5	C:98:ASN:HB3	C:174:CYS:SG	0.502
5	C:181:LYS:HZ2	C:239:ASN:CA	0.502
5	C:262:GLN:HG2	C:262:GLN:O	0.502
5	C:296:LEU:HB3	C:299:GLU:H	0.502
5	D:99:TRP:CD2	D:117:LEU:CB	0.502
5	D:161:SER:O	D:187:VAL:HG22	0.502
5	C:246:PHE:HD1	C:246:PHE:N	0.502

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:81:CYS:HA	A:87:TRP:HA	0.501
5	A:265:LYS:CG	A:274:TRP:CE3	0.501
5	A:406:ARG:HD2	A:412:PRO:HB3	0.501
5	C:47:GLY:HA2	C:49:GLY:CA	0.501
5	C:48:ALA:HB3	C:248:VAL:CG1	0.501
5	C:57:VAL:HG13	C:222:PHE:C	0.501
5	C:126:PHE:CZ	C:130:TYR:CE1	0.501
5	C:186:LYS:CB	C:382:ILE:HG21	0.501
5	C:253:TYR:CE1	C:257:ILE:HG13	0.501
5	D:169:TRP:NE1	D:174:GLY:HA2	0.501
5	D:292:PHE:CE1	D:315:VAL:CG2	0.501
5	C:305:LYS:HA	C:305:LYS:N	0.501
5	A:203:CYS:SG	A:273:CYS:CB	0.500
5	C:41:HIS:HB2	C:188:ALA:C	0.500
5	C:81:ARG:HA	C:208:PHE:HD2	0.500
5	C:140:PHE:CE2	C:352:SER:CB	0.500
5	C:179:LEU:O	C:180:ASP:HB2	0.500
5	C:186:LYS:CB	C:382:ILE:CG2	0.500
5	C:271:LYS:HG2	C:284:ASP:O	0.500
5	C:282:LEU:CB	C:283:ARG:HD2	0.500
5	D:111:TYR:CE2	D:123:ILE:CG1	0.500
5	D:155:ASN:OD1	D:171:ILE:HG22	0.500
5	D:229:ILE:CG2	D:230:ASN:N	0.500

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:271:CYS:SG	D:272:GLY:N	0.500
5	A:11:GLU:C	A:15:LYS:H22	0.499
5	A:68:TRP:CD1	A:108:ARG:CD	0.499
5	A:223:VAL:CG1	A:246:TYR:CE1	0.499
5	C:4:LEU:C	D:52:ARG:HG3	0.499
5	C:41:HIS:CA	C:188:ALA:N	0.499
5	C:272:LEU:HA	C:275:SER:HB2	0.499
5	C:298:ALA:N	C:301:VAL:HG22	0.499
5	D:184:THR:CG2	E:2:ALA:HB3	0.499
5	F:21:LEU:HD22	F:37:TRP:H22	0.499
5	C:246:PHE:HD2	C:293:LYS:CA	0.499
5	C:88:LYS:CG	C:88:LYS:N	0.499
5	A:46:TYR:CE2	A:63:PRO:CG	0.498
5	A:49:TRP:CZ2	A:58:VAL:CG2	0.498
5	A:160:LEU:CD2	A:164:PHE:CE1	0.498
5	A:247:VAL:O	A:247:VAL:HG12	0.498
5	C:41:HIS:CD2	C:43:LEU:HB2	0.498
5	C:56:ILE:CG2	C:237:CYS:CB	0.498
5	C:62:ILE:CG2	C:68:PHE:CE2	0.498
5	C:88:LYS:HG3	C:88:LYS:N	0.498
5	C:138:PRO:CA	C:302:LEU:HD23	0.498
5	C:234:TRP:CH2	D:101:MET:CB	0.498
5	C:267:GLN:HG3	C:296:LEU:C	0.498

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:58:ILE:HD12	D:73:ALA:C	0.498
5	D:102:THR:HG21	D:148:CYS:CA	0.498
5	D:111:TYR:CE2	D:123:ILE:CD1	0.498
5	D:193:ALA:CB	D:234:PHE:CZ	0.498
5	D:193:ALA:HB1	D:234:PHE:CE2	0.498
5	D:245:SER:H	D:273:ILE:HG23	0.498
5	A:344:PHE:HD1	A:348:MET:SD	0.498
5	D:25:CYS:SG	E:27:ARG:NE	0.498
5	A:102:GLU:O	A:103:CYS:HB2	0.497
5	A:128:GLY:HA3	A:369:SER:OG	0.497
5	A:223:VAL:HG13	A:246:TYR:CD1	0.497
5	A:297:ASN:CG	A:337:LEU:HD23	0.497
5	A:357:ARG:C	A:361:LEU:HD13	0.497
5	A:404:ILE:O	A:404:ILE:HG23	0.497
5	B:22:PHE:CE2	B:26:LEU:CD1	0.497
5	C:93:GLN:HG3	C:93:GLN:O	0.497
5	C:100:LYS:HD2	C:140:PHE:CE1	0.497
5	A:325:ARG:HH11	C:123:GLU:HG2	0.497
5	C:209:GLU:CB	C:222:PHE:CE2	0.497
5	C:285:THR:CA	C:285:THR:O	0.497
5	C:289:LEU:CD2	C:362:HIS:N	0.497
5	C:289:LEU:HD22	C:290:PHE:N	0.497
5	C:298:ALA:HA	F:48:TRP:CH2	0.497

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:338:LYS:CE	C:363:PHE:HB2	0.497
5	D:150:ARG:O	D:157:ILE:HG13	0.497
5	D:201:SER:HB3	D:209:LYS:HE3	0.497
5	D:211:TRP:HE1	D:213:VAL:HG22	0.497
5	E:64:LYS:HG3	E:65:LYS:N	0.497
5	C:75:GLU:CB	C:201:ARG:HH12	0.497
5	C:82:SER:CB	C:224:VAL:N	0.497
5	A:136:LEU:HD12	A:165:ILE:HG23	0.496
5	A:156:ILE:HG12	A:220:TRP:NE1	0.496
5	A:305:ILE:CG1	A:308:VAL:HG21	0.496
5	A:319:LYS:CB	C:126:PHE:CD1	0.496
5	A:319:LYS:CB	C:126:PHE:CG	0.496
5	A:370:PHE:CE2	A:374:MET:CB	0.496
5	C:50:GLU:CD	C:88:LYS:HD3	0.496
5	C:92:VAL:HG11	C:244:ILE:CG1	0.496
5	C:154:TRP:CZ2	C:176:GLN:NE2	0.496
5	C:98:ASN:HD22	C:172:ILE:CD1	0.496
5	C:245:ILE:HD12	C:375:VAL:CG2	0.496
5	C:280:LYS:HG2	C:295:ASP:OD2	0.496
5	D:99:TRP:CE3	D:117:LEU:CG	0.496
5	D:124:TYR:CE2	D:126:LEU:N	0.496
5	D:163:ASP:O	D:165:THR:HG22	0.496
5	D:184:THR:HG22	E:2:ALA:HB3	0.496

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:59:ASN:HA	A:76:HIS:CE1	0.495
5	A:414:LYS:C	A:414:LYS:HD2	0.495
5	C:94:ASP:O	C:97:ASN:HB3	0.495
5	C:54:ASN:O	C:238:PHE:CD1	0.495
5	C:321:PRO:CG	C:339:TYR:CE1	0.495
5	D:292:PHE:O	D:293:ASN:HB2	0.495
5	D:63:TRP:NE1	D:321:THR:HB	0.495
5	A:160:LEU:HA	A:220:TRP:CD1	0.494
5	C:70:GLY:CA	C:74:GLU:HA	0.494
5	C:80:ALA:HA	C:207:ILE:HG12	0.494
5	C:85:ASP:HB2	C:253:TYR:HD2	0.494
5	C:44:LEU:CD1	C:91:LYS:HG3	0.494
5	C:93:GLN:CA	C:246:PHE:CZ	0.494
5	C:232:ARG:HA	C:235:ILE:CG2	0.494
5	D:271:CYS:HB2	D:290:ASP:OD2	0.494
5	F:12:LEU:HG	F:13:VAL:N	0.494
5	F:21:LEU:CD2	F:95:TYR:HD2	0.494
5	A:105:GLU:CA	A:108:ARG:HH12	0.494
5	A:143:LEU:CD1	A:157:HIS:HD2	0.493
5	A:156:ILE:CB	A:246:TYR:HE2	0.493
5	A:167:ARG:HA	A:213:CYS:HB3	0.493
5	A:339:THR:HG23	A:342:VAL:CG1	0.493
5	A:344:PHE:CE1	A:364:GLU:CB	0.493

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:25:LYS:HD3	C:28:LYS:HD2	0.493
5	C:42:ARG:HG2	C:58:LYS:HZ2	0.493
5	C:82:SER:C	C:225:GLY:HA3	0.493
5	C:143:PRO:HG3	C:350:THR:HA	0.493
5	C:78:GLN:HE21	C:198:LEU:HD11	0.493
5	C:71:GLU:HA	C:201:ARG:HD2	0.493
5	C:208:PHE:CG	C:223:ASP:CB	0.493
5	C:285:THR:HG22	C:294:GLN:C	0.493
5	C:393:LEU:CA	C:393:LEU:H	0.493
5	D:57:LYS:NZ	D:75:GLN:HB3	0.493
5	D:128:THR:HG23	D:130:GLU:O	0.493
5	D:168:LEU:N	D:168:LEU:HD13	0.493
5	A:16:TRP:CZ2	A:45:GLU:CG	0.492
5	A:264:VAL:CG1	A:282:TYR:CE1	0.492
5	A:391:ARG:NH2	A:404:ILE:HG21	0.492
5	C:52:GLY:HA2	C:231:ARG:HB2	0.492
5	C:88:LYS:HE2	C:223:ASP:CG	0.492
5	C:243:ALA:HB1	C:288:ILE:CD1	0.492
5	C:272:LEU:O	C:275:SER:HB3	0.492
5	C:286:SER:CA	C:293:LYS:HB2	0.492
5	D:183:HIS:CE1	D:209:LYS:HG3	0.492
5	D:295:ASN:CG	D:304:ARG:HG3	0.492
5	A:15:LYS:CG	A:65:TYR:HD1	0.491

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:261:TRP:HE1	A:265:LYS:HD3	0.491
5	A:335:PRO:HB3	A:374:MET:SD	0.491
5	A:374:MET:CA	A:377:ILE:HG22	0.491
5	C:44:LEU:HD13	C:244:ILE:CG2	0.491
5	C:87:GLU:CB	C:227:GLN:HE21	0.491
5	C:151:LYS:CB	C:182:ILE:CD1	0.491
5	C:178:PHE:C	C:178:PHE:CD1	0.491
5	C:178:PHE:CD1	C:181:LYS:CD	0.491
5	C:231:ARG:CB	C:296:LEU:CD1	0.491
5	C:234:TRP:CZ2	D:101:MET:SD	0.491
5	C:246:PHE:HB3	C:293:LYS:HA	0.491
5	C:265:ARG:HH22	C:283:ARG:CB	0.491
5	C:296:LEU:HD13	C:299:GLU:HG2	0.491
5	D:165:THR:O	D:165:THR:HG23	0.491
5	D:22:ARG:HH11	D:258:ASP:HB3	0.491
5	D:289:TYR:O	D:315:VAL:HG23	0.491
5	F:6:GLN:O	F:23:CYS:HA	0.491
5	C:75:GLU:N	C:201:ARG:NH2	0.491
5	A:38:PHE:CE2	A:40:ASN:CA	0.490
5	A:58:VAL:HG12	A:59:ASN:H	0.490
5	A:98:ARG:HD3	A:100:LEU:HD21	0.490
5	A:305:ILE:HG13	A:308:VAL:HG23	0.490
5	A:415:CYS:HB3	A:416:PRO:CA	0.490

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:134:VAL:HB	C:351:ALA:HA	0.490
5	C:194:ASP:OD1	C:197:LEU:HG	0.490
5	C:253:TYR:CB	C:281:TRP:HH2	0.490
5	C:253:TYR:CD1	C:257:ILE:HG21	0.490
5	C:267:GLN:HB2	C:297:LEU:N	0.490
5	C:298:ALA:CA	F:48:TRP:CH2	0.490
5	C:318:TYR:CE2	C:339:TYR:HE2	0.490
5	C:150:ALA:HB1	C:356:ARG:HB2	0.490
5	E:52:THR:CB	E:53:PRO:HA	0.490
5	D:45:MET:CG	E:60:PRO:HG2	0.490
5	A:171:VAL:HG22	A:210:MET:CE	0.489
5	A:384:ASN:HB2	C:119:LEU:N	0.489
5	C:68:PHE:CD2	C:202:VAL:CG1	0.489
5	C:84:SER:H	C:88:LYS:CD	0.489
5	C:91:LYS:CA	C:91:LYS:NZ	0.489
5	C:97:ASN:CG	C:304:GLY:H	0.489
5	C:152:ALA:C	C:153:LEU:HD12	0.489
5	C:151:LYS:NZ	C:182:ILE:HD13	0.489
5	C:60:MET:SD	C:205:SER:CB	0.489
5	C:295:ASP:HB2	C:297:LEU:CG	0.489
5	C:315:PHE:CE2	C:336:ARG:CG	0.489
5	D:193:ALA:CB	D:234:PHE:CE2	0.489
5	D:296:VAL:CG2	D:308:LEU:HD23	0.489

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:16:TRP:HH2	A:46:TYR:CA	0.489
5	A:27:LEU:HG	A:41:ARG:NE	0.488
5	A:57:PHE:CE2	A:78:TYR:CB	0.488
5	A:229:TYR:CE1	A:303:ARG:HD3	0.488
5	C:4:LEU:CD2	C:27:GLU:HB2	0.488
5	C:46:LEU:HD13	C:90:THR:CA	0.488
5	C:60:MET:CG	C:61:ARG:H	0.488
5	C:141:ASP:CB	C:348:ILE:HG13	0.488
5	C:144:PRO:HA	C:358:TYR:HA	0.488
5	C:184:VAL:O	C:184:VAL:HG13	0.488
5	C:253:TYR:CE1	C:257:ILE:CB	0.488
5	C:265:ARG:HH12	C:283:ARG:HG3	0.488
5	C:289:LEU:CD1	C:360:TYR:CD2	0.488
5	D:23:LYS:CA	D:23:LYS:HE3	0.488
5	D:150:ARG:HE	D:192:LEU:HG	0.488
5	D:264:TYR:CE2	D:297:TRP:CB	0.488
5	A:105:GLU:CG	A:108:ARG:HH11	0.488
5	A:16:TRP:O	A:17:ARG:HB3	0.487
5	C:44:LEU:HB2	C:238:PHE:CE2	0.487
5	C:46:LEU:C	C:50:GLU:CA	0.487
5	C:50:GLU:CG	C:88:LYS:CD	0.487
5	C:127:ARG:C	C:127:ARG:CD	0.487
5	C:178:PHE:HA	C:239:ASN:CG	0.487

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:337:ALA:O	C:340:PHE:HB3	0.487
5	D:106:ALA:HB2	D:151:PHE:CE2	0.487
5	D:167:ALA:HB1	D:176:GLN:CG	0.487
5	C:87:GLU:CB	C:265:ARG:NE	0.487
5	F:108:CYS:SG	F:109:PHE:N	0.487
5	A:13:VAL:CG1	A:191:TRP:CH2	0.486
5	A:41:ARG:HG3	A:49:TRP:O	0.486
5	A:239:GLU:HB2	C:35:GLN:OE1	0.486
5	A:324:CYS:O	A:325:ARG:HB2	0.486
5	A:340:HIS:CG	A:367:PHE:CE1	0.486
5	B:1:HIS:ND1	B:4:GLY:CA	0.486
5	C:43:LEU:HD11	C:245:ILE:HG21	0.486
5	C:170:GLN:HB3	D:270:ILE:CG2	0.486
5	C:174:CYS:CB	C:177:TYR:CE1	0.486
5	C:259:GLU:O	C:260:ASP:HB2	0.486
5	C:183:ASP:O	C:382:ILE:HD13	0.486
5	D:18:ILE:O	D:19:ARG:HB2	0.486
5	D:73:ALA:CB	D:79:LEU:HD22	0.486
5	D:277:SER:CB	D:318:LEU:HD12	0.486
5	C:60:MET:N	C:220:HIS:HE1	0.486
5	F:28:PHE:HE2	F:118:TYR:HE2	0.486
5	A:219:TYR:CZ	A:253:VAL:HG21	0.485
5	A:339:THR:HG23	A:342:VAL:HG12	0.485

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:374:MET:C	A:377:ILE:HG22	0.485
5	A:411:LYS:HE3	F:53:SER:HB3	0.485
5	B:13:TYR:HD2	B:14:LEU:CD2	0.485
5	C:85:ASP:CB	C:253:TYR:CD2	0.485
5	C:85:ASP:CB	C:253:TYR:HD2	0.485
5	C:99:LEU:HG	C:99:LEU:O	0.485
5	C:100:LYS:HG2	C:140:PHE:CZ	0.485
5	C:170:GLN:CB	D:270:ILE:HA	0.485
5	C:189:ASP:CA	C:218:ASN:HB3	0.485
5	C:60:MET:N	C:220:HIS:CE1	0.485
5	C:267:GLN:C	C:297:LEU:HB2	0.485
5	D:50:THR:CG2	D:335:PHE:CE1	0.485
5	D:111:TYR:CD2	D:123:ILE:CD1	0.485
5	D:122:SER:HB3	D:138:GLU:OE2	0.485
5	D:167:ALA:HB1	D:178:THR:O	0.485
5	F:4:GLN:C	F:5:LEU:HD12	0.485
5	F:35:MET:HE2	F:80:LEU:HB3	0.485
5	C:64:HIS:ND1	C:65:VAL:N	0.485
5	A:66:LEU:HD22	A:67:PRO:HD2	0.484
5	A:160:LEU:HD22	A:164:PHE:CD1	0.484
5	C:44:LEU:HD21	C:54:ASN:O	0.484
5	C:59:GLN:C	D:98:SER:CB	0.484
5	C:85:ASP:HB3	C:253:TYR:CA	0.484

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:96:LYS:CG	C:185:ILE:CD1	0.484
5	C:107:VAL:CG1	C:108:ALA:H	0.484
5	C:127:ARG:NE	C:153:LEU:CB	0.484
5	C:62:ILE:HG21	C:202:VAL:HG12	0.484
5	C:298:ALA:O	C:301:VAL:HG23	0.484
5	C:134:VAL:CB	C:351:ALA:CA	0.484
5	D:180:PHE:CB	D:211:TRP:CZ3	0.484
5	A:308:VAL:CG2	A:309:VAL:H	0.484
5	C:55:THR:CG2	C:56:ILE:H	0.484
5	A:302:VAL:O	A:302:VAL:HG12	0.484
5	A:233:ALA:O	A:234:PHE:HB2	0.483
5	A:337:LEU:CD2	A:338:GLY:N	0.483
5	C:54:ASN:ND2	C:89:ALA:HB2	0.483
5	C:139:ASP:HB3	C:308:ILE:N	0.483
5	C:191:VAL:HB	C:218:ASN:HD21	0.483
5	C:246:PHE:HD2	C:293:LYS:HG3	0.483
5	C:186:LYS:CE	C:382:ILE:HB	0.483
5	D:40:VAL:HG11	E:67:PHE:HB2	0.483
5	D:142:HIS:CE1	D:161:SER:CB	0.483
5	D:281:SER:OG	D:283:ARG:HG2	0.483
5	A:55:GLY:N	A:81:CYS:SG	0.483
5	A:15:LYS:HG3	A:65:TYR:HA	0.482
5	A:159:ASN:CB	A:220:TRP:CZ2	0.482

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:41:HIS:O	C:42:ARG:HG3	0.482
5	C:45:LEU:HD12	C:223:ASP:OD1	0.482
5	C:88:LYS:CB	C:88:LYS:NZ	0.482
5	C:91:LYS:HG3	C:92:VAL:N	0.482
5	C:103:ILE:HG21	C:150:ALA:HB1	0.482
5	C:106:ILE:CD1	C:154:TRP:CZ3	0.482
5	C:57:VAL:O	C:222:PHE:HB3	0.482
5	C:248:VAL:CG2	C:281:TRP:CD1	0.482
5	C:305:LYS:CE	F:100:CYS:SG	0.482
5	C:345:PHE:CZ	C:359:CYS:SG	0.482
5	C:362:HIS:CG	C:363:PHE:H	0.482
5	D:60:ALA:CA	D:317:CYS:SG	0.482
5	C:59:GLN:O	D:98:SER:HB3	0.482
5	F:119:ARG:HG2	F:119:ARG:HH11	0.482
5	C:53:LYS:CD	D:145:TYR:HD2	0.482
5	A:60:VAL:N	A:76:HIS:ND1	0.482
5	C:356:ARG:HH21	C:389:ARG:NH1	0.482
5	D:169:TRP:HE1	D:174:GLY:CA	0.482
5	D:233:CYS:SG	D:234:PHE:N	0.482
5	A:80:PHE:CD2	A:88:LEU:CG	0.481
5	A:397:TRP:CE3	A:398:ARG:CG	0.481
5	C:95:ILE:HD11	C:236:GLN:HG3	0.481
5	C:100:LYS:HE3	C:140:PHE:CZ	0.481

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:127:ARG:HD3	C:127:ARG:O	0.481
5	C:134:VAL:CG2	C:351:ALA:CB	0.481
5	C:91:LYS:O	C:235:ILE:HG12	0.481
5	C:267:GLN:CG	C:268:ALA:N	0.481
5	D:81:ILE:HG12	D:91:HIS:H	0.481
5	D:110:ASN:O	D:111:TYR:HB2	0.481
5	D:146:LEU:C	D:146:LEU:HD22	0.481
5	D:286:LEU:HD21	D:294:CYS:HB3	0.481
5	A:279:ASN:ND2	A:281:ASN:H	0.481
5	C:305:LYS:H	F:106:ARG:H	0.481
5	C:359:CYS:SG	C:360:TYR:N	0.481
5	A:131:LEU:O	A:134:SER:HB3	0.480
5	A:219:TYR:CE2	A:223:VAL:CG2	0.480
5	C:44:LEU:HB2	C:238:PHE:CZ	0.480
5	C:99:LEU:HD12	C:179:LEU:CA	0.480
5	C:194:ASP:OD2	C:197:LEU:HA	0.480
5	C:358:TYR:HD1	C:359:CYS:C	0.480
5	D:70:LEU:CD1	D:84:SER:HB2	0.480
5	D:104:ALA:HB3	D:113:ALA:HB3	0.480
5	E:54:VAL:HG23	E:55:PRO:HD3	0.480
5	A:23:CYS:SG	A:43:PHE:HD1	0.480
5	C:232:ARG:NH1	C:236:GLN:NE2	0.480
5	A:7:VAL:O	A:7:VAL:HG13	0.479

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:27:LEU:CD2	A:41:ARG:HH21	0.479
5	A:240:GLN:OE1	A:243:PHE:HB3	0.479
5	A:301:PHE:CD1	A:337:LEU:CD1	0.479
5	A:305:ILE:HD13	A:330:THR:CG2	0.479
5	C:45:LEU:CB	C:88:LYS:CE	0.479
5	C:129:ASP:HB3	C:130:TYR:HD1	0.479
5	C:141:ASP:C	C:349:SER:HA	0.479
5	C:88:LYS:NZ	C:223:ASP:CB	0.479
5	C:83:ASN:N	C:224:VAL:C	0.479
5	C:270:LEU:C	C:297:LEU:HD12	0.479
5	C:289:LEU:CD1	C:289:LEU:N	0.479
5	C:151:LYS:HZ1	C:385:ARG:CG	0.479
5	D:62:HIS:HD2	D:105:TYR:HB3	0.479
5	D:264:TYR:CZ	D:297:TRP:CE3	0.479
5	F:23:CYS:SG	F:37:TRP:CZ3	0.479
5	C:271:LYS:CE	C:295:ASP:H	0.479
5	C:356:ARG:NE	C:389:ARG:HH12	0.479
5	C:4:LEU:HD22	C:27:GLU:OE2	0.478
5	C:24:LYS:C	C:27:GLU:HG2	0.478
5	C:28:LYS:O	C:31:GLN:HB3	0.478
5	C:56:ILE:HB	C:237:CYS:CB	0.478
5	C:57:VAL:HA	C:222:PHE:HB3	0.478
5	C:72:GLY:HA3	C:76:ASP:N	0.478

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:54:ASN:N	C:224:VAL:HG21	0.478
5	C:51:SER:HG	C:227:GLN:HG3	0.478
5	C:264:ASN:O	C:266:LEU:HD22	0.478
5	C:304:GLY:C	F:107:ASP:N	0.478
5	D:150:ARG:NH1	D:152:LEU:HA	0.478
5	A:318:CYS:SG	A:319:LYS:N	0.478
5	D:103:CYS:SG	D:114:CYS:SG	0.478
5	C:15:GLU:O	C:18:ALA:HB3	0.477
5	C:43:LEU:HD13	C:221:MET:SD	0.477
5	C:52:GLY:HA2	C:231:ARG:CB	0.477
5	C:55:THR:CG2	C:234:TRP:C	0.477
5	C:57:VAL:HA	C:222:PHE:CG	0.477
5	C:64:HIS:CG	C:65:VAL:N	0.477
5	C:87:GLU:C	C:87:GLU:HA	0.477
5	C:55:THR:N	C:91:LYS:CE	0.477
5	C:155:GLU:CD	C:390:GLN:HG2	0.477
5	C:214:VAL:HG21	C:372:ILE:CD1	0.477
5	C:290:PHE:CE2	C:362:HIS:HD2	0.477
5	C:247:VAL:N	C:292:ASN:HB3	0.477
5	C:307:LYS:HB3	C:309:GLU:CD	0.477
5	C:358:TYR:HE1	C:360:TYR:CA	0.477
5	D:23:LYS:HD3	D:26:ALA:O	0.477
5	D:112:VAL:CG2	D:126:LEU:HD11	0.477

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	E:49:PRO:C	E:50:LEU:HD23	0.477
5	A:80:PHE:HD2	A:88:LEU:CG	0.477
5	C:81:ARG:N	C:208:PHE:CA	0.477
5	D:307:VAL:HG12	D:308:LEU:N	0.477
5	A:16:TRP:HH2	A:45:GLU:C	0.476
5	A:133:PHE:CE1	A:165:ILE:HB	0.476
5	A:334:ILE:HG23	A:335:PRO:CD	0.476
5	A:372:GLY:O	A:373:LEU:HD22	0.476
5	C:44:LEU:CA	C:238:PHE:CZ	0.476
5	C:57:VAL:C	C:222:PHE:HB3	0.476
5	C:44:LEU:CD2	C:57:VAL:HG12	0.476
5	C:119:LEU:C	C:119:LEU:HD13	0.476
5	C:141:ASP:HA	C:293:LYS:HE2	0.476
5	C:178:PHE:CE2	C:181:LYS:HE2	0.476
5	C:209:GLU:CG	C:222:PHE:HE2	0.476
5	C:260:ASP:HA	C:272:LEU:CD2	0.476
5	C:294:GLN:HB3	C:296:LEU:CA	0.476
5	C:127:ARG:NE	C:354:ASP:CB	0.476
5	D:27:ASP:HB2	D:32:GLN:HG3	0.476
5	D:194:PRO:CD	D:234:PHE:CD2	0.476
5	D:235:PHE:CD2	D:236:PRO:HD2	0.476
5	F:77:LYS:O	F:79:THR:HG23	0.476
5	A:10:TRP:HE3	A:198:GLN:NE2	0.476

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:155:GLU:N	C:389:ARG:NH2	0.476
5	C:224:VAL:CG1	C:225:GLY:N	0.476
5	C:285:THR:CG2	C:295:ASP:N	0.476
5	A:182:TYR:CD1	B:14:LEU:HB3	0.475
5	A:205:LEU:HD22	A:208:LEU:HD12	0.475
5	A:224:GLU:CD	A:336:LEU:HD21	0.475
5	A:382:VAL:CA	C:120:ALA:HB1	0.475
5	C:44:LEU:CD1	C:92:VAL:N	0.475
5	C:54:ASN:CB	C:91:LYS:CB	0.475
5	C:55:THR:HG23	C:56:ILE:HG22	0.475
5	C:83:ASN:C	C:86:GLY:H	0.475
5	C:96:LYS:HD2	C:287:VAL:HG11	0.475
5	C:189:ASP:HB3	C:218:ASN:ND2	0.475
5	C:201:ARG:HE	C:210:THR:CB	0.475
5	C:45:LEU:HD21	C:245:ILE:HG23	0.475
5	C:90:THR:HG1	C:300:LYS:HB2	0.475
5	D:124:TYR:CE1	D:133:VAL:CG1	0.475
5	C:279:ASN:HD22	C:281:TRP:HD1	0.475
5	C:54:ASN:H	C:91:LYS:CE	0.475
5	A:149:LEU:CB	C:392:GLU:O	0.474
5	A:182:TYR:O	A:183:SER:HB2	0.474
5	A:187:GLN:O	A:188:GLN:HB2	0.474
5	A:220:TRP:HH2	A:247:VAL:HG22	0.474

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:361:LEU:CD1	A:361:LEU:N	0.474
5	C:43:LEU:HD13	C:221:MET:HE2	0.474
5	C:46:LEU:C	C:50:GLU:CB	0.474
5	C:55:THR:N	C:91:LYS:CD	0.474
5	C:41:HIS:N	C:188:ALA:C	0.474
5	C:211:LYS:CE	C:220:HIS:CG	0.474
5	C:53:LYS:CG	C:224:VAL:HG13	0.474
5	C:246:PHE:CD2	C:293:LYS:CG	0.474
5	C:253:TYR:HB3	C:281:TRP:CH2	0.474
5	C:257:ILE:O	C:257:ILE:HG23	0.474
5	C:293:LYS:HG2	C:300:LYS:CG	0.474
5	C:316:ALA:O	C:317:ARG:HB3	0.474
5	C:346:LEU:O	C:346:LEU:HD13	0.474
5	D:124:TYR:CE1	D:134:ARG:N	0.474
5	D:91:HIS:NE2	D:133:VAL:CG2	0.474
5	D:256:ARG:NE	E:28:ILE:HD12	0.474
5	F:35:MET:HE1	F:73:ARG:HB2	0.474
5	C:59:GLN:CG	C:60:MET:H	0.474
5	A:44:ASP:O	A:45:GLU:HB3	0.473
5	A:16:TRP:CZ2	A:45:GLU:HG3	0.473
5	A:334:ILE:CG2	A:335:PRO:CD	0.473
5	A:347:VAL:HG12	A:348:MET:N	0.473
5	A:364:GLU:OE1	A:368:THR:HG22	0.473

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	B:26:LEU:HD23	B:31:GLY:HA2	0.473
5	C:51:SER:CA	C:88:LYS:C	0.473
5	C:151:LYS:C	C:389:ARG:HG3	0.473
5	C:231:ARG:HB3	C:296:LEU:HD13	0.473
5	C:231:ARG:NE	C:232:ARG:CA	0.473
5	C:305:LYS:C	F:108:CYS:CB	0.473
5	D:100:VAL:HG23	D:115:GLY:O	0.473
5	D:211:TRP:CZ2	D:216:GLY:HA2	0.473
5	D:318:LEU:C	D:318:LEU:HD13	0.473
5	F:87:LEU:CD2	F:88:LYS:N	0.473
5	C:83:ASN:O	C:87:GLU:N	0.473
5	C:295:ASP:O	C:301:VAL:N	0.473
5	A:38:PHE:CZ	A:51:ASP:CB	0.472
5	A:191:TRP:O	A:195:LEU:HD12	0.472
5	A:280:MET:HA	A:283:TRP:CD2	0.472
5	C:54:ASN:C	C:57:VAL:HB	0.472
5	C:64:HIS:HB2	C:203:LEU:HD11	0.472
5	C:75:GLU:OE1	C:81:ARG:HB3	0.472
5	C:94:ASP:CG	C:231:ARG:NE	0.472
5	C:103:ILE:CG1	C:127:ARG:NH2	0.472
5	C:147:TYR:CD2	C:358:TYR:CD2	0.472
5	C:201:ARG:HD3	C:209:GLU:O	0.472
5	C:43:LEU:HD12	C:221:MET:HE2	0.472

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:232:ARG:O	C:233:LYS:HB2	0.472
5	C:296:LEU:HB3	C:299:GLU:CB	0.472
5	C:338:LYS:NZ	C:363:PHE:HB3	0.472
5	C:186:LYS:CB	C:382:ILE:CB	0.472
5	D:308:LEU:HD12	D:339:TRP:CD2	0.472
5	F:40:GLN:HG3	F:46:LEU:CD2	0.472
5	F:127:VAL:O	F:128:SER:HB3	0.472
5	C:271:LYS:NZ	C:294:GLN:CG	0.472
5	D:32:GLN:HB3	D:33:ILE:H	0.472
5	D:40:VAL:CG1	D:41:GLY:N	0.472
5	A:42:THR:O	A:49:TRP:HB3	0.471
5	A:143:LEU:CD1	A:157:HIS:CD2	0.471
5	A:319:LYS:HB2	C:126:PHE:CE2	0.471
5	A:331:LEU:O	A:334:ILE:HG22	0.471
5	A:396:ARG:HB2	A:405:GLN:NE2	0.471
5	C:41:HIS:CB	C:188:ALA:HA	0.471
5	C:289:LEU:HD21	C:362:HIS:CB	0.471
5	D:61:MET:HE1	D:319:GLY:HA3	0.471
5	D:151:PHE:CZ	D:154:ASP:CA	0.471
5	D:230:ASN:O	D:231:ALA:HB2	0.471
5	D:240:ALA:HB1	D:252:LEU:HD11	0.471
5	F:69:PHE:CD2	F:84:MET:HB2	0.471
5	A:204:ARG:HG2	A:205:LEU:N	0.470

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:31:GLN:HA	C:34:LYS:HE3	0.470
5	C:48:ALA:CB	C:248:VAL:H	0.470
5	C:54:ASN:CA	C:224:VAL:HG22	0.470
5	C:68:PHE:HB3	C:202:VAL:HG13	0.470
5	C:82:SER:C	C:224:VAL:C	0.470
5	C:119:LEU:HD21	C:159:VAL:HG22	0.470
5	C:123:GLU:C	C:125:GLN:H	0.470
5	C:88:LYS:HZ3	C:223:ASP:CG	0.470
5	C:289:LEU:HG	C:361:PRO:C	0.470
5	C:315:PHE:CZ	C:336:ARG:CG	0.470
5	F:69:PHE:CD1	F:69:PHE:N	0.470
5	A:236:VAL:CG1	A:237:LEU:N	0.470
5	C:271:LYS:HZ3	C:294:GLN:HE21	0.470
5	A:125:TYR:OH	A:171:VAL:HG11	0.469
5	A:212:TYR:CD1	A:255:LEU:CD2	0.469
5	A:234:PHE:CD2	A:235:SER:N	0.469
5	A:253:VAL:N	A:254:PRO:CD	0.469
5	C:80:ALA:CB	C:201:ARG:CD	0.469
5	C:87:GLU:CB	C:227:GLN:NE2	0.469
5	C:89:ALA:CA	C:91:LYS:HB3	0.469
5	C:90:THR:CB	C:294:GLN:CB	0.469
5	C:107:VAL:CG1	C:108:ALA:N	0.469
5	C:117:VAL:CG1	C:162:CYS:SG	0.469

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:104:GLU:OE1	C:135:MET:HA	0.469
5	C:143:PRO:HB3	C:346:LEU:HD23	0.469
5	C:144:PRO:HA	C:358:TYR:CA	0.469
5	C:127:ARG:CB	C:153:LEU:HD22	0.469
5	C:186:LYS:HG2	C:288:ILE:HG21	0.469
5	C:227:GLN:CG	C:228:ARG:N	0.469
5	C:265:ARG:NH2	C:268:ALA:CB	0.469
5	C:291:LEU:HB2	C:363:PHE:HD1	0.469
5	C:296:LEU:HD13	C:299:GLU:CD	0.469
5	C:302:LEU:HD13	F:107:ASP:CA	0.469
5	D:69:LEU:HD22	D:82:TRP:O	0.469
5	D:79:LEU:N	D:93:ILE:HG22	0.469
5	D:235:PHE:CE1	E:37:LEU:CD2	0.469
5	A:76:HIS:ND1	A:77:VAL:N	0.469
5	A:38:PHE:CE1	A:52:GLY:N	0.468
5	C:44:LEU:HD22	C:54:ASN:ND2	0.468
5	C:96:LYS:NZ	C:142:PHE:CD1	0.468
5	C:148:GLU:CB	C:385:ARG:NE	0.468
5	C:182:ILE:HG23	C:386:MET:CE	0.468
5	C:71:GLU:N	C:201:ARG:CG	0.468
5	C:290:PHE:CA	C:292:ASN:ND2	0.468
5	D:192:LEU:CD1	D:192:LEU:N	0.468
5	D:215:GLU:HA	D:215:GLU:OE1	0.468

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	E:44:HIS:O	E:45:ALA:HB2	0.468
5	A:146:PHE:HE1	C:160:ARG:NH2	0.468
5	A:324:CYS:SG	A:325:ARG:N	0.468
5	C:382:ILE:CG2	C:383:ILE:N	0.468
5	A:15:LYS:CD	A:65:TYR:CD1	0.467
5	A:18:GLU:HA	A:21:ARG:HH12	0.467
5	A:161:PHE:C	A:161:PHE:CD1	0.467
5	A:256:LEU:O	A:256:LEU:HD13	0.467
5	A:277:ASN:HB3	A:283:TRP:CZ3	0.467
5	A:319:LYS:HA	A:319:LYS:HD3	0.467
5	A:335:PRO:CB	A:374:MET:SD	0.467
5	C:43:LEU:CD1	C:245:ILE:HG22	0.467
5	C:54:ASN:HB2	C:91:LYS:HB2	0.467
5	C:57:VAL:HG13	C:222:PHE:CA	0.467
5	C:59:GLN:C	D:98:SER:HB2	0.467
5	C:90:THR:CB	C:296:LEU:CB	0.467
5	C:181:LYS:CE	C:185:ILE:HB	0.467
5	C:186:LYS:HB2	C:382:ILE:HD12	0.467
5	C:246:PHE:CD2	C:287:VAL:CB	0.467
5	C:263:THR:CG2	C:282:LEU:CD1	0.467
5	C:271:LYS:HE2	C:294:GLN:HG2	0.467
5	C:93:GLN:OE1	C:293:LYS:HE2	0.467
5	C:90:THR:CG2	C:299:GLU:HB2	0.467

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:82:TRP:HE1	D:87:THR:HA	0.467
5	D:261:LEU:O	D:262:MET:HB3	0.467
5	A:264:VAL:O	A:264:VAL:HG12	0.467
5	A:11:GLU:HG2	A:15:LYS:HE3	0.466
5	A:190:GLN:HG2	A:193:GLY:H	0.466
5	A:361:LEU:CD1	A:361:LEU:H	0.466
5	C:49:GLY:HA3	C:248:VAL:HA	0.466
5	C:290:PHE:CB	C:292:ASN:HD21	0.466
5	C:139:ASP:O	C:348:ILE:HB	0.466
5	D:71:VAL:CG1	D:72:SER:N	0.466
5	D:325:MET:HG3	D:326:ALA:N	0.466
5	F:40:GLN:CG	F:46:LEU:CD2	0.466
5	A:38:PHE:CE2	A:40:ASN:N	0.465
5	A:49:TRP:CZ2	A:58:VAL:CB	0.465
5	A:79:ARG:HB3	A:87:TRP:CZ2	0.465
5	A:232:LEU:CD2	C:387:HIS:ND1	0.465
5	C:43:LEU:HD23	C:243:ALA:O	0.465
5	C:67:GLY:HA3	C:200:CYS:HB3	0.465
5	C:70:GLY:C	C:74:GLU:HA	0.465
5	C:87:GLU:HB2	C:265:ARG:CD	0.465
5	C:100:LYS:HE2	F:106:ARG:HH21	0.465
5	C:187:GLN:CB	C:242:THR:CG2	0.465
5	C:208:PHE:CD1	C:210:THR:N	0.465

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:285:THR:HG23	C:293:LYS:O	0.465
5	C:147:TYR:CB	C:358:TYR:CA	0.465
5	D:20:ASP:C	D:23:LYS:HB3	0.465
5	D:81:ILE:HG12	D:91:HIS:N	0.465
5	D:180:PHE:CE2	D:209:LYS:HE2	0.465
5	D:291:ASP:OD2	D:293:ASN:HB2	0.465
5	F:40:GLN:O	F:42:PRO:HD3	0.465
5	F:40:GLN:NE2	F:94:VAL:HG13	0.465
5	C:69:ASN:HD22	C:218:ASN:HD21	0.465
5	A:215:ALA:CA	A:218:TYR:CE2	0.464
5	A:219:TYR:CE2	A:223:VAL:HG21	0.464
5	A:391:ARG:HD2	C:129:ASP:HA	0.464
5	A:404:ILE:HG12	A:412:PRO:HG2	0.464
5	C:46:LEU:C	C:247:VAL:H	0.464
5	C:44:LEU:CD1	C:92:VAL:HG23	0.464
5	C:114:VAL:CB	C:115:PRO:CD	0.464
5	A:383:ASN:N	C:122:PRO:HD3	0.464
5	C:96:LYS:NZ	C:142:PHE:CG	0.464
5	C:181:LYS:HE3	C:185:ILE:HB	0.464
5	C:91:LYS:HZ2	C:235:ILE:HB	0.464
5	C:251:SER:C	C:253:TYR:N	0.464
5	C:271:LYS:HE3	C:296:LEU:H	0.464
5	C:275:SER:C	C:278:ASN:N	0.464

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:289:LEU:CD2	C:290:PHE:CD1	0.464
5	D:80:ILE:HG21	D:82:TRP:CE3	0.464
5	D:81:ILE:CG1	D:91:HIS:N	0.464
5	D:103:CYS:CB	D:114:CYS:SG	0.464
5	D:229:ILE:CD1	D:232:ILE:HG23	0.464
5	E:40:TYR:CZ	E:44:HIS:ND1	0.464
5	C:146:PHE:HD1	C:147:TYR:N	0.464
5	D:183:HIS:HE1	D:201:SER:CB	0.464
5	F:69:PHE:HD1	F:69:PHE:N	0.464
5	A:360:LYS:HB3	A:361:LEU:HD12	0.463
5	C:138:PRO:HD2	C:309:GLU:O	0.463
5	C:285:THR:C	C:293:LYS:H	0.463
5	C:151:LYS:N	C:356:ARG:CA	0.463
5	D:79:LEU:HB2	D:93:ILE:HG21	0.463
5	D:202:GLY:HA3	D:229:ILE:HG21	0.463
5	D:300:LEU:O	D:301:LYS:HB3	0.463
5	F:35:MET:CE	F:80:LEU:HB3	0.463
5	C:96:LYS:NZ	C:142:PHE:CB	0.463
5	C:62:ILE:CG1	C:203:LEU:N	0.463
5	D:292:PHE:CG	D:293:ASN:N	0.463
5	A:136:LEU:C	A:136:LEU:HD13	0.462
5	A:331:LEU:O	A:335:PRO:HD3	0.462
5	A:377:ILE:HG23	A:378:LEU:HD23	0.462

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:417:THR:CG2	A:420:LEU:HB3	0.462
5	C:94:ASP:HB3	C:235:ILE:HD11	0.462
5	C:95:ILE:CD1	C:236:GLN:HG3	0.462
5	C:138:PRO:CB	C:307:LYS:O	0.462
5	C:214:VAL:CG2	C:376:PHE:CD1	0.462
5	C:212:PHE:HE2	C:214:VAL:HG13	0.462
5	C:302:LEU:CD1	F:107:ASP:CA	0.462
5	C:309:GLU:C	F:60:SER:HA	0.462
5	D:121:CYS:O	D:138:GLU:HB3	0.462
5	D:200:VAL:CG1	D:201:SER:N	0.462
5	E:32:LYS:O	E:33:ALA:HB2	0.462
5	A:363:THR:CG2	A:364:GLU:N	0.462
5	C:203:LEU:HB3	C:204:THR:H	0.462
5	C:41:HIS:NE2	C:43:LEU:HG	0.461
5	C:85:ASP:CA	C:253:TYR:HD2	0.461
5	C:55:THR:CB	C:91:LYS:HD2	0.461
5	C:44:LEU:CD1	C:92:VAL:HB	0.461
5	C:96:LYS:HG3	C:185:ILE:HD11	0.461
5	C:103:ILE:HG12	C:127:ARG:NH2	0.461
5	C:181:LYS:HG3	C:239:ASN:C	0.461
5	C:138:PRO:O	C:308:ILE:HA	0.461
5	C:367:VAL:HG12	C:368:ASP:N	0.461
5	C:290:PHE:HE1	C:375:VAL:HG23	0.461

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:23:LYS:HA	D:23:LYS:HE2	0.461
5	D:242:ALA:CB	D:285:LEU:HD11	0.461
5	D:271:CYS:HA	D:290:ASP:CG	0.461
5	F:81:TYR:HE2	F:83:GLN:CD	0.461
5	F:69:PHE:CE1	F:84:MET:HG3	0.461
5	A:58:VAL:CG1	A:59:ASN:N	0.461
5	C:45:LEU:H	C:54:ASN:ND2	0.461
5	A:124:ILE:HA	A:127:VAL:HG22	0.460
5	A:275:THR:O	A:276:ARG:HG3	0.460
5	A:334:ILE:HD11	A:339:THR:CA	0.460
5	C:46:LEU:H	C:50:GLU:CB	0.460
5	C:64:HIS:HB2	C:203:LEU:CD1	0.460
5	C:54:ASN:HD22	C:89:ALA:CA	0.460
5	C:119:LEU:HD13	C:120:ALA:N	0.460
5	C:127:ARG:NH1	C:131:ILE:HD12	0.460
5	C:194:ASP:CG	C:195:GLN:H	0.460
5	C:208:PHE:CD2	C:223:ASP:CG	0.460
5	C:211:LYS:CE	C:220:HIS:CE1	0.460
5	C:189:ASP:N	C:218:ASN:HB3	0.460
5	C:231:ARG:HE	C:232:ARG:HA	0.460
5	C:246:PHE:CZ	C:287:VAL:CB	0.460
5	D:274:THR:HG23	D:315:VAL:O	0.460
5	D:296:VAL:CG2	D:308:LEU:CD2	0.460

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:308:VAL:CG2	A:309:VAL:N	0.460
5	C:305:LYS:N	F:106:ARG:H	0.460
5	C:394:LEU:CD1	C:394:LEU:N	0.460
5	D:150:ARG:NH1	D:152:LEU:CD2	0.460
5	D:103:CYS:CA	D:114:CYS:SG	0.460
5	A:79:ARG:CB	A:87:TRP:HZ2	0.459
5	A:146:PHE:HE2	A:148:HIS:CD2	0.459
5	A:180:TRP:CZ3	A:184:THR:CG2	0.459
5	A:328:LYS:HE3	A:329:SER:N	0.459
5	C:92:VAL:HG21	C:244:ILE:CG1	0.459
5	C:134:VAL:HG11	C:137:VAL:HB	0.459
5	C:151:LYS:HB3	C:355:GLY:O	0.459
5	C:51:SER:HB3	C:224:VAL:HG11	0.459
5	C:266:LEU:HD23	F:113:SER:CB	0.459
5	C:286:SER:CA	C:292:ASN:C	0.459
5	C:97:ASN:N	C:303:ALA:HB1	0.459
5	C:307:LYS:CB	C:309:GLU:HG2	0.459
5	C:318:TYR:HE2	C:339:TYR:CD2	0.459
5	C:358:TYR:CE1	C:360:TYR:HB2	0.459
5	C:290:PHE:HE2	C:362:HIS:CD2	0.459
5	D:69:LEU:CD2	D:82:TRP:N	0.459
5	D:99:TRP:C	D:99:TRP:CD1	0.459
5	D:252:LEU:O	D:260:GLU:HG3	0.459

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:264:TYR:CE2	D:297:TRP:CD2	0.459
5	E:28:ILE:CG2	E:29:LYS:N	0.459
5	A:105:GLU:CB	A:108:ARG:NH1	0.458
5	A:420:LEU:HD23	A:421:SER:N	0.458
5	C:44:LEU:HA	C:44:LEU:HD23	0.458
5	C:48:ALA:C	C:248:VAL:CB	0.458
5	C:96:LYS:CG	C:185:ILE:HD13	0.458
5	C:138:PRO:HA	C:307:LYS:C	0.458
5	C:182:ILE:CG2	C:356:ARG:HG2	0.458
5	C:216:LYS:HB3	C:216:LYS:NZ	0.458
5	C:48:ALA:HA	C:279:ASN:HB3	0.458
5	C:280:LYS:C	C:284:ASP:C	0.458
5	C:347:ARG:HA	C:350:THR:HG22	0.458
5	C:363:PHE:CZ	C:366:ALA:HB2	0.458
5	D:93:ILE:CD1	D:133:VAL:CG1	0.458
5	C:191:VAL:CG2	C:192:PRO:N	0.458
5	D:17:GLN:CG	D:18:ILE:N	0.458
5	A:66:LEU:HD23	A:67:PRO:HD2	0.457
5	A:436:GLN:HA	A:436:GLN:OE1	0.457
5	C:30:LEU:CD2	D:78:LYS:NZ	0.457
5	C:45:LEU:HD23	C:245:ILE:O	0.457
5	C:143:PRO:CB	C:346:LEU:CD2	0.457
5	C:205:SER:C	C:207:ILE:HA	0.457

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:249:ALA:HB2	C:364:THR:HG23	0.457
5	C:265:ARG:NH1	C:283:ARG:CB	0.457
5	D:22:ARG:O	D:23:LYS:HE3	0.457
5	D:111:TYR:N	D:126:LEU:HD13	0.457
5	D:200:VAL:HG13	D:209:LYS:O	0.457
5	F:38:VAL:HG23	F:39:ARG:N	0.457
5	A:10:TRP:HE3	A:198:GLN:HE22	0.457
5	C:83:ASN:N	C:225:GLY:CA	0.457
5	C:55:THR:HG1	C:237:CYS:H	0.457
5	C:49:GLY:CA	C:281:TRP:CG	0.456
5	C:53:LYS:HG3	D:99:TRP:CH2	0.456
5	C:107:VAL:O	C:108:ALA:HB3	0.456
5	C:117:VAL:HG11	C:162:CYS:SG	0.456
5	C:169:TYR:CZ	C:170:GLN:NE2	0.456
5	C:41:HIS:CB	C:188:ALA:CA	0.456
5	C:202:VAL:CG2	C:209:GLU:CG	0.456
5	C:201:ARG:NH2	C:210:THR:HB	0.456
5	C:278:ASN:CG	C:341:ILE:HD11	0.456
5	C:321:PRO:CB	C:339:TYR:CE1	0.456
5	D:40:VAL:HG12	D:41:GLY:H	0.456
5	D:83:ASP:HB3	D:88:ASN:OD1	0.456
5	D:164:THR:HG21	D:183:HIS:CB	0.456
5	D:232:ILE:CG2	D:241:PHE:HE1	0.456

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	F:21:LEU:HB2	F:37:TRP:CZ2	0.456
5	C:266:LEU:CG	F:45:GLY:HA2	0.456
5	C:62:ILE:CG1	C:63:LEU:N	0.456
5	C:143:PRO:CG	C:146:PHE:H	0.456
5	A:197:TYR:O	A:200:SER:HB3	0.455
5	A:334:ILE:HG22	A:335:PRO:HD3	0.455
5	C:60:MET:HE3	D:96:ARG:C	0.455
5	C:84:SER:CA	C:88:LYS:HG3	0.455
5	C:154:TRP:CB	C:356:ARG:CZ	0.455
5	C:238:PHE:HE2	C:244:ILE:HG13	0.455
5	C:261:ASN:CG	C:262:GLN:H	0.455
5	C:386:MET:HE3	C:392:GLU:CG	0.455
5	A:149:LEU:CB	C:393:LEU:CA	0.455
5	D:93:ILE:HG12	D:94:PRO:N	0.455
5	D:116:GLY:O	D:146:LEU:HD13	0.455
5	D:273:ILE:HD11	D:287:ALA:HB1	0.455
5	F:6:GLN:HG2	F:7:GLU:N	0.455
5	C:208:PHE:HE1	C:210:THR:CG2	0.455
5	C:72:GLY:N	C:75:GLU:N	0.455
5	D:134:ARG:CG	D:135:VAL:N	0.455
5	A:149:LEU:C	C:392:GLU:C	0.454
5	A:212:TYR:CE1	A:255:LEU:CD2	0.454
5	A:295:GLY:O	A:299:LEU:HD13	0.454

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	B:19:ALA:O	B:22:PHE:HB3	0.454
5	C:37:TYR:O	C:40:THR:HB	0.454
5	C:50:GLU:C	C:84:SER:CB	0.454
5	C:57:VAL:CG1	C:222:PHE:C	0.454
5	C:115:PRO:HD2	E:71:LEU:O	0.454
5	C:147:TYR:CD1	C:148:GLU:HG3	0.454
5	C:216:LYS:HG3	C:216:LYS:O	0.454
5	C:93:GLN:CB	C:246:PHE:CE2	0.454
5	C:267:GLN:HB2	C:297:LEU:C	0.454
5	C:271:LYS:C	C:280:LYS:HB2	0.454
5	C:390:GLN:CG	C:391:TYR:N	0.454
5	C:177:TYR:HE1	D:314:ARG:CB	0.454
5	F:102:ALA:CB	F:103:PRO:CD	0.454
5	F:102:ALA:HA	F:103:PRO:HD3	0.454
5	C:112:ASN:ND2	C:113:LEU:N	0.454
5	C:169:TYR:CG	C:170:GLN:N	0.454
5	D:259:GLN:CG	D:260:GLU:N	0.454
5	A:343:ILE:O	A:343:ILE:HG12	0.454
5	C:58:LYS:HB3	C:241:VAL:HG21	0.453
5	C:74:GLU:CD	C:212:PHE:HD1	0.453
5	C:72:GLY:H	C:75:GLU:C	0.453
5	C:80:ALA:HB1	C:207:ILE:O	0.453
5	C:96:LYS:O	C:142:PHE:CZ	0.453

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:151:LYS:HB2	C:182:ILE:HD12	0.453
5	C:83:ASN:O	C:225:GLY:HA2	0.453
5	C:276:ILE:CG2	C:277:TRP:N	0.453
5	C:248:VAL:H	C:292:ASN:CG	0.453
5	C:305:LYS:HD2	F:105:THR:C	0.453
5	C:151:LYS:CG	C:389:ARG:HG3	0.453
5	D:103:CYS:HA	D:114:CYS:HG	0.453
5	D:123:ILE:CD1	D:171:ILE:CD1	0.453
5	D:151:PHE:HE2	D:154:ASP:HA	0.453
5	C:150:ALA:H	C:355:GLY:CA	0.453
5	C:181:LYS:CG	C:239:ASN:ND2	0.453
5	C:286:SER:O	C:287:VAL:N	0.453
5	A:129:TYR:CD1	A:168:ALA:CB	0.452
5	A:403:HIS:CE1	A:405:GLN:HB2	0.452
5	C:44:LEU:CB	C:244:ILE:CG2	0.452
5	C:56:ILE:C	C:58:LYS:N	0.452
5	C:100:LYS:CE	C:140:PHE:CE2	0.452
5	C:127:ARG:CD	C:354:ASP:CB	0.452
5	C:151:LYS:HZ3	C:182:ILE:CD1	0.452
5	C:246:PHE:CE2	C:287:VAL:CG2	0.452
5	C:298:ALA:C	C:301:VAL:HG23	0.452
5	C:183:ASP:CB	C:386:MET:HE2	0.452
5	D:183:HIS:CE1	D:209:LYS:HG2	0.452

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:173:ASP:OD1	D:314:ARG:HG3	0.452
5	C:93:GLN:OE1	C:246:PHE:HE2	0.452
5	C:279:ASN:ND2	C:281:TRP:HD1	0.452
5	C:136:ASN:HD21	F:34:LYS:NZ	0.452
5	C:209:GLU:CG	C:220:HIS:NE2	0.452
5	C:117:VAL:CB	C:162:CYS:SG	0.452
5	A:6:THR:O	A:6:THR:HG23	0.451
5	A:174:LYS:HB3	A:174:LYS:HZ3	0.451
5	A:174:LYS:HB3	A:174:LYS:NZ	0.451
5	A:190:GLN:HG2	A:193:GLY:CA	0.451
5	A:332:THR:CG2	A:333:LEU:N	0.451
5	A:335:PRO:O	A:336:LEU:HB3	0.451
5	A:406:ARG:CB	A:412:PRO:CB	0.451
5	A:9:LEU:H	B:15:GLU:HG2	0.451
5	C:5:GLY:HA2	D:52:ARG:CZ	0.451
5	C:48:ALA:CA	C:280:LYS:O	0.451
5	C:60:MET:CE	C:205:SER:HB3	0.451
5	C:74:GLU:CD	C:212:PHE:CD1	0.451
5	C:97:ASN:CB	C:304:GLY:N	0.451
5	C:88:LYS:CA	C:224:VAL:HG23	0.451
5	C:267:GLN:CD	C:268:ALA:H	0.451
5	C:268:ALA:HB1	C:283:ARG:HA	0.451
5	C:276:ILE:HG23	C:277:TRP:N	0.451

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:281:TRP:N	C:284:ASP:HB2	0.451
5	C:46:LEU:CD2	C:293:LYS:CA	0.451
5	C:390:GLN:HG3	C:391:TYR:CD2	0.451
5	E:3:SER:HB2	F:115:THR:CB	0.451
5	C:47:GLY:O	C:293:LYS:N	0.451
5	C:305:LYS:CA	F:108:CYS:H	0.451
5	A:253:VAL:CG1	A:257:PHE:HE1	0.450
5	C:46:LEU:HD23	C:246:PHE:HA	0.450
5	C:50:GLU:HG2	C:84:SER:CA	0.450
5	C:44:LEU:CD1	C:92:VAL:CB	0.450
5	C:96:LYS:CE	C:246:PHE:CZ	0.450
5	C:281:TRP:CE3	C:282:LEU:CB	0.450
5	D:93:ILE:HD12	D:133:VAL:CG1	0.450
5	D:142:HIS:CG	D:161:SER:HB3	0.450
5	D:142:HIS:CD2	D:144:GLY:C	0.450
5	A:105:GLU:CG	A:108:ARG:NH1	0.450
5	F:108:CYS:SG	F:110:ASP:N	0.450
5	A:27:LEU:C	A:27:LEU:HD23	0.449
5	A:95:LEU:CD1	A:95:LEU:N	0.449
5	A:377:ILE:CG2	A:378:LEU:N	0.449
5	C:8:LYS:HA	C:16:GLU:OE2	0.449
5	C:43:LEU:CD1	C:245:ILE:CG2	0.449
5	C:54:ASN:HB2	C:89:ALA:HA	0.449

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:107:VAL:CG1	C:128:VAL:CG1	0.449
5	C:234:TRP:CZ3	C:237:CYS:SG	0.449
5	C:300:LYS:HD2	C:301:VAL:N	0.449
5	D:81:ILE:HG13	D:91:HIS:H	0.449
5	D:106:ALA:HB2	D:111:TYR:CD1	0.449
5	D:151:PHE:CE2	D:153:ASP:C	0.449
5	D:296:VAL:HG23	D:308:LEU:HD23	0.449
5	C:72:GLY:N	C:76:ASP:N	0.449
5	C:139:ASP:N	C:308:ILE:N	0.449
5	C:30:LEU:O	C:30:LEU:HD22	0.448
5	C:83:ASN:C	C:225:GLY:CA	0.448
5	C:150:ALA:HB3	C:356:ARG:CA	0.448
5	C:187:GLN:C	C:187:GLN:CG	0.448
5	C:220:HIS:C	C:220:HIS:CD2	0.448
5	C:265:ARG:NH1	C:283:ARG:HB2	0.448
5	C:298:ALA:HB1	F:48:TRP:CZ2	0.448
5	C:314:GLU:HG3	C:315:PHE:H	0.448
5	C:338:LYS:O	C:339:TYR:HB3	0.448
5	A:10:TRP:CE3	A:198:GLN:CD	0.447
5	A:60:VAL:CG1	A:61:SER:N	0.447
5	C:59:GLN:C	C:220:HIS:CE1	0.447
5	C:55:THR:H	C:91:LYS:HE3	0.447
5	C:112:ASN:CG	C:113:LEU:H	0.447

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:149:HIS:CA	C:355:GLY:N	0.447
5	C:186:LYS:HD3	C:382:ILE:HD12	0.447
5	C:216:LYS:HB3	C:216:LYS:HZ3	0.447
5	C:282:LEU:CD1	C:283:ARG:CZ	0.447
5	C:297:LEU:O	C:298:ALA:HB2	0.447
5	C:141:ASP:N	C:348:ILE:C	0.447
5	C:390:GLN:C	C:391:TYR:CG	0.447
5	D:73:ALA:CB	D:79:LEU:CD2	0.447
5	D:234:PHE:CD1	D:241:PHE:HD2	0.447
5	F:109:PHE:CD2	F:109:PHE:O	0.447
5	A:71:SER:CB	A:108:ARG:NE	0.446
5	A:80:PHE:CB	A:88:LEU:CD1	0.446
5	A:336:LEU:O	A:337:LEU:HB2	0.446
5	A:191:TRP:HZ3	B:22:PHE:CE1	0.446
5	C:51:SER:HB2	C:87:GLU:C	0.446
5	C:106:ILE:HD12	C:154:TRP:HZ3	0.446
5	C:140:PHE:CB	C:302:LEU:HD22	0.446
5	C:142:PHE:CE2	C:146:PHE:CE1	0.446
5	C:246:PHE:O	C:292:ASN:HB2	0.446
5	D:79:LEU:CB	D:93:ILE:CG2	0.446
5	D:281:SER:HA	E:44:HIS:HD2	0.446
5	C:51:SER:N	C:88:LYS:H	0.446
5	C:96:LYS:HZ1	C:287:VAL:CG2	0.446

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:337:LYS:CG	D:338:ILE:N	0.446
5	C:320:THR:O	C:320:THR:HG23	0.446
5	A:13:VAL:CG1	A:191:TRP:HH2	0.445
5	A:328:LYS:CE	A:329:SER:N	0.445
5	A:301:PHE:HD1	A:333:LEU:HD11	0.445
5	C:20:ARG:O	C:23:ASN:HB3	0.445
5	C:84:SER:CA	C:86:GLY:C	0.445
5	C:183:ASP:C	C:185:ILE:H	0.445
5	C:287:VAL:C	C:289:LEU:N	0.445
5	C:305:LYS:HD2	F:105:THR:CA	0.445
5	C:312:PHE:CD2	C:347:ARG:NH2	0.445
5	D:241:PHE:HB3	D:253:PHE:CZ	0.445
5	D:292:PHE:CD1	D:293:ASN:N	0.445
5	D:330:GLY:HA2	D:336:LEU:HD23	0.445
5	F:39:ARG:NH2	F:41:ALA:HB2	0.445
5	A:27:LEU:CG	A:41:ARG:HH21	0.445
5	A:121:LEU:O	A:122:TYR:HB3	0.444
5	A:417:THR:O	A:417:THR:HG22	0.444
5	C:121:ASN:HB3	C:124:ASN:ND2	0.444
5	C:144:PRO:O	C:147:TYR:CD1	0.444
5	C:155:GLU:CA	C:389:ARG:HH21	0.444
5	C:182:ILE:HD12	C:357:HIS:N	0.444
5	C:224:VAL:CG1	C:227:GLN:CB	0.444

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:342:ARG:C	C:345:PHE:HB3	0.444
5	D:82:TRP:HZ3	D:89:LYS:CE	0.444
5	D:270:ILE:HD11	F:103:PRO:CB	0.444
5	E:49:PRO:O	E:50:LEU:HD23	0.444
5	E:54:VAL:HB	E:55:PRO:HD3	0.444
5	F:59:ILE:O	F:60:SER:HB2	0.444
5	C:299:GLU:CG	F:109:PHE:HB2	0.444
5	A:46:TYR:HD2	A:98:ARG:NH2	0.444
5	F:115:THR:O	F:116:TYR:HD1	0.444
5	C:150:ALA:N	C:355:GLY:N	0.444
5	E:65:LYS:HG3	E:66:PHE:N	0.444
5	F:21:LEU:CD1	F:21:LEU:N	0.444
5	B:13:TYR:HD2	B:14:LEU:HD23	0.443
5	C:127:ARG:HG3	C:153:LEU:CD1	0.443
5	C:50:GLU:N	C:284:ASP:CG	0.443
5	C:293:LYS:HD3	C:300:LYS:CD	0.443
5	C:297:LEU:C	C:297:LEU:CD2	0.443
5	D:10:GLU:O	D:14:LEU:HD12	0.443
5	D:58:ILE:HD11	D:72:SER:CB	0.443
5	D:69:LEU:HD21	D:81:ILE:CB	0.443
5	E:3:SER:HB2	F:115:THR:HB	0.443
5	E:54:VAL:CB	E:55:PRO:CD	0.443
5	F:21:LEU:CB	F:37:TRP:CH2	0.443

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	F:87:LEU:HD22	F:88:LYS:O	0.443
5	F:46:LEU:O	F:111:VAL:HG11	0.443
5	C:150:ALA:N	C:354:ASP:CB	0.443
5	A:261:TRP:CE3	A:282:TYR:CE2	0.442
5	A:329:SER:CA	A:332:THR:HG22	0.442
5	C:26:ILE:HG21	D:92:ALA:CB	0.442
5	C:62:ILE:HG22	C:68:PHE:CD2	0.442
5	C:72:GLY:N	C:75:GLU:C	0.442
5	C:206:GLY:CA	D:118:ASP:CB	0.442
5	C:43:LEU:CD1	C:221:MET:HG2	0.442
5	C:57:VAL:O	C:222:PHE:CB	0.442
5	C:267:GLN:HG2	C:268:ALA:N	0.442
5	C:289:LEU:CD2	C:362:HIS:CB	0.442
5	C:315:PHE:C	C:315:PHE:CD1	0.442
5	C:177:TYR:HE1	D:314:ARG:HB2	0.442
5	C:299:GLU:CG	F:109:PHE:CB	0.442
5	C:289:LEU:O	C:290:PHE:HD1	0.442
5	D:71:VAL:HG12	D:72:SER:N	0.442
5	C:233:LYS:NZ	D:101:MET:SD	0.442
5	A:98:ARG:CG	A:100:LEU:CD2	0.441
5	A:142:ILE:HG23	A:143:LEU:N	0.441
5	A:399:LEU:C	A:399:LEU:HD13	0.441
5	C:48:ALA:C	C:280:LYS:O	0.441

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:93:GLN:HB3	C:300:LYS:CB	0.441
5	C:147:TYR:CA	C:357:HIS:C	0.441
5	C:174:CYS:HB3	C:177:TYR:CE1	0.441
5	C:44:LEU:CB	C:244:ILE:CG1	0.441
5	C:246:PHE:O	C:247:VAL:HG13	0.441
5	C:281:TRP:CG	C:282:LEU:N	0.441
5	C:143:PRO:CD	C:349:SER:C	0.441
5	D:150:ARG:CZ	D:192:LEU:CD2	0.441
5	D:166:CYS:SG	D:190:LEU:HD11	0.441
5	C:170:GLN:CB	D:270:ILE:HG23	0.441
5	C:234:TRP:HH2	D:101:MET:SD	0.441
5	A:334:ILE:N	A:335:PRO:CD	0.441
5	C:233:LYS:H	C:235:ILE:CG2	0.441
5	A:38:PHE:CD2	A:40:ASN:N	0.440
5	A:43:PHE:CD2	A:45:GLU:N	0.440
5	A:66:LEU:HD23	B:23:ILE:HD12	0.440
5	A:174:LYS:CE	A:178:LEU:HD21	0.440
5	C:58:LYS:HG2	D:75:GLN:NE2	0.440
5	C:119:LEU:HD21	C:159:VAL:CG2	0.440
5	C:251:SER:HB2	C:254:ASN:C	0.440
5	C:257:ILE:HD13	C:258:ARG:O	0.440
5	C:298:ALA:CA	C:301:VAL:CG2	0.440
5	D:40:VAL:HG11	E:67:PHE:CG	0.440

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:111:TYR:CE1	D:113:ALA:HB2	0.440
5	D:200:VAL:HG22	D:210:LEU:HG	0.440
5	E:21:MET:HB2	E:21:MET:HE3	0.440
5	F:33:TYR:C	F:33:TYR:CD1	0.440
5	C:305:LYS:O	F:108:CYS:HB3	0.440
5	C:214:VAL:CG2	C:219:PHE:HE2	0.440
5	D:119:ASN:HD22	D:146:LEU:N	0.440
5	E:30:VAL:CG2	E:31:SER:N	0.440
5	A:417:THR:HG22	A:420:LEU:HB3	0.439
5	C:50:GLU:CD	C:88:LYS:HE3	0.439
5	C:56:ILE:C	C:58:LYS:H	0.439
5	C:60:MET:HG2	C:61:ARG:O	0.439
5	C:83:ASN:CA	C:225:GLY:CA	0.439
5	C:146:PHE:CD2	C:352:SER:O	0.439
5	C:191:VAL:CG2	C:192:PRO:CD	0.439
5	C:209:GLU:HG3	C:222:PHE:HE2	0.439
5	C:308:ILE:CG1	C:310:ASP:CB	0.439
5	C:345:PHE:N	C:348:ILE:CD1	0.439
5	D:198:LEU:HD23	D:211:TRP:O	0.439
5	D:221:THR:HG21	E:1:MET:HE3	0.439
5	F:102:ALA:CB	F:103:PRO:HD3	0.439
5	C:61:ARG:CG	C:62:ILE:N	0.439
5	D:276:VAL:CG1	D:277:SER:N	0.439

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:279:ASN:O	C:280:LYS:CB	0.439
5	A:41:ARG:CZ	A:41:ARG:HB3	0.438
5	A:49:TRP:CH2	A:79:ARG:HB2	0.438
5	A:404:ILE:CD1	A:412:PRO:CG	0.438
5	C:46:LEU:CA	C:89:ALA:CA	0.438
5	C:55:THR:HG21	C:234:TRP:HA	0.438
5	C:127:ARG:HD2	C:128:VAL:CG2	0.438
5	C:190:TYR:C	C:190:TYR:CD2	0.438
5	C:203:LEU:HB3	D:96:ARG:HH21	0.438
5	C:55:THR:OG1	C:237:CYS:HB2	0.438
5	C:92:VAL:CB	C:244:ILE:CG1	0.438
5	D:40:VAL:CG1	D:41:GLY:H	0.438
5	D:102:THR:HG21	D:148:CYS:C	0.438
5	C:139:ASP:N	C:302:LEU:CD2	0.438
5	C:263:THR:O	C:263:THR:HG23	0.438
5	A:155:TYR:C	A:155:TYR:CD1	0.437
5	A:154:ASN:OD1	A:158:LEU:HD23	0.437
5	A:334:ILE:HG12	A:340:HIS:HE1	0.437
5	A:336:LEU:C	A:336:LEU:HD22	0.437
5	C:58:LYS:HG2	D:75:GLN:HE22	0.437
5	C:60:MET:HG2	C:61:ARG:N	0.437
5	C:87:GLU:CA	C:227:GLN:HE21	0.437
5	C:146:PHE:HE1	C:356:ARG:C	0.437

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:232:ILE:HG22	D:243:THR:HB	0.437
5	F:16:GLY:HA2	F:86:SER:HA	0.437
5	F:41:ALA:HA	F:93:ALA:CB	0.437
5	C:342:ARG:O	C:345:PHE:HD1	0.437
5	C:54:ASN:ND2	C:89:ALA:N	0.437
5	C:144:PRO:N	C:359:CYS:H	0.437
5	A:16:TRP:CH2	A:45:GLU:C	0.436
5	A:37:LEU:CD1	A:54:PRO:CG	0.436
5	A:155:TYR:CD1	A:243:PHE:CE1	0.436
5	C:70:GLY:C	C:201:ARG:CB	0.436
5	C:97:ASN:CG	F:107:ASP:HB2	0.436
5	C:141:ASP:HB3	C:348:ILE:HG13	0.436
5	C:234:TRP:HB3	D:99:TRP:CH2	0.436
5	C:310:ASP:CG	C:311:TYR:H	0.436
5	C:151:LYS:CD	C:386:MET:CE	0.436
5	D:111:TYR:C	D:111:TYR:CD1	0.436
5	D:124:TYR:CZ	D:133:VAL:CA	0.436
5	D:139:LEU:HD22	D:169:TRP:CB	0.436
5	D:229:ILE:HG13	D:243:THR:OG1	0.436
5	D:286:LEU:CD1	D:318:LEU:CD2	0.436
5	A:205:LEU:HA	A:205:LEU:HD22	0.435
5	C:49:GLY:O	C:50:GLU:CG	0.435
5	C:59:GLN:HG3	C:220:HIS:HD1	0.435

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:69:ASN:HB3	C:211:LYS:HB2	0.435
5	C:142:PHE:CE2	C:146:PHE:CE2	0.435
5	C:289:LEU:CD2	C:290:PHE:N	0.435
5	C:300:LYS:C	C:300:LYS:CD	0.435
5	C:304:GLY:C	F:107:ASP:CA	0.435
5	C:308:ILE:C	C:310:ASP:N	0.435
5	D:21:ALA:C	D:23:LYS:N	0.435
5	D:106:ALA:HB1	D:151:PHE:CE2	0.435
5	D:234:PHE:CZ	D:238:GLY:HA2	0.435
5	D:196:THR:CG2	D:197:ARG:N	0.435
5	A:13:VAL:HG21	A:191:TRP:CH2	0.434
5	A:59:ASN:O	A:60:VAL:HG22	0.434
5	A:340:HIS:CE1	A:367:PHE:CE1	0.434
5	C:43:LEU:HD13	C:221:MET:CG	0.434
5	C:55:THR:C	C:238:PHE:HD1	0.434
5	C:56:ILE:HA	D:99:TRP:CE3	0.434
5	C:60:MET:CB	D:98:SER:N	0.434
5	C:134:VAL:CG2	C:351:ALA:CA	0.434
5	C:144:PRO:CA	C:359:CYS:H	0.434
5	C:148:GLU:CB	C:385:ARG:HE	0.434
5	C:195:GLN:C	C:197:LEU:N	0.434
5	C:217:VAL:HB	C:376:PHE:HE1	0.434
5	C:286:SER:C	C:293:LYS:CG	0.434

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:95:LEU:CD2	D:96:ARG:N	0.434
5	D:184:THR:CB	E:2:ALA:HB3	0.434
5	D:311:HIS:CE1	D:329:THR:HG22	0.434
5	A:351:HIS:ND1	A:352:ALA:N	0.434
5	C:76:ASP:CB	C:77:PRO:CD	0.433
5	C:103:ILE:CD1	C:127:ARG:NH2	0.433
5	C:156:ASP:O	C:159:VAL:HG23	0.433
5	C:185:ILE:HG13	C:244:ILE:HD13	0.433
5	C:189:ASP:CB	C:211:LYS:HB2	0.433
5	C:213:GLN:CG	C:214:VAL:N	0.433
5	F:49:VAL:HG12	F:62:THR:HG21	0.433
5	F:87:LEU:HD13	F:127:VAL:HG13	0.433
5	A:37:LEU:O	A:38:PHE:HB2	0.432
5	A:107:LYS:CG	A:108:ARG:N	0.432
5	A:191:TRP:CG	A:192:ASP:N	0.432
5	A:205:LEU:N	A:205:LEU:HD23	0.432
5	A:328:LYS:HD3	A:329:SER:N	0.432
5	C:41:HIS:CG	C:187:GLN:C	0.432
5	C:41:HIS:CD2	C:219:PHE:CD1	0.432
5	C:88:LYS:CE	C:223:ASP:HB3	0.432
5	C:114:VAL:HB	C:115:PRO:HD2	0.432
5	C:160:ARG:O	C:161:ALA:HB2	0.432
5	C:202:VAL:CG2	C:209:GLU:CD	0.432

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:211:LYS:HE2	C:220:HIS:CD2	0.432
5	C:91:LYS:HD3	C:235:ILE:HA	0.432
5	C:55:THR:O	C:238:PHE:CD1	0.432
5	C:253:TYR:HB3	C:281:TRP:HH2	0.432
5	C:345:PHE:CZ	C:361:PRO:CA	0.432
5	D:261:LEU:HD11	E:30:VAL:HB	0.432
5	D:286:LEU:HD11	D:294:CYS:HB3	0.432
5	D:40:VAL:CG1	E:67:PHE:CB	0.432
5	A:353:ARG:CG	A:354:GLY:N	0.432
5	C:49:GLY:N	C:248:VAL:CA	0.432
5	C:69:ASN:ND2	C:191:VAL:CG1	0.432
5	C:285:THR:N	C:293:LYS:O	0.432
5	C:304:GLY:N	F:107:ASP:CB	0.432
5	D:35:ASN:HA	D:35:ASN:HD22	0.432
5	F:33:TYR:CB	F:99:ARG:HH21	0.432
5	D:240:ALA:O	D:241:PHE:HB2	0.432
5	A:169:LEU:N	A:169:LEU:HD12	0.431
5	A:174:LYS:HG3	A:206:VAL:HG12	0.431
5	C:50:GLU:CD	C:88:LYS:CE	0.431
5	C:88:LYS:CB	C:88:LYS:HZ2	0.431
5	C:95:ILE:HG12	C:239:ASN:HA	0.431
5	C:154:TRP:HB3	C:356:ARG:CZ	0.431
5	C:227:GLN:HG2	C:228:ARG:O	0.431

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:185:ILE:CG1	C:244:ILE:CD1	0.431
5	C:147:TYR:H	C:355:GLY:C	0.431
5	C:356:ARG:CZ	C:389:ARG:HH12	0.431
5	D:249:THR:HG21	D:251:ARG:HH21	0.431
5	A:305:ILE:CD1	A:330:THR:CG2	0.430
5	A:414:LYS:CB	F:57:ALA:N	0.430
5	B:14:LEU:HA	B:14:LEU:HD22	0.430
5	B:15:GLU:O	B:19:ALA:HB2	0.430
5	C:44:LEU:CG	C:238:PHE:CE1	0.430
5	C:119:LEU:CD2	C:159:VAL:CG2	0.430
5	C:147:TYR:C	C:147:TYR:CD1	0.430
5	C:231:ARG:HG2	C:235:ILE:CG2	0.430
5	C:185:ILE:CG1	C:244:ILE:HD13	0.430
5	C:271:LYS:HA	C:280:LYS:HB3	0.430
5	C:289:LEU:CD1	C:289:LEU:H	0.430
5	C:290:PHE:CE2	C:371:ASN:HB2	0.430
5	C:308:ILE:HG13	C:310:ASP:HB2	0.430
5	C:142:PHE:O	C:359:CYS:HA	0.430
5	D:69:LEU:HD21	D:81:ILE:C	0.430
5	D:78:LYS:HB2	D:80:ILE:HD11	0.430
5	D:82:TRP:HZ3	D:89:LYS:HE3	0.430
5	D:95:LEU:C	D:95:LEU:HD22	0.430
5	D:167:ALA:HB2	D:179:THR:HA	0.430

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:292:PHE:CE1	D:311:HIS:HB2	0.430
5	F:38:VAL:HB	F:48:TRP:HA	0.430
5	A:432:THR:HG22	A:433:ALA:N	0.430
5	A:43:PHE:CE2	A:45:GLU:CA	0.429
5	A:129:TYR:O	A:130:ALA:HB2	0.429
5	A:182:TYR:CB	B:18:ALA:CB	0.429
5	A:288:LEU:N	A:289:PRO:HD2	0.429
5	A:414:LYS:HD2	A:417:THR:OG1	0.429
5	C:46:LEU:HD21	C:293:LYS:HA	0.429
5	C:51:SER:CB	C:224:VAL:CG1	0.429
5	C:57:VAL:HG12	C:238:PHE:CE1	0.429
5	C:89:ALA:HA	C:91:LYS:HB3	0.429
5	C:119:LEU:HD13	C:120:ALA:C	0.429
5	C:126:PHE:CZ	C:130:TYR:CZ	0.429
5	C:178:PHE:CA	C:181:LYS:HD2	0.429
5	C:88:LYS:HZ2	C:223:ASP:CA	0.429
5	C:224:VAL:HG12	C:225:GLY:H	0.429
5	C:231:ARG:CD	C:299:GLU:CG	0.429
5	C:243:ALA:O	C:244:ILE:HG13	0.429
5	C:246:PHE:HB2	C:287:VAL:H	0.429
5	C:289:LEU:CD2	C:290:PHE:CG	0.429
5	C:294:GLN:C	C:296:LEU:N	0.429
5	C:293:LYS:CB	C:300:LYS:CD	0.429

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:308:ILE:HD12	C:310:ASP:HB2	0.429
5	C:143:PRO:CG	C:349:SER:C	0.429
5	C:155:GLU:CB	C:389:ARG:HE	0.429
5	C:45:LEU:O	C:46:LEU:CB	0.429
5	C:88:LYS:CG	C:224:VAL:O	0.429
5	D:159:THR:O	D:159:THR:HG23	0.429
5	A:356:LEU:C	A:356:LEU:HD22	0.428
5	A:9:LEU:CB	B:15:GLU:CG	0.428
5	C:59:GLN:C	D:98:SER:HB3	0.428
5	C:95:ILE:HA	C:95:ILE:HD12	0.428
5	C:231:ARG:CD	C:299:GLU:HG2	0.428
5	C:245:ILE:CD1	C:375:VAL:CG2	0.428
5	C:259:GLU:CA	C:282:LEU:HD22	0.428
5	C:285:THR:C	C:293:LYS:N	0.428
5	C:321:PRO:HD3	C:339:TYR:CE2	0.428
5	C:389:ARG:HD3	C:391:TYR:H	0.428
5	D:12:GLU:HA	D:15:LYS:CE	0.428
5	D:211:TRP:NE1	D:213:VAL:HG22	0.428
5	D:261:LEU:HD21	E:30:VAL:HB	0.428
5	F:28:PHE:CE2	F:99:ARG:HD2	0.428
5	F:52:ILE:HG21	F:71:ILE:HG23	0.428
5	D:232:ILE:CB	D:241:PHE:HE1	0.428
5	A:118:LEU:HA	A:118:LEU:HD22	0.427

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:305:ILE:HG13	A:308:VAL:HG21	0.427
5	C:89:ALA:C	C:91:LYS:N	0.427
5	C:154:TRP:CB	C:356:ARG:NH1	0.427
5	C:149:HIS:HB3	C:354:ASP:HA	0.427
5	D:290:ASP:CG	D:291:ASP:N	0.427
5	F:40:GLN:CG	F:46:LEU:HD22	0.427
5	C:244:ILE:O	C:246:PHE:HD1	0.427
5	C:271:LYS:NZ	C:294:GLN:NE2	0.427
5	C:295:ASP:O	C:300:LYS:N	0.427
5	C:383:ILE:HG23	C:384:GLN:N	0.427
5	A:207:PHE:CZ	B:1:HIS:HE1	0.426
5	A:224:GLU:CD	A:225:GLY:N	0.426
5	A:237:LEU:HD13	C:36:VAL:HG22	0.426
5	A:275:THR:HB	B:8:SER:HA	0.426
5	C:40:THR:CA	C:188:ALA:O	0.426
5	C:40:THR:HG23	C:42:ARG:HD3	0.426
5	C:195:GLN:CD	C:196:ASP:N	0.426
5	C:196:ASP:C	C:198:LEU:H	0.426
5	C:260:ASP:O	C:272:LEU:HD11	0.426
5	C:272:LEU:HD12	C:282:LEU:O	0.426
5	C:308:ILE:CD1	C:310:ASP:CB	0.426
5	C:358:TYR:HE1	C:360:TYR:CB	0.426
5	C:384:GLN:O	C:388:LEU:HB2	0.426

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:124:TYR:HE2	D:126:LEU:HA	0.426
5	D:184:THR:HB	E:2:ALA:HB3	0.426
5	D:211:TRP:CD1	D:212:ASP:C	0.426
5	D:222:PHE:CZ	D:224:GLY:HA3	0.426
5	F:5:LEU:HB3	F:97:CYS:SG	0.426
5	F:14:GLN:HB3	F:15:PRO:C	0.426
5	D:7:LEU:CD2	D:7:LEU:N	0.426
5	A:18:GLU:HA	A:21:ARG:NH1	0.425
5	A:156:ILE:O	A:156:ILE:HD13	0.425
5	A:229:TYR:HB2	A:300:ILE:CG2	0.425
5	A:261:TRP:CZ3	A:282:TYR:CE2	0.425
5	A:265:LYS:HD2	A:274:TRP:CB	0.425
5	A:356:LEU:O	A:359:ILE:HG22	0.425
5	A:373:LEU:C	A:373:LEU:CD2	0.425
5	C:61:ARG:HG2	C:62:ILE:H	0.425
5	C:71:GLU:N	C:201:ARG:HG3	0.425
5	C:229:ASP:OD2	C:265:ARG:HB3	0.425
5	D:111:TYR:CD2	D:123:ILE:CG1	0.425
5	D:202:GLY:CA	D:229:ILE:HD13	0.425
5	D:231:ALA:HB2	D:274:THR:O	0.425
5	D:291:ASP:OD1	D:293:ASN:HB3	0.425
5	C:46:LEU:CD2	C:294:GLN:N	0.425
5	C:294:GLN:O	C:300:LYS:CB	0.425

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:9:LEU:C	A:12:THR:HG22	0.424
5	A:16:TRP:CZ2	A:45:GLU:HG2	0.424
5	A:231:LEU:HB3	C:387:HIS:NE2	0.424
5	A:307:ILE:CG1	C:384:GLN:NE2	0.424
5	C:47:GLY:HA3	C:284:ASP:CA	0.424
5	C:87:GLU:CD	C:265:ARG:HE	0.424
5	C:87:GLU:HG3	C:294:GLN:HE22	0.424
5	C:51:SER:CB	C:88:LYS:CA	0.424
5	C:100:LYS:CD	C:140:PHE:CE1	0.424
5	C:146:PHE:CD1	C:357:HIS:O	0.424
5	C:151:LYS:CD	C:386:MET:HE2	0.424
5	C:189:ASP:CG	C:190:TYR:N	0.424
5	C:68:PHE:HD2	C:202:VAL:HG11	0.424
5	C:235:ILE:C	C:235:ILE:CD1	0.424
5	D:70:LEU:C	D:70:LEU:HD22	0.424
5	D:124:TYR:CZ	D:133:VAL:CG1	0.424
5	D:176:GLN:OE1	D:179:THR:HG21	0.424
5	D:198:LEU:C	D:198:LEU:HD22	0.424
5	A:100:LEU:CD2	A:100:LEU:N	0.424
5	C:69:ASN:ND2	C:191:VAL:CG2	0.424
5	C:285:THR:CB	C:285:THR:N	0.424
5	C:357:HIS:CG	C:358:TYR:N	0.424
5	D:307:VAL:CG1	D:308:LEU:N	0.424

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:229:TYR:CD1	A:303:ARG:HD3	0.423
5	A:401:HIS:CE1	C:347:ARG:HG3	0.423
5	B:16:GLY:O	B:19:ALA:HB3	0.423
5	C:24:LYS:HA	C:27:GLU:OE1	0.423
5	C:120:ALA:O	C:156:ASP:HB2	0.423
5	C:174:CYS:O	C:175:ALA:HB3	0.423
5	C:36:VAL:CG1	C:190:TYR:HB2	0.423
5	C:271:LYS:HE3	C:297:LEU:H	0.423
5	C:339:TYR:C	C:339:TYR:CD2	0.423
5	C:96:LYS:HZ3	C:357:HIS:CD2	0.423
5	D:61:MET:HE3	D:61:MET:O	0.423
5	D:151:PHE:CE2	D:153:ASP:O	0.423
5	D:241:PHE:CB	D:253:PHE:CZ	0.423
5	E:38:MET:HE2	E:42:GLU:OE1	0.423
5	C:271:LYS:HZ3	C:294:GLN:NE2	0.423
5	A:300:ILE:O	A:300:ILE:HG22	0.423
5	A:181:MET:SD	A:194:LEU:HD11	0.422
5	A:221:LEU:C	A:221:LEU:HD22	0.422
5	A:236:VAL:C	A:237:LEU:HD23	0.422
5	A:244:ARG:O	A:248:SER:HB3	0.422
5	A:253:VAL:CB	A:254:PRO:CD	0.422
5	A:353:ARG:C	A:357:ARG:HH21	0.422
5	C:42:ARG:HB2	C:241:VAL:CG1	0.422

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:81:ARG:CA	C:208:PHE:HD2	0.422
5	C:143:PRO:C	C:359:CYS:H	0.422
5	C:186:LYS:HG2	C:288:ILE:CG2	0.422
5	C:80:ALA:O	C:208:PHE:CD2	0.422
5	C:202:VAL:CG2	C:209:GLU:HG2	0.422
5	C:51:SER:CB	C:224:VAL:CB	0.422
5	C:238:PHE:CD2	C:238:PHE:O	0.422
5	D:269:ILE:HD12	D:289:TYR:CE1	0.422
5	D:292:PHE:CD2	D:311:HIS:O	0.422
5	D:235:PHE:HE2	E:40:TYR:CE2	0.422
5	A:353:ARG:CA	A:357:ARG:NH2	0.422
5	B:2:ALA:O	B:3:GLU:CB	0.422
5	A:76:HIS:CE1	A:77:VAL:O	0.421
5	A:265:LYS:CD	A:274:TRP:CE3	0.421
5	A:261:TRP:NE1	A:265:LYS:HD3	0.421
5	A:370:PHE:CE2	A:374:MET:CG	0.421
5	A:406:ARG:HB3	A:412:PRO:HB3	0.421
5	C:46:LEU:HB3	C:246:PHE:CA	0.421
5	C:103:ILE:HB	C:179:LEU:HD21	0.421
5	C:150:ALA:HA	C:354:ASP:OD2	0.421
5	D:17:GLN:HG3	D:18:ILE:H	0.421
5	D:57:LYS:CD	D:332:TRP:CH2	0.421
5	D:253:PHE:C	D:253:PHE:CD1	0.421

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	F:112:THR:HG23	F:116:TYR:HB3	0.421
5	C:107:VAL:HG12	C:108:ALA:H	0.421
5	D:262:MET:HG3	D:262:MET:O	0.421
5	A:232:LEU:HD21	C:387:HIS:ND1	0.420
5	A:256:LEU:O	A:260:PRO:HD2	0.420
5	A:301:PHE:CD1	A:333:LEU:CD1	0.420
5	A:357:ARG:HG3	A:361:LEU:HD11	0.420
5	A:395:GLU:HA	A:395:GLU:OE1	0.420
5	C:44:LEU:CB	C:244:ILE:CB	0.420
5	C:53:LYS:C	C:224:VAL:CG2	0.420
5	C:93:GLN:CD	C:293:LYS:NZ	0.420
5	C:99:LEU:O	C:103:ILE:HG22	0.420
5	C:107:VAL:HG12	C:108:ALA:N	0.420
5	C:140:PHE:CD2	C:348:ILE:O	0.420
5	C:283:ARG:HD2	C:283:ARG:N	0.420
5	C:310:ASP:CG	C:311:TYR:N	0.420
5	C:358:TYR:CD1	C:359:CYS:C	0.420
5	C:386:MET:SD	C:391:TYR:C	0.420
5	D:96:ARG:O	D:97:SER:HB2	0.420
5	D:280:LYS:O	D:281:SER:HB3	0.420
5	F:13:VAL:CG2	F:127:VAL:HG12	0.420
5	A:229:TYR:HE1	A:303:ARG:NE	0.420
5	C:46:LEU:CA	C:89:ALA:N	0.420

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:179:LEU:CB	C:356:ARG:NH1	0.420
5	C:356:ARG:HE	C:389:ARG:HH12	0.420
5	D:293:ASN:ND2	D:307:VAL:CG1	0.420
5	C:176:GLN:HA	C:176:GLN:OE1	0.420
5	A:337:LEU:HD22	A:338:GLY:N	0.419
5	C:54:ASN:CB	C:91:LYS:CG	0.419
5	C:94:ASP:CG	C:231:ARG:CZ	0.419
5	C:127:ARG:CZ	C:153:LEU:HB3	0.419
5	C:127:ARG:NE	C:153:LEU:HB3	0.419
5	C:161:ALA:HA	C:164:GLU:OE2	0.419
5	C:59:GLN:CA	C:220:HIS:CE1	0.419
5	C:92:VAL:HG23	C:238:PHE:CD2	0.419
5	C:267:GLN:HB2	C:297:LEU:CA	0.419
5	C:286:SER:HB2	C:293:LYS:HD2	0.419
5	C:332:PRO:HA	C:335:THR:CG2	0.419
5	D:23:LYS:C	D:25:CYS:N	0.419
5	C:34:LYS:CA	D:55:LEU:HD11	0.419
5	D:69:LEU:HD21	D:81:ILE:CA	0.419
5	D:124:TYR:CZ	D:133:VAL:CG2	0.419
5	D:102:THR:CG2	D:148:CYS:HA	0.419
5	D:237:ASN:CB	E:40:TYR:CZ	0.419
5	A:222:LEU:HD11	A:226:VAL:CG2	0.418
5	A:378:LEU:O	A:379:TYR:HB3	0.418

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:68:PHE:CD1	C:68:PHE:N	0.418
5	C:84:SER:CB	C:88:LYS:N	0.418
5	C:96:LYS:HD3	C:246:PHE:CZ	0.418
5	C:95:ILE:O	C:178:PHE:CE2	0.418
5	C:208:PHE:CE1	C:223:ASP:OD1	0.418
5	C:87:GLU:O	C:224:VAL:C	0.418
5	C:187:GLN:CB	C:242:THR:HG21	0.418
5	C:267:GLN:C	C:297:LEU:CB	0.418
5	C:283:ARG:C	C:284:ASP:CG	0.418
5	C:298:ALA:HA	C:301:VAL:CG2	0.418
5	C:305:LYS:HA	F:108:CYS:N	0.418
5	C:139:ASP:N	C:307:LYS:C	0.418
5	C:185:ILE:O	C:357:HIS:CE1	0.418
5	C:290:PHE:O	C:364:THR:HG22	0.418
5	C:253:TYR:HD1	C:254:ASN:O	0.418
5	D:169:TRP:HD1	D:175:GLN:O	0.418
5	D:264:TYR:HD1	D:264:TYR:O	0.418
5	C:141:ASP:O	C:349:SER:N	0.418
5	C:285:THR:O	C:292:ASN:CA	0.418
5	A:9:LEU:HB2	B:15:GLU:HG2	0.417
5	A:160:LEU:C	A:160:LEU:HD22	0.417
5	C:37:TYR:HB3	D:55:LEU:HD13	0.417
5	C:50:GLU:OE2	C:88:LYS:HD3	0.417

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:143:PRO:HG2	C:146:PHE:N	0.417
5	C:177:TYR:CD2	C:177:TYR:O	0.417
5	C:177:TYR:CE2	D:332:TRP:CE2	0.417
5	C:183:ASP:CG	C:386:MET:HB2	0.417
5	C:88:LYS:HZ3	C:223:ASP:HA	0.417
5	C:245:ILE:HB	C:288:ILE:CD1	0.417
5	C:347:ARG:CA	C:350:THR:HG22	0.417
5	C:182:ILE:CD1	C:356:ARG:C	0.417
5	C:245:ILE:HD12	C:375:VAL:HG21	0.417
5	C:186:LYS:O	C:382:ILE:CG2	0.417
5	D:54:HIS:HB2	D:334:SER:HB2	0.417
5	D:93:ILE:CD1	D:133:VAL:HG11	0.417
5	D:266:HIS:CE1	D:268:ASN:ND2	0.417
5	D:308:LEU:HA	D:308:LEU:HD13	0.417
5	F:12:LEU:HD12	F:126:THR:O	0.417
5	C:46:LEU:O	C:247:VAL:N	0.417
5	C:287:VAL:O	C:289:LEU:N	0.417
5	C:177:TYR:CG	C:177:TYR:O	0.417
5	D:82:TRP:CD2	D:88:ASN:O	0.417
5	A:125:TYR:CZ	A:171:VAL:HG11	0.416
5	A:205:LEU:H	A:205:LEU:HD23	0.416
5	A:288:LEU:HB3	A:289:PRO:HD3	0.416
5	A:385:GLU:HA	A:388:LEU:HD11	0.416

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:41:HIS:C	C:42:ARG:HD3	0.416
5	C:41:HIS:CG	C:187:GLN:O	0.416
5	C:44:LEU:CD1	C:244:ILE:CG2	0.416
5	C:51:SER:CB	C:87:GLU:C	0.416
5	C:44:LEU:CD1	C:89:ALA:CB	0.416
5	C:101:GLU:HA	F:106:ARG:NH2	0.416
5	C:253:TYR:CZ	C:257:ILE:HG13	0.416
5	C:358:TYR:HE1	C:360:TYR:HB2	0.416
5	C:386:MET:O	C:387:HIS:HB3	0.416
5	D:36:ASN:CG	D:37:ILE:N	0.416
5	D:45:MET:HG3	E:60:PRO:CG	0.416
5	D:82:TRP:HE1	D:87:THR:CA	0.416
5	D:161:SER:HB2	D:165:THR:O	0.416
5	D:164:THR:HG21	D:183:HIS:O	0.416
5	D:244:GLY:O	D:245:SER:HB3	0.416
5	D:252:LEU:C	D:252:LEU:HD13	0.416
5	D:297:TRP:CD2	D:302:ALA:O	0.416
5	E:15:LEU:C	E:15:LEU:CD2	0.416
5	F:21:LEU:CB	F:37:TRP:HH2	0.416
5	D:234:PHE:HE2	D:238:GLY:CA	0.416
5	D:281:SER:O	E:44:HIS:HD2	0.416
5	C:314:GLU:CG	C:315:PHE:N	0.416
5	F:70:THR:O	F:70:THR:HG23	0.416

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:13:VAL:CG2	A:191:TRP:CH2	0.415
5	A:381:PHE:CD2	A:382:VAL:N	0.415
5	C:55:THR:HA	C:238:PHE:CB	0.415
5	C:70:GLY:C	C:201:ARG:CG	0.415
5	C:106:ILE:HD13	C:159:VAL:CG1	0.415
5	C:178:PHE:CE2	C:181:LYS:CE	0.415
5	C:88:LYS:HZ3	C:223:ASP:CA	0.415
5	C:231:ARG:HG2	C:235:ILE:HG21	0.415
5	C:90:THR:OG1	C:294:GLN:HB3	0.415
5	D:172:GLU:O	D:173:THR:HG22	0.415
5	F:84:MET:C	F:84:MET:SD	0.415
5	C:315:PHE:HZ	C:336:ARG:NE	0.415
5	A:74:GLN:HB2	A:74:GLN:HE21	0.415
5	A:106:SER:H	A:108:ARG:HH12	0.415
5	C:225:GLY:O	C:227:GLN:NE2	0.415
5	D:124:TYR:HD1	D:134:ARG:O	0.415
5	A:136:LEU:HD11	A:161:PHE:CD1	0.414
5	A:158:LEU:O	A:161:PHE:CD2	0.414
5	A:9:LEU:CB	B:15:GLU:HG3	0.414
5	C:42:ARG:CB	C:241:VAL:CG1	0.414
5	C:96:LYS:HE2	C:246:PHE:CE2	0.414
5	C:95:ILE:O	C:98:ASN:HB2	0.414
5	C:127:ARG:HD2	C:153:LEU:CD2	0.414

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:66:ASN:ND2	C:199:ARG:CB	0.414
5	C:223:ASP:OD2	C:252:SER:HB3	0.414
5	C:243:ALA:CB	C:288:ILE:HD13	0.414
5	C:307:LYS:CD	C:308:ILE:HG22	0.414
5	D:141:GLY:O	D:142:HIS:HB2	0.414
5	D:240:ALA:HB1	D:252:LEU:HD21	0.414
5	D:285:LEU:C	D:285:LEU:CD2	0.414
5	E:54:VAL:CG2	E:55:PRO:CD	0.414
5	C:55:THR:O	C:238:PHE:HD1	0.414
5	D:79:LEU:H	D:93:ILE:CG2	0.414
5	A:41:ARG:CB	A:41:ARG:NH1	0.413
5	A:252:GLY:O	A:253:VAL:HG22	0.413
5	B:14:LEU:N	B:14:LEU:HD23	0.413
5	C:37:TYR:C	C:40:THR:HB	0.413
5	C:41:HIS:CE1	C:242:THR:O	0.413
5	C:143:PRO:C	C:359:CYS:N	0.413
5	C:267:GLN:HB3	F:111:VAL:O	0.413
5	C:294:GLN:O	C:300:LYS:CE	0.413
5	C:326:PRO:HB2	C:330:GLU:OE1	0.413
5	D:99:TRP:HD1	D:116:GLY:HA2	0.413
5	D:99:TRP:CE3	D:117:LEU:HD12	0.413
5	D:167:ALA:CB	D:176:GLN:CG	0.413
5	D:193:ALA:HB2	D:234:PHE:CE1	0.413

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	D:250:CYS:SG	D:273:ILE:CD1	0.413
5	A:139:ALA:C	A:141:ALA:H	0.413
5	A:321:ASP:H	A:325:ARG:HG2	0.413
5	C:88:LYS:HZ3	C:223:ASP:CB	0.413
5	C:80:ALA:CB	C:201:ARG:HH11	0.413
5	C:232:ARG:NH1	C:236:GLN:HE21	0.413
5	C:272:LEU:O	C:276:ILE:N	0.413
5	A:175:ASP:O	A:179:LYS:HG2	0.412
5	A:222:LEU:HD12	A:226:VAL:HG23	0.412
5	A:316:LEU:C	A:316:LEU:CD1	0.412
5	C:49:GLY:O	C:50:GLU:HG3	0.412
5	C:48:ALA:CB	C:279:ASN:CB	0.412
5	C:259:GLU:OE2	C:281:TRP:CD1	0.412
5	C:289:LEU:HG	C:362:HIS:H	0.412
5	C:315:PHE:HE2	C:336:ARG:HG3	0.412
5	D:51:LEU:HD22	D:87:THR:OG1	0.412
5	D:139:LEU:HB2	D:169:TRP:CZ2	0.412
5	D:234:PHE:CZ	D:238:GLY:O	0.412
5	D:281:SER:HA	E:44:HIS:CD2	0.412
5	D:292:PHE:CD2	D:311:HIS:N	0.412
5	F:28:PHE:CZ	F:99:ARG:NE	0.412
5	F:96:TYR:CD2	F:120:GLY:O	0.412
5	C:307:LYS:O	C:309:GLU:N	0.412

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	F:107:ASP:OD1	F:108:CYS:N	0.412
5	C:109:ALA:O	C:112:ASN:HB3	0.412
5	F:33:TYR:CD1	F:33:TYR:O	0.412
5	F:23:CYS:SG	F:97:CYS:CB	0.412
5	A:382:VAL:HG23	C:120:ALA:CA	0.411
5	A:404:ILE:C	A:404:ILE:CD1	0.411
5	C:41:HIS:CD2	C:187:GLN:O	0.411
5	C:41:HIS:HA	C:188:ALA:H	0.411
5	C:187:GLN:CD	C:383:ILE:HD12	0.411
5	C:82:SER:OG	C:222:PHE:CE1	0.411
5	C:227:GLN:OE1	C:228:ARG:HA	0.411
5	C:307:LYS:HB3	C:309:GLU:CG	0.411
5	D:12:GLU:CA	D:15:LYS:HG2	0.411
5	D:151:PHE:CE2	D:154:ASP:CA	0.411
5	D:254:ASP:O	D:258:ASP:HA	0.411
5	D:269:ILE:HD11	D:271:CYS:HG	0.411
5	F:83:GLN:HA	F:83:GLN:NE2	0.411
5	C:304:GLY:N	F:107:ASP:CA	0.411
5	A:353:ARG:CG	A:354:GLY:H	0.411
5	C:139:ASP:H	C:302:LEU:CB	0.411
5	C:247:VAL:CG1	C:292:ASN:ND2	0.411
5	C:390:GLN:O	C:391:TYR:CG	0.411
5	A:131:LEU:HA	A:131:LEU:HD23	0.410

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:322:ILE:HA	A:322:ILE:HD12	0.410
5	A:340:HIS:ND1	A:367:PHE:CE1	0.410
5	A:374:MET:C	A:374:MET:SD	0.410
5	A:45:GLU:OE1	B:26:LEU:HB3	0.410
5	C:36:VAL:HG21	C:190:TYR:CD1	0.410
5	C:60:MET:CE	C:205:SER:CB	0.410
5	C:147:TYR:HB2	C:357:HIS:C	0.410
5	C:189:ASP:CG	C:211:LYS:CB	0.410
5	C:285:THR:HG21	C:295:ASP:CA	0.410
5	C:296:LEU:HD13	C:299:GLU:CG	0.410
5	C:141:ASP:H	C:348:ILE:CA	0.410
5	C:183:ASP:CG	C:386:MET:CB	0.410
5	C:385:ARG:HH11	C:388:LEU:HD13	0.410
5	D:59:TYR:CD2	D:101:MET:HG3	0.410
5	D:189:SER:O	D:190:LEU:HD23	0.410
5	D:180:PHE:HD1	D:211:TRP:CE3	0.410
5	D:286:LEU:HD21	D:294:CYS:HB2	0.410
5	D:328:ALA:HB2	D:338:ILE:CD1	0.410
5	C:234:TRP:HD1	D:145:TYR:CZ	0.410
5	C:265:ARG:HH21	C:294:GLN:NE2	0.410
5	D:43:ILE:CG2	D:44:GLN:H	0.410
5	D:320:VAL:CG1	D:321:THR:N	0.410
5	C:267:GLN:O	C:297:LEU:CB	0.410

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:3:GLN:HE21	A:11:GLU:CG	0.409
5	A:264:VAL:HB	A:282:TYR:OH	0.409
5	A:344:PHE:CE1	A:364:GLU:HB2	0.409
5	A:393:SER:HB3	A:394:TRP:CZ3	0.409
5	A:390:PHE:O	A:394:TRP:CE3	0.409
5	C:42:ARG:C	C:241:VAL:CG1	0.409
5	C:44:LEU:HG	C:238:PHE:CE1	0.409
5	C:57:VAL:HG21	C:224:VAL:H	0.409
5	C:72:GLY:CA	C:75:GLU:C	0.409
5	C:99:LEU:HB3	C:178:PHE:HB3	0.409
5	C:140:PHE:CE2	C:351:ALA:O	0.409
5	C:147:TYR:C	C:355:GLY:O	0.409
5	C:218:ASN:O	C:219:PHE:CD2	0.409
5	C:245:ILE:HG13	C:247:VAL:HG13	0.409
5	C:48:ALA:CB	C:279:ASN:HB3	0.409
5	D:12:GLU:HB2	D:15:LYS:CE	0.409
5	D:180:PHE:HA	D:211:TRP:CZ3	0.409
5	D:271:CYS:CB	D:290:ASP:CG	0.409
5	F:36:ASN:ND2	F:38:VAL:HG12	0.409
5	F:40:GLN:CB	F:46:LEU:CD2	0.409
5	C:85:ASP:O	C:253:TYR:CD2	0.409
5	F:96:TYR:CE2	F:120:GLY:O	0.409
5	A:49:TRP:CD1	A:50:PRO:O	0.408

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:66:LEU:HD23	B:23:ILE:CD1	0.408
5	A:118:LEU:N	A:118:LEU:HD23	0.408
5	A:228:LEU:C	A:228:LEU:CD2	0.408
5	C:33:ASP:O	C:37:TYR:HB2	0.408
5	C:56:ILE:O	C:58:LYS:HG3	0.408
5	C:74:GLU:CD	C:74:GLU:N	0.408
5	C:129:ASP:H	C:131:ILE:HG22	0.408
5	C:134:VAL:CB	C:351:ALA:HA	0.408
5	C:153:LEU:HA	C:156:ASP:OD1	0.408
5	C:177:TYR:CD2	D:332:TRP:CD1	0.408
5	C:238:PHE:CE2	C:241:VAL:HB	0.408
5	C:257:ILE:HD13	C:258:ARG:C	0.408
5	C:87:GLU:CB	C:265:ARG:CZ	0.408
5	C:296:LEU:HA	C:296:LEU:HD23	0.408
5	C:315:PHE:HD2	C:340:PHE:CD1	0.408
5	C:346:LEU:C	C:346:LEU:CD1	0.408
5	C:385:ARG:C	C:385:ARG:CD	0.408
5	C:389:ARG:C	C:389:ARG:CD	0.408
5	A:150:HIS:H	C:393:LEU:C	0.408
5	D:20:ASP:C	D:23:LYS:CB	0.408
5	D:57:LYS:HG2	D:75:GLN:CG	0.408
5	C:68:PHE:O	C:202:VAL:N	0.408
5	C:62:ILE:CG1	C:203:LEU:H	0.408

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:5:GLY:CA	D:52:ARG:NE	0.408
5	A:175:ASP:OD2	A:178:LEU:HD12	0.407
5	A:224:GLU:CD	A:336:LEU:CD2	0.407
5	A:243:PHE:C	A:245:LEU:H	0.407
5	A:267:LEU:O	A:268:TYR:HB3	0.407
5	A:328:LYS:CG	C:123:GLU:CD	0.407
5	C:99:LEU:HD12	C:179:LEU:CG	0.407
5	C:103:ILE:O	C:106:ILE:HG22	0.407
5	C:140:PHE:CD1	C:349:SER:CB	0.407
5	C:232:ARG:HB3	F:109:PHE:CD1	0.407
5	C:249:ALA:C	C:251:SER:N	0.407
5	C:281:TRP:CE3	C:282:LEU:HB3	0.407
5	D:91:HIS:CD2	D:92:ALA:N	0.407
5	D:180:PHE:HA	D:211:TRP:HZ3	0.407
5	D:160:SER:HB3	D:190:LEU:HG	0.407
5	D:293:ASN:CG	D:307:VAL:CG1	0.407
5	E:27:ARG:NH2	E:30:VAL:HG13	0.407
5	A:242:ILE:CG2	A:243:PHE:N	0.407
5	C:139:ASP:OD2	C:300:LYS:NZ	0.407
5	C:218:ASN:O	C:219:PHE:CG	0.407
5	C:146:PHE:CD1	C:354:ASP:O	0.407
5	A:57:PHE:CE1	A:58:VAL:O	0.406
5	A:344:PHE:CD1	A:364:GLU:HB2	0.406

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:353:ARG:CA	A:357:ARG:HH21	0.406
5	A:387:GLN:CG	C:125:GLN:CG	0.406
5	C:48:ALA:HB2	C:291:LEU:O	0.406
5	C:49:GLY:HA2	C:281:TRP:CD2	0.406
5	C:64:HIS:CG	C:65:VAL:H	0.406
5	C:46:LEU:CD1	C:90:THR:HA	0.406
5	C:132:LEU:O	C:135:MET:HB2	0.406
5	C:228:ARG:HG3	D:163:ASP:CG	0.406
5	C:141:ASP:OD2	C:345:PHE:CG	0.406
5	C:352:SER:C	C:354:ASP:N	0.406
5	D:20:ASP:CA	D:23:LYS:CB	0.406
5	D:190:LEU:HA	D:232:ILE:HD11	0.406
5	D:237:ASN:CB	E:40:TYR:CE2	0.406
5	D:240:ALA:CB	D:252:LEU:HD11	0.406
5	E:28:ILE:HG23	E:29:LYS:H	0.406
5	E:37:LEU:O	E:37:LEU:HD13	0.406
5	D:145:TYR:HD1	D:145:TYR:O	0.406
5	C:41:HIS:CG	C:42:ARG:H	0.406
5	C:82:SER:H	C:208:PHE:CB	0.406
5	C:154:TRP:NE1	C:176:GLN:NE2	0.406
5	C:204:THR:H	D:96:ARG:HH21	0.406
5	A:222:LEU:HG	A:222:LEU:O	0.406
5	D:297:TRP:CE2	D:302:ALA:O	0.406

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:43:PHE:CE2	A:45:GLU:O	0.405
5	A:12:THR:OG1	A:65:TYR:CZ	0.405
5	A:79:ARG:HB2	A:87:TRP:CZ2	0.405
5	A:156:ILE:HG13	A:246:TYR:CZ	0.405
5	C:40:THR:CG2	C:42:ARG:CD	0.405
5	C:87:GLU:C	C:87:GLU:HG2	0.405
5	C:105:THR:O	C:109:ALA:HB3	0.405
5	A:387:GLN:OE1	C:125:GLN:HG2	0.405
5	C:127:ARG:CG	C:354:ASP:CB	0.405
5	C:134:VAL:HG21	C:351:ALA:HB2	0.405
5	C:181:LYS:C	C:184:VAL:HG12	0.405
5	C:191:VAL:HG22	C:192:PRO:CD	0.405
5	C:70:GLY:N	C:201:ARG:HG3	0.405
5	C:249:ALA:C	C:251:SER:H	0.405
5	C:282:LEU:C	C:282:LEU:HD13	0.405
5	C:307:LYS:HD2	C:308:ILE:N	0.405
5	C:147:TYR:N	C:355:GLY:C	0.405
5	D:202:GLY:HA2	D:229:ILE:HD13	0.405
5	F:12:LEU:HA	F:126:THR:O	0.405
5	C:212:PHE:O	C:219:PHE:HD2	0.405
5	C:152:ALA:N	C:389:ARG:CG	0.405
5	C:271:LYS:HZ1	C:294:GLN:CG	0.405
5	F:14:GLN:HG3	F:15:PRO:O	0.405

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:25:ARG:C	A:28:THR:HG22	0.404
5	A:107:LYS:HG2	A:108:ARG:H	0.404
5	A:136:LEU:HD11	A:161:PHE:HD1	0.404
5	A:156:ILE:HB	A:246:TYR:CE2	0.404
5	A:384:ASN:CG	A:385:GLU:H	0.404
5	C:54:ASN:CG	C:224:VAL:CG2	0.404
5	C:54:ASN:ND2	C:88:LYS:C	0.404
5	C:141:ASP:CB	C:293:LYS:CE	0.404
5	C:182:ILE:HG13	C:357:HIS:HA	0.404
5	C:212:PHE:CD2	C:372:ILE:HG13	0.404
5	C:54:ASN:OD1	C:224:VAL:HG23	0.404
5	C:44:LEU:HG	C:238:PHE:CZ	0.404
5	C:272:LEU:C	C:275:SER:H	0.404
5	C:289:LEU:C	C:289:LEU:CD2	0.404
5	C:295:ASP:C	C:298:ALA:N	0.404
5	D:83:ASP:HB3	D:88:ASN:ND2	0.404
5	D:150:ARG:NH2	D:192:LEU:HD23	0.404
5	F:23:CYS:HB2	F:80:LEU:HG	0.404
5	A:361:LEU:H	A:361:LEU:HD12	0.404
5	C:95:ILE:CG2	C:96:LYS:N	0.404
5	C:280:LYS:O	C:285:THR:N	0.404
5	D:314:ARG:HD2	D:314:ARG:HH11	0.404
5	A:215:ALA:O	A:218:TYR:CD2	0.404

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:213:GLN:HG2	C:214:VAL:O	0.404
5	C:238:PHE:O	C:241:VAL:HG23	0.404
5	A:16:TRP:CB	A:65:TYR:CE1	0.403
5	A:370:PHE:C	A:373:LEU:HD22	0.403
5	C:37:TYR:O	C:40:THR:CG2	0.403
5	C:82:SER:C	C:225:GLY:CA	0.403
5	C:93:GLN:HB3	C:300:LYS:HA	0.403
5	C:189:ASP:CB	C:211:LYS:CB	0.403
5	C:82:SER:OG	C:222:PHE:CD1	0.403
5	C:90:THR:OG1	C:300:LYS:CB	0.403
5	C:386:MET:HE3	C:392:GLU:HG3	0.403
5	D:12:GLU:O	D:15:LYS:HG2	0.403
5	D:23:LYS:CA	D:23:LYS:CE	0.403
5	D:182:GLY:O	D:183:HIS:CG	0.403
5	C:234:TRP:HH2	D:101:MET:CG	0.403
5	A:274:TRP:O	A:276:ARG:N	0.403
5	C:54:ASN:O	C:238:PHE:CE1	0.403
5	C:182:ILE:O	C:185:ILE:N	0.403
5	A:54:PRO:CA	A:81:CYS:SG	0.403
5	A:43:PHE:CZ	A:45:GLU:O	0.402
5	A:37:LEU:HD12	A:54:PRO:HG2	0.402
5	A:259:VAL:O	A:263:ILE:HG22	0.402
5	A:401:HIS:CD2	C:347:ARG:HG3	0.402

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:428:SER:O	A:431:TYR:CE2	0.402
5	C:95:ILE:C	C:178:PHE:HE2	0.402
5	C:128:VAL:CG2	C:153:LEU:HD23	0.402
5	C:263:THR:HG22	C:282:LEU:CD1	0.402
5	C:290:PHE:C	C:292:ASN:CG	0.402
5	C:293:LYS:CG	C:300:LYS:CD	0.402
5	C:373:ARG:C	C:373:ARG:CD	0.402
5	D:91:HIS:CD2	D:92:ALA:O	0.402
5	C:312:PHE:HE2	C:340:PHE:HE1	0.402
5	C:250:SER:C	C:252:SER:N	0.402
5	D:200:VAL:HG13	D:201:SER:H	0.402
5	A:241:TRP:O	A:245:LEU:HB2	0.402
5	C:57:VAL:O	C:57:VAL:HG13	0.402
5	C:57:VAL:O	C:58:LYS:C	0.402
5	C:198:LEU:O	C:198:LEU:HD13	0.402
5	A:190:GLN:HE21	A:193:GLY:HA3	0.401
5	A:218:TYR:CD1	A:290:ILE:HG13	0.401
5	C:40:THR:HG21	C:42:ARG:CD	0.401
5	C:96:LYS:HB3	C:142:PHE:CD1	0.401
5	C:94:ASP:HA	C:97:ASN:HB3	0.401
5	C:172:ILE:HG12	C:174:CYS:H	0.401
5	C:187:GLN:C	C:187:GLN:HG2	0.401
5	C:188:ALA:C	C:188:ALA:HB1	0.401

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	C:208:PHE:O	C:222:PHE:CD1	0.401
5	C:231:ARG:HD2	C:299:GLU:CB	0.401
5	C:280:LYS:CA	C:285:THR:CB	0.401
5	A:401:HIS:CG	C:347:ARG:HG3	0.401
5	C:147:TYR:CB	C:358:TYR:CB	0.401
5	D:111:TYR:CE1	D:151:PHE:CE1	0.401
5	D:273:ILE:HD11	D:275:SER:O	0.401
5	F:46:LEU:HB2	F:111:VAL:CG1	0.401
5	C:53:LYS:O	D:99:TRP:HZ3	0.401
5	C:225:GLY:O	C:227:GLN:N	0.401
5	C:306:SER:CB	C:306:SER:N	0.401
5	C:208:PHE:O	C:222:PHE:CD2	0.401
5	C:295:ASP:O	C:298:ALA:N	0.401
5	C:140:PHE:CE2	C:352:SER:OG	0.401
5	C:362:HIS:CD2	C:363:PHE:O	0.401
5	D:39:PRO:O	D:40:VAL:HG23	0.401
5	C:99:LEU:HB3	C:178:PHE:CB	0.400
5	C:270:LEU:C	C:270:LEU:HD13	0.400
5	C:270:LEU:HD13	C:297:LEU:HD11	0.400
5	C:331:ASP:CG	C:332:PRO:CD	0.400
5	C:344:GLU:C	C:348:ILE:CD1	0.400
5	C:388:LEU:C	C:388:LEU:CD2	0.400
5	C:155:GLU:CG	C:390:GLN:CD	0.400

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	E:40:TYR:OH	E:44:HIS:CE1	0.400
5	D:43:ILE:CG2	D:44:GLN:N	0.400
5	A:242:ILE:O	A:245:LEU:HB3	0.400
5	C:143:PRO:CD	C:349:SER:O	0.400
6	D:48:ARG:C	D:48:ARG:CA	1.568
6	C:292:ASN:C	C:292:ASN:CA	1.557
6	C:293:LYS:C	C:293:LYS:CA	1.554
6	D:32:GLN:C	D:32:GLN:CA	1.554
6	D:47:THR:C	D:47:THR:CA	1.541
6	C:391:TYR:C	C:391:TYR:CA	1.534
6	C:285:THR:CA	C:285:THR:N	1.521
6	D:47:THR:CA	D:47:THR:N	1.514
6	C:248:VAL:C	C:248:VAL:CA	1.513
6	C:284:ASP:C	C:284:ASP:CA	1.494
6	D:46:ARG:C	D:46:ARG:CA	1.493
6	C:284:ASP:CA	C:284:ASP:N	1.470
6	C:283:ARG:C	C:283:ARG:CA	1.392
6	C:301:VAL:HG22	C:305:LYS:HA	1.134
6	D:47:THR:HA	D:47:THR:N	1.105
6	A:121:LEU:HD21	A:365:LEU:HD12	1.100
6	C:50:GLU:HG3	C:223:ASP:HA	1.077
6	C:3:CYS:HA	D:55:LEU:HB2	1.075
6	C:56:ILE:HA	C:207:ILE:HG12	1.053

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:47:THR:C	D:47:THR:HA	1.037
6	C:298:ALA:HA	C:301:VAL:HG12	1.031
6	C:298:ALA:HA	C:301:VAL:HB	1.027
6	C:99:LEU:HD12	C:181:LYS:HZ1	1.018
6	D:158:VAL:HG12	D:168:LEU:HD22	1.011
6	A:399:LEU:HD23	A:400:GLU:HG3	1.007
6	C:91:LYS:HZ3	C:201:ARG:HD3	1.006
6	D:286:LEU:HD11	D:294:CYS:HB3	1.004
6	E:2:ALA:HB1	F:115:THR:HG21	1.004
6	C:271:LYS:HB3	C:348:ILE:HG21	1.003
6	A:66:LEU:HD23	B:23:ILE:HD12	0.998
6	A:160:LEU:HG	A:220:TRP:HB3	0.998
6	D:271:CYS:HB3	D:290:ASP:HB2	0.986
6	A:355:THR:HG23	A:356:LEU:HD23	0.980
6	C:127:ARG:HG2	C:149:HIS:HB3	0.979
6	D:193:ALA:HB1	D:194:PRO:HD2	0.976
6	C:264:ASN:HB2	F:62:THR:HG23	0.965
6	D:37:ILE:HG23	D:39:PRO:HB3	0.965
6	D:223:THR:HG21	F:2:GLN:HG2	0.964
6	C:91:LYS:HB2	C:207:ILE:HB	0.961
6	A:249:ILE:HG13	A:253:VAL:HG21	0.959
6	A:50:PRO:HG2	A:58:VAL:HG11	0.958
6	C:53:LYS:HD3	C:226:ALA:HB2	0.955

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	F:95:TYR:CE2	F:123:THR:HG23	0.951
6	C:70:GLY:HA3	C:197:LEU:HG	0.948
6	A:133:PHE:HA	A:165:ILE:HD11	0.946
6	C:77:PRO:N	C:90:THR:HB	0.946
6	C:265:ARG:HG2	C:310:ASP:HB3	0.941
6	E:1:MET:HA	E:1:MET:HE3	0.940
6	F:1:MET:HA	F:4:GLN:HB2	0.939
6	D:57:LYS:HE3	D:59:TYR:HA	0.937
6	A:223:VAL:HG12	A:246:TYR:CZ	0.934
6	F:69:PHE:CZ	F:82:LEU:HG	0.932
6	C:262:GLN:HB3	F:64:SER:HB2	0.930
6	D:56:ALA:HB1	D:75:GLN:HB3	0.930
6	C:301:VAL:CG2	C:305:LYS:HA	0.928
6	C:76:ASP:HA	C:90:THR:HA	0.926
6	D:57:LYS:HG2	D:332:TRP:HA	0.924
6	D:30:LEU:HD13	F:2:GLN:CG	0.923
6	C:208:PHE:HB3	C:223:ASP:HB3	0.920
6	F:5:LEU:HG	F:25:ALA:HA	0.919
6	F:14:GLN:HB2	F:15:PRO:HD2	0.919
6	A:397:TRP:HB3	A:416:PRO:HA	0.918
6	C:298:ALA:HA	C:301:VAL:CG1	0.918
6	A:411:LYS:HG2	A:412:PRO:HD2	0.917
6	C:52:GLY:HA3	C:295:ASP:HB3	0.917

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:131:LEU:HD13	A:134:SER:HB2	0.916
6	A:153:ARG:HD2	C:391:TYR:HB3	0.916
6	A:95:LEU:HB2	A:96:PRO:HD2	0.914
6	C:95:ILE:HG12	C:98:ASN:HB3	0.913
6	D:55:LEU:HB3	D:76:ASP:HB2	0.910
6	C:56:ILE:HD11	C:94:ASP:HB3	0.908
6	C:270:LEU:HG	C:273:PHE:CZ	0.908
6	D:54:HIS:HB2	D:334:SER:HB3	0.905
6	D:139:LEU:HG	D:169:TRP:CD2	0.905
6	C:127:ARG:HB3	C:153:LEU:HD21	0.902
6	D:190:LEU:HG	D:199:PHE:CZ	0.902
6	A:60:VAL:HB	A:76:HIS:CE1	0.900
6	D:278:PHE:CE2	D:285:LEU:HD23	0.900
6	C:208:PHE:CZ	C:210:THR:HG21	0.899
6	D:103:CYS:HB2	D:114:CYS:HB3	0.899
6	C:180:ASP:HB3	C:249:ALA:HB3	0.896
6	D:2:SER:HA	E:6:THR:HG21	0.896
6	D:250:CYS:HB3	D:273:ILE:HD11	0.895
6	C:177:TYR:CE2	C:295:ASP:HA	0.893
6	C:2:GLY:HA2	D:55:LEU:HG	0.892
6	C:107:VAL:HA	C:110:MET:HE2	0.892
6	F:82:LEU:HD21	F:84:MET:HG3	0.890
6	C:102:ALA:HB3	C:178:PHE:CZ	0.889

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:88:LYS:HD2	C:203:LEU:HA	0.888
6	C:4:LEU:HB3	D:78:LYS:HB2	0.886
6	C:181:LYS:HD2	C:185:ILE:HG22	0.885
6	C:299:GLU:HG2	F:112:THR:HA	0.885
6	D:63:TRP:CE2	D:321:THR:HB	0.884
6	E:2:ALA:CB	F:115:THR:HG21	0.883
6	A:143:LEU:HD12	A:158:LEU:HD21	0.880
6	C:55:THR:HG22	C:225:GLY:HA3	0.880
6	F:61:TYR:CE1	F:65:VAL:HB	0.880
6	D:276:VAL:CG1	D:285:LEU:HD21	0.879
6	C:57:VAL:HG11	C:181:LYS:HG3	0.876
6	D:106:ALA:HB2	D:111:TYR:HB3	0.876
6	C:56:ILE:HB	C:207:ILE:HG12	0.874
6	D:276:VAL:HG13	D:285:LEU:HD11	0.874
6	A:53:GLU:HG2	A:54:PRO:HD2	0.872
6	F:46:LEU:HB2	F:111:VAL:HG13	0.872
6	A:311:LYS:HA	A:311:LYS:HE3	0.871
6	C:50:GLU:CG	C:223:ASP:HA	0.871
6	C:55:THR:HG23	C:207:ILE:HG13	0.866
6	C:56:ILE:HA	C:207:ILE:CG1	0.866
6	F:41:ALA:HB2	F:44:LYS:HG2	0.862
6	D:37:ILE:HB	F:32:ASN:HA	0.858
6	D:294:CYS:HB2	D:308:LEU:HB2	0.858

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	E:8:SER:HB3	E:11:GLN:HB3	0.858
6	A:299:LEU:HD12	A:300:ILE:N	0.856
6	D:55:LEU:HD23	D:56:ALA:N	0.856
6	C:76:ASP:HB3	C:77:PRO:HD2	0.855
6	C:297:LEU:HD13	C:301:VAL:HG21	0.853
6	D:61:MET:HB2	D:70:LEU:HD11	0.853
6	D:33:ILE:HG12	D:34:THR:H	0.849
6	F:62:THR:HG22	F:64:SER:H	0.849
6	C:13:ARG:HD2	C:14:ASN:H	0.848
6	C:154:TRP:HB2	C:179:LEU:HD21	0.848
6	D:200:VAL:HG23	D:234:PHE:CZ	0.846
6	F:47:GLU:HB2	F:129:SER:HB2	0.846
6	A:182:TYR:CE1	B:18:ALA:HA	0.845
6	C:99:LEU:HA	C:178:PHE:CD1	0.845
6	C:206:GLY:HA3	D:118:ASP:HA	0.841
6	F:102:ALA:HB1	F:103:PRO:HD2	0.841
6	C:55:THR:HB	C:224:VAL:C	0.838
6	C:45:LEU:CD2	C:245:ILE:HG23	0.836
6	C:68:PHE:HB2	C:196:ASP:HB3	0.836
6	C:229:ASP:HB2	F:112:THR:HG21	0.836
6	F:92:THR:HA	F:126:THR:HA	0.835
6	C:80:ALA:HB3	C:86:GLY:N	0.833
6	C:245:ILE:HA	C:288:ILE:HG23	0.833

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:32:GLN:C	D:32:GLN:CB	0.833
6	D:41:GLY:HA3	D:270:ILE:HD12	0.833
6	C:294:GLN:HB3	C:297:LEU:HB2	0.832
6	A:253:VAL:HB	A:254:PRO:HD3	0.828
6	A:334:ILE:HG23	A:335:PRO:HD3	0.826
6	E:54:VAL:HG13	E:55:PRO:HD2	0.826
6	A:182:TYR:O	B:14:LEU:HD21	0.825
6	D:15:LYS:O	D:18:ILE:HG23	0.825
6	C:52:GLY:HA3	C:295:ASP:CB	0.824
6	D:58:ILE:HG22	D:331:SER:O	0.823
6	C:171:LEU:HD23	C:172:ILE:N	0.822
6	C:52:GLY:O	C:225:GLY:HA2	0.822
6	F:52:ILE:HD13	F:59:ILE:HB	0.821
6	D:117:LEU:HD22	D:145:TYR:HD1	0.820
6	A:182:TYR:CG	B:18:ALA:HB2	0.817
6	D:25:CYS:HA	D:259:GLN:HE22	0.817
6	A:33:PRO:HG2	A:38:PHE:CE2	0.816
6	A:121:LEU:CD2	A:365:LEU:HD12	0.816
6	A:297:ASN:HD21	A:337:LEU:HG	0.816
6	C:73:GLY:HA2	C:201:ARG:HH22	0.815
6	C:55:THR:HB	C:225:GLY:CA	0.813
6	F:41:ALA:HA	F:93:ALA:HB2	0.813
6	A:395:GLU:HA	A:414:LYS:CB	0.812

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:398:ARG:HA	A:415:CYS:N	0.812
6	D:139:LEU:HG	D:169:TRP:CE2	0.812
6	D:278:PHE:CZ	D:285:LEU:HD23	0.812
6	A:395:GLU:HB3	A:412:PRO:HG2	0.811
6	F:40:GLN:HB2	F:46:LEU:HD22	0.811
6	C:45:LEU:HD12	C:221:MET:HE3	0.809
6	C:254:ASN:HD21	C:256:VAL:HG22	0.809
6	A:9:LEU:HB2	B:19:ALA:HB2	0.808
6	D:123:ILE:HG23	D:136:SER:HB3	0.808
6	D:204:CYS:HA	D:228:ASP:HB2	0.807
6	D:197:ARG:O	D:213:VAL:HG23	0.807
6	F:21:LEU:HD13	F:95:TYR:CD2	0.807
6	C:96:LYS:HD3	C:142:PHE:HB3	0.804
6	C:181:LYS:HA	C:293:LYS:HE3	0.804
6	D:286:LEU:HD12	D:287:ALA:H	0.803
6	A:31:PRO:HB2	A:32:PRO:HD2	0.802
6	C:231:ARG:NH2	C:235:ILE:HB	0.802
6	D:286:LEU:HD12	D:287:ALA:N	0.802
6	C:390:GLN:HE21	D:46:ARG:HD2	0.801
6	A:60:VAL:HG12	A:61:SER:H	0.800
6	F:34:LYS:HG2	F:53:SER:HA	0.800
6	A:181:MET:HE1	A:273:CYS:SG	0.799
6	A:224:GLU:OE1	A:336:LEU:HD11	0.799

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:14:LEU:O	D:18:ILE:HG22	0.799
6	D:71:VAL:HA	D:81:ILE:HG23	0.799
6	C:277:TRP:HB3	F:106:ARG:HB2	0.797
6	A:224:GLU:CD	A:336:LEU:HD21	0.796
6	D:315:VAL:HG12	D:331:SER:CB	0.796
6	D:329:THR:HG23	D:337:LYS:HG2	0.796
6	C:56:ILE:HD12	C:91:LYS:HA	0.794
6	C:249:ALA:HB3	C:305:LYS:HD2	0.794
6	C:37:TYR:HA	C:40:THR:HG22	0.793
6	C:45:LEU:HB2	C:50:GLU:HB3	0.793
6	D:54:HIS:CE1	D:80:ILE:HG23	0.793
6	D:254:ASP:HB2	D:261:LEU:HD21	0.793
6	C:270:LEU:HA	C:273:PHE:CE2	0.792
6	D:150:ARG:HD3	D:192:LEU:HG	0.791
6	C:175:ALA:HA	C:178:PHE:CE2	0.790
6	A:60:VAL:HB	A:76:HIS:NE2	0.789
6	A:216:ALA:HA	A:220:TRP:CZ3	0.788
6	A:388:LEU:HA	A:391:ARG:HG2	0.788
6	F:112:THR:HG22	F:114:THR:HG22	0.788
6	C:58:LYS:HD3	C:208:PHE:CZ	0.787
6	F:19:LEU:HD22	F:20:ARG:N	0.787
6	A:178:LEU:CD2	B:14:LEU:HG	0.785
6	F:11:GLY:H	F:125:VAL:HG23	0.785

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:398:ARG:HA	A:414:LYS:C	0.784
6	D:193:ALA:HB2	D:234:PHE:CE2	0.784
6	D:276:VAL:HG12	D:285:LEU:HD21	0.784
6	A:68:TRP:HD1	A:72:VAL:HG23	0.783
6	A:398:ARG:HB3	A:414:LYS:HA	0.781
6	D:183:HIS:CE1	D:207:SER:HB3	0.781
6	F:82:LEU:HD21	F:84:MET:CG	0.781
6	C:59:GLN:HG2	C:60:MET:H	0.780
6	C:214:VAL:HG12	C:215:ASP:H	0.780
6	D:315:VAL:HG12	D:331:SER:CA	0.780
6	F:37:TRP:CZ2	F:82:LEU:HD12	0.780
6	D:270:ILE:HG21	F:104:PHE:HB3	0.779
6	D:211:TRP:CH2	D:216:GLY:HA2	0.778
6	A:299:LEU:O	A:302:VAL:HG12	0.777
6	C:77:PRO:CA	C:90:THR:HB	0.777
6	F:125:VAL:HG22	F:126:THR:H	0.777
6	A:133:PHE:CD2	A:165:ILE:HD12	0.776
6	A:411:LYS:HD3	A:414:LYS:HE2	0.776
6	C:1:MET:HG3	C:2:GLY:H	0.776
6	C:62:ILE:HB	C:195:GLN:CB	0.776
6	A:136:LEU:HB3	A:161:PHE:CD1	0.775
6	C:47:GLY:HA2	C:247:VAL:HG11	0.773
6	C:250:SER:HB2	C:307:LYS:HG2	0.773

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:294:GLN:CB	C:297:LEU:HB2	0.773
6	C:134:VAL:HG11	C:140:PHE:CE1	0.771
6	D:28:ALA:HA	F:26:SER:HB2	0.771
6	D:120:ILE:CD1	D:140:ALA:HB2	0.771
6	C:91:LYS:HB2	C:207:ILE:HD13	0.769
6	C:102:ALA:HB3	C:178:PHE:CE2	0.769
6	C:293:LYS:C	C:293:LYS:CB	0.769
6	D:15:LYS:HA	D:18:ILE:CG2	0.769
6	C:52:GLY:CA	C:295:ASP:HB3	0.768
6	C:54:ASN:HA	C:57:VAL:CG2	0.768
6	C:99:LEU:HA	C:178:PHE:CE1	0.768
6	C:235:ILE:HG12	C:238:PHE:CE1	0.768
6	C:247:VAL:HG13	C:292:ASN:N	0.768
6	A:290:ILE:O	A:291:LEU:HD12	0.767
6	C:190:TYR:HB2	C:212:PHE:CZ	0.767
6	C:45:LEU:HB2	C:50:GLU:CB	0.766
6	A:223:VAL:HG12	A:246:TYR:CE2	0.764
6	C:62:ILE:HB	C:195:GLN:HB3	0.764
6	A:334:ILE:HG23	A:335:PRO:CD	0.763
6	F:91:ASP:HB2	F:128:SER:HB3	0.763
6	D:22:ARG:HG2	E:27:ARG:HD3	0.762
6	D:315:VAL:HG12	D:331:SER:HA	0.762
6	C:264:ASN:CB	F:62:THR:HG23	0.761

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:133:PHE:HD2	A:165:ILE:HD12	0.760
6	C:55:THR:HB	C:225:GLY:HA3	0.760
6	D:30:LEU:HD13	F:2:GLN:HG3	0.760
6	D:292:PHE:CE2	D:311:HIS:HB2	0.760
6	F:30:PHE:HB2	F:78:ASN:HB2	0.760
6	A:143:LEU:HD13	A:158:LEU:HG	0.759
6	C:245:ILE:HD12	C:290:PHE:CD1	0.759
6	A:261:TRP:HZ3	A:283:TRP:HA	0.758
6	C:55:THR:HB	C:225:GLY:N	0.758
6	C:248:VAL:C	C:248:VAL:CB	0.758
6	A:343:ILE:HD12	A:347:VAL:HB	0.757
6	C:281:TRP:CE3	C:281:TRP:HA	0.757
6	D:198:LEU:H	D:198:LEU:HD23	0.757
6	A:361:LEU:HD12	A:362:PHE:N	0.756
6	C:54:ASN:ND2	C:181:LYS:HB2	0.756
6	D:271:CYS:HB2	D:289:TYR:CE1	0.756
6	C:57:VAL:HG22	C:181:LYS:CE	0.755
6	C:56:ILE:CB	C:207:ILE:HG12	0.755
6	C:298:ALA:CB	C:301:VAL:HG12	0.755
6	C:262:GLN:OE1	F:65:VAL:HG22	0.755
6	D:297:TRP:CH2	D:299:ALA:HA	0.754
6	F:48:TRP:CH2	F:108:CYS:HB2	0.754
6	C:91:LYS:CG	C:207:ILE:HD13	0.753

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:35:ASN:HB3	F:28:PHE:CZ	0.753
6	A:220:TRP:CH2	A:251:TRP:HA	0.752
6	D:151:PHE:CZ	D:154:ASP:HA	0.752
6	A:13:VAL:HB	A:191:TRP:H22	0.751
6	C:298:ALA:CA	C:301:VAL:HG12	0.751
6	D:297:TRP:CZ3	D:299:ALA:HA	0.751
6	C:56:ILE:CD1	C:94:ASP:HB3	0.750
6	C:58:LYS:HB3	C:208:PHE:CZ	0.750
6	C:247:VAL:HG12	C:293:LYS:H	0.750
6	C:275:SER:HB3	C:348:ILE:HB	0.750
6	D:180:PHE:HB2	D:211:TRP:CZ3	0.750
6	D:183:HIS:CD2	D:203:ALA:HB1	0.750
6	E:54:VAL:HG13	E:55:PRO:CD	0.750
6	A:220:TRP:HA	A:223:VAL:HG23	0.749
6	C:91:LYS:CB	C:207:ILE:HD13	0.749
6	C:238:PHE:HB2	C:241:VAL:HG21	0.749
6	C:289:LEU:HD13	C:290:PHE:N	0.749
6	D:19:ARG:HG3	D:31:SER:HB2	0.749
6	D:150:ARG:HG2	D:151:PHE:H	0.749
6	F:21:LEU:HD12	F:82:LEU:CD1	0.749
6	C:55:THR:CG2	C:225:GLY:HA3	0.748
6	C:58:LYS:HD3	C:208:PHE:CE2	0.748
6	C:99:LEU:HD23	C:178:PHE:CE1	0.748

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:399:LEU:HD21	A:416:PRO:HD2	0.747
6	C:248:VAL:O	C:292:ASN:HA	0.747
6	D:292:PHE:CZ	D:311:HIS:HB2	0.747
6	A:304:VAL:HG12	A:305:ILE:HD12	0.746
6	C:91:LYS:HG3	C:92:VAL:N	0.746
6	A:410:MET:HE3	A:411:LYS:HD2	0.745
6	C:284:ASP:C	C:284:ASP:CB	0.745
6	C:264:ASN:ND2	F:62:THR:HA	0.745
6	A:240:GLN:H	A:242:ILE:HG22	0.743
6	D:111:TYR:CE2	D:123:ILE:HG13	0.743
6	F:50:SER:HB2	F:61:TYR:CD2	0.743
6	A:297:ASN:OD1	A:337:LEU:HD12	0.742
6	D:117:LEU:HA	D:145:TYR:CD1	0.742
6	A:178:LEU:HD21	B:14:LEU:HG	0.741
6	A:300:ILE:HD12	A:301:PHE:N	0.741
6	A:411:LYS:H	A:411:LYS:HD3	0.741
6	C:54:ASN:HA	C:57:VAL:HG23	0.741
6	C:54:ASN:OD1	C:57:VAL:HG11	0.741
6	C:245:ILE:HG22	C:288:ILE:HG21	0.741
6	C:245:ILE:HG22	C:288:ILE:CG2	0.740
6	C:294:GLN:HB3	C:297:LEU:CA	0.740
6	D:49:ARG:HD2	D:337:LYS:NZ	0.740
6	C:4:LEU:C	C:30:LEU:HD22	0.739

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:103:ILE:HD11	C:179:LEU:HG	0.739
6	C:54:ASN:HD21	C:181:LYS:HB2	0.739
6	D:146:LEU:HD23	D:160:SER:O	0.739
6	A:68:TRP:CE2	A:108:ARG:HG3	0.738
6	C:321:PRO:HG2	C:324:ALA:HB3	0.738
6	D:86:THR:HG22	D:88:ASN:CG	0.738
6	A:261:TRP:CZ3	A:286:ILE:HG22	0.737
6	C:51:SER:HB3	C:54:ASN:HB3	0.737
6	D:57:LYS:HD2	D:59:TYR:HB2	0.737
6	C:103:ILE:HG22	C:131:ILE:HD11	0.736
6	D:32:GLN:HG2	D:223:THR:HB	0.736
6	F:15:PRO:HB3	F:89:PRO:HG3	0.736
6	D:121:CYS:HB2	D:146:LEU:CD1	0.735
6	F:102:ALA:HB3	F:105:THR:HG21	0.735
6	C:57:VAL:HA	C:95:ILE:HG22	0.734
6	C:91:LYS:CB	C:207:ILE:HB	0.734
6	C:127:ARG:CG	C:149:HIS:HB3	0.733
6	C:290:PHE:CD2	C:362:HIS:HB3	0.733
6	A:411:LYS:HG2	A:412:PRO:CD	0.732
6	C:117:VAL:HG11	C:162:CYS:SG	0.732
6	C:275:SER:CB	C:348:ILE:HA	0.732
6	C:292:ASN:HD21	C:365:CYS:HB3	0.732
6	D:59:TYR:HE1	D:101:MET:HG2	0.732

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:75:GLU:HB2	C:198:LEU:HB2	0.731
6	D:183:HIS:CE1	D:205:ASP:HB3	0.731
6	D:183:HIS:NE2	D:205:ASP:HB3	0.731
6	F:100:CYS:HB3	F:108:CYS:SG	0.731
6	C:388:LEU:O	C:388:LEU:HD22	0.730
6	D:30:LEU:HD22	D:31:SER:N	0.730
6	D:289:TYR:CE2	D:291:ASP:HB3	0.730
6	A:182:TYR:HB3	B:14:LEU:CD1	0.729
6	D:166:CYS:SG	D:180:PHE:HB3	0.729
6	F:15:PRO:HA	F:89:PRO:HD3	0.729
6	A:219:TYR:CD2	A:254:PRO:HD3	0.728
6	C:55:THR:HA	C:223:ASP:OD1	0.728
6	C:91:LYS:HB2	C:207:ILE:CB	0.728
6	D:22:ARG:HB2	D:25:CYS:SG	0.728
6	D:232:ILE:HD12	D:243:THR:HB	0.728
6	C:57:VAL:CG1	C:181:LYS:HG3	0.727
6	C:207:ILE:HD12	C:208:PHE:H	0.727
6	D:124:TYR:CE2	D:133:VAL:HG11	0.727
6	A:344:PHE:CE1	A:364:GLU:HG3	0.726
6	C:45:LEU:HD22	C:245:ILE:HG23	0.726
6	C:157:GLU:HB3	C:254:ASN:HB2	0.726
6	C:180:ASP:HB3	C:249:ALA:CB	0.726
6	C:307:LYS:CB	C:309:GLU:HB3	0.726

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:58:ILE:HG23	D:59:TYR:H	0.726
6	D:79:LEU:HB3	D:93:ILE:HG22	0.726
6	C:100:LYS:HE3	C:146:PHE:CZ	0.725
6	D:35:ASN:HB3	F:28:PHE:HZ	0.725
6	C:45:LEU:CB	C:50:GLU:HB3	0.724
6	C:45:LEU:CD1	C:221:MET:HE3	0.724
6	C:55:THR:CB	C:225:GLY:HA3	0.724
6	C:75:GLU:HG3	C:76:ASP:H	0.724
6	C:287:VAL:HG12	C:288:ILE:H	0.724
6	C:287:VAL:HG13	C:357:HIS:NE2	0.724
6	D:48:ARG:C	D:48:ARG:CB	0.724
6	A:143:LEU:HB2	A:158:LEU:HD11	0.723
6	C:47:GLY:HA2	C:247:VAL:HG21	0.723
6	C:84:SER:HB3	C:94:ASP:HB3	0.723
6	D:80:ILE:HD13	D:92:ALA:HB2	0.723
6	D:45:MET:SD	D:312:ASP:HA	0.723
6	F:40:GLN:O	F:93:ALA:HB1	0.723
6	C:60:MET:HA	C:74:GLU:HA	0.722
6	C:247:VAL:HG13	C:292:ASN:H	0.722
6	C:292:ASN:C	C:292:ASN:CB	0.721
6	C:312:PHE:HB3	C:313:PRO:HD2	0.721
6	D:25:CYS:HA	D:259:GLN:NE2	0.721
6	F:34:LYS:HE3	F:53:SER:HB2	0.721

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:100:LEU:O	A:100:LEU:HD13	0.720
6	A:300:ILE:O	A:304:VAL:HG23	0.720
6	C:171:LEU:HD23	C:172:ILE:H	0.720
6	D:297:TRP:HE1	D:302:ALA:HA	0.720
6	F:82:LEU:CD2	F:84:MET:HG3	0.720
6	C:248:VAL:HG22	C:297:LEU:CD1	0.719
6	A:219:TYR:CG	A:254:PRO:HG3	0.718
6	C:102:ALA:CB	C:175:ALA:HB2	0.718
6	D:49:ARG:HD2	D:337:LYS:HZ2	0.718
6	C:99:LEU:HD12	C:181:LYS:NZ	0.717
6	D:71:VAL:HG22	D:81:ILE:HG23	0.717
6	F:1:MET:HA	F:4:GLN:CB	0.717
6	F:19:LEU:HB3	F:84:MET:HE3	0.717
6	F:44:LYS:HB2	F:44:LYS:NZ	0.717
6	C:142:PHE:CE2	C:146:PHE:HB3	0.716
6	C:207:ILE:HD12	C:208:PHE:N	0.716
6	A:100:LEU:HD11	A:104:GLU:HB2	0.714
6	C:103:ILE:HD12	C:178:PHE:HE1	0.714
6	D:2:SER:CA	E:6:THR:HG21	0.714
6	D:285:LEU:HB3	D:297:TRP:HE3	0.714
6	F:91:ASP:CB	F:128:SER:HB3	0.714
6	A:239:GLU:HG2	C:35:GLN:HE21	0.713
6	B:22:PHE:CE2	B:26:LEU:HD11	0.713

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:51:SER:CB	C:54:ASN:HB3	0.713
6	C:91:LYS:NZ	C:201:ARG:HD3	0.713
6	D:57:LYS:HE3	D:316:SER:HB2	0.713
6	C:117:VAL:HG21	C:162:CYS:SG	0.712
6	C:154:TRP:HB2	C:179:LEU:CD2	0.712
6	C:254:ASN:ND2	C:256:VAL:HG22	0.712
6	D:15:LYS:HD2	D:30:LEU:HD12	0.712
6	D:329:THR:HG23	D:337:LYS:CG	0.712
6	E:18:GLN:HA	E:21:MET:HE2	0.712
6	F:19:LEU:HD22	F:20:ARG:H	0.712
6	C:154:TRP:CH2	C:160:ARG:HG2	0.711
6	D:4:LEU:HB2	D:7:LEU:HB3	0.711
6	C:58:LYS:HB3	C:208:PHE:CE1	0.710
6	C:294:GLN:CA	C:297:LEU:HB2	0.710
6	B:22:PHE:CZ	B:26:LEU:HD11	0.709
6	C:47:GLY:HA2	C:247:VAL:CG2	0.709
6	C:82:SER:C	C:226:ALA:HB3	0.709
6	C:99:LEU:HD23	C:178:PHE:HE1	0.709
6	C:265:ARG:CZ	C:341:ILE:HD11	0.709
6	D:124:TYR:CE2	D:126:LEU:HG	0.709
6	C:60:MET:HA	C:74:GLU:CA	0.708
6	A:39:CYS:HB3	A:87:TRP:CE2	0.707
6	A:148:HIS:HB3	D:46:ARG:HB3	0.707

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:305:ILE:O	A:308:VAL:HG12	0.707
6	C:154:TRP:CE2	C:250:SER:HA	0.707
6	C:233:LYS:HD3	D:188:MET:SD	0.707
6	C:244:ILE:HD13	C:280:LYS:HE2	0.707
6	C:314:GLU:HA	C:314:GLU:OE1	0.707
6	D:38:ASP:HB2	D:40:VAL:HG13	0.707
6	D:225:HIS:HB2	D:251:ARG:NH1	0.707
6	D:222:PHE:HE1	D:260:GLU:HG3	0.707
6	A:15:LYS:HE2	A:65:TYR:HA	0.706
6	C:68:PHE:CB	C:196:ASP:HB3	0.706
6	C:247:VAL:HG12	C:293:LYS:N	0.706
6	D:292:PHE:CD2	D:311:HIS:HB2	0.706
6	F:52:ILE:CG2	F:73:ARG:HD2	0.706
6	A:68:TRP:CH2	A:105:GLU:HG3	0.705
6	A:398:ARG:CB	A:414:LYS:HA	0.705
6	A:319:LYS:H	A:319:LYS:HD3	0.704
6	C:89:ALA:N	C:91:LYS:HG2	0.704
6	D:30:LEU:HD13	F:2:GLN:CD	0.704
6	D:32:GLN:HG3	F:2:GLN:HB3	0.704
6	F:38:VAL:HG13	F:47:GLU:O	0.704
6	C:5:GLY:HA3	C:29:GLN:HB2	0.703
6	C:99:LEU:HG	C:178:PHE:CD1	0.703
6	C:248:VAL:HG22	C:297:LEU:HD11	0.703

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:287:VAL:HG12	C:288:ILE:N	0.703
6	D:120:ILE:HD12	D:140:ALA:HA	0.703
6	C:88:LYS:HD2	C:203:LEU:CA	0.702
6	C:249:ALA:HB3	C:305:LYS:CD	0.702
6	C:332:PRO:HG2	C:336:ARG:NH2	0.702
6	D:43:ILE:HB	D:271:CYS:SG	0.702
6	A:336:LEU:O	A:336:LEU:HD22	0.700
6	C:55:THR:HG22	C:225:GLY:CA	0.700
6	C:144:PRO:HB3	C:186:LYS:HD3	0.700
6	C:48:ALA:HA	C:184:VAL:HG21	0.699
6	C:51:SER:HB3	C:177:TYR:CE2	0.699
6	C:207:ILE:HD12	C:208:PHE:CA	0.699
6	C:277:TRP:CG	F:106:ARG:HB2	0.699
6	D:199:PHE:HB3	D:211:TRP:HB3	0.699
6	D:292:PHE:CE1	D:311:HIS:HB2	0.699
6	D:328:ALA:HB1	D:336:LEU:CD1	0.699
6	C:294:GLN:HB3	C:297:LEU:CB	0.698
6	D:28:ALA:CA	F:26:SER:HB2	0.698
6	D:126:LEU:HG	D:133:VAL:HG21	0.698
6	F:49:VAL:HG13	F:61:TYR:CZ	0.698
6	C:52:GLY:H	C:177:TYR:HE2	0.698
6	A:216:ALA:HA	A:220:TRP:HZ3	0.697
6	C:62:ILE:HD12	C:195:GLN:H	0.697

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:275:SER:HB3	C:348:ILE:CB	0.697
6	D:37:ILE:HG23	D:39:PRO:CB	0.697
6	F:39:ARG:CZ	F:128:SER:HA	0.697
6	F:47:GLU:CB	F:129:SER:HB2	0.697
6	A:395:GLU:HA	A:414:LYS:HB2	0.696
6	C:56:ILE:HG13	C:95:ILE:H	0.696
6	C:61:ARG:HG2	C:62:ILE:H	0.696
6	D:142:HIS:HD2	D:161:SER:HB2	0.696
6	C:49:GLY:CA	C:58:LYS:HD2	0.695
6	C:60:MET:HG2	C:61:ARG:N	0.695
6	C:69:ASN:HA	C:200:CYS:HB2	0.695
6	C:91:LYS:HD2	C:207:ILE:HD12	0.695
6	C:103:ILE:HA	C:106:ILE:HG22	0.695
6	C:82:SER:O	C:226:ALA:HB3	0.695
6	C:248:VAL:C	C:248:VAL:CG1	0.695
6	C:273:PHE:O	C:276:ILE:HG22	0.695
6	D:206:ALA:HB2	D:227:SER:O	0.695
6	A:231:LEU:HD21	C:392:GLU:CG	0.694
6	A:182:TYR:HD2	B:14:LEU:HD22	0.694
6	D:49:ARG:HA	D:49:ARG:HE	0.694
6	D:277:SER:O	D:285:LEU:HD22	0.694
6	F:47:GLU:CG	F:129:SER:HB2	0.694
6	A:85:GLY:C	A:86:LEU:HD23	0.693

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:394:TRP:HB2	A:411:LYS:HZ1	0.693
6	C:57:VAL:HG23	C:95:ILE:CG2	0.693
6	C:184:VAL:HG21	C:293:LYS:HE2	0.693
6	A:222:LEU:O	A:222:LEU:HD22	0.692
6	A:388:LEU:HG	D:44:GLN:CB	0.692
6	C:156:ASP:O	C:159:VAL:HG12	0.692
6	C:201:ARG:NE	C:210:THR:HG22	0.692
6	D:7:LEU:HD21	E:16:VAL:HG21	0.692
6	D:237:ASN:HB3	E:40:TYR:CE2	0.692
6	C:248:VAL:C	C:248:VAL:HG12	0.691
6	D:57:LYS:CE	D:316:SER:HB2	0.691
6	F:5:LEU:HB3	F:23:CYS:SG	0.691
6	F:41:ALA:CB	F:44:LYS:HG2	0.691
6	C:47:GLY:HA2	C:247:VAL:CG1	0.690
6	C:57:VAL:HG22	C:181:LYS:HE2	0.690
6	C:332:PRO:HG2	C:336:ARG:HH21	0.690
6	D:168:LEU:HD12	D:178:THR:CG2	0.690
6	A:16:TRP:CH2	A:20:ARG:HB2	0.689
6	C:247:VAL:CG2	C:290:PHE:HB2	0.689
6	C:266:LEU:HD12	C:300:LYS:HG3	0.689
6	C:271:LYS:HG2	C:285:THR:HG22	0.689
6	A:68:TRP:CZ2	A:105:GLU:HG3	0.688
6	C:270:LEU:HD12	F:48:TRP:CZ3	0.688

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:126:LEU:CD2	D:133:VAL:HG21	0.688
6	F:30:PHE:HB2	F:78:ASN:CB	0.688
6	A:237:LEU:HD22	C:35:GLN:HG2	0.687
6	A:335:PRO:HG3	A:374:MET:SD	0.687
6	C:53:LYS:CD	C:226:ALA:HB2	0.687
6	C:186:LYS:HD2	C:187:GLN:N	0.687
6	C:246:PHE:O	C:289:LEU:HD22	0.687
6	A:399:LEU:CD2	A:416:PRO:HD2	0.686
6	C:83:ASN:CA	C:226:ALA:HB3	0.686
6	C:99:LEU:HD12	C:185:ILE:HG21	0.686
6	C:46:LEU:O	C:247:VAL:HB	0.686
6	A:65:TYR:CE1	A:66:LEU:HD11	0.685
6	C:80:ALA:HB3	C:86:GLY:H	0.685
6	C:268:ALA:HB2	C:271:LYS:HD2	0.685
6	A:82:THR:HB	A:88:LEU:CD2	0.684
6	A:123:ILE:HG23	A:124:ILE:H	0.684
6	C:3:CYS:CA	D:55:LEU:HD12	0.684
6	C:88:LYS:HB2	C:205:SER:CB	0.684
6	C:96:LYS:HB3	C:185:ILE:CD1	0.684
6	C:249:ALA:HA	C:308:ILE:HG22	0.684
6	F:4:GLN:C	F:5:LEU:HD12	0.684
6	C:307:LYS:C	C:310:ASP:H	0.683
6	C:45:LEU:HD12	C:221:MET:CE	0.682

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:148:HIS:CB	D:46:ARG:HB3	0.681
6	A:227:TYR:HB2	A:246:TYR:HE2	0.681
6	A:240:GLN:N	A:242:ILE:HG22	0.681
6	C:52:GLY:C	C:225:GLY:HA2	0.681
6	A:225:GLY:H	A:228:LEU:HG	0.680
6	A:155:TYR:HE2	A:247:VAL:HG21	0.680
6	A:266:TYR:HD2	A:267:LEU:HD12	0.680
6	C:70:GLY:CA	C:197:LEU:HG	0.680
6	C:154:TRP:CZ2	C:250:SER:HA	0.680
6	D:22:ARG:CB	D:25:CYS:HB2	0.680
6	A:125:TYR:CE2	B:3:GLU:HG3	0.679
6	C:13:ARG:HD2	C:14:ASN:N	0.679
6	C:26:ILE:HG12	C:30:LEU:HD21	0.679
6	C:80:ALA:HB3	C:86:GLY:CA	0.679
6	C:297:LEU:CD1	C:301:VAL:HG21	0.679
6	C:331:ASP:OD2	C:334:VAL:HG13	0.679
6	C:38:ARG:HH22	C:383:ILE:HG21	0.679
6	D:103:CYS:CB	D:114:CYS:HB3	0.679
6	D:204:CYS:HA	D:228:ASP:CB	0.679
6	F:21:LEU:HB2	F:82:LEU:HD13	0.679
6	F:52:ILE:HG21	F:73:ARG:HD2	0.679
6	C:104:GLU:CD	C:135:MET:HB2	0.678
6	C:247:VAL:HG22	C:290:PHE:HB2	0.678

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:250:SER:CB	C:307:LYS:HG2	0.678
6	F:68:ARG:HD2	F:85:ASN:HB3	0.678
6	A:333:LEU:O	A:333:LEU:HD22	0.677
6	C:46:LEU:CD2	C:51:SER:HA	0.677
6	C:57:VAL:CA	C:95:ILE:HG22	0.677
6	C:338:LYS:HG3	C:339:TYR:CD1	0.677
6	C:3:CYS:N	D:55:LEU:HD12	0.677
6	D:235:PHE:CD2	D:236:PRO:HD2	0.677
6	F:91:ASP:HB3	F:127:VAL:C	0.677
6	A:395:GLU:CG	A:412:PRO:HG2	0.676
6	A:395:GLU:HA	A:414:LYS:HB3	0.676
6	C:69:ASN:HA	C:200:CYS:CB	0.676
6	C:88:LYS:HB3	C:204:THR:CA	0.676
6	D:57:LYS:HG3	D:332:TRP:CD2	0.676
6	C:285:THR:C	C:285:THR:N	0.676
6	A:68:TRP:CZ2	A:108:ARG:HG3	0.675
6	A:148:HIS:HA	D:46:ARG:CB	0.675
6	A:397:TRP:HA	A:417:THR:CG2	0.675
6	B:20:LYS:CA	B:23:ILE:HG22	0.675
6	C:47:GLY:HA2	C:247:VAL:CB	0.675
6	C:71:GLU:HB3	C:201:ARG:HB2	0.675
6	C:91:LYS:HB2	C:207:ILE:CD1	0.675
6	C:102:ALA:HB2	C:175:ALA:HB2	0.675

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:238:PHE:HB2	C:241:VAL:CG2	0.675
6	D:71:VAL:HG22	D:81:ILE:CG2	0.675
6	C:26:ILE:HD13	D:89:LYS:CB	0.674
6	C:275:SER:HB3	C:348:ILE:HA	0.674
6	C:291:LEU:HB2	C:363:PHE:CD1	0.674
6	D:55:LEU:CD2	D:56:ALA:HB2	0.674
6	D:313:ASN:CG	D:332:TRP:HB3	0.674
6	A:66:LEU:HD23	B:23:ILE:CD1	0.673
6	A:136:LEU:HD22	A:376:ALA:HB2	0.673
6	A:148:HIS:HB3	C:390:GLN:CD	0.673
6	A:284:LEU:HA	A:287:ARG:HG2	0.673
6	C:208:PHE:CD2	C:223:ASP:HB3	0.673
6	D:123:ILE:CG2	D:136:SER:HB3	0.673
6	D:123:ILE:HG22	D:137:ARG:O	0.673
6	F:62:THR:HG22	F:64:SER:N	0.673
6	C:4:LEU:CB	D:78:LYS:HD2	0.672
6	C:266:LEU:CD1	C:300:LYS:HG3	0.672
6	C:277:TRP:CB	F:106:ARG:HB2	0.672
6	D:32:GLN:HG2	D:223:THR:CB	0.672
6	F:39:ARG:HD2	F:127:VAL:HG23	0.672
6	A:178:LEU:HD11	B:11:SER:HA	0.671
6	A:204:ARG:HE	A:266:TYR:HB2	0.670
6	C:181:LYS:CD	C:185:ILE:HG22	0.670

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:123:ILE:HG23	D:135:VAL:O	0.670
6	D:183:HIS:CD2	D:185:GLY:H	0.670
6	D:315:VAL:HB	D:330:GLY:O	0.670
6	F:15:PRO:HB3	F:89:PRO:CG	0.670
6	F:70:THR:CG2	F:83:GLN:HB3	0.670
6	D:8:ARG:NH1	F:121:GLN:HB2	0.670
6	A:143:LEU:CB	A:158:LEU:HD11	0.669
6	A:307:ILE:HD11	C:384:GLN:HE21	0.669
6	A:395:GLU:CB	A:412:PRO:HG2	0.669
6	C:70:GLY:HA3	C:197:LEU:CG	0.669
6	A:53:GLU:CG	A:54:PRO:HD2	0.668
6	C:37:TYR:HA	C:40:THR:CG2	0.668
6	C:82:SER:C	C:226:ALA:HA	0.668
6	C:296:LEU:HD11	C:300:LYS:HE2	0.668
6	C:297:LEU:O	C:297:LEU:HD22	0.668
6	D:38:ASP:N	D:39:PRO:HA	0.668
6	B:20:LYS:N	B:23:ILE:HG22	0.667
6	C:96:LYS:HB3	C:185:ILE:HD13	0.667
6	C:107:VAL:HG13	C:110:MET:HE3	0.667
6	D:225:HIS:CD2	D:245:SER:HB2	0.667
6	D:313:ASN:HB3	D:332:TRP:HB3	0.667
6	F:39:ARG:CD	F:127:VAL:HG23	0.667
6	C:91:LYS:HB2	C:207:ILE:CG1	0.666

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:267:GLN:HG3	C:300:LYS:HG2	0.666
6	D:79:LEU:HB3	D:93:ILE:CG2	0.666
6	D:225:HIS:CD2	D:227:SER:H	0.666
6	E:48:ASP:HB2	E:49:PRO:HD2	0.666
6	A:33:PRO:HG2	A:38:PHE:CD2	0.665
6	C:62:ILE:CG2	C:195:GLN:HB3	0.665
6	C:144:PRO:HB3	C:186:LYS:CD	0.665
6	C:302:LEU:O	C:302:LEU:HD13	0.665
6	D:38:ASP:HB2	D:39:PRO:C	0.665
6	D:103:CYS:HB2	D:114:CYS:CB	0.665
6	F:10:GLY:HA2	F:19:LEU:HD11	0.665
6	F:91:ASP:HB3	F:127:VAL:O	0.665
6	E:5:ASN:ND2	F:94:VAL:HG21	0.665
6	A:148:HIS:CD2	D:46:ARG:HB2	0.664
6	A:150:HIS:CB	C:1:MET:HB3	0.664
6	A:388:LEU:HA	A:391:ARG:CG	0.664
6	C:77:PRO:CD	C:90:THR:HB	0.664
6	C:270:LEU:O	C:270:LEU:HD23	0.664
6	D:293:ASN:HD21	D:309:ALA:HB2	0.664
6	A:261:TRP:CZ3	A:283:TRP:HA	0.663
6	A:312:LEU:HB3	A:322:ILE:HG12	0.663
6	C:46:LEU:HD13	C:294:GLN:HA	0.663
6	C:75:GLU:HB2	C:198:LEU:CB	0.663

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:249:ALA:HA	C:308:ILE:CG2	0.663
6	C:277:TRP:HB3	F:106:ARG:CB	0.663
6	A:263:ILE:N	A:263:ILE:HD12	0.662
6	C:89:ALA:H	C:91:LYS:HG2	0.662
6	C:180:ASP:HB2	C:305:LYS:HD2	0.662
6	C:264:ASN:HB2	F:62:THR:CG2	0.662
6	C:268:ALA:HA	C:271:LYS:HD2	0.662
6	C:3:CYS:N	D:55:LEU:HB2	0.662
6	D:106:ALA:CB	D:111:TYR:HB3	0.662
6	F:34:LYS:HG2	F:53:SER:CA	0.662
6	C:103:ILE:HG22	C:131:ILE:CD1	0.661
6	C:177:TYR:CD1	C:298:ALA:HB2	0.661
6	C:201:ARG:CZ	C:210:THR:HG22	0.661
6	D:62:HIS:HD2	D:105:TYR:HB3	0.661
6	D:101:MET:HE3	D:147:SER:HB2	0.660
6	D:337:LYS:HB3	D:337:LYS:HZ3	0.660
6	F:80:LEU:C	F:80:LEU:HD23	0.660
6	A:41:ARG:HD2	A:51:ASP:HA	0.659
6	C:80:ALA:O	C:85:ASP:HA	0.659
6	C:103:ILE:C	C:131:ILE:HD11	0.659
6	C:247:VAL:CG1	C:292:ASN:HB2	0.659
6	C:279:ASN:CG	C:282:LEU:HB2	0.659
6	D:259:GLN:HG2	D:260:GLU:H	0.659

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:340:ASN:OD1	E:56:ALA:HB3	0.659
6	A:126:THR:HA	A:129:TYR:CE2	0.658
6	C:96:LYS:HD3	C:142:PHE:CB	0.658
6	C:248:VAL:HG21	C:265:ARG:CZ	0.658
6	C:279:ASN:ND2	C:282:LEU:HB2	0.658
6	C:292:ASN:ND2	C:364:THR:HG23	0.658
6	D:269:ILE:HG23	D:289:TYR:CE1	0.658
6	A:143:LEU:HD12	A:158:LEU:CD2	0.657
6	D:248:ALA:CB	D:269:ILE:HG22	0.657
6	A:275:THR:HG21	B:11:SER:HB2	0.656
6	A:355:THR:HG23	A:356:LEU:N	0.656
6	C:43:LEU:HB3	C:45:LEU:HD21	0.656
6	C:91:LYS:HD2	C:207:ILE:CD1	0.656
6	C:379:CYS:O	C:382:ILE:HG22	0.656
6	D:124:TYR:CZ	D:133:VAL:HG11	0.656
6	D:151:PHE:CE2	D:154:ASP:HA	0.656
6	C:154:TRP:NE1	C:250:SER:HA	0.655
6	D:118:ASP:CG	D:120:ILE:HG22	0.655
6	F:44:LYS:HB2	F:44:LYS:HZZ	0.655
6	F:41:ALA:O	F:93:ALA:HA	0.655
6	C:128:VAL:O	C:131:ILE:HG22	0.654
6	C:265:ARG:NE	C:341:ILE:HD11	0.654
6	D:150:ARG:HD3	D:192:LEU:CG	0.654

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:123:ILE:HG23	A:124:ILE:N	0.653
6	A:395:GLU:HG2	A:412:PRO:CG	0.653
6	C:3:CYS:HB3	C:33:ASP:CG	0.653
6	C:57:VAL:CG2	C:95:ILE:HG22	0.653
6	C:181:LYS:CA	C:293:LYS:HE3	0.653
6	E:2:ALA:HB1	F:115:THR:CG2	0.653
6	C:55:THR:HG23	C:56:ILE:HG22	0.652
6	C:140:PHE:HE2	C:142:PHE:HB2	0.652
6	C:296:LEU:O	C:300:LYS:HD3	0.652
6	F:112:THR:CG2	F:114:THR:HG22	0.652
6	A:170:SER:O	A:173:ILE:HG22	0.651
6	C:59:GLN:O	C:74:GLU:HA	0.651
6	D:55:LEU:CB	D:76:ASP:HB2	0.651
6	D:259:GLN:HG2	D:260:GLU:N	0.651
6	C:56:ILE:HD11	C:94:ASP:CB	0.650
6	C:231:ARG:HB3	C:235:ILE:HG22	0.650
6	D:50:THR:CG2	D:51:LEU:HD23	0.650
6	D:188:MET:HA	D:188:MET:HE3	0.650
6	D:226:GLU:HG3	D:247:ASP:OD2	0.650
6	A:344:PHE:CD1	A:364:GLU:HG3	0.649
6	C:53:LYS:HG3	C:174:CYS:SG	0.649
6	C:55:THR:HG23	C:207:ILE:CG1	0.649
6	C:261:ASN:HB2	F:91:ASP:HB2	0.649

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:266:LEU:C	C:266:LEU:HD13	0.649
6	C:267:GLN:CG	C:300:LYS:HG2	0.649
6	C:391:TYR:C	C:391:TYR:N	0.649
6	F:52:ILE:HG12	F:73:ARG:CZ	0.649
6	A:100:LEU:HD11	A:104:GLU:CB	0.648
6	A:140:SER:HB3	A:161:PHE:CE2	0.648
6	A:205:LEU:C	A:205:LEU:HD23	0.648
6	A:399:LEU:HD22	A:415:CYS:O	0.648
6	C:48:ALA:HA	C:184:VAL:CG2	0.648
6	C:244:ILE:H	C:287:VAL:HG11	0.648
6	D:115:GLY:CA	D:146:LEU:HD13	0.648
6	D:300:LEU:HD21	E:37:LEU:CD2	0.648
6	A:261:TRP:CE3	A:286:ILE:HG22	0.647
6	A:276:ARG:HD3	A:278:SER:N	0.647
6	A:305:ILE:HG13	A:308:VAL:HG11	0.647
6	C:91:LYS:HG3	C:92:VAL:H	0.647
6	C:292:ASN:ND2	C:365:CYS:HB3	0.647
6	C:3:CYS:H	D:55:LEU:HD12	0.647
6	D:300:LEU:HD11	E:41:CYS:SG	0.647
6	D:328:ALA:HB1	D:336:LEU:HD11	0.647
6	C:1:MET:HG3	C:2:GLY:N	0.646
6	C:68:PHE:HB2	C:196:ASP:CB	0.646
6	C:236:GLN:HG2	D:314:ARG:HH12	0.646

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:55:LEU:HD23	D:56:ALA:CA	0.646
6	D:292:PHE:CD1	D:311:HIS:HB2	0.646
6	A:276:ARG:HD3	A:278:SER:H	0.645
6	C:25:LYS:HB3	C:25:LYS:NZ	0.645
6	D:139:LEU:HA	D:169:TRP:CZ2	0.645
6	F:35:MET:HG2	F:80:LEU:HD13	0.645
6	C:247:VAL:HG22	C:290:PHE:N	0.644
6	D:63:TRP:NE1	D:321:THR:HB	0.644
6	C:214:VAL:HG12	C:215:ASP:N	0.643
6	D:57:LYS:HD3	D:59:TYR:N	0.643
6	D:251:ARG:H	D:251:ARG:HD3	0.643
6	E:46:LYS:H	E:46:LYS:HD3	0.643
6	F:52:ILE:HD13	F:59:ILE:CB	0.643
6	F:126:THR:O	F:127:VAL:HG13	0.643
6	A:65:TYR:C	A:66:LEU:HD12	0.642
6	A:150:HIS:HB2	C:1:MET:HB3	0.642
6	A:257:PHE:CD2	A:289:PRO:HG3	0.642
6	C:260:ASP:HB3	F:129:SER:C	0.642
6	D:63:TRP:CE3	D:70:LEU:HD23	0.642
6	D:225:HIS:HB2	D:251:ARG:CZ	0.642
6	D:57:LYS:HA	D:332:TRP:O	0.641
6	D:220:GLN:NE2	D:258:ASP:HB2	0.641
6	D:293:ASN:ND2	D:309:ALA:HB2	0.641

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	F:19:LEU:CD1	F:125:VAL:HG21	0.641
6	F:52:ILE:CD1	F:59:ILE:HB	0.641
6	A:140:SER:HB3	A:161:PHE:CD2	0.640
6	A:225:GLY:HA2	A:228:LEU:HD12	0.640
6	C:189:ASP:OD2	C:197:LEU:HD22	0.640
6	C:267:GLN:CD	C:300:LYS:HG2	0.640
6	D:12:GLU:H	D:15:LYS:HE3	0.640
6	D:96:ARG:NH2	D:135:VAL:HG21	0.640
6	D:298:ASP:HB2	D:301:LYS:O	0.640
6	A:334:ILE:N	A:335:PRO:HD2	0.639
6	C:277:TRP:CZ3	F:34:LYS:HD3	0.639
6	C:391:TYR:C	C:391:TYR:CB	0.639
6	D:47:THR:HG23	D:48:ARG:N	0.639
6	A:316:LEU:HA	A:318:CYS:SG	0.638
6	C:49:GLY:O	C:58:LYS:HD2	0.638
6	C:91:LYS:HZ2	C:208:PHE:HA	0.638
6	D:33:ILE:HG22	D:224:GLY:O	0.638
6	D:47:THR:C	D:47:THR:CB	0.638
6	D:55:LEU:HB3	D:76:ASP:CB	0.638
6	D:169:TRP:CZ2	D:174:GLY:HA2	0.638
6	E:9:ILE:C	E:9:ILE:HD13	0.638
6	F:52:ILE:HD11	F:56:GLY:O	0.638
6	C:262:GLN:CB	F:64:SER:HB2	0.638

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:343:ILE:CD1	A:347:VAL:HG23	0.637
6	C:244:ILE:CD1	C:280:LYS:HE2	0.637
6	D:115:GLY:HA3	D:146:LEU:HD13	0.637
6	E:37:LEU:C	E:37:LEU:HD23	0.637
6	E:49:PRO:C	E:50:LEU:HD12	0.637
6	F:52:ILE:HG21	F:73:ARG:CD	0.637
6	A:257:PHE:CE2	A:289:PRO:HG3	0.636
6	C:28:LYS:O	C:31:GLN:HG2	0.636
6	C:54:ASN:HA	C:57:VAL:HB	0.636
6	C:76:ASP:HB3	C:77:PRO:CD	0.636
6	C:82:SER:HB3	C:207:ILE:HG22	0.636
6	C:154:TRP:H22	C:250:SER:HB3	0.636
6	C:271:LYS:HB3	C:348:ILE:CG2	0.636
6	C:297:LEU:HD22	C:301:VAL:HG23	0.636
6	C:249:ALA:N	C:305:LYS:HD3	0.636
6	D:121:CYS:HB2	D:146:LEU:HD12	0.636
6	A:13:VAL:HB	A:191:TRP:C22	0.635
6	C:144:PRO:CB	C:186:LYS:HE2	0.635
6	C:275:SER:HB3	C:348:ILE:CA	0.635
6	D:118:ASP:OD2	D:120:ILE:HG22	0.635
6	B:20:LYS:HA	B:23:ILE:CG2	0.634
6	C:58:LYS:O	C:185:ILE:HA	0.634
6	D:117:LEU:HA	D:145:TYR:CE1	0.634

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:248:VAL:H	C:292:ASN:N	0.634
6	A:209:LEU:HD22	A:213:CYS:SG	0.633
6	A:160:LEU:CG	A:220:TRP:HB3	0.633
6	C:47:GLY:CA	C:247:VAL:HG21	0.633
6	C:50:GLU:CD	C:223:ASP:HA	0.633
6	C:245:ILE:HD12	C:290:PHE:CE1	0.633
6	C:275:SER:HA	C:348:ILE:HG13	0.633
6	D:43:ILE:HG13	D:291:ASP:HA	0.633
6	D:242:ALA:HB2	D:252:LEU:HD13	0.633
6	D:57:LYS:HZ1	D:316:SER:HB2	0.633
6	C:184:VAL:CG2	C:293:LYS:HE2	0.632
6	C:248:VAL:HA	C:297:LEU:CD1	0.632
6	D:246:ASP:O	D:272:GLY:HA2	0.632
6	C:85:ASP:C	C:94:ASP:HB2	0.631
6	C:99:LEU:HG	C:178:PHE:HD1	0.631
6	C:119:LEU:N	C:119:LEU:HD22	0.631
6	D:36:ASN:C	F:32:ASN:HB2	0.631
6	D:58:ILE:HG23	D:59:TYR:N	0.631
6	D:101:MET:CE	D:188:MET:HE1	0.631
6	A:60:VAL:HG12	A:61:SER:N	0.630
6	C:224:VAL:CG1	C:227:GLN:HB2	0.630
6	C:271:LYS:O	C:348:ILE:HD12	0.630
6	D:43:ILE:HG12	D:44:GLN:N	0.630

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:88:ASN:C	D:89:LYS:HD2	0.630
6	D:232:ILE:CD1	D:243:THR:HB	0.630
6	A:201:LEU:HD21	A:204:ARG:HH11	0.629
6	A:227:TYR:HA	A:230:THR:CG2	0.629
6	A:236:VAL:O	A:237:LEU:HD23	0.629
6	C:335:THR:HA	C:338:LYS:HG2	0.629
6	D:19:ARG:C	D:19:ARG:HD2	0.629
6	D:49:ARG:HG3	D:337:LYS:HB3	0.629
6	D:307:VAL:C	D:308:LEU:HD22	0.629
6	A:201:LEU:CD2	A:204:ARG:HB3	0.628
6	C:50:GLU:HG3	C:223:ASP:CG	0.628
6	C:256:VAL:HG12	C:257:ILE:N	0.628
6	C:292:ASN:OD1	C:365:CYS:HB3	0.628
6	C:42:ARG:HH12	D:98:SER:HB3	0.628
6	D:126:LEU:CG	D:133:VAL:HG21	0.628
6	D:292:PHE:CG	D:311:HIS:HB2	0.628
6	D:311:HIS:ND1	D:315:VAL:HG11	0.628
6	E:42:GLU:O	E:45:ALA:HB2	0.628
6	D:70:LEU:HD13	D:71:VAL:N	0.627
6	D:77:GLY:O	D:95:LEU:HD23	0.627
6	D:193:ALA:HB1	D:194:PRO:CD	0.627
6	D:200:VAL:HG21	D:241:PHE:CE2	0.627
6	D:199:PHE:HE1	D:201:SER:HB3	0.627

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:211:TRP:HA	D:218:CYS:SG	0.627
6	A:49:TRP:CZ2	A:58:VAL:HB	0.626
6	A:132:SER:O	A:136:LEU:HG	0.626
6	A:378:LEU:O	A:382:VAL:HG13	0.626
6	C:26:ILE:HD11	D:92:ALA:HB2	0.626
6	C:62:ILE:HG22	C:195:GLN:HB3	0.626
6	C:246:PHE:CE2	C:294:GLN:HB2	0.626
6	C:270:LEU:HG	C:273:PHE:HZ	0.626
6	D:37:ILE:HG12	F:32:ASN:ND2	0.626
6	A:166:LEU:C	A:166:LEU:HD23	0.625
6	C:60:MET:HG2	C:61:ARG:H	0.625
6	C:246:PHE:CZ	C:294:GLN:HB2	0.625
6	E:59:ASN:CG	E:60:PRO:HA	0.625
6	A:10:TRP:O	A:13:VAL:HG12	0.624
6	A:85:GLY:O	A:86:LEU:HD23	0.624
6	C:60:MET:HA	C:74:GLU:CB	0.624
6	C:383:ILE:HG12	C:386:MET:HB3	0.624
6	E:59:ASN:ND2	E:60:PRO:HG3	0.624
6	F:39:ARG:HD2	F:127:VAL:CG2	0.624
6	D:295:ASN:H	D:295:ASN:HD22	0.624
6	C:81:ARG:HA	C:84:SER:O	0.623
6	C:267:GLN:HE22	C:296:LEU:HG	0.623
6	D:47:THR:HG23	D:335:PHE:CZ	0.623

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:57:LYS:HE3	D:59:TYR:CA	0.623
6	A:310:SER:HA	A:313:LYS:HE2	0.622
6	C:267:GLN:NE2	C:300:LYS:HE3	0.622
6	D:193:ALA:HB2	D:234:PHE:HE2	0.622
6	D:293:ASN:HD21	D:309:ALA:CA	0.622
6	C:260:ASP:OD2	F:44:LYS:HE2	0.622
6	A:41:ARG:CD	A:51:ASP:HA	0.621
6	C:110:MET:SD	C:119:LEU:HD11	0.621
6	C:154:TRP:CE3	C:179:LEU:HD11	0.621
6	C:294:GLN:HG2	C:297:LEU:H	0.621
6	D:29:THR:CG2	F:1:MET:HB3	0.621
6	D:285:LEU:HB3	D:297:TRP:CE3	0.621
6	A:90:LYS:HB2	A:90:LYS:NZ	0.620
6	A:150:HIS:CG	C:1:MET:HB3	0.620
6	C:49:GLY:HA2	C:58:LYS:HD2	0.620
6	C:102:ALA:HB3	C:178:PHE:HZ	0.620
6	C:127:ARG:HG3	C:149:HIS:CA	0.620
6	C:297:LEU:CD2	C:301:VAL:HG23	0.620
6	C:390:GLN:NE2	D:46:ARG:HD2	0.620
6	D:126:LEU:HD23	D:133:VAL:HG21	0.620
6	D:177:THR:HG23	D:178:THR:N	0.620
6	F:49:VAL:HG13	F:61:TYR:OH	0.620
6	A:205:LEU:HD23	A:206:VAL:N	0.619

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:255:LEU:HA	A:258:VAL:HG12	0.619
6	C:178:PHE:HB2	C:181:LYS:HE2	0.619
6	D:12:GLU:N	D:15:LYS:HG2	0.619
6	D:55:LEU:HD13	D:76:ASP:CG	0.619
6	D:63:TRP:CD1	D:321:THR:HG1	0.619
6	A:143:LEU:HD23	A:379:TYR:OH	0.618
6	A:287:ARG:HG3	A:288:LEU:N	0.618
6	C:55:THR:CG2	C:56:ILE:HG22	0.618
6	C:71:GLU:HA	C:198:LEU:HD13	0.618
6	C:59:GLN:HE22	C:73:GLY:HA3	0.618
6	C:147:TYR:CE1	C:183:ASP:HA	0.618
6	D:15:LYS:HB2	D:30:LEU:HG	0.618
6	D:293:ASN:ND2	D:309:ALA:HA	0.618
6	F:69:PHE:CE1	F:82:LEU:HD23	0.618
6	F:74:ASP:OD2	F:79:THR:HG22	0.618
6	A:395:GLU:HG2	A:412:PRO:HG2	0.617
6	C:3:CYS:CB	D:55:LEU:HD12	0.617
6	C:45:LEU:H	C:50:GLU:CD	0.617
6	C:219:PHE:HE1	C:221:MET:HG2	0.617
6	C:268:ALA:CB	C:271:LYS:HD2	0.617
6	D:59:TYR:CE1	D:101:MET:HG2	0.617
6	D:285:LEU:C	D:285:LEU:HD13	0.617
6	C:56:ILE:CG1	C:94:ASP:HB3	0.616

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:154:TRP:CB	C:179:LEU:HD21	0.616
6	C:265:ARG:HD2	C:268:ALA:H	0.616
6	F:51:ASP:O	F:59:ILE:HG12	0.616
6	F:92:THR:HA	F:126:THR:CA	0.616
6	A:49:TRP:HZ2	A:58:VAL:HG23	0.615
6	A:136:LEU:HD12	A:164:PHE:HD1	0.615
6	A:153:ARG:O	A:156:ILE:HG12	0.615
6	A:294:ILE:HB	A:342:VAL:HG12	0.615
6	C:25:LYS:HB3	C:25:LYS:HZ3	0.615
6	C:74:GLU:HG2	C:198:LEU:CD2	0.615
6	C:294:GLN:H	C:297:LEU:HB2	0.615
6	E:1:MET:CA	E:1:MET:HE3	0.615
6	A:294:ILE:HD11	A:341:GLU:HG2	0.614
6	C:58:LYS:HB3	C:208:PHE:CE2	0.614
6	D:44:GLN:O	D:45:MET:HG3	0.614
6	A:149:LEU:H	D:46:ARG:HA	0.614
6	D:47:THR:HG23	D:48:ARG:H	0.614
6	F:59:ILE:C	F:59:ILE:HD13	0.614
6	F:95:TYR:CZ	F:123:THR:HG23	0.614
6	F:48:TRP:HH2	F:108:CYS:HB2	0.614
6	A:60:VAL:H	A:76:HIS:CD2	0.613
6	A:344:PHE:HB2	A:364:GLU:OE1	0.613
6	C:71:GLU:HG2	C:212:PHE:HD1	0.613

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:121:LEU:O	A:121:LEU:HD13	0.612
6	A:304:VAL:O	A:307:ILE:HG22	0.612
6	C:61:ARG:HB3	C:74:GLU:CD	0.612
6	C:227:GLN:HG3	C:231:ARG:HD2	0.612
6	C:291:LEU:HB2	C:363:PHE:HD1	0.612
6	C:99:LEU:CD1	C:181:LYS:HZ1	0.612
6	A:178:LEU:O	A:178:LEU:HD23	0.611
6	C:144:PRO:HB2	C:186:LYS:HE2	0.611
6	D:86:THR:HG22	D:88:ASN:ND2	0.611
6	D:214:ARG:C	D:214:ARG:HD3	0.611
6	D:313:ASN:CB	D:332:TRP:HB3	0.611
6	A:334:ILE:HG12	A:339:THR:CG2	0.610
6	A:387:GLN:C	A:388:LEU:HD22	0.610
6	C:5:GLY:HA3	C:29:GLN:CB	0.610
6	C:50:GLU:HG3	C:223:ASP:CB	0.610
6	C:57:VAL:HG23	C:95:ILE:HG22	0.610
6	C:83:ASN:N	C:226:ALA:HB3	0.610
6	D:120:ILE:HG12	D:138:GLU:OE2	0.610
6	D:164:THR:HG21	D:184:THR:C	0.610
6	A:209:LEU:O	A:209:LEU:HD22	0.609
6	A:410:MET:HB2	A:414:LYS:CE	0.609
6	C:49:GLY:O	C:58:LYS:HB2	0.609
6	C:85:ASP:HB2	C:94:ASP:OD2	0.609

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:56:ILE:CA	C:207:ILE:HG12	0.609
6	F:21:LEU:HB2	F:82:LEU:CD1	0.609
6	D:8:ARG:HH12	F:121:GLN:HB2	0.609
6	A:245:LEU:O	A:245:LEU:HD13	0.608
6	A:259:VAL:N	A:260:PRO:HD2	0.608
6	C:191:VAL:HA	C:192:PRO:C	0.608
6	D:37:ILE:HG21	F:54:GLN:HB3	0.608
6	C:206:GLY:CA	D:118:ASP:HA	0.608
6	F:50:SER:HB3	F:71:ILE:HD11	0.608
6	A:68:TRP:CD1	A:72:VAL:HG23	0.607
6	A:100:LEU:HD22	A:103:CYS:SG	0.607
6	A:182:TYR:CD1	B:18:ALA:HB2	0.607
6	A:261:TRP:CD1	A:282:TYR:HH	0.607
6	C:50:GLU:HG3	C:223:ASP:OD1	0.607
6	C:62:ILE:HD12	C:194:ASP:HB3	0.607
6	C:88:LYS:HB2	C:205:SER:OG	0.607
6	C:208:PHE:HD2	C:223:ASP:HB3	0.607
6	C:51:SER:OG	C:293:LYS:HB3	0.607
6	D:139:LEU:HD23	D:169:TRP:CZ3	0.607
6	F:52:ILE:HG12	F:73:ARG:NH1	0.607
6	C:43:LEU:HD23	C:219:PHE:CZ	0.606
6	C:70:GLY:HA3	C:197:LEU:CD1	0.606
6	C:182:ILE:HA	C:185:ILE:HG22	0.606

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:305:LYS:O	C:307:LYS:HA	0.606
6	D:66:ASP:OD1	D:68:ARG:HG3	0.606
6	D:81:ILE:HD12	D:90:VAL:HB	0.606
6	D:204:CYS:O	D:228:ASP:HB3	0.606
6	D:287:ALA:HB3	D:295:ASN:HD21	0.606
6	E:1:MET:HE3	F:1:MET:SD	0.606
6	F:106:ARG:HD3	F:106:ARG:N	0.606
6	A:296:VAL:O	A:299:LEU:HG	0.605
6	C:56:ILE:HG13	C:95:ILE:N	0.605
6	C:81:ARG:HA	C:84:SER:C	0.605
6	C:294:GLN:O	C:297:LEU:HB3	0.605
6	D:78:LYS:HE2	D:80:ILE:CG2	0.605
6	F:52:ILE:HG12	F:73:ARG:HD2	0.605
6	A:82:THR:HB	A:88:LEU:HD21	0.604
6	A:224:GLU:OE2	A:336:LEU:HD21	0.604
6	C:4:LEU:O	C:30:LEU:HA	0.604
6	C:46:LEU:HD23	C:51:SER:HA	0.604
6	C:127:ARG:HG3	C:149:HIS:C	0.604
6	C:2:GLY:CA	D:55:LEU:HG	0.604
6	A:120:PHE:CZ	A:124:ILE:HD12	0.603
6	C:50:GLU:HA	C:223:ASP:CG	0.603
6	C:74:GLU:CG	C:198:LEU:HD23	0.603
6	D:222:PHE:CE1	D:260:GLU:HG3	0.603

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:210:MET:HG3	A:211:GLN:OE1	0.602
6	A:384:ASN:HB2	D:45:MET:HG2	0.602
6	A:395:GLU:O	A:398:ARG:HB3	0.602
6	C:106:ILE:HG23	C:107:VAL:N	0.602
6	C:256:VAL:HG12	C:257:ILE:H	0.602
6	C:262:GLN:O	C:263:THR:HG23	0.602
6	D:32:GLN:CG	D:223:THR:HB	0.602
6	D:47:THR:C	D:47:THR:CG2	0.602
6	A:150:HIS:CD2	A:151:CYS:H	0.601
6	A:156:ILE:HG22	A:246:TYR:CE1	0.601
6	A:314:ALA:HB3	A:317:MET:HB3	0.601
6	D:57:LYS:HD3	D:58:ILE:N	0.601
6	D:283:ARG:HB2	E:41:CYS:SG	0.601
6	A:245:LEU:O	A:249:ILE:HG22	0.600
6	D:37:ILE:CG2	D:39:PRO:HB3	0.600
6	F:21:LEU:HD13	F:95:TYR:CE2	0.600
6	A:253:VAL:HB	A:254:PRO:CD	0.599
6	C:4:LEU:HB3	D:78:LYS:HD2	0.599
6	C:294:GLN:CD	C:296:LEU:HB3	0.599
6	D:10:GLU:O	D:14:LEU:HD12	0.599
6	D:71:VAL:CG1	D:79:LEU:HD11	0.599
6	F:36:ASN:HB2	F:50:SER:O	0.599
6	F:46:LEU:HD22	F:96:TYR:OH	0.599

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:148:HIS:CA	D:46:ARG:HB3	0.598
6	A:394:TRP:HB2	A:411:LYS:NZ	0.598
6	C:4:LEU:HA	C:30:LEU:HD22	0.598
6	C:45:LEU:HB2	C:50:GLU:OE2	0.598
6	C:55:THR:OG1	C:208:PHE:HB3	0.598
6	C:246:PHE:C	C:247:VAL:HG23	0.598
6	C:307:LYS:HD2	C:309:GLU:HB3	0.598
6	A:43:PHE:CE2	A:45:GLU:HA	0.597
6	A:165:ILE:O	A:166:LEU:HB3	0.597
6	C:4:LEU:C	C:4:LEU:HD12	0.597
6	C:4:LEU:HD22	D:78:LYS:HA	0.597
6	C:73:GLY:CA	C:201:ARG:HH22	0.597
6	C:99:LEU:HD11	C:182:ILE:HD12	0.597
6	C:99:LEU:HD23	C:103:ILE:HD12	0.597
6	C:211:LYS:HD2	C:211:LYS:O	0.597
6	C:42:ARG:O	C:241:VAL:HG13	0.597
6	D:2:SER:O	D:3:GLU:HG3	0.597
6	F:11:GLY:O	F:125:VAL:HG23	0.597
6	A:64:TRP:CD1	A:65:TYR:H	0.596
6	A:174:LYS:HD2	A:206:VAL:HG12	0.596
6	C:23:ASN:O	C:26:ILE:HG22	0.596
6	C:37:TYR:CB	D:55:LEU:HD11	0.596
6	C:67:GLY:C	C:196:ASP:HB3	0.596

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:127:ARG:CB	C:153:LEU:HD21	0.596
6	C:140:PHE:CE2	C:142:PHE:HB2	0.596
6	C:232:ARG:NH2	C:233:LYS:HD2	0.596
6	D:226:GLU:HB3	F:28:PHE:CD1	0.596
6	D:313:ASN:HB2	D:333:ASP:CG	0.596
6	A:150:HIS:CG	A:151:CYS:H	0.595
6	A:160:LEU:HD21	A:220:TRP:C	0.595
6	A:311:LYS:CA	A:311:LYS:HE3	0.595
6	C:56:ILE:HG12	C:84:SER:HB3	0.595
6	C:59:GLN:HG3	C:186:LYS:HA	0.595
6	D:28:ALA:CB	F:26:SER:HB2	0.595
6	E:51:LEU:HD23	E:54:VAL:O	0.595
6	A:71:SER:HB3	A:107:LYS:O	0.594
6	A:201:LEU:O	A:201:LEU:HD22	0.594
6	A:257:PHE:CG	A:289:PRO:HG3	0.594
6	A:350:GLU:HA	A:350:GLU:OE1	0.594
6	C:263:THR:HB	C:312:PHE:HD1	0.594
6	C:264:ASN:OD1	C:269:ALA:HB2	0.594
6	D:50:THR:HG22	D:51:LEU:HG	0.594
6	D:81:ILE:CD1	D:90:VAL:HB	0.594
6	F:46:LEU:O	F:111:VAL:HG11	0.594
6	C:45:LEU:HD22	C:245:ILE:CG2	0.593
6	C:127:ARG:O	C:153:LEU:HD11	0.593

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:267:GLN:OE1	C:297:LEU:HA	0.593
6	C:382:ILE:HG23	C:383:ILE:N	0.593
6	E:1:MET:HE1	F:1:MET:N	0.593
6	D:293:ASN:HD21	D:309:ALA:CB	0.593
6	C:82:SER:HB3	C:207:ILE:CG2	0.592
6	C:192:PRO:HB2	C:197:LEU:HD11	0.592
6	A:39:CYS:HB3	A:87:TRP:NE1	0.591
6	A:255:LEU:O	A:259:VAL:HG23	0.591
6	A:392:LYS:HG3	A:393:SER:N	0.591
6	C:26:ILE:HD13	D:89:LYS:HB3	0.591
6	C:346:LEU:O	C:346:LEU:HD13	0.591
6	D:101:MET:HB2	D:145:TYR:OH	0.591
6	F:50:SER:HB2	F:61:TYR:CE2	0.591
6	C:88:LYS:HD3	C:89:ALA:N	0.590
6	C:154:TRP:CZ2	C:160:ARG:HG2	0.590
6	C:346:LEU:C	C:346:LEU:HD13	0.590
6	C:362:HIS:CE1	C:374:ARG:HD2	0.590
6	D:261:LEU:HD22	E:30:VAL:CG2	0.590
6	C:281:TRP:HE1	D:314:ARG:HB2	0.590
6	A:139:ALA:O	A:142:ILE:HG22	0.589
6	A:140:SER:O	A:143:LEU:HB2	0.589
6	A:147:ARG:HG3	A:383:ASN:OD1	0.589
6	A:201:LEU:O	A:201:LEU:HD13	0.589

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:257:PHE:CZ	A:289:PRO:HG3	0.589
6	A:296:VAL:HA	A:299:LEU:HD23	0.589
6	A:328:LYS:O	A:332:THR:HG22	0.589
6	C:56:ILE:HG13	C:91:LYS:O	0.589
6	C:164:GLU:HG2	C:259:GLU:OE1	0.589
6	C:260:ASP:HB3	F:129:SER:OXT	0.589
6	C:282:LEU:O	C:282:LEU:HD13	0.589
6	C:306:SER:HB2	C:310:ASP:CG	0.589
6	D:249:THR:HG22	D:265:SER:OG	0.589
6	F:11:GLY:N	F:125:VAL:HG23	0.589
6	A:9:LEU:CB	B:19:ALA:HB2	0.588
6	A:388:LEU:CD1	D:44:GLN:HB2	0.588
6	C:46:LEU:HB3	C:293:LYS:O	0.588
6	C:157:GLU:HB2	C:254:ASN:OD1	0.588
6	C:229:ASP:CB	F:112:THR:HG21	0.588
6	A:410:MET:O	C:352:SER:HA	0.588
6	D:126:LEU:H	D:133:VAL:HG13	0.588
6	D:271:CYS:HB2	D:289:TYR:CD1	0.588
6	A:13:VAL:HG13	A:14:GLN:N	0.587
6	C:67:GLY:HA2	C:196:ASP:HA	0.587
6	C:77:PRO:HB3	C:90:THR:CB	0.587
6	C:59:GLN:H	C:92:VAL:HB	0.587
6	C:119:LEU:HD12	C:156:ASP:OD1	0.587

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:124:ASN:O	C:128:VAL:HG23	0.587
6	D:233:CYS:O	D:241:PHE:HB3	0.587
6	D:54:HIS:CB	D:334:SER:HB3	0.587
6	A:33:PRO:HG3	A:38:PHE:CE1	0.586
6	A:284:LEU:HD22	A:287:ARG:NE	0.586
6	B:21:GLU:HA	B:21:GLU:OE1	0.586
6	C:75:GLU:HG3	C:76:ASP:N	0.586
6	C:276:ILE:HG12	F:58:SER:HB2	0.586
6	C:281:TRP:HA	C:281:TRP:HE3	0.586
6	D:26:ALA:HB3	D:31:SER:OG	0.586
6	D:318:LEU:HD23	D:329:THR:HB	0.586
6	F:62:THR:HG21	F:129:SER:HA	0.586
6	C:258:ARG:H	C:261:ASN:HD21	0.586
6	A:367:PHE:O	A:371:GLN:HG3	0.585
6	B:20:LYS:HA	B:23:ILE:HG22	0.585
6	C:43:LEU:CD1	C:243:ALA:HB3	0.585
6	C:157:GLU:CB	C:254:ASN:HB2	0.585
6	C:247:VAL:HG22	C:290:PHE:H	0.585
6	C:294:GLN:N	C:297:LEU:HB2	0.585
6	D:29:THR:HG21	F:1:MET:HB3	0.585
6	D:321:THR:HG23	D:325:MET:HG2	0.585
6	E:32:LYS:HD2	E:32:LYS:N	0.585
6	F:35:MET:HG3	F:36:ASN:N	0.585

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	F:38:VAL:HG12	F:96:TYR:CZ	0.585
6	A:260:PRO:O	A:264:VAL:HG23	0.584
6	D:328:ALA:HB2	D:338:ILE:HA	0.584
6	E:38:MET:O	E:41:CYS:HB3	0.584
6	A:136:LEU:N	A:136:LEU:HD23	0.583
6	A:184:THR:HG23	A:185:ALA:N	0.583
6	C:3:CYS:HB3	C:33:ASP:OD2	0.583
6	C:96:LYS:O	C:99:LEU:HB3	0.583
6	C:251:SER:O	C:309:GLU:HB2	0.583
6	D:37:ILE:HG13	F:54:GLN:OE1	0.583
6	D:61:MET:HE1	D:319:GLY:N	0.583
6	D:99:TRP:CZ3	D:117:LEU:HG	0.583
6	A:220:TRP:HH2	A:251:TRP:HA	0.582
6	A:358:PHE:O	A:361:LEU:HG	0.582
6	D:4:LEU:CB	D:7:LEU:HB3	0.582
6	A:207:PHE:O	A:210:MET:HG2	0.581
6	C:394:LEU:O	C:394:LEU:HD22	0.581
6	D:33:ILE:HG12	D:34:THR:N	0.581
6	A:261:TRP:CG	A:282:TYR:HH	0.580
6	A:297:ASN:O	A:300:ILE:HG13	0.580
6	A:334:ILE:C	A:334:ILE:HD13	0.580
6	C:45:LEU:O	C:50:GLU:HG2	0.580
6	C:185:ILE:O	C:185:ILE:HG23	0.580

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:244:ILE:N	C:244:ILE:HD12	0.580
6	D:93:ILE:HD12	D:124:TYR:HE1	0.580
6	D:96:ARG:CZ	D:135:VAL:HG21	0.580
6	A:148:HIS:CA	D:46:ARG:CB	0.579
6	A:148:HIS:HA	D:46:ARG:CA	0.579
6	A:397:TRP:HA	A:417:THR:HG23	0.579
6	C:208:PHE:CB	C:223:ASP:HB3	0.579
6	C:51:SER:O	C:224:VAL:HB	0.579
6	C:335:THR:HG23	C:339:TYR:CE1	0.579
6	C:338:LYS:O	C:341:ILE:HG22	0.579
6	D:49:ARG:HA	D:49:ARG:NE	0.579
6	D:50:THR:HG22	D:51:LEU:HD23	0.579
6	A:128:GLY:HA3	A:369:SER:OG	0.578
6	A:245:LEU:HA	A:248:SER:HB2	0.578
6	A:388:LEU:HD13	A:391:ARG:HD3	0.578
6	C:4:LEU:HB3	D:78:LYS:CB	0.578
6	C:88:LYS:C	C:88:LYS:HD3	0.578
6	C:107:VAL:CG1	C:128:VAL:HG13	0.578
6	C:120:ALA:CB	C:157:GLU:HG2	0.578
6	C:276:ILE:HG12	F:58:SER:CB	0.578
6	F:1:MET:HA	F:4:GLN:CG	0.578
6	A:194:LEU:O	A:194:LEU:HD22	0.577
6	A:231:LEU:HD11	C:392:GLU:OE1	0.577

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:359:ILE:HG23	A:360:LYS:N	0.577
6	F:81:TYR:HE2	F:83:GLN:HB2	0.577
6	A:97:TRP:O	A:98:ARG:HB3	0.576
6	A:231:LEU:O	A:231:LEU:HD13	0.576
6	C:56:ILE:CD1	C:84:SER:HB3	0.576
6	C:307:LYS:HB2	C:309:GLU:HB3	0.576
6	C:383:ILE:HD11	C:386:MET:CE	0.576
6	D:157:ILE:C	D:157:ILE:HD13	0.576
6	D:193:ALA:HB2	D:234:PHE:CD2	0.576
6	A:69:ALA:O	A:72:VAL:HB	0.575
6	C:56:ILE:HD13	C:84:SER:HB2	0.575
6	C:59:GLN:HG3	C:186:LYS:CA	0.575
6	D:139:LEU:HG	D:169:TRP:CE3	0.575
6	A:222:LEU:HD22	A:226:VAL:HG23	0.574
6	A:334:ILE:HG12	A:339:THR:HG22	0.574
6	A:339:THR:O	A:342:VAL:HG22	0.574
6	C:142:PHE:CZ	C:146:PHE:HB3	0.574
6	C:178:PHE:O	C:181:LYS:HB3	0.573
6	C:264:ASN:HB2	F:129:SER:C	0.573
6	C:294:GLN:C	C:297:LEU:H	0.573
6	D:223:THR:HG21	F:2:GLN:CG	0.573
6	D:287:ALA:HB3	D:295:ASN:ND2	0.573
6	C:258:ARG:O	F:44:LYS:HD2	0.573

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:231:LEU:C	A:231:LEU:HD13	0.572
6	A:305:ILE:O	A:309:VAL:HG23	0.572
6	C:50:GLU:HA	C:223:ASP:OD2	0.572
6	C:56:ILE:HG12	C:84:SER:CB	0.572
6	C:88:LYS:HB3	C:203:LEU:C	0.572
6	C:94:ASP:OD1	C:95:ILE:HG13	0.572
6	C:219:PHE:CD1	C:221:MET:HG3	0.572
6	C:287:VAL:HG12	C:288:ILE:HG22	0.572
6	D:150:ARG:O	D:157:ILE:HG12	0.572
6	D:173:THR:HG23	D:174:GLY:N	0.572
6	D:235:PHE:CG	D:236:PRO:HD2	0.572
6	F:21:LEU:HD13	F:95:TYR:CG	0.572
6	F:39:ARG:HB2	F:39:ARG:NH1	0.572
6	F:41:ALA:HB3	F:42:PRO:C	0.572
6	F:44:LYS:HG3	F:45:GLY:O	0.572
6	F:61:TYR:CE2	F:69:PHE:CG	0.572
6	A:245:LEU:HA	A:248:SER:CB	0.571
6	C:36:VAL:O	C:39:ALA:HB3	0.571
6	C:49:GLY:HA2	C:58:LYS:CD	0.571
6	C:61:ARG:N	C:74:GLU:HB2	0.571
6	C:262:GLN:C	C:263:THR:HG23	0.571
6	C:307:LYS:CD	C:309:GLU:HB3	0.571
6	C:307:LYS:HB3	C:309:GLU:H	0.571

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:348:ILE:O	C:348:ILE:HG23	0.571
6	D:240:ALA:HB1	D:253:PHE:O	0.571
6	A:136:LEU:CD2	A:376:ALA:HB2	0.570
6	C:208:PHE:CE2	C:210:THR:HG21	0.570
6	C:238:PHE:CE2	C:244:ILE:HG12	0.570
6	C:247:VAL:HG12	C:292:ASN:C	0.570
6	C:277:TRP:HA	C:277:TRP:HE3	0.570
6	D:55:LEU:HD22	D:76:ASP:HB2	0.570
6	D:70:LEU:HD13	D:71:VAL:C	0.570
6	F:39:ARG:NH2	F:128:SER:HA	0.570
6	A:258:VAL:O	A:261:TRP:HB3	0.569
6	A:396:ARG:HB2	A:396:ARG:NH1	0.569
6	C:55:THR:HB	C:224:VAL:O	0.569
6	A:147:ARG:HH22	C:390:GLN:HA	0.569
6	D:189:SER:OG	D:232:ILE:HG22	0.569
6	D:296:VAL:HG12	D:297:TRP:N	0.569
6	D:56:ALA:O	D:334:SER:HB2	0.569
6	C:59:GLN:HB2	C:186:LYS:N	0.568
6	D:12:GLU:N	D:15:LYS:HE3	0.568
6	A:149:LEU:H	D:46:ARG:CA	0.568
6	D:48:ARG:O	D:49:ARG:HG2	0.568
6	D:70:LEU:HD13	D:71:VAL:O	0.568
6	D:264:TYR:HD1	D:297:TRP:CD1	0.568

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:318:LEU:CD2	D:329:THR:HB	0.568
6	E:51:LEU:HD12	E:52:THR:N	0.568
6	A:19:TYR:CD1	A:65:TYR:HE2	0.567
6	C:4:LEU:H	C:33:ASP:CG	0.567
6	C:103:ILE:O	C:131:ILE:HD11	0.567
6	C:236:GLN:HG2	D:314:ARG:NH1	0.567
6	D:190:LEU:HD11	D:199:PHE:CE2	0.567
6	E:51:LEU:HD12	E:52:THR:H	0.567
6	A:98:ARG:HG2	A:99:ASP:N	0.566
6	A:265:LYS:HB2	A:282:TYR:OH	0.566
6	C:55:THR:CG2	C:207:ILE:HG13	0.566
6	C:55:THR:H	C:225:GLY:HA3	0.566
6	C:289:LEU:C	C:289:LEU:HD13	0.566
6	D:117:LEU:HD22	D:145:TYR:CD1	0.566
6	D:210:LEU:HB3	D:219:ARG:O	0.566
6	E:50:LEU:N	E:50:LEU:HD12	0.566
6	D:247:ASP:OD1	F:103:PRO:HD3	0.566
6	A:211:GLN:O	A:212:TYR:HB3	0.565
6	A:275:THR:HG21	B:11:SER:CB	0.565
6	C:213:GLN:HB3	C:218:ASN:OD1	0.565
6	C:248:VAL:HA	C:297:LEU:HD12	0.565
6	C:267:GLN:O	C:271:LYS:HG3	0.565
6	D:38:ASP:CB	D:40:VAL:HG13	0.565

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:149:LEU:H	D:46:ARG:C	0.565
6	D:274:THR:HG23	D:315:VAL:O	0.565
6	A:49:TRP:CZ2	A:58:VAL:HG23	0.564
6	A:143:LEU:O	A:144:LEU:HB2	0.564
6	A:201:LEU:HD22	A:204:ARG:O	0.564
6	A:257:PHE:O	A:260:PRO:HD2	0.564
6	C:77:PRO:HB3	C:90:THR:OG1	0.564
6	C:84:SER:HB3	C:94:ASP:CB	0.564
6	C:264:ASN:CG	F:62:THR:HG23	0.564
6	D:55:LEU:HD23	D:56:ALA:HB2	0.564
6	D:149:CYS:SG	D:157:ILE:HG13	0.564
6	D:243:THR:HG23	D:251:ARG:NE	0.564
6	D:300:LEU:HD21	E:37:LEU:HD21	0.564
6	F:68:ARG:HD2	F:86:SER:H	0.564
6	D:180:PHE:HD1	D:211:TRP:HZ3	0.564
6	A:9:LEU:HD23	B:19:ALA:HB2	0.563
6	A:307:ILE:HG23	A:308:VAL:N	0.563
6	C:77:PRO:CB	C:90:THR:HB	0.563
6	C:306:SER:HB2	C:310:ASP:OD2	0.563
6	D:297:TRP:NE1	D:302:ALA:HA	0.563
6	A:65:TYR:CD1	A:66:LEU:HD12	0.562
6	A:189:HIS:HB2	B:25:TRP:CZ2	0.562
6	A:355:THR:CG2	A:356:LEU:HD23	0.562

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:332:THR:OG1	A:378:LEU:HD21	0.562
6	C:36:VAL:HG23	C:37:TYR:CD1	0.562
6	C:192:PRO:HB2	C:197:LEU:CD1	0.562
6	D:7:LEU:HD11	E:16:VAL:CG2	0.562
6	D:283:ARG:HG2	D:283:ARG:O	0.562
6	D:318:LEU:C	D:318:LEU:HD13	0.562
6	F:13:VAL:HG12	F:14:GLN:N	0.562
6	F:65:VAL:HG11	F:69:PHE:HB2	0.562
6	C:74:GLU:HG3	C:198:LEU:HD23	0.561
6	C:54:ASN:C	C:57:VAL:HB	0.560
6	C:61:ARG:HB3	C:74:GLU:OE1	0.560
6	C:61:ARG:HG2	C:62:ILE:N	0.560
6	C:255:MET:HG2	C:256:VAL:N	0.560
6	C:296:LEU:HD22	F:109:PHE:HD2	0.560
6	D:15:LYS:C	D:18:ILE:HG23	0.560
6	D:247:ASP:HA	F:103:PRO:HG3	0.560
6	A:218:TYR:HB2	A:290:ILE:HD11	0.559
6	A:388:LEU:HG	D:44:GLN:HB3	0.559
6	C:65:VAL:HG11	C:76:ASP:OD2	0.559
6	C:74:GLU:HG3	C:74:GLU:O	0.559
6	C:127:ARG:HH21	C:153:LEU:HG	0.559
6	C:267:GLN:HE21	C:270:LEU:HD13	0.559
6	D:124:TYR:HE2	D:126:LEU:HG	0.559

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:180:PHE:CD1	D:211:TRP:CZ3	0.559
6	F:1:MET:CA	F:4:GLN:HB2	0.559
6	F:34:LYS:HD2	F:106:ARG:HB3	0.559
6	A:361:LEU:C	A:361:LEU:HD12	0.558
6	A:412:PRO:O	A:414:LYS:HB3	0.558
6	C:56:ILE:HD12	C:91:LYS:CA	0.558
6	C:277:TRP:CE3	C:277:TRP:HA	0.558
6	D:167:ALA:HB1	D:178:THR:O	0.558
6	D:222:PHE:CD1	D:253:PHE:CD1	0.558
6	D:57:LYS:NZ	D:316:SER:HB2	0.558
6	D:318:LEU:HD13	D:319:GLY:N	0.558
6	C:227:GLN:NE2	C:228:ARG:H	0.558
6	A:182:TYR:CG	A:183:SER:N	0.557
6	A:201:LEU:HD22	A:204:ARG:HB3	0.557
6	A:425:THR:O	A:425:THR:HG23	0.557
6	C:348:ILE:O	C:348:ILE:HG12	0.557
6	D:257:ALA:O	E:27:ARG:HG3	0.557
6	F:37:TRP:CZ2	F:95:TYR:CD1	0.557
6	F:100:CYS:HB2	F:101:PRO:HD2	0.557
6	A:76:HIS:CG	A:77:VAL:N	0.556
6	C:88:LYS:HB3	C:204:THR:HA	0.556
6	C:176:GLN:HA	C:179:LEU:HB3	0.556
6	C:69:ASN:O	C:197:LEU:HD12	0.556

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:277:TRP:CH2	F:34:LYS:HD3	0.556
6	C:246:PHE:O	C:289:LEU:HA	0.556
6	C:306:SER:HB2	C:310:ASP:OD1	0.556
6	A:408:SER:OG	C:350:THR:HG22	0.556
6	D:86:THR:HG22	D:88:ASN:OD1	0.556
6	D:273:ILE:HG22	D:288:GLY:O	0.556
6	F:21:LEU:CG	F:82:LEU:HD13	0.556
6	A:276:ARG:HE	A:277:ASN:H	0.556
6	A:15:LYS:HB3	A:65:TYR:CB	0.555
6	A:261:TRP:HH2	A:283:TRP:CE3	0.555
6	C:49:GLY:HA2	C:184:VAL:CG1	0.555
6	C:59:GLN:HG2	C:60:MET:N	0.555
6	C:248:VAL:HB	C:265:ARG:NH2	0.555
6	C:294:GLN:H	C:297:LEU:CB	0.555
6	C:383:ILE:HG12	C:386:MET:CB	0.555
6	D:225:HIS:CD2	D:245:SER:CB	0.555
6	E:48:ASP:HB2	E:49:PRO:CD	0.555
6	F:5:LEU:CG	F:25:ALA:HA	0.555
6	A:288:LEU:HD13	A:289:PRO:HA	0.554
6	C:26:ILE:O	C:30:LEU:HD23	0.554
6	C:232:ARG:NH2	C:233:LYS:HB2	0.554
6	C:301:VAL:CB	C:305:LYS:HA	0.554
6	D:32:GLN:HG2	D:223:THR:OG1	0.554

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:54:HIS:NE2	D:72:SER:HB3	0.554
6	C:285:THR:N	C:286:SER:N	0.554
6	D:295:ASN:N	D:295:ASN:HD22	0.554
6	A:89:GLN:HG2	A:91:ASP:O	0.553
6	A:113:SER:OG	A:114:PRO:HD2	0.553
6	A:221:LEU:C	A:221:LEU:HD13	0.553
6	C:57:VAL:CG2	C:181:LYS:HE2	0.553
6	C:83:ASN:HB3	C:226:ALA:CB	0.553
6	D:23:LYS:HG2	D:24:ALA:N	0.553
6	D:120:ILE:HD13	D:140:ALA:HB2	0.553
6	C:285:THR:N	C:286:SER:H	0.553
6	A:397:TRP:HA	A:417:THR:HG22	0.552
6	C:195:GLN:HA	C:195:GLN:OE1	0.552
6	D:12:GLU:H	D:15:LYS:HG2	0.552
6	D:57:LYS:HG3	D:332:TRP:CE3	0.552
6	D:164:THR:HB	D:185:GLY:O	0.552
6	A:275:THR:O	B:8:SER:HB3	0.551
6	B:20:LYS:H	B:23:ILE:HG22	0.551
6	C:102:ALA:HB2	C:172:ILE:HD11	0.551
6	C:68:PHE:N	C:196:ASP:HB3	0.551
6	C:275:SER:HB2	C:348:ILE:HA	0.551
6	D:55:LEU:HD13	D:76:ASP:OD1	0.551
6	D:292:PHE:CG	D:293:ASN:N	0.551

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:281:TRP:HH2	D:332:TRP:CZ3	0.551
6	A:182:TYR:HB3	B:14:LEU:HD11	0.550
6	A:319:LYS:HD3	A:319:LYS:N	0.550
6	C:45:LEU:HD21	C:245:ILE:HG23	0.550
6	C:71:GLU:HG2	C:72:GLY:N	0.550
6	C:135:MET:HE2	C:136:ASN:OD1	0.550
6	C:264:ASN:HD21	C:269:ALA:HB1	0.550
6	D:80:ILE:HD12	D:91:HIS:C	0.550
6	D:133:VAL:O	D:134:ARG:HB2	0.550
6	F:61:TYR:CD1	F:62:THR:N	0.550
6	A:182:TYR:CB	B:18:ALA:HB2	0.549
6	A:388:LEU:HD12	D:44:GLN:HB2	0.549
6	A:396:ARG:CZ	A:396:ARG:HB2	0.549
6	A:391:ARG:HH21	A:412:PRO:HB3	0.549
6	C:120:ALA:HB2	C:157:GLU:HG2	0.549
6	D:168:LEU:HB2	D:177:THR:CG2	0.549
6	C:264:ASN:ND2	F:62:THR:HG23	0.549
6	A:140:SER:HG	A:161:PHE:HE2	0.549
6	A:148:HIS:C	A:150:HIS:H	0.548
6	A:388:LEU:CD1	A:391:ARG:HD3	0.548
6	C:3:CYS:HB2	C:33:ASP:O	0.548
6	C:88:LYS:HB2	C:205:SER:N	0.548
6	C:180:ASP:CB	C:249:ALA:HB3	0.548

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:343:ASP:HA	C:346:LEU:HB3	0.548
6	D:7:LEU:O	D:7:LEU:HD13	0.548
6	D:70:LEU:O	D:81:ILE:HG22	0.548
6	D:123:ILE:HG12	D:124:TYR:N	0.548
6	C:88:LYS:CB	C:205:SER:N	0.547
6	C:127:ARG:O	C:128:VAL:HG23	0.547
6	C:301:VAL:CG1	C:305:LYS:HG2	0.547
6	D:12:GLU:HA	D:15:LYS:NZ	0.547
6	D:79:LEU:HB2	D:95:LEU:HD21	0.547
6	D:111:TYR:CE1	D:151:PHE:CE1	0.547
6	D:180:PHE:HD1	D:211:TRP:CZ3	0.547
6	F:21:LEU:CB	F:82:LEU:HD13	0.547
6	A:249:ILE:HA	A:253:VAL:HG23	0.546
6	C:55:THR:HA	C:223:ASP:CG	0.546
6	C:58:LYS:HB3	C:208:PHE:CD1	0.546
6	D:180:PHE:CZ	D:182:GLY:HA3	0.546
6	D:266:HIS:CD2	D:268:ASN:HB3	0.546
6	F:21:LEU:HD12	F:82:LEU:HD13	0.546
6	A:191:TRP:CZ3	B:22:PHE:CD1	0.545
6	A:326:LEU:O	A:326:LEU:HD13	0.545
6	A:398:ARG:O	A:399:LEU:HB3	0.545
6	C:73:GLY:HA2	C:201:ARG:NH2	0.545
6	C:75:GLU:HB3	C:89:ALA:HB1	0.545

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:292:ASN:CG	C:365:CYS:HB3	0.545
6	D:15:LYS:HA	D:18:ILE:HG23	0.545
6	D:137:ARG:HD3	D:172:GLU:H	0.545
6	F:37:TRP:CE2	F:82:LEU:HD12	0.545
6	A:207:PHE:CE2	A:274:TRP:HD1	0.544
6	A:257:PHE:CD1	A:289:PRO:HG3	0.544
6	A:395:GLU:CB	A:414:LYS:HB3	0.544
6	C:71:GLU:HB2	C:201:ARG:HE	0.544
6	D:19:ARG:HD3	D:26:ALA:O	0.544
6	D:54:HIS:CD2	D:82:TRP:HZZ	0.544
6	F:124:GLN:O	F:125:VAL:HB	0.544
6	A:413:LEU:H	F:106:ARG:NH2	0.544
6	C:248:VAL:N	C:292:ASN:N	0.544
6	A:139:ALA:O	A:143:LEU:HG	0.543
6	A:242:ILE:HG23	A:243:PHE:N	0.543
6	C:320:THR:OG1	C:321:PRO:HD2	0.543
6	D:32:GLN:HE21	F:2:GLN:HB2	0.543
6	F:21:LEU:HG	F:82:LEU:HD13	0.543
6	A:391:ARG:O	A:395:GLU:HG3	0.542
6	A:398:ARG:H	A:417:THR:HA	0.542
6	C:51:SER:HB3	C:177:TYR:CZ	0.542
6	C:100:LYS:HE3	C:146:PHE:CE2	0.542
6	C:70:GLY:N	C:200:CYS:HB3	0.542

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:207:ILE:CD1	C:208:PHE:H	0.542
6	C:248:VAL:HG21	C:265:ARG:NH2	0.542
6	C:315:PHE:CE1	C:318:TYR:CD2	0.542
6	D:225:HIS:CD2	D:227:SER:N	0.542
6	A:71:SER:C	A:73:PRO:HD2	0.541
6	A:142:ILE:HG23	A:379:TYR:OH	0.541
6	A:331:LEU:O	A:331:LEU:HD22	0.541
6	C:59:GLN:OE1	C:74:GLU:HB3	0.541
6	D:22:ARG:C	D:25:CYS:HB2	0.541
6	D:47:THR:HG23	D:335:PHE:CE2	0.541
6	D:234:PHE:CE2	D:241:PHE:HE2	0.541
6	A:166:LEU:O	A:166:LEU:HD23	0.540
6	A:242:ILE:O	A:246:TYR:HB2	0.540
6	A:243:PHE:O	A:246:TYR:HB3	0.540
6	B:25:TRP:CD1	B:31:GLY:HA2	0.540
6	C:26:ILE:HG12	C:30:LEU:CD2	0.540
6	C:26:ILE:HG23	C:27:GLU:N	0.540
6	C:74:GLU:O	C:198:LEU:HB2	0.540
6	D:261:LEU:HD22	E:30:VAL:HG23	0.540
6	D:337:LYS:HG3	D:337:LYS:O	0.540
6	F:40:GLN:NE2	F:42:PRO:HA	0.540
6	C:287:VAL:CG1	C:288:ILE:H	0.540
6	A:159:ASN:O	A:162:ALA:HB3	0.539

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:178:LEU:C	A:178:LEU:HD23	0.539
6	A:182:TYR:CD1	B:18:ALA:HA	0.539
6	C:2:GLY:C	D:55:LEU:HA	0.539
6	C:57:VAL:HG22	C:181:LYS:NZ	0.539
6	C:91:LYS:HD2	C:208:PHE:H	0.539
6	C:141:ASP:C	C:143:PRO:HD3	0.539
6	C:239:ASN:HB3	D:332:TRP:HE1	0.539
6	D:19:ARG:HG3	D:31:SER:CB	0.539
6	D:58:ILE:HD13	D:330:GLY:HA3	0.539
6	A:161:PHE:HE1	A:165:ILE:HG13	0.538
6	A:249:ILE:HA	A:253:VAL:CG2	0.538
6	A:395:GLU:HB3	A:414:LYS:HB3	0.538
6	B:19:ALA:O	B:20:LYS:HG2	0.538
6	C:273:PHE:HD1	C:277:TRP:CD1	0.538
6	C:301:VAL:HA	C:304:GLY:O	0.538
6	D:46:ARG:C	D:46:ARG:N	0.538
6	D:57:LYS:HE2	D:332:TRP:CZ3	0.538
6	D:304:ARG:HG3	D:304:ARG:O	0.538
6	E:46:LYS:HG2	E:46:LYS:O	0.538
6	A:31:PRO:CB	A:32:PRO:HD2	0.537
6	A:71:SER:N	A:73:PRO:HD3	0.537
6	A:377:ILE:C	A:379:TYR:H	0.537
6	C:44:LEU:C	C:44:LEU:HD13	0.537

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:85:ASP:O	C:94:ASP:HB2	0.537
6	C:184:VAL:HG21	C:293:LYS:CE	0.537
6	C:192:PRO:HG2	C:197:LEU:HD11	0.537
6	C:247:VAL:CG1	C:292:ASN:H	0.537
6	C:318:TYR:CD1	C:340:PHE:HD1	0.537
6	D:115:GLY:HA2	D:146:LEU:HD13	0.537
6	D:124:TYR:HE2	D:126:LEU:CG	0.537
6	D:190:LEU:HG	D:199:PHE:CE2	0.537
6	D:308:LEU:N	D:308:LEU:HD22	0.537
6	A:153:ARG:HA	A:156:ILE:HG12	0.536
6	A:182:TYR:HB2	B:18:ALA:HB2	0.536
6	A:250:GLY:O	A:254:PRO:HD2	0.536
6	C:71:GLU:HA	C:198:LEU:CD1	0.536
6	C:179:LEU:O	C:182:ILE:HG22	0.536
6	C:192:PRO:CB	C:197:LEU:HD11	0.536
6	D:51:LEU:HD13	D:82:TRP:CG	0.536
6	F:39:ARG:NE	F:127:VAL:HG23	0.536
6	C:88:LYS:HG2	C:91:LYS:HD3	0.535
6	D:83:ASP:HB2	D:90:VAL:HG22	0.535
6	E:9:ILE:O	E:9:ILE:HD13	0.535
6	E:32:LYS:H	E:32:LYS:HD2	0.535
6	A:143:LEU:CD1	A:158:LEU:HG	0.534
6	C:98:ASN:OD1	C:172:ILE:HD12	0.534

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:126:LEU:HD23	D:133:VAL:CG2	0.534
6	D:252:LEU:HD21	D:297:TRP:CH2	0.534
6	A:15:LYS:CB	A:65:TYR:HB2	0.533
6	A:182:TYR:CE2	B:17:GLN:HB3	0.533
6	A:198:GLN:HA	A:198:GLN:OE1	0.533
6	A:377:ILE:O	A:378:LEU:HB3	0.533
6	D:15:LYS:HB2	D:30:LEU:CD1	0.533
6	C:281:TRP:HZ2	D:314:ARG:CB	0.533
6	C:55:THR:CA	C:225:GLY:HA3	0.532
6	C:154:TRP:CE3	C:179:LEU:HD21	0.532
6	C:184:VAL:CB	C:293:LYS:HE2	0.532
6	F:70:THR:HG23	F:83:GLN:HB3	0.532
6	A:257:PHE:CE1	A:289:PRO:HG3	0.531
6	C:17:LYS:HG3	C:18:ALA:N	0.531
6	C:74:GLU:C	C:198:LEU:HG	0.531
6	C:80:ALA:O	C:81:ARG:HG3	0.531
6	C:178:PHE:O	C:181:LYS:HE3	0.531
6	C:184:VAL:HB	C:293:LYS:HE2	0.531
6	C:55:THR:O	C:208:PHE:HB2	0.531
6	C:239:ASN:HB3	D:332:TRP:NE1	0.531
6	C:282:LEU:C	C:282:LEU:HD13	0.531
6	D:226:GLU:OE1	D:247:ASP:HB2	0.531
6	D:273:ILE:HG22	D:289:TYR:HA	0.531

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:296:VAL:HG23	D:308:LEU:CD2	0.531
6	D:299:ALA:O	D:300:LEU:HB2	0.531
6	D:57:LYS:HZ1	D:316:SER:CB	0.531
6	A:43:PHE:HD1	A:48:CYS:HA	0.530
6	A:50:PRO:HG2	A:58:VAL:CG1	0.530
6	A:182:TYR:CD1	B:18:ALA:CB	0.530
6	A:358:PHE:HA	A:361:LEU:CD2	0.530
6	B:16:GLY:O	B:20:LYS:HG2	0.530
6	C:37:TYR:HB3	D:55:LEU:HD11	0.530
6	C:88:LYS:HD2	C:203:LEU:C	0.530
6	C:55:THR:N	C:225:GLY:HA3	0.530
6	D:55:LEU:HD22	D:56:ALA:HB2	0.530
6	D:57:LYS:CG	D:332:TRP:CD2	0.530
6	D:137:ARG:HD2	D:171:ILE:CG2	0.530
6	E:54:VAL:CG1	E:55:PRO:HD2	0.530
6	F:47:GLU:HB2	F:129:SER:CB	0.530
6	A:254:PRO:O	A:255:LEU:HB2	0.529
6	C:1:MET:HE1	D:53:GLY:H	0.529
6	C:75:GLU:CG	C:89:ALA:HB1	0.529
6	C:160:ARG:HD3	C:250:SER:O	0.529
6	C:181:LYS:CB	C:293:LYS:HE3	0.529
6	C:297:LEU:O	C:301:VAL:HG23	0.529
6	D:120:ILE:HG12	D:138:GLU:CD	0.529

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	F:125:VAL:HG22	F:126:THR:N	0.529
6	A:153:ARG:HD2	C:391:TYR:CB	0.528
6	A:244:ARG:HG3	A:244:ARG:HH11	0.528
6	C:46:LEU:HD13	C:294:GLN:HG3	0.528
6	C:180:ASP:CB	C:305:LYS:HD2	0.528
6	C:182:ILE:O	C:182:ILE:HG23	0.528
6	E:30:VAL:HG13	E:31:SER:N	0.528
6	F:68:ARG:HG3	F:86:SER:OG	0.528
6	F:69:PHE:HE1	F:71:ILE:CG1	0.528
6	A:33:PRO:HG3	A:38:PHE:CD1	0.527
6	A:122:TYR:O	A:126:THR:HG22	0.527
6	A:149:LEU:HG	C:390:GLN:HE22	0.527
6	A:182:TYR:CD1	A:183:SER:N	0.527
6	A:227:TYR:HB2	A:246:TYR:CE2	0.527
6	A:265:LYS:HD2	A:274:TRP:HB2	0.527
6	C:57:VAL:HG21	C:181:LYS:HG3	0.527
6	C:87:GLU:HA	C:87:GLU:OE1	0.527
6	C:301:VAL:CG2	C:305:LYS:HG2	0.527
6	D:2:SER:CB	E:6:THR:HG21	0.527
6	C:314:GLU:OE2	F:66:LYS:HD3	0.527
6	A:249:ILE:O	A:249:ILE:HG23	0.526
6	C:224:VAL:HG12	C:227:GLN:HB2	0.526
6	D:234:PHE:CD2	D:241:PHE:HE2	0.526

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:328:ALA:HB2	D:338:ILE:CD1	0.526
6	D:338:ILE:O	D:338:ILE:HG23	0.526
6	F:84:MET:SD	F:127:VAL:HG11	0.526
6	A:244:ARG:O	A:245:LEU:HB3	0.525
6	C:71:GLU:HG3	C:211:LYS:O	0.525
6	C:205:SER:C	C:207:ILE:H	0.525
6	C:270:LEU:HD12	F:48:TRP:HZ3	0.525
6	D:49:ARG:HG2	D:335:PHE:CD2	0.525
6	D:293:ASN:HD21	D:309:ALA:HA	0.525
6	E:1:MET:HA	F:1:MET:SD	0.525
6	A:220:TRP:CA	A:223:VAL:HG23	0.524
6	A:411:LYS:H	A:414:LYS:HE3	0.524
6	C:76:ASP:CB	C:77:PRO:HD2	0.524
6	C:244:ILE:O	C:244:ILE:HG22	0.524
6	C:330:GLU:HG2	C:331:ASP:N	0.524
6	D:296:VAL:HG11	D:305:ALA:O	0.524
6	C:281:TRP:HZ2	D:314:ARG:HB3	0.524
6	A:60:VAL:N	A:76:HIS:CD2	0.523
6	A:82:THR:HB	A:88:LEU:HD23	0.523
6	A:148:HIS:HA	D:46:ARG:C	0.523
6	A:182:TYR:CD2	B:14:LEU:HD22	0.523
6	A:305:ILE:HD13	A:333:LEU:HD13	0.523
6	C:80:ALA:HB1	C:87:GLU:N	0.523

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:99:LEU:HA	C:178:PHE:CG	0.523
6	C:127:ARG:NH2	C:153:LEU:HG	0.523
6	D:20:ASP:O	D:23:LYS:HA	0.523
6	D:188:MET:HG3	D:188:MET:O	0.523
6	D:270:ILE:HG21	F:104:PHE:CB	0.523
6	C:239:ASN:ND2	C:281:TRP:HE3	0.523
6	D:58:ILE:CG2	D:59:TYR:H	0.523
6	A:150:HIS:CE1	C:1:MET:SD	0.522
6	C:88:LYS:HG2	C:89:ALA:H	0.522
6	D:37:ILE:HD12	D:39:PRO:HB3	0.522
6	D:50:THR:HG23	D:51:LEU:HD23	0.522
6	D:69:LEU:HB3	D:83:ASP:CG	0.522
6	D:78:LYS:HE2	D:80:ILE:HG21	0.522
6	D:158:VAL:HG12	D:168:LEU:CD2	0.522
6	D:289:TYR:HB3	D:293:ASN:O	0.522
6	F:28:PHE:CG	F:29:THR:N	0.522
6	D:36:ASN:OD1	F:29:THR:HG21	0.522
6	C:267:GLN:NE2	C:294:GLN:HE22	0.522
6	A:41:ARG:HG3	A:51:ASP:HA	0.521
6	A:316:LEU:HD11	C:346:LEU:HD23	0.521
6	C:231:ARG:CZ	C:235:ILE:HB	0.521
6	D:78:LYS:HG2	D:80:ILE:HG22	0.521
6	D:168:LEU:HD12	D:178:THR:HG21	0.521

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:229:ILE:HG23	D:243:THR:OG1	0.521
6	F:82:LEU:HD22	F:83:GLN:N	0.521
6	D:155:ASN:N	D:155:ASN:HD22	0.521
6	A:255:LEU:HA	A:258:VAL:CG1	0.520
6	A:283:TRP:CZ2	B:5:THR:HG22	0.520
6	A:400:GLU:HB3	A:407:ASP:HB2	0.520
6	A:394:TRP:O	A:414:LYS:HB2	0.520
6	C:77:PRO:HB3	C:90:THR:HG21	0.520
6	C:207:ILE:CD1	C:208:PHE:HB2	0.520
6	D:120:ILE:CG1	D:138:GLU:HG2	0.520
6	B:1:HIS:CG	B:2:ALA:N	0.519
6	C:298:ALA:CA	C:301:VAL:HB	0.519
6	C:265:ARG:NH2	C:341:ILE:HD11	0.519
6	D:15:LYS:HD2	D:30:LEU:HB2	0.519
6	D:37:ILE:HB	F:32:ASN:CA	0.519
6	D:55:LEU:HD23	D:56:ALA:CB	0.519
6	D:93:ILE:CD1	D:124:TYR:HE1	0.519
6	E:65:LYS:HG3	E:66:PHE:N	0.519
6	A:329:SER:O	A:332:THR:HG22	0.518
6	C:249:ALA:C	C:305:LYS:HB2	0.518
6	D:117:LEU:O	D:117:LEU:HD13	0.518
6	D:213:VAL:O	D:214:ARG:HB3	0.518
6	D:222:PHE:CZ	D:260:GLU:HG2	0.518

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:121:LEU:C	A:121:LEU:HD13	0.517
6	A:178:LEU:HD21	B:14:LEU:CG	0.517
6	A:182:TYR:CE2	B:18:ALA:N	0.517
6	C:98:ASN:OD1	C:174:CYS:HB2	0.517
6	D:71:VAL:CG2	D:81:ILE:HG23	0.517
6	D:183:HIS:CD2	D:203:ALA:CB	0.517
6	C:154:TRP:CE3	C:179:LEU:CD1	0.516
6	C:201:ARG:HG2	C:202:VAL:N	0.516
6	C:277:TRP:CH2	F:53:SER:HA	0.516
6	D:128:THR:O	D:128:THR:HG23	0.516
6	D:284:LEU:HD21	D:296:VAL:HG13	0.516
6	D:47:THR:CB	D:47:THR:N	0.516
6	A:39:CYS:SG	A:81:CYS:HB3	0.515
6	A:140:SER:CB	A:161:PHE:HE2	0.515
6	A:142:ILE:CG2	A:379:TYR:HE2	0.515
6	A:146:PHE:O	A:147:ARG:HB2	0.515
6	A:223:VAL:HG12	A:246:TYR:CE1	0.515
6	A:410:MET:HE3	A:411:LYS:CD	0.515
6	A:239:GLU:OE2	C:34:LYS:HE3	0.515
6	C:49:GLY:C	C:58:LYS:HD2	0.515
6	C:102:ALA:HB2	C:172:ILE:CD1	0.515
6	C:135:MET:HG2	C:136:ASN:N	0.515
6	C:207:ILE:CG1	C:208:PHE:N	0.515

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:208:PHE:HD2	C:223:ASP:CB	0.515
6	C:239:ASN:ND2	C:281:TRP:CE3	0.515
6	D:93:ILE:HD12	D:124:TYR:CE1	0.515
6	C:297:LEU:O	C:301:VAL:N	0.515
6	A:120:PHE:O	A:121:LEU:HB3	0.514
6	A:240:GLN:HA	A:243:PHE:HB3	0.514
6	C:77:PRO:HB2	C:78:GLN:O	0.514
6	C:127:ARG:HE	C:153:LEU:HG	0.514
6	C:178:PHE:HA	C:181:LYS:HB3	0.514
6	C:274:ASP:HA	C:277:TRP:HB2	0.514
6	C:294:GLN:HB3	C:297:LEU:N	0.514
6	C:345:PHE:CE1	C:359:CYS:SG	0.514
6	D:32:GLN:HE21	F:2:GLN:CB	0.514
6	F:38:VAL:HB	F:96:TYR:CE2	0.514
6	F:30:PHE:HZ	F:73:ARG:HB2	0.514
6	C:154:TRP:H22	C:250:SER:CB	0.514
6	A:245:LEU:C	A:245:LEU:HD13	0.513
6	C:178:PHE:CG	C:179:LEU:N	0.513
6	D:45:MET:HB3	D:312:ASP:HB3	0.513
6	C:3:CYS:N	D:55:LEU:CB	0.513
6	D:123:ILE:HD12	D:171:ILE:HD13	0.513
6	D:281:SER:HB2	E:44:HIS:O	0.513
6	F:1:MET:HA	F:4:GLN:CD	0.513

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	F:52:ILE:CG1	F:73:ARG:HD2	0.513
6	A:76:HIS:CD2	A:77:VAL:N	0.512
6	A:212:TYR:HB2	A:258:VAL:HG21	0.512
6	A:153:ARG:NH1	A:228:LEU:HD23	0.512
6	A:231:LEU:HD21	C:392:GLU:HG3	0.512
6	A:277:ASN:HD21	A:283:TRP:HB2	0.512
6	C:153:LEU:O	C:159:VAL:HG11	0.512
6	C:248:VAL:HG22	C:297:LEU:HG	0.512
6	C:244:ILE:H	C:287:VAL:CG1	0.512
6	C:322:GLU:HA	C:322:GLU:OE1	0.512
6	D:237:ASN:HD21	D:239:ASN:CB	0.512
6	D:252:LEU:N	D:252:LEU:HD22	0.512
6	F:34:LYS:HB3	F:52:ILE:O	0.512
6	A:60:VAL:CG1	A:61:SER:H	0.512
6	A:156:ILE:CG2	A:246:TYR:CE1	0.511
6	A:222:LEU:CD2	A:226:VAL:HG23	0.511
6	B:1:HIS:O	B:2:ALA:HB3	0.511
6	C:36:VAL:CG2	C:37:TYR:CD1	0.511
6	C:270:LEU:HA	C:273:PHE:CZ	0.511
6	C:294:GLN:CG	C:297:LEU:H	0.511
6	D:45:MET:C	D:46:ARG:HG3	0.511
6	E:1:MET:N	F:1:MET:HE1	0.511
6	F:14:GLN:HG3	F:16:GLY:H	0.511

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:161:PHE:HE1	A:165:ILE:CG1	0.510
6	B:26:LEU:HD23	B:31:GLY:CA	0.510
6	C:43:LEU:HD13	C:243:ALA:O	0.510
6	C:322:GLU:O	C:323:ASP:HB2	0.510
6	A:221:LEU:O	A:221:LEU:HD13	0.509
6	C:56:ILE:HD13	C:84:SER:CB	0.509
6	C:147:TYR:O	C:148:GLU:HB3	0.509
6	C:181:LYS:NZ	C:185:ILE:HG21	0.509
6	D:118:ASP:O	D:119:ASN:HB2	0.509
6	D:124:TYR:CD2	D:133:VAL:HG11	0.509
6	D:248:ALA:HB1	D:269:ILE:HG22	0.509
6	D:296:VAL:CG2	D:308:LEU:HD21	0.509
6	F:61:TYR:CZ	F:65:VAL:HB	0.509
6	C:33:ASP:O	C:36:VAL:HG22	0.508
6	C:49:GLY:CA	C:184:VAL:HG11	0.508
6	C:62:ILE:HB	C:195:GLN:HB2	0.508
6	C:119:LEU:HB3	C:156:ASP:OD1	0.508
6	C:178:PHE:HB2	C:181:LYS:CE	0.508
6	C:302:LEU:C	C:304:GLY:N	0.508
6	C:305:LYS:C	C:307:LYS:N	0.508
6	C:367:VAL:O	C:368:ASP:HB2	0.508
6	D:31:SER:O	D:32:GLN:HG3	0.508
6	D:120:ILE:CD1	D:140:ALA:HA	0.508

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:222:PHE:HE2	D:251:ARG:CZ	0.508
6	D:311:HIS:CE1	D:337:LYS:HG2	0.508
6	E:6:THR:O	E:7:ALA:HB2	0.508
6	F:19:LEU:HD12	F:125:VAL:HG21	0.508
6	F:30:PHE:CD2	F:75:ASN:HA	0.508
6	D:293:ASN:HD21	D:309:ALA:N	0.508
6	A:72:VAL:N	A:73:PRO:CD	0.507
6	A:114:PRO:HG2	A:117:GLN:NE2	0.507
6	A:221:LEU:HD21	A:337:LEU:C	0.507
6	C:169:TYR:CG	C:170:GLN:N	0.507
6	C:147:TYR:HE1	C:183:ASP:HA	0.507
6	C:278:ASN:HB3	F:106:ARG:HE	0.507
6	D:54:HIS:HB2	D:334:SER:CB	0.507
6	C:6:ASN:HD21	D:94:PRO:HD2	0.507
6	D:226:GLU:HG3	F:28:PHE:CE1	0.507
6	D:269:ILE:HG12	D:289:TYR:CZ	0.507
6	F:18:SER:HB2	F:85:ASN:ND2	0.507
6	F:38:VAL:CG1	F:96:TYR:CE2	0.507
6	A:344:PHE:O	A:348:MET:HB3	0.506
6	C:51:SER:CB	C:54:ASN:CB	0.506
6	C:315:PHE:O	C:318:TYR:HB3	0.506
6	D:56:ALA:CB	D:75:GLN:HB3	0.506
6	D:103:CYS:SG	D:114:CYS:HB3	0.506

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:150:ARG:HD3	D:192:LEU:CD1	0.506
6	D:202:GLY:O	D:203:ALA:HB2	0.506
6	D:251:ARG:HD3	D:251:ARG:N	0.506
6	E:46:LYS:HD3	E:46:LYS:N	0.506
6	D:35:ASN:N	F:28:PHE:CE1	0.506
6	F:52:ILE:HD11	F:56:GLY:C	0.506
6	C:281:TRP:HD1	D:44:GLN:HE22	0.506
6	A:231:LEU:HD21	C:392:GLU:CD	0.505
6	A:308:VAL:O	A:312:LEU:HD12	0.505
6	A:182:TYR:CZ	B:18:ALA:HA	0.505
6	C:283:ARG:C	C:283:ARG:CB	0.505
6	C:288:ILE:HG12	C:290:PHE:HE1	0.505
6	C:249:ALA:O	C:307:LYS:HA	0.505
6	D:13:GLN:O	D:14:LEU:HB2	0.505
6	D:126:LEU:H	D:133:VAL:CG1	0.505
6	F:34:LYS:HG2	F:53:SER:C	0.505
6	F:69:PHE:HE1	F:71:ILE:HG12	0.505
6	A:160:LEU:CD2	A:220:TRP:HB3	0.504
6	C:88:LYS:HA	C:91:LYS:HB3	0.504
6	C:255:MET:HG2	C:256:VAL:H	0.504
6	C:305:LYS:C	C:307:LYS:HA	0.504
6	D:55:LEU:O	D:56:ALA:HB3	0.504
6	D:78:LYS:HE2	D:80:ILE:HB	0.504

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:222:PHE:CE1	D:260:GLU:CG	0.504
6	D:311:HIS:CD2	D:337:LYS:NZ	0.504
6	F:69:PHE:CZ	F:82:LEU:CD2	0.504
6	C:262:GLN:H	F:128:SER:CB	0.504
6	A:160:LEU:HG	A:220:TRP:CB	0.503
6	A:178:LEU:HD23	B:14:LEU:HG	0.503
6	C:4:LEU:CA	C:30:LEU:HD22	0.503
6	C:49:GLY:HA2	C:184:VAL:HG13	0.503
6	C:157:GLU:CD	C:157:GLU:H	0.503
6	C:301:VAL:HG21	C:305:LYS:HG2	0.503
6	D:235:PHE:CG	D:236:PRO:CD	0.503
6	D:269:ILE:CG2	D:289:TYR:CE1	0.503
6	D:294:CYS:O	D:308:LEU:HD23	0.503
6	F:96:TYR:CD1	F:96:TYR:N	0.503
6	A:120:PHE:CD1	A:121:LEU:N	0.502
6	A:311:LYS:HD2	C:384:GLN:OE1	0.502
6	C:142:PHE:CZ	C:147:TYR:N	0.502
6	C:182:ILE:O	C:183:ASP:HB2	0.502
6	C:71:GLU:N	C:197:LEU:HD23	0.502
6	D:61:MET:HE1	D:328:ALA:O	0.502
6	D:128:THR:HG21	D:132:ASN:O	0.502
6	D:225:HIS:NE2	D:245:SER:HB2	0.502
6	F:35:MET:HG3	F:36:ASN:H	0.502

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:219:TYR:CD2	A:254:PRO:HG3	0.501
6	A:45:GLU:OE2	B:26:LEU:HB3	0.501
6	C:26:ILE:O	C:30:LEU:HG	0.501
6	C:88:LYS:CD	C:89:ALA:N	0.501
6	C:208:PHE:CE1	C:210:THR:HG21	0.501
6	D:47:THR:HG21	D:333:ASP:HB3	0.501
6	D:120:ILE:HG13	D:138:GLU:HG2	0.501
6	D:158:VAL:CG1	D:168:LEU:HD22	0.501
6	D:241:PHE:HE1	D:255:LEU:CD2	0.501
6	F:52:ILE:HD13	F:59:ILE:CG2	0.501
6	D:246:ASP:OD2	F:102:ALA:HB2	0.501
6	E:3:SER:H	F:115:THR:CG2	0.501
6	A:71:SER:HB2	A:108:ARG:HD2	0.500
6	A:136:LEU:CD1	A:164:PHE:CD1	0.500
6	A:219:TYR:CD1	A:254:PRO:HG3	0.500
6	C:43:LEU:HD23	C:219:PHE:CE2	0.500
6	C:169:TYR:CD2	C:170:GLN:N	0.500
6	C:177:TYR:CG	C:298:ALA:CB	0.500
6	D:124:TYR:CE1	D:133:VAL:CG1	0.500
6	D:139:LEU:CD2	D:169:TRP:CZ3	0.500
6	D:190:LEU:CD1	D:199:PHE:CE2	0.500
6	D:183:HIS:ND1	D:207:SER:HB3	0.500
6	C:277:TRP:HZ3	F:53:SER:HB3	0.500

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:394:TRP:HE3	A:415:CYS:SG	0.500
6	A:46:TYR:OH	A:63:PRO:HD2	0.499
6	A:102:GLU:HA	A:102:GLU:OE2	0.499
6	A:214:VAL:HG13	A:218:TYR:CE1	0.499
6	A:411:LYS:HD3	A:414:LYS:CE	0.499
6	C:59:GLN:HG3	C:186:LYS:N	0.499
6	C:81:ARG:C	C:84:SER:H	0.499
6	C:180:ASP:CG	C:250:SER:H	0.499
6	C:189:ASP:OD2	C:193:SER:HA	0.499
6	C:243:ALA:C	C:244:ILE:HD12	0.499
6	C:248:VAL:HG12	C:249:ALA:N	0.499
6	A:384:ASN:ND2	D:45:MET:HE2	0.499
6	D:71:VAL:CA	D:81:ILE:HG23	0.499
6	C:24:LYS:HA	C:27:GLU:HG2	0.498
6	D:80:ILE:HD11	D:89:LYS:HB3	0.498
6	D:226:GLU:CB	F:28:PHE:CD1	0.498
6	C:46:LEU:HD22	C:51:SER:HA	0.497
6	C:219:PHE:CE1	C:221:MET:HG2	0.497
6	C:247:VAL:CG1	C:292:ASN:CA	0.497
6	D:28:ALA:HB2	F:26:SER:HB2	0.497
6	D:327:VAL:O	D:327:VAL:HG13	0.497
6	C:80:ALA:CB	C:86:GLY:H	0.497
6	A:16:TRP:CG	A:17:ARG:N	0.496

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:121:LEU:HD21	A:365:LEU:CD1	0.496
6	A:294:ILE:HB	A:342:VAL:CG1	0.496
6	A:312:LEU:HD21	A:325:ARG:HB3	0.496
6	A:387:GLN:HA	A:387:GLN:OE1	0.496
6	C:61:ARG:CG	C:62:ILE:N	0.496
6	C:65:VAL:O	C:65:VAL:HG23	0.496
6	C:55:THR:H	C:225:GLY:CA	0.496
6	C:238:PHE:CD2	C:244:ILE:CG1	0.496
6	C:332:PRO:HB2	C:336:ARG:NE	0.496
6	D:70:LEU:C	D:70:LEU:HD13	0.496
6	D:120:ILE:HG13	D:138:GLU:CG	0.496
6	D:264:TYR:CD1	D:297:TRP:CD1	0.496
6	A:2:PRO:O	A:3:GLN:HB2	0.495
6	A:216:ALA:CB	A:220:TRP:CZ3	0.495
6	C:290:PHE:HA	C:362:HIS:O	0.495
6	C:299:GLU:HG2	F:112:THR:HG23	0.495
6	D:135:VAL:O	D:136:SER:HB3	0.495
6	D:157:ILE:HG12	D:158:VAL:N	0.495
6	E:29:LYS:HB2	E:32:LYS:HZ3	0.495
6	D:150:ARG:CG	D:151:PHE:H	0.495
6	A:18:GLU:CD	A:19:TYR:H	0.494
6	A:107:LYS:O	A:108:ARG:HG2	0.494
6	A:305:ILE:HG13	A:308:VAL:CG1	0.494

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:385:GLU:O	A:389:GLU:HB2	0.494
6	C:60:MET:C	C:74:GLU:HB2	0.494
6	C:110:MET:HB3	C:162:CYS:SG	0.494
6	C:115:PRO:HB3	C:116:PRO:HD2	0.494
6	C:140:PHE:CE2	C:142:PHE:HA	0.494
6	C:151:LYS:HB2	C:182:ILE:HG23	0.494
6	C:219:PHE:CE1	C:221:MET:CG	0.494
6	D:69:LEU:HD12	D:83:ASP:OD2	0.494
6	D:93:ILE:HG12	D:94:PRO:N	0.494
6	D:101:MET:HE2	D:188:MET:HE1	0.494
6	D:146:LEU:HD21	D:159:THR:OG1	0.494
6	D:158:VAL:O	D:158:VAL:HG23	0.494
6	D:292:PHE:CG	D:311:HIS:CB	0.494
6	E:5:ASN:O	E:6:THR:HG23	0.494
6	F:68:ARG:HD2	F:85:ASN:CB	0.494
6	A:11:GLU:HA	A:11:GLU:OE2	0.493
6	A:83:ALA:O	A:84:GLU:HB2	0.493
6	A:142:ILE:HG21	A:379:TYR:HE2	0.493
6	A:142:ILE:O	A:145:GLY:HA3	0.493
6	A:201:LEU:CD2	A:204:ARG:HH11	0.493
6	A:155:TYR:CE2	A:247:VAL:HG21	0.493
6	C:127:ARG:HG3	C:149:HIS:HA	0.493
6	C:178:PHE:CD1	C:179:LEU:N	0.493

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:247:VAL:HG21	C:290:PHE:HB2	0.493
6	C:265:ARG:HA	C:310:ASP:OD2	0.493
6	D:11:ALA:O	D:12:GLU:HB3	0.493
6	D:259:GLN:CG	D:260:GLU:H	0.493
6	D:225:HIS:HD2	D:227:SER:O	0.493
6	A:76:HIS:CG	A:77:VAL:H	0.492
6	A:218:TYR:CB	A:290:ILE:HD11	0.492
6	A:397:TRP:C	A:415:CYS:HA	0.492
6	C:56:ILE:CD1	C:84:SER:CB	0.492
6	C:154:TRP:CZ2	C:250:SER:CA	0.492
6	C:238:PHE:CD2	C:244:ILE:HD11	0.492
6	D:71:VAL:HG11	D:79:LEU:HD11	0.492
6	F:102:ALA:HB1	F:103:PRO:CD	0.492
6	A:65:TYR:CE1	A:66:LEU:CD1	0.491
6	B:20:LYS:O	B:21:GLU:HB3	0.491
6	C:45:LEU:HD22	C:245:ILE:CB	0.491
6	C:74:GLU:HG2	C:198:LEU:HD21	0.491
6	C:62:ILE:CB	C:195:GLN:HB3	0.491
6	C:82:SER:OG	C:207:ILE:HG23	0.491
6	D:46:ARG:CA	D:46:ARG:O	0.491
6	D:99:TRP:CE3	D:117:LEU:CB	0.491
6	D:169:TRP:CZ2	D:174:GLY:CA	0.491
6	C:264:ASN:HD21	F:62:THR:HA	0.491

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:150:HIS:CG	A:151:CYS:N	0.490
6	A:166:LEU:HD23	A:213:CYS:SG	0.490
6	A:226:VAL:HG12	A:227:TYR:N	0.490
6	A:283:TRP:CZ2	B:5:THR:CG2	0.490
6	A:364:GLU:HA	A:364:GLU:OE2	0.490
6	A:386:VAL:HB	A:390:PHE:CE2	0.490
6	C:102:ALA:HB2	C:172:ILE:HG12	0.490
6	D:28:ALA:HA	F:26:SER:CB	0.490
6	D:50:THR:HG22	D:51:LEU:CD2	0.490
6	D:139:LEU:HD23	D:140:ALA:O	0.490
6	D:173:THR:HG23	D:175:GLN:H	0.490
6	F:33:TYR:HE1	F:35:MET:CE	0.490
6	A:261:TRP:CE3	A:286:ILE:CG2	0.489
6	A:316:LEU:O	A:316:LEU:HD13	0.489
6	A:326:LEU:C	A:326:LEU:HD13	0.489
6	A:343:ILE:HD11	A:347:VAL:HG23	0.489
6	A:367:PHE:CE2	A:371:GLN:HG2	0.489
6	A:411:LYS:N	A:414:LYS:HE3	0.489
6	C:88:LYS:CG	C:89:ALA:N	0.489
6	C:95:ILE:O	C:95:ILE:HG23	0.489
6	C:114:VAL:O	C:114:VAL:HG23	0.489
6	C:177:TYR:CD1	C:298:ALA:CB	0.489
6	C:208:PHE:HB3	C:223:ASP:CB	0.489

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:307:LYS:HB3	C:309:GLU:N	0.489
6	C:1:MET:SD	C:394:LEU:HG	0.489
6	D:63:TRP:CE3	D:70:LEU:CD2	0.489
6	D:165:THR:O	D:165:THR:HG23	0.489
6	D:186:ASP:O	D:203:ALA:HA	0.489
6	F:39:ARG:HD3	F:49:VAL:CG2	0.489
6	F:39:ARG:HD3	F:49:VAL:HG21	0.489
6	D:132:ASN:ND2	D:133:VAL:H	0.489
6	A:10:TRP:CE3	A:198:GLN:HG2	0.488
6	A:288:LEU:HD13	A:289:PRO:CA	0.488
6	C:115:PRO:CB	C:116:PRO:HD2	0.488
6	C:331:ASP:HB2	C:332:PRO:C	0.488
6	C:335:THR:HG23	C:339:TYR:HE1	0.488
6	D:30:LEU:HD22	D:31:SER:HB3	0.488
6	D:45:MET:HB2	D:312:ASP:O	0.488
6	D:46:ARG:C	D:46:ARG:HA	0.488
6	D:124:TYR:CZ	D:133:VAL:CG1	0.488
6	E:15:LEU:N	E:15:LEU:HD12	0.488
6	F:34:LYS:H22	F:54:GLN:HG3	0.488
6	F:70:THR:HG22	F:83:GLN:HB3	0.488
6	A:140:SER:CB	A:161:PHE:CE2	0.487
6	A:219:TYR:OH	A:289:PRO:HB2	0.487
6	A:312:LEU:HD21	A:325:ARG:CG	0.487

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:4:LEU:HD23	D:78:LYS:HB2	0.487
6	C:67:GLY:CA	C:196:ASP:HA	0.487
6	C:67:GLY:HA3	C:199:ARG:HE	0.487
6	C:207:ILE:HD12	C:208:PHE:CB	0.487
6	C:58:LYS:CD	C:208:PHE:CE2	0.487
6	C:217:VAL:HG21	C:376:PHE:CZ	0.487
6	C:261:ASN:HB2	F:91:ASP:CB	0.487
6	C:273:PHE:CB	F:60:SER:HB3	0.487
6	D:198:LEU:N	D:198:LEU:HD23	0.487
6	F:15:PRO:HB3	F:89:PRO:CD	0.487
6	C:263:THR:N	F:64:SER:CB	0.487
6	F:54:GLN:HE22	F:104:PHE:HD1	0.487
6	A:73:PRO:O	A:74:GLN:HB2	0.486
6	C:107:VAL:HG13	C:110:MET:CE	0.486
6	C:147:TYR:CD1	C:182:ILE:HG12	0.486
6	C:178:PHE:C	C:178:PHE:CD1	0.486
6	C:229:ASP:HA	C:295:ASP:OD2	0.486
6	C:299:GLU:CD	F:112:THR:HG23	0.486
6	D:51:LEU:HD13	D:82:TRP:HB3	0.486
6	D:329:THR:O	D:336:LEU:HD12	0.486
6	F:28:PHE:HD2	F:33:TYR:CD2	0.486
6	C:263:THR:N	F:64:SER:HB3	0.486
6	A:65:TYR:CD1	A:66:LEU:CD1	0.485

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:300:ILE:C	A:300:ILE:HD12	0.485
6	C:81:ARG:CA	C:84:SER:H	0.485
6	C:157:GLU:HB2	C:254:ASN:CG	0.485
6	C:247:VAL:CG1	C:292:ASN:CB	0.485
6	C:154:TRP:HE1	C:250:SER:CA	0.485
6	C:294:GLN:CB	C:297:LEU:H	0.485
6	C:321:PRO:O	C:322:GLU:HB2	0.485
6	C:246:PHE:HZ	C:294:GLN:NE2	0.485
6	D:33:ILE:CG1	D:34:THR:H	0.485
6	A:16:TRP:C	A:18:GLU:H	0.484
6	A:225:GLY:HA2	A:228:LEU:CD1	0.484
6	A:299:LEU:HD12	A:300:ILE:CA	0.484
6	A:387:GLN:O	A:388:LEU:HB2	0.484
6	C:238:PHE:HD2	C:244:ILE:HD11	0.484
6	D:60:ALA:HA	D:317:CYS:SG	0.484
6	D:59:TYR:O	D:60:ALA:HB2	0.484
6	F:13:VAL:HB	F:87:LEU:HD12	0.484
6	F:36:ASN:HB3	F:51:ASP:HA	0.484
6	F:38:VAL:HG12	F:39:ARG:N	0.484
6	F:52:ILE:HG12	F:73:ARG:CD	0.484
6	F:82:LEU:CD2	F:83:GLN:N	0.484
6	A:66:LEU:O	A:69:ALA:HB2	0.483
6	A:201:LEU:HD23	A:204:ARG:HB3	0.483

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:266:TYR:CD2	A:267:LEU:HD12	0.483
6	C:52:GLY:HA3	C:295:ASP:HB2	0.483
6	C:59:GLN:CB	C:186:LYS:N	0.483
6	C:88:LYS:HG2	C:91:LYS:HE2	0.483
6	C:110:MET:O	C:111:SER:HB2	0.483
6	D:57:LYS:CD	D:59:TYR:N	0.483
6	D:69:LEU:N	D:69:LEU:HD13	0.483
6	D:80:ILE:HD12	D:91:HIS:O	0.483
6	D:107:PRO:HD2	D:151:PHE:HD2	0.483
6	A:344:PHE:HD1	A:348:MET:SD	0.483
6	A:379:TYR:O	A:380:CYS:HB3	0.482
6	C:4:LEU:HD12	C:5:GLY:N	0.482
6	C:55:THR:HG23	C:56:ILE:N	0.482
6	C:88:LYS:HG2	C:91:LYS:CD	0.482
6	C:246:PHE:C	C:247:VAL:CG2	0.482
6	D:22:ARG:CA	D:25:CYS:HB2	0.482
6	D:22:ARG:HB2	D:25:CYS:CB	0.482
6	D:47:THR:CG2	D:48:ARG:N	0.482
6	D:120:ILE:CG1	D:138:GLU:CG	0.482
6	C:281:TRP:HZ2	D:314:ARG:CD	0.482
6	C:56:ILE:CG1	C:84:SER:HB3	0.481
6	C:247:VAL:HG22	C:290:PHE:CB	0.481
6	C:296:LEU:HG	C:300:LYS:HD3	0.481

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:126:LEU:HA	D:133:VAL:CG2	0.481
6	D:190:LEU:HD11	D:199:PHE:HE2	0.481
6	F:38:VAL:HG12	F:96:TYR:OH	0.481
6	A:146:PHE:HE1	A:383:ASN:HB2	0.480
6	C:127:ARG:NE	C:153:LEU:HG	0.480
6	C:49:GLY:H	C:184:VAL:HG11	0.480
6	C:44:LEU:H	C:241:VAL:HG11	0.480
6	C:288:ILE:CG1	C:290:PHE:HE1	0.480
6	D:128:THR:OG1	D:130:GLU:HG2	0.480
6	D:292:PHE:CE1	D:315:VAL:CG1	0.480
6	C:44:LEU:C	C:45:LEU:HD23	0.479
6	C:57:VAL:HG23	C:95:ILE:HG21	0.479
6	C:99:LEU:HD21	C:182:ILE:HD12	0.479
6	C:264:ASN:CG	C:269:ALA:HB2	0.479
6	C:247:VAL:O	C:297:LEU:HD12	0.479
6	C:302:LEU:O	C:302:LEU:HD22	0.479
6	D:126:LEU:HA	D:133:VAL:HG21	0.479
6	F:35:MET:CG	F:80:LEU:HD13	0.479
6	C:287:VAL:CG1	C:288:ILE:N	0.479
6	A:41:ARG:HD3	A:41:ARG:N	0.478
6	A:245:LEU:HA	A:248:SER:OG	0.478
6	C:56:ILE:HG21	C:82:SER:O	0.478
6	C:307:LYS:O	C:310:ASP:HB2	0.478

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:14:LEU:HB3	E:19:LEU:HD23	0.478
6	D:49:ARG:HB2	D:335:PHE:HB3	0.478
6	D:206:ALA:HB1	D:225:HIS:HB3	0.478
6	E:59:ASN:HD21	E:60:PRO:HG3	0.478
6	D:148:CYS:SG	D:149:CYS:N	0.478
6	D:221:THR:O	D:221:THR:HG23	0.478
6	A:147:ARG:HG3	A:383:ASN:CG	0.477
6	A:153:ARG:CA	A:156:ILE:HG12	0.477
6	C:30:LEU:HD11	D:78:LYS:NZ	0.477
6	C:86:GLY:HA2	C:90:THR:HG21	0.477
6	C:68:PHE:O	C:199:ARG:HB3	0.477
6	D:34:THR:CG2	F:29:THR:N	0.477
6	D:137:ARG:CD	D:172:GLU:H	0.477
6	D:150:ARG:HG2	D:151:PHE:N	0.477
6	D:237:ASN:ND2	D:239:ASN:HB2	0.477
6	F:14:GLN:HG3	F:16:GLY:C	0.477
6	A:18:GLU:C	A:20:ARG:H	0.476
6	A:84:GLU:OE2	A:86:LEU:HD12	0.476
6	A:173:ILE:HG23	A:174:LYS:N	0.476
6	C:76:ASP:HA	C:90:THR:CA	0.476
6	C:96:LYS:HB3	C:185:ILE:HD11	0.476
6	C:190:TYR:CB	C:212:PHE:CZ	0.476
6	C:301:VAL:HG11	C:305:LYS:HG2	0.476

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:249:ALA:O	C:305:LYS:HB2	0.476
6	C:306:SER:O	C:307:LYS:HE2	0.476
6	C:4:LEU:CB	D:78:LYS:HB2	0.476
6	A:68:TRP:NE1	A:108:ARG:CG	0.475
6	A:219:TYR:O	A:223:VAL:HG23	0.475
6	C:97:ASN:O	C:98:ASN:HB3	0.475
6	C:146:PHE:O	C:150:ALA:HB2	0.475
6	C:236:GLN:HA	C:236:GLN:OE1	0.475
6	C:278:ASN:ND2	C:282:LEU:HG	0.475
6	C:246:PHE:HD1	C:289:LEU:CD2	0.475
6	D:234:PHE:CD1	D:234:PHE:N	0.475
6	D:328:ALA:CB	D:336:LEU:HD11	0.475
6	F:49:VAL:CG1	F:61:TYR:CZ	0.475
6	A:227:TYR:CB	A:246:TYR:HE2	0.475
6	F:73:ARG:N	F:73:ARG:NE	0.475
6	A:219:TYR:CG	A:254:PRO:CG	0.474
6	A:336:LEU:C	A:336:LEU:HD22	0.474
6	A:396:ARG:O	A:417:THR:HG22	0.474
6	C:34:LYS:HD2	C:394:LEU:HB3	0.474
6	C:69:ASN:CA	C:200:CYS:CB	0.474
6	C:80:ALA:CB	C:87:GLU:N	0.474
6	C:181:LYS:HA	C:293:LYS:CE	0.474
6	C:266:LEU:HD22	C:269:ALA:HB3	0.474

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:22:ARG:CZ	D:25:CYS:SG	0.474
6	D:139:LEU:HD12	D:169:TRP:CG	0.474
6	D:188:MET:CA	D:188:MET:HE3	0.474
6	D:191:SER:C	D:234:PHE:CE1	0.474
6	D:248:ALA:HB3	D:269:ILE:O	0.474
6	F:21:LEU:CD1	F:95:TYR:CD2	0.474
6	A:103:CYS:SG	A:104:GLU:N	0.474
6	A:100:LEU:CD2	A:103:CYS:SG	0.473
6	A:143:LEU:CD2	A:379:TYR:CZ	0.473
6	A:209:LEU:CD2	A:213:CYS:SG	0.473
6	A:373:LEU:C	A:373:LEU:HD22	0.473
6	B:26:LEU:HD23	B:31:GLY:HA3	0.473
6	C:50:GLU:HG2	C:51:SER:N	0.473
6	C:75:GLU:HA	C:195:GLN:HE22	0.473
6	C:75:GLU:HB3	C:89:ALA:CB	0.473
6	C:289:LEU:CD1	C:291:LEU:H	0.473
6	D:117:LEU:C	D:117:LEU:HD13	0.473
6	F:34:LYS:CG	F:53:SER:HA	0.473
6	C:359:CYS:SG	C:360:TYR:N	0.473
6	A:167:ARG:HA	A:213:CYS:HB3	0.472
6	A:216:ALA:O	A:217:ASN:HB3	0.472
6	A:125:TYR:HE2	B:3:GLU:HG3	0.472
6	C:50:GLU:HG3	C:223:ASP:CA	0.472

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:294:GLN:N	C:297:LEU:CB	0.472
6	D:28:ALA:HB2	F:26:SER:O	0.472
6	D:99:TRP:CE3	D:117:LEU:HB2	0.472
6	F:7:GLU:HB3	F:95:TYR:OH	0.472
6	F:37:TRP:NE1	F:95:TYR:HB2	0.472
6	E:46:LYS:CD	E:46:LYS:H	0.472
6	A:180:TRP:HA	A:184:THR:HG21	0.471
6	A:194:LEU:C	A:194:LEU:HD22	0.471
6	A:281:ASN:HA	A:284:LEU:HG	0.471
6	C:181:LYS:H22	C:185:ILE:HG21	0.471
6	C:293:LYS:CB	C:293:LYS:O	0.471
6	D:28:ALA:CB	F:26:SER:CB	0.471
6	D:270:ILE:O	D:270:ILE:HG23	0.471
6	F:79:THR:O	F:79:THR:HG23	0.471
6	A:33:PRO:CG	A:38:PHE:CD2	0.470
6	A:180:TRP:HA	A:184:THR:CG2	0.470
6	A:214:VAL:O	A:215:ALA:HB2	0.470
6	A:343:ILE:HD12	A:347:VAL:CG2	0.470
6	C:59:GLN:CB	C:186:LYS:H	0.470
6	C:98:ASN:HD21	C:174:CYS:HB2	0.470
6	C:264:ASN:ND2	C:269:ALA:CB	0.470
6	D:47:THR:HG21	D:333:ASP:CB	0.470
6	D:57:LYS:C	D:57:LYS:HD3	0.470

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:95:LEU:HD11	D:114:CYS:SG	0.470
6	D:149:CYS:SG	D:157:ILE:CG1	0.470
6	D:311:HIS:CG	D:337:LYS:HE2	0.470
6	D:292:PHE:HE1	D:315:VAL:CG2	0.470
6	F:15:PRO:CA	F:89:PRO:HD3	0.470
6	A:166:LEU:CD2	A:213:CYS:SG	0.469
6	A:212:TYR:CD1	A:255:LEU:CD2	0.469
6	A:394:TRP:CZ3	A:397:TRP:HZ3	0.469
6	A:411:LYS:CG	A:412:PRO:CD	0.469
6	C:53:LYS:CG	C:174:CYS:SG	0.469
6	C:59:GLN:CG	C:60:MET:N	0.469
6	C:73:GLY:O	C:74:GLU:HG2	0.469
6	C:56:ILE:CD1	C:91:LYS:HA	0.469
6	C:227:GLN:CG	C:231:ARG:HD2	0.469
6	C:271:LYS:HG2	C:285:THR:CG2	0.469
6	C:285:THR:O	C:285:THR:HG22	0.469
6	C:333:ARG:O	C:337:ALA:HB2	0.469
6	D:183:HIS:CE1	D:207:SER:CB	0.469
6	D:57:LYS:HZ3	D:332:TRP:HE3	0.469
6	C:26:ILE:CG2	C:27:GLU:N	0.469
6	C:207:ILE:CD1	C:208:PHE:N	0.469
6	D:132:ASN:ND2	D:133:VAL:N	0.469
6	D:276:VAL:HG12	D:277:SER:N	0.469

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:143:LEU:HD21	A:379:TYR:CZ	0.468
6	A:182:TYR:CD1	B:18:ALA:CA	0.468
6	A:195:LEU:HD12	A:196:SER:N	0.468
6	A:216:ALA:CA	A:220:TRP:CZ3	0.468
6	A:216:ALA:HB1	A:220:TRP:CZ3	0.468
6	A:217:ASN:O	A:218:TYR:HB2	0.468
6	A:153:ARG:NH1	A:228:LEU:CD2	0.468
6	A:276:ARG:C	A:276:ARG:HD3	0.468
6	C:82:SER:H	C:84:SER:HB2	0.468
6	C:85:ASP:N	C:94:ASP:CG	0.468
6	C:182:ILE:HA	C:185:ILE:CG2	0.468
6	C:205:SER:OG	C:207:ILE:HA	0.468
6	C:58:LYS:CD	C:208:PHE:CZ	0.468
6	C:154:TRP:HE1	C:250:SER:C	0.468
6	E:54:VAL:CG1	E:55:PRO:N	0.468
6	F:40:GLN:C	F:93:ALA:HB1	0.468
6	A:104:GLU:HA	A:104:GLU:OE1	0.468
6	A:49:TRP:CZ2	A:58:VAL:CG2	0.467
6	A:60:VAL:CG2	A:76:HIS:NE2	0.467
6	A:93:SER:O	A:94:SER:HB3	0.467
6	A:136:LEU:HB3	A:161:PHE:CE1	0.467
6	A:296:VAL:HA	A:299:LEU:CD2	0.467
6	A:423:GLY:O	A:424:ALA:HB2	0.467

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:182:TYR:HE2	B:17:GLN:HB3	0.467
6	C:55:THR:CG2	C:56:ILE:N	0.467
6	C:82:SER:CB	C:207:ILE:CG2	0.467
6	C:232:ARG:C	C:232:ARG:HD2	0.467
6	C:3:CYS:SG	D:55:LEU:HD12	0.467
6	D:278:PHE:CD2	D:285:LEU:HD23	0.467
6	E:1:MET:HE1	F:1:MET:H1	0.467
6	D:35:ASN:O	F:29:THR:HB	0.467
6	F:21:LEU:O	F:82:LEU:HB3	0.467
6	A:9:LEU:HB2	B:19:ALA:CB	0.466
6	A:41:ARG:HH11	A:51:ASP:CG	0.466
6	C:57:VAL:CG1	C:58:LYS:HA	0.466
6	C:86:GLY:HA2	C:90:THR:CG2	0.466
6	C:135:MET:CG	C:136:ASN:N	0.466
6	C:49:GLY:N	C:184:VAL:HG11	0.466
6	C:239:ASN:HB2	C:281:TRP:CZ3	0.466
6	C:241:VAL:HG12	C:243:ALA:O	0.466
6	C:247:VAL:HG13	C:292:ASN:CA	0.466
6	C:345:PHE:HE1	C:359:CYS:HB3	0.466
6	C:369:THR:CG2	C:370:GLU:N	0.466
6	D:34:THR:HG22	F:28:PHE:HA	0.466
6	D:279:SER:HB3	D:284:LEU:HB3	0.466
6	F:33:TYR:CD1	F:99:ARG:HG3	0.466

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	F:61:TYR:HE1	F:65:VAL:HG23	0.466
6	F:102:ALA:CB	F:103:PRO:HD2	0.466
6	D:270:ILE:CG2	F:104:PHE:HB3	0.466
6	A:98:ARG:CZ	A:98:ARG:HB3	0.465
6	A:238:SER:O	A:239:GLU:HB3	0.465
6	A:316:LEU:CD1	C:346:LEU:HD23	0.465
6	A:297:ASN:ND2	A:337:LEU:CD1	0.465
6	A:411:LYS:CB	A:412:PRO:CD	0.465
6	B:12:SER:O	B:13:TYR:HB3	0.465
6	C:252:SER:HA	C:309:GLU:HB2	0.465
6	C:245:ILE:CD1	C:290:PHE:CD1	0.465
6	D:43:ILE:HG13	D:291:ASP:CA	0.465
6	D:51:LEU:HD13	D:82:TRP:CD2	0.465
6	D:99:TRP:CD2	D:117:LEU:HB2	0.465
6	D:120:ILE:HD11	D:140:ALA:HB2	0.465
6	D:292:PHE:CD2	D:311:HIS:CB	0.465
6	E:15:LEU:HG	E:18:GLN:OE1	0.465
6	D:173:THR:CG2	D:174:GLY:N	0.465
6	D:259:GLN:CG	D:260:GLU:N	0.465
6	A:10:TRP:CZ3	A:198:GLN:HG2	0.464
6	C:175:ALA:HA	C:178:PHE:HE2	0.464
6	C:49:GLY:N	C:184:VAL:CG1	0.464
6	C:246:PHE:CE2	C:294:GLN:CD	0.464

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:270:LEU:CD1	F:48:TRP:CZ3	0.464
6	C:308:ILE:C	C:310:ASP:N	0.464
6	E:32:LYS:CD	E:32:LYS:H	0.464
6	F:39:ARG:CB	F:39:ARG:CZ	0.464
6	C:283:ARG:NH2	F:102:ALA:CB	0.464
6	D:143:THR:O	D:143:THR:HG23	0.464
6	A:95:LEU:HB2	A:96:PRO:CD	0.463
6	B:12:SER:C	B:14:LEU:H	0.463
6	C:50:GLU:CG	C:51:SER:N	0.463
6	C:59:GLN:HB2	C:185:ILE:CA	0.463
6	C:77:PRO:CB	C:90:THR:CB	0.463
6	C:102:ALA:HB2	C:172:ILE:CG1	0.463
6	C:140:PHE:CE2	C:142:PHE:CA	0.463
6	C:82:SER:O	C:226:ALA:HA	0.463
6	C:248:VAL:CG2	C:265:ARG:NH2	0.463
6	C:291:LEU:CB	C:363:PHE:CD1	0.463
6	D:58:ILE:HA	D:74:SER:HB3	0.463
6	D:292:PHE:CD2	D:311:HIS:CA	0.463
6	D:293:ASN:CG	D:309:ALA:HB2	0.463
6	C:281:TRP:NE1	D:314:ARG:HB2	0.463
6	E:14:LYS:HG2	E:15:LEU:HD12	0.463
6	E:52:THR:HA	E:53:PRO:C	0.463
6	A:62:CYS:SG	A:72:VAL:CG1	0.462

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:124:ILE:O	A:125:TYR:HB3	0.462
6	A:227:TYR:HA	A:230:THR:HG22	0.462
6	C:63:LEU:O	C:64:HIS:HB2	0.462
6	C:263:THR:C	F:64:SER:HB3	0.462
6	C:283:ARG:C	C:283:ARG:N	0.462
6	C:383:ILE:HD11	C:386:MET:SD	0.462
6	D:177:THR:HG23	D:178:THR:HG22	0.462
6	F:28:PHE:HD2	F:33:TYR:HD2	0.462
6	A:263:ILE:CD1	A:263:ILE:N	0.462
6	D:183:HIS:HD2	D:185:GLY:H	0.462
6	A:9:LEU:HD21	A:191:TRP:HH2	0.461
6	C:57:VAL:CG2	C:181:LYS:HG3	0.461
6	C:92:VAL:HG11	C:208:PHE:CE1	0.461
6	C:127:ARG:C	C:127:ARG:HD2	0.461
6	C:153:LEU:N	C:153:LEU:HD22	0.461
6	C:245:ILE:CA	C:288:ILE:HG23	0.461
6	C:334:VAL:CG2	C:335:THR:N	0.461
6	D:7:LEU:C	D:7:LEU:HD13	0.461
6	C:3:CYS:N	D:55:LEU:CG	0.461
6	D:288:GLY:O	D:289:TYR:HB2	0.461
6	E:65:LYS:HG3	E:66:PHE:H	0.461
6	C:106:ILE:CG2	C:107:VAL:N	0.461
6	F:23:CYS:SG	F:97:CYS:SG	0.461

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	F:100:CYS:CB	F:108:CYS:SG	0.461
6	A:204:ARG:HD2	A:266:TYR:HD1	0.460
6	A:301:PHE:CD1	A:337:LEU:HD22	0.460
6	A:334:ILE:H	A:335:PRO:HD2	0.460
6	C:97:ASN:C	C:99:LEU:H	0.460
6	C:175:ALA:HA	C:178:PHE:CD2	0.460
6	C:181:LYS:HD3	C:185:ILE:HB	0.460
6	C:379:CYS:HA	C:382:ILE:HG22	0.460
6	D:8:ARG:CZ	F:121:GLN:NE2	0.460
6	C:3:CYS:SG	D:55:LEU:CD1	0.460
6	D:89:LYS:HD2	D:89:LYS:N	0.460
6	D:137:ARG:NH2	D:172:GLU:HG3	0.460
6	A:9:LEU:O	A:9:LEU:HD13	0.459
6	A:149:LEU:CD1	C:386:MET:SD	0.459
6	A:204:ARG:NE	A:266:TYR:HB2	0.459
6	A:312:LEU:CD2	A:325:ARG:HB3	0.459
6	A:342:VAL:HG23	A:343:ILE:N	0.459
6	C:30:LEU:CD1	D:78:LYS:NZ	0.459
6	C:60:MET:CA	C:74:GLU:CB	0.459
6	C:69:ASN:CA	C:200:CYS:HB3	0.459
6	C:235:ILE:CG1	C:238:PHE:CE1	0.459
6	C:268:ALA:O	C:271:LYS:HB2	0.459
6	D:237:ASN:HD21	D:239:ASN:HB2	0.459

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:277:SER:C	D:285:LEU:HD22	0.459
6	D:300:LEU:CD1	E:41:CYS:SG	0.459
6	E:54:VAL:HG13	E:55:PRO:N	0.459
6	C:299:GLU:CG	F:112:THR:HA	0.459
6	A:355:THR:CG2	A:356:LEU:N	0.459
6	A:398:ARG:NH2	A:413:LEU:HD13	0.458
6	A:66:LEU:CD2	B:23:ILE:HD12	0.458
6	C:278:ASN:HD22	C:282:LEU:HG	0.458
6	C:295:ASP:CG	C:296:LEU:N	0.458
6	D:262:MET:HB3	D:262:MET:HE2	0.458
6	C:270:LEU:CD1	F:48:TRP:HZ3	0.458
6	A:123:ILE:CG2	A:124:ILE:H	0.458
6	C:247:VAL:CG1	C:292:ASN:N	0.458
6	A:237:LEU:O	A:238:SER:HB3	0.457
6	A:244:ARG:HG3	A:244:ARG:NH1	0.457
6	A:368:THR:HA	A:371:GLN:HG3	0.457
6	A:410:MET:CB	A:414:LYS:CE	0.457
6	C:3:CYS:CB	C:33:ASP:C	0.457
6	C:49:GLY:CA	C:184:VAL:CG1	0.457
6	C:201:ARG:CG	C:202:VAL:N	0.457
6	C:294:GLN:CA	C:297:LEU:CB	0.457
6	C:294:GLN:CB	C:297:LEU:N	0.457
6	F:21:LEU:HB2	F:37:TRP:CZ2	0.457

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	F:68:ARG:HA	F:68:ARG:HD3	0.457
6	C:341:ILE:CG2	C:342:ARG:N	0.457
6	C:382:ILE:CG2	C:383:ILE:N	0.457
6	A:191:TRP:O	A:194:LEU:HB3	0.456
6	A:302:VAL:HG13	A:303:ARG:N	0.456
6	A:335:PRO:CB	A:374:MET:SD	0.456
6	C:207:ILE:HD12	C:208:PHE:HB2	0.456
6	D:168:LEU:HB2	D:177:THR:HG23	0.456
6	D:248:ALA:HB2	D:269:ILE:HG22	0.456
6	E:59:ASN:ND2	E:60:PRO:CG	0.456
6	F:69:PHE:CE1	F:71:ILE:HG13	0.456
6	C:219:PHE:HE1	C:221:MET:CG	0.456
6	F:11:GLY:H	F:125:VAL:CG2	0.456
6	A:150:HIS:HA	D:47:THR:C	0.455
6	A:388:LEU:CD1	D:44:GLN:CB	0.455
6	C:140:PHE:CZ	C:142:PHE:HA	0.455
6	C:154:TRP:CZ3	C:179:LEU:CD1	0.455
6	C:249:ALA:HB3	C:305:LYS:H22	0.455
6	C:345:PHE:C	C:345:PHE:CD1	0.455
6	C:383:ILE:CD1	C:386:MET:SD	0.455
6	D:137:ARG:HD2	D:171:ILE:HG22	0.455
6	D:327:VAL:C	D:338:ILE:HD12	0.455
6	F:54:GLN:OE1	F:104:PHE:HA	0.455

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	B:23:ILE:O	B:23:ILE:HG23	0.455
6	A:23:CYS:SG	A:48:CYS:HB2	0.454
6	A:148:HIS:C	A:150:HIS:N	0.454
6	A:297:ASN:CG	A:337:LEU:HD12	0.454
6	A:344:PHE:CD1	A:364:GLU:CG	0.454
6	C:76:ASP:CA	C:90:THR:HA	0.454
6	C:76:ASP:C	C:90:THR:HB	0.454
6	C:151:LYS:O	C:152:ALA:HB2	0.454
6	C:69:ASN:HD22	C:200:CYS:HB2	0.454
6	C:210:THR:OG1	C:221:MET:HB2	0.454
6	C:238:PHE:CB	C:241:VAL:HG21	0.454
6	C:307:LYS:HB3	C:309:GLU:HB3	0.454
6	D:61:MET:HE1	D:319:GLY:H	0.454
6	D:180:PHE:CB	D:211:TRP:CZ3	0.454
6	A:95:LEU:HD11	A:98:ARG:HH12	0.453
6	A:239:GLU:C	A:241:TRP:H	0.453
6	A:365:LEU:HD22	B:3:GLU:OE1	0.453
6	C:130:TYR:CD1	C:130:TYR:N	0.453
6	C:271:LYS:CG	C:285:THR:CG2	0.453
6	C:290:PHE:CE2	C:362:HIS:HB3	0.453
6	D:180:PHE:CD1	D:211:TRP:CE3	0.453
6	D:315:VAL:HA	D:331:SER:HA	0.453
6	F:61:TYR:HE2	F:69:PHE:CG	0.453

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:57:VAL:CG1	C:58:LYS:N	0.453
6	A:158:LEU:O	A:162:ALA:HB2	0.452
6	C:57:VAL:HG13	C:58:LYS:HA	0.452
6	C:57:VAL:O	C:185:ILE:HD12	0.452
6	C:193:SER:N	C:197:LEU:HD13	0.452
6	D:169:TRP:CZ2	D:174:GLY:C	0.452
6	D:200:VAL:HG21	D:241:PHE:CD2	0.452
6	D:269:ILE:HG23	D:289:TYR:HE1	0.452
6	E:30:VAL:CG1	E:31:SER:N	0.452
6	C:260:ASP:OD2	F:47:GLU:HG3	0.452
6	A:123:ILE:CG2	A:124:ILE:N	0.452
6	F:71:ILE:HG22	F:72:SER:N	0.452
6	A:23:CYS:SG	A:43:PHE:CD1	0.451
6	A:60:VAL:H	A:76:HIS:CG	0.451
6	A:133:PHE:C	A:133:PHE:CD1	0.451
6	A:146:PHE:CE1	A:383:ASN:HB2	0.451
6	A:182:TYR:C	B:14:LEU:HD21	0.451
6	C:99:LEU:CA	C:178:PHE:CE1	0.451
6	C:74:GLU:HG2	C:198:LEU:HD23	0.451
6	C:245:ILE:HG22	C:288:ILE:HG23	0.451
6	C:248:VAL:HG13	C:297:LEU:HD11	0.451
6	D:47:THR:CB	D:333:ASP:CB	0.451
6	D:225:HIS:HD2	D:227:SER:C	0.451

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	F:110:ASP:HB3	F:116:TYR:CE2	0.451
6	C:300:LYS:NZ	F:111:VAL:HB	0.451
6	C:62:ILE:CG2	C:63:LEU:N	0.451
6	A:15:LYS:HB3	A:65:TYR:HB2	0.450
6	A:138:ILE:HG23	A:139:ALA:N	0.450
6	A:275:THR:CG2	B:11:SER:CB	0.450
6	A:288:LEU:C	A:288:LEU:HD13	0.450
6	A:288:LEU:HD13	A:289:PRO:N	0.450
6	A:312:LEU:HB3	A:322:ILE:CD1	0.450
6	A:411:LYS:H	A:414:LYS:CE	0.450
6	C:4:LEU:HB2	D:78:LYS:HG3	0.450
6	C:30:LEU:HD11	D:78:LYS:HZ1	0.450
6	C:60:MET:HA	C:74:GLU:HB2	0.450
6	C:83:ASN:CB	C:226:ALA:CB	0.450
6	C:141:ASP:OD1	C:143:PRO:HD3	0.450
6	C:289:LEU:C	C:290:PHE:CD1	0.450
6	D:162:GLY:O	D:186:ASP:HA	0.450
6	D:271:CYS:SG	D:291:ASP:N	0.450
6	A:41:ARG:CG	A:51:ASP:HA	0.449
6	A:257:PHE:C	A:260:PRO:HD2	0.449
6	A:255:LEU:CA	A:258:VAL:HG12	0.449
6	A:305:ILE:CD1	A:333:LEU:CD1	0.449
6	C:50:GLU:CD	C:223:ASP:CA	0.449

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:56:ILE:CG1	C:84:SER:CB	0.449
6	C:92:VAL:CG1	C:208:PHE:CD1	0.449
6	C:71:GLU:CB	C:201:ARG:HB2	0.449
6	C:281:TRP:CZ2	D:314:ARG:CB	0.449
6	C:281:TRP:CZ2	D:314:ARG:CD	0.449
6	C:3:CYS:SG	D:76:ASP:CG	0.449
6	A:259:VAL:N	A:260:PRO:CD	0.449
6	C:237:CYS:SG	C:238:PHE:N	0.449
6	C:163:TYR:CZ	C:176:GLN:HB2	0.448
6	C:266:LEU:CD1	C:300:LYS:CG	0.448
6	A:149:LEU:N	D:46:ARG:C	0.448
6	D:219:ARG:O	D:220:GLN:HB3	0.448
6	D:244:GLY:O	D:245:SER:HB3	0.448
6	D:292:PHE:HB3	D:311:HIS:O	0.448
6	F:52:ILE:HG21	F:73:ARG:HD3	0.448
6	A:136:LEU:CD1	A:164:PHE:HD1	0.448
6	C:126:PHE:O	C:130:TYR:HD1	0.448
6	A:8:SER:O	A:12:THR:HG22	0.447
6	A:19:TYR:CD1	A:65:TYR:CE2	0.447
6	A:227:TYR:CA	A:230:THR:HG22	0.447
6	A:219:TYR:HE2	A:253:VAL:HG12	0.447
6	A:294:ILE:CD1	A:341:GLU:HG2	0.447
6	A:392:LYS:HE2	D:42:ARG:CZ	0.447

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:154:TRP:CE3	C:179:LEU:CD2	0.447
6	C:57:VAL:CG2	C:181:LYS:CE	0.447
6	D:29:THR:HG23	F:1:MET:HB3	0.447
6	D:69:LEU:HD12	D:83:ASP:CG	0.447
6	F:46:LEU:CD1	F:119:ARG:CZ	0.447
6	F:34:LYS:NZ	F:54:GLN:HG3	0.447
6	C:300:LYS:HZ2	F:111:VAL:HB	0.447
6	C:52:GLY:O	C:54:ASN:N	0.447
6	A:1:ARG:HG2	A:3:GLN:H	0.446
6	A:78:TYR:C	A:78:TYR:CD1	0.446
6	A:142:ILE:CG2	A:143:LEU:N	0.446
6	A:201:LEU:C	A:201:LEU:HD13	0.446
6	C:77:PRO:HB3	C:90:THR:CG2	0.446
6	C:88:LYS:HB3	C:204:THR:N	0.446
6	C:358:TYR:C	C:358:TYR:CD1	0.446
6	D:93:ILE:CD1	D:124:TYR:CE1	0.446
6	D:188:MET:O	D:189:SER:HB3	0.446
6	D:292:PHE:CD1	D:315:VAL:HG13	0.446
6	C:130:TYR:H	C:130:TYR:HD1	0.446
6	A:359:ILE:CG2	A:360:LYS:N	0.446
6	A:379:TYR:CG	A:380:CYS:N	0.446
6	C:256:VAL:CG1	C:257:ILE:H	0.446
6	A:41:ARG:CD	A:41:ARG:N	0.445

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:147:ARG:C	A:148:HIS:CD2	0.445
6	A:253:VAL:CB	A:254:PRO:CD	0.445
6	A:261:TRP:CH2	A:282:TYR:HE2	0.445
6	C:58:LYS:O	C:59:GLN:HB3	0.445
6	C:76:ASP:C	C:90:THR:N	0.445
6	C:76:ASP:CB	C:77:PRO:CD	0.445
6	D:57:LYS:HD2	D:59:TYR:CB	0.445
6	D:111:TYR:CZ	D:151:PHE:CE1	0.445
6	C:167:ASN:ND2	F:43:GLY:HA2	0.445
6	A:13:VAL:CG1	A:14:GLN:N	0.445
6	A:9:LEU:HD23	B:19:ALA:CB	0.444
6	A:148:HIS:CA	D:47:THR:H	0.444
6	A:335:PRO:CG	A:374:MET:SD	0.444
6	C:57:VAL:CG1	C:181:LYS:CG	0.444
6	C:201:ARG:CZ	C:210:THR:CG2	0.444
6	C:233:LYS:C	C:234:TRP:CE3	0.444
6	C:246:PHE:CZ	C:294:GLN:NE2	0.444
6	C:307:LYS:O	C:310:ASP:CB	0.444
6	D:177:THR:HG23	D:178:THR:H	0.444
6	F:47:GLU:CG	F:129:SER:CB	0.444
6	F:52:ILE:HG13	F:53:SER:N	0.444
6	D:59:TYR:HE1	D:101:MET:CG	0.444
6	D:234:PHE:HD1	D:234:PHE:N	0.444

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	F:44:LYS:CB	F:44:LYS:NZ	0.444
6	A:120:PHE:HA	A:123:ILE:HG22	0.443
6	A:143:LEU:CD1	A:158:LEU:CG	0.443
6	A:219:TYR:CD2	A:254:PRO:CD	0.443
6	A:312:LEU:HB3	A:322:ILE:CG1	0.443
6	A:343:ILE:HD12	A:347:VAL:HG23	0.443
6	C:77:PRO:CA	C:90:THR:CG2	0.443
6	C:176:GLN:HA	C:176:GLN:OE1	0.443
6	C:297:LEU:CD1	C:301:VAL:CG2	0.443
6	C:301:VAL:CG1	C:305:LYS:CG	0.443
6	D:112:VAL:HB	D:124:TYR:HB3	0.443
6	D:296:VAL:CG2	D:308:LEU:CD2	0.443
6	A:307:ILE:CG2	A:308:VAL:N	0.443
6	C:304:GLY:O	C:306:SER:N	0.443
6	D:30:LEU:CD2	D:31:SER:N	0.443
6	C:309:GLU:HA	C:309:GLU:OE1	0.443
6	A:60:VAL:C	A:76:HIS:CG	0.442
6	A:284:LEU:O	A:287:ARG:HG2	0.442
6	C:75:GLU:CB	C:89:ALA:HB1	0.442
6	C:107:VAL:HG21	C:131:ILE:HG21	0.442
6	C:236:GLN:CG	D:314:ARG:NH1	0.442
6	C:263:THR:HB	C:312:PHE:CD1	0.442
6	C:281:TRP:CZ2	D:314:ARG:HB3	0.442

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:306:SER:O	C:307:LYS:HG3	0.442
6	C:308:ILE:HD13	C:363:PHE:HE1	0.442
6	C:312:PHE:HB3	C:313:PRO:CD	0.442
6	C:346:LEU:O	C:349:SER:HB3	0.442
6	D:41:GLY:C	D:42:ARG:HG3	0.442
6	F:1:MET:HG3	F:4:GLN:NE2	0.442
6	D:32:GLN:CG	F:2:GLN:HB3	0.442
6	C:159:VAL:CG1	C:160:ARG:N	0.442
6	C:4:LEU:CD1	C:5:GLY:N	0.441
6	C:247:VAL:HG13	C:292:ASN:HB2	0.441
6	C:287:VAL:HG22	C:357:HIS:CD2	0.441
6	D:15:LYS:CD	D:30:LEU:HD12	0.441
6	D:32:GLN:NE2	D:223:THR:HB	0.441
6	F:30:PHE:CB	F:78:ASN:HB2	0.441
6	A:13:VAL:CB	A:191:TRP:HZ2	0.441
6	A:184:THR:CG2	A:185:ALA:N	0.441
6	A:17:ARG:HG2	A:17:ARG:O	0.440
6	A:54:PRO:O	A:81:CYS:HB2	0.440
6	A:131:LEU:HD13	A:134:SER:CB	0.440
6	C:62:ILE:HG23	C:63:LEU:N	0.440
6	C:82:SER:C	C:84:SER:N	0.440
6	C:54:ASN:OD1	C:181:LYS:HG3	0.440
6	C:298:ALA:C	C:301:VAL:H	0.440

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:337:ALA:O	C:340:PHE:HB3	0.440
6	D:37:ILE:CG1	F:32:ASN:HD22	0.440
6	D:151:PHE:CZ	D:154:ASP:CA	0.440
6	D:169:TRP:CH2	D:174:GLY:C	0.440
6	D:194:PRO:HG3	D:237:ASN:O	0.440
6	D:226:GLU:CG	F:28:PHE:CD1	0.440
6	F:21:LEU:CD1	F:82:LEU:HD13	0.440
6	A:240:GLN:H	A:242:ILE:CG2	0.440
6	A:334:ILE:N	A:335:PRO:CD	0.440
6	A:339:THR:HG23	A:340:HIS:N	0.440
6	C:284:ASP:HA	C:284:ASP:N	0.440
6	A:72:VAL:O	A:72:VAL:HG12	0.440
6	A:300:ILE:HD11	A:337:LEU:HD13	0.439
6	A:310:SER:O	A:313:LYS:HG3	0.439
6	C:46:LEU:HD23	C:51:SER:CA	0.439
6	C:58:LYS:HB3	C:208:PHE:CD2	0.439
6	C:181:LYS:CD	C:185:ILE:CG2	0.439
6	C:266:LEU:CD2	C:269:ALA:HB3	0.439
6	C:331:ASP:CB	C:332:PRO:C	0.439
6	C:271:LYS:O	C:348:ILE:HB	0.439
6	D:193:ALA:HA	D:234:PHE:CD2	0.439
6	D:200:VAL:CG2	D:241:PHE:CE2	0.439
6	D:243:THR:HG23	D:251:ARG:HE	0.439

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:315:VAL:HG12	D:331:SER:HB3	0.439
6	F:28:PHE:CD2	F:33:TYR:HD2	0.439
6	A:276:ARG:HE	A:277:ASN:N	0.439
6	A:297:ASN:HD21	A:337:LEU:CD1	0.439
6	D:331:SER:HG	D:335:PHE:HE1	0.439
6	C:92:VAL:HG11	C:208:PHE:CD1	0.438
6	D:86:THR:O	D:86:THR:HG22	0.438
6	D:111:TYR:CE2	D:123:ILE:CG1	0.438
6	D:234:PHE:CD2	D:241:PHE:CE2	0.438
6	A:33:PRO:CG	A:38:PHE:CE2	0.437
6	A:135:ALA:O	A:138:ILE:HG22	0.437
6	A:284:LEU:HD22	A:287:ARG:CZ	0.437
6	A:326:LEU:HD13	A:330:THR:HG22	0.437
6	A:330:THR:O	A:331:LEU:HB3	0.437
6	C:192:PRO:CG	C:197:LEU:HD11	0.437
6	C:299:GLU:O	C:302:LEU:HB3	0.437
6	D:69:LEU:HD12	D:83:ASP:OD1	0.437
6	D:101:MET:C	D:101:MET:SD	0.437
6	D:292:PHE:CD2	D:311:HIS:N	0.437
6	D:47:THR:CG2	D:335:PHE:CZ	0.437
6	F:80:LEU:HD23	F:81:TYR:N	0.437
6	F:82:LEU:HD21	F:84:MET:HG2	0.437
6	D:43:ILE:CG1	D:44:GLN:N	0.437

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:95:LEU:CB	A:96:PRO:HD2	0.436
6	A:343:ILE:O	A:343:ILE:HG22	0.436
6	A:394:TRP:CZ3	A:397:TRP:CZ3	0.436
6	A:410:MET:HB2	A:414:LYS:NZ	0.436
6	A:66:LEU:CD2	B:23:ILE:CD1	0.436
6	C:4:LEU:HG	C:33:ASP:OD1	0.436
6	C:120:ALA:CB	C:157:GLU:CG	0.436
6	C:127:ARG:NH2	C:131:ILE:HD12	0.436
6	C:232:ARG:HH22	C:233:LYS:HD2	0.436
6	D:43:ILE:HD12	D:271:CYS:SG	0.436
6	F:21:LEU:CB	F:37:TRP:CZ2	0.436
6	C:277:TRP:HZ3	F:58:SER:HG	0.436
6	A:413:LEU:H	F:106:ARG:HH21	0.436
6	C:254:ASN:CG	C:255:MET:N	0.436
6	A:100:LEU:C	A:100:LEU:HD13	0.435
6	A:201:LEU:HD23	A:204:ARG:HD3	0.435
6	A:399:LEU:C	A:399:LEU:HD23	0.435
6	C:4:LEU:HD23	D:76:ASP:OD2	0.435
6	C:59:GLN:HA	C:185:ILE:HG13	0.435
6	C:88:LYS:HE3	C:202:VAL:O	0.435
6	C:56:ILE:O	C:92:VAL:HA	0.435
6	C:103:ILE:HD12	C:178:PHE:CE1	0.435
6	C:144:PRO:CB	C:186:LYS:CE	0.435

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:48:ALA:CA	C:184:VAL:CG2	0.435
6	C:264:ASN:HB3	F:129:SER:OXT	0.435
6	D:57:LYS:HG3	D:332:TRP:CE2	0.435
6	D:137:ARG:CZ	D:172:GLU:HG3	0.435
6	D:183:HIS:HE1	D:207:SER:HB3	0.435
6	F:28:PHE:HB3	F:99:ARG:HH12	0.435
6	A:276:ARG:CD	A:278:SER:H	0.435
6	C:73:GLY:N	C:201:ARG:NH2	0.435
6	C:82:SER:N	C:84:SER:N	0.435
6	C:244:ILE:CD1	C:244:ILE:N	0.435
6	A:275:THR:HG23	A:276:ARG:N	0.434
6	C:37:TYR:C	C:39:ALA:H	0.434
6	C:134:VAL:HG11	C:140:PHE:HE1	0.434
6	C:146:PHE:C	C:146:PHE:CD1	0.434
6	C:148:GLU:O	C:149:HIS:HB2	0.434
6	C:264:ASN:CB	F:129:SER:C	0.434
6	C:345:PHE:O	C:348:ILE:HG23	0.434
6	D:35:ASN:N	F:28:PHE:HE1	0.434
6	C:84:SER:O	C:86:GLY:N	0.434
6	A:60:VAL:HG23	A:76:HIS:NE2	0.433
6	A:335:PRO:HB3	A:374:MET:SD	0.433
6	C:37:TYR:CG	D:55:LEU:HD11	0.433
6	C:250:SER:HB2	C:307:LYS:CG	0.433

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:63:TRP:CD1	D:67:SER:HA	0.433
6	D:139:LEU:HD23	D:169:TRP:CH2	0.433
6	C:209:GLU:OE1	C:220:HIS:HE1	0.433
6	F:73:ARG:H	F:73:ARG:NE	0.433
6	A:226:VAL:HG12	A:227:TYR:H	0.432
6	C:77:PRO:CD	C:90:THR:CB	0.432
6	C:91:LYS:HG3	C:207:ILE:HD13	0.432
6	C:56:ILE:HG12	C:94:ASP:HB3	0.432
6	C:238:PHE:CD2	C:244:ILE:HG12	0.432
6	C:256:VAL:CG1	C:257:ILE:N	0.432
6	C:297:LEU:O	C:301:VAL:HB	0.432
6	D:139:LEU:CD2	D:169:TRP:CE3	0.432
6	D:167:ALA:HB2	D:179:THR:HB	0.432
6	F:41:ALA:HB3	F:42:PRO:O	0.432
6	A:164:PHE:O	A:165:ILE:HB	0.431
6	C:30:LEU:CD1	D:78:LYS:HZZ	0.431
6	C:45:LEU:HB2	C:50:GLU:CD	0.431
6	C:45:LEU:O	C:46:LEU:HG	0.431
6	C:57:VAL:HG22	C:181:LYS:HZZ	0.431
6	C:71:GLU:CD	C:71:GLU:N	0.431
6	C:140:PHE:CE2	C:142:PHE:CB	0.431
6	C:154:TRP:CG	C:179:LEU:CD2	0.431
6	C:184:VAL:CG2	C:293:LYS:CE	0.431

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:201:ARG:NH2	C:210:THR:HG21	0.431
6	D:231:ALA:CB	D:275:SER:HA	0.431
6	D:331:SER:OG	D:335:PHE:HD1	0.431
6	C:52:GLY:O	C:55:THR:N	0.431
6	A:230:THR:HG21	A:242:ILE:CD1	0.430
6	A:219:TYR:HE2	A:253:VAL:CG1	0.430
6	A:410:MET:HB2	A:414:LYS:HE3	0.430
6	C:99:LEU:HD11	C:182:ILE:CD1	0.430
6	C:181:LYS:C	C:181:LYS:HD2	0.430
6	C:205:SER:C	C:207:ILE:N	0.430
6	C:58:LYS:CB	C:208:PHE:CZ	0.430
6	C:201:ARG:NH2	C:210:THR:CG2	0.430
6	C:247:VAL:HG12	C:292:ASN:CA	0.430
6	D:47:THR:CB	D:333:ASP:HB3	0.430
6	F:61:TYR:CD1	F:65:VAL:O	0.430
6	A:136:LEU:CD2	A:136:LEU:N	0.430
6	C:25:LYS:CB	C:25:LYS:NZ	0.430
6	A:120:PHE:C	A:122:TYR:H	0.429
6	A:125:TYR:C	A:125:TYR:CD1	0.429
6	A:237:LEU:HA	A:237:LEU:HD23	0.429
6	A:392:LYS:HB3	D:42:ARG:HD2	0.429
6	C:88:LYS:CG	C:91:LYS:HD3	0.429
6	C:107:VAL:HG13	C:128:VAL:HG13	0.429

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:120:ALA:HB3	C:157:GLU:OE2	0.429
6	C:184:VAL:CG2	C:293:LYS:NZ	0.429
6	C:49:GLY:H	C:184:VAL:HG21	0.429
6	C:209:GLU:HG3	C:222:PHE:HD1	0.429
6	C:273:PHE:HB3	F:60:SER:HB3	0.429
6	C:291:LEU:CD1	C:341:ILE:HD13	0.429
6	C:311:TYR:C	C:312:PHE:CG	0.429
6	C:332:PRO:HB2	C:336:ARG:HE	0.429
6	D:50:THR:CG2	D:51:LEU:CD2	0.429
6	D:83:ASP:OD1	D:90:VAL:HG21	0.429
6	D:47:THR:OG1	D:333:ASP:HB2	0.429
6	E:12:ALA:C	E:14:LYS:H	0.429
6	E:20:LYS:HA	E:20:LYS:HD2	0.429
6	F:46:LEU:HD22	F:96:TYR:HH	0.429
6	F:81:TYR:CE2	F:83:GLN:HB2	0.429
6	D:123:ILE:CG1	D:124:TYR:N	0.429
6	A:90:LYS:HB2	A:90:LYS:HZ3	0.428
6	A:117:GLN:HG3	A:118:LEU:N	0.428
6	A:207:PHE:CE1	A:210:MET:HE2	0.428
6	C:211:LYS:HB2	C:219:PHE:O	0.428
6	C:394:LEU:C	C:394:LEU:HD22	0.428
6	D:79:LEU:HD21	D:112:VAL:HG11	0.428
6	D:103:CYS:SG	D:112:VAL:CG1	0.428

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:252:LEU:CD2	D:252:LEU:N	0.428
6	F:37:TRP:CZ2	F:95:TYR:CE1	0.428
6	F:30:PHE:CB	F:78:ASN:CB	0.428
6	A:339:THR:CG2	A:340:HIS:N	0.428
6	E:32:LYS:CD	E:32:LYS:N	0.428
6	A:90:LYS:HB2	A:90:LYS:HZ2	0.427
6	A:121:LEU:HG	A:361:LEU:HD13	0.427
6	A:148:HIS:CB	D:46:ARG:CB	0.427
6	A:174:LYS:CD	A:206:VAL:HG12	0.427
6	A:212:TYR:CD1	A:255:LEU:HD21	0.427
6	A:398:ARG:N	A:416:PRO:C	0.427
6	C:88:LYS:HB3	C:203:LEU:O	0.427
6	C:219:PHE:CE1	C:221:MET:HG3	0.427
6	D:340:ASN:HB2	E:56:ALA:O	0.427
6	D:166:CYS:SG	D:180:PHE:CB	0.427
6	A:118:LEU:CD1	B:6:PHE:CZ	0.426
6	A:148:HIS:C	D:47:THR:H	0.426
6	A:240:GLN:HA	A:243:PHE:CB	0.426
6	A:300:ILE:HD12	A:301:PHE:CA	0.426
6	A:379:TYR:HA	A:382:VAL:HG22	0.426
6	C:42:ARG:C	C:43:LEU:HD22	0.426
6	C:148:GLU:HA	C:148:GLU:OE1	0.426
6	C:219:PHE:HD1	C:221:MET:HG3	0.426

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:233:LYS:N	C:234:TRP:CE3	0.426
6	C:262:GLN:C	F:64:SER:HB2	0.426
6	C:291:LEU:HA	C:291:LEU:HD13	0.426
6	D:48:ARG:O	D:335:PHE:CE2	0.426
6	E:11:GLN:O	E:14:LYS:HB3	0.426
6	F:14:GLN:HG3	F:16:GLY:N	0.426
6	D:124:TYR:HE2	D:126:LEU:CD1	0.426
6	A:258:VAL:CG1	A:259:VAL:N	0.426
6	C:13:ARG:CD	C:14:ASN:N	0.426
6	C:56:ILE:CG1	C:95:ILE:N	0.426
6	A:182:TYR:HE1	A:186:ALA:CB	0.425
6	A:220:TRP:HA	A:223:VAL:CG2	0.425
6	A:261:TRP:CZ3	A:286:ILE:CG2	0.425
6	A:343:ILE:HA	A:343:ILE:HD13	0.425
6	C:44:LEU:O	C:45:LEU:HD23	0.425
6	C:54:ASN:O	C:57:VAL:HB	0.425
6	C:191:VAL:HA	C:192:PRO:O	0.425
6	C:193:SER:O	C:194:ASP:HB2	0.425
6	C:209:GLU:HG3	C:220:HIS:CE1	0.425
6	C:270:LEU:HD13	C:300:LYS:HE3	0.425
6	C:302:LEU:C	C:302:LEU:HD13	0.425
6	D:55:LEU:CG	D:76:ASP:HB2	0.425
6	D:78:LYS:CE	D:80:ILE:HG21	0.425

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:132:ASN:CG	D:133:VAL:H	0.425
6	D:121:CYS:CB	D:146:LEU:CD1	0.425
6	D:297:TRP:CD1	D:302:ALA:O	0.425
6	C:248:VAL:CB	C:265:ARG:NH2	0.425
6	D:331:SER:HG	D:335:PHE:HD1	0.425
6	C:58:LYS:CG	C:208:PHE:CZ	0.424
6	C:74:GLU:CG	C:198:LEU:CD2	0.424
6	C:279:ASN:OD1	C:282:LEU:HB2	0.424
6	C:283:ARG:CD	F:109:PHE:HE1	0.424
6	C:246:PHE:HD1	C:289:LEU:HD22	0.424
6	C:299:GLU:CG	F:112:THR:HG23	0.424
6	D:70:LEU:C	D:81:ILE:HG22	0.424
6	F:33:TYR:CG	F:99:ARG:HG3	0.424
6	F:41:ALA:HA	F:93:ALA:CB	0.424
6	F:61:TYR:CE1	F:62:THR:HB	0.424
6	F:61:TYR:CE1	F:65:VAL:CB	0.424
6	A:207:PHE:HE2	A:274:TRP:HD1	0.424
6	C:119:LEU:CD2	C:119:LEU:N	0.424
6	A:15:LYS:HB2	A:65:TYR:HB2	0.423
6	A:362:PHE:C	A:362:PHE:CD2	0.423
6	A:398:ARG:H	A:416:PRO:C	0.423
6	C:2:GLY:C	D:55:LEU:CB	0.423
6	C:45:LEU:N	C:50:GLU:CD	0.423

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:56:ILE:HG22	C:207:ILE:HG23	0.423
6	C:59:GLN:NE2	C:73:GLY:HA3	0.423
6	C:134:VAL:CG1	C:140:PHE:CE1	0.423
6	C:215:ASP:O	C:217:VAL:HG23	0.423
6	D:26:ALA:HB1	D:32:GLN:O	0.423
6	C:273:PHE:HZ	F:48:TRP:CZ3	0.423
6	F:61:TYR:CE2	F:69:PHE:HB3	0.423
6	A:92:ASN:ND2	A:93:SER:N	0.423
6	C:61:ARG:HH21	C:186:LYS:HZ3	0.423
6	C:225:GLY:O	C:227:GLN:N	0.423
6	C:236:GLN:HE21	D:314:ARG:HH12	0.423
6	A:124:ILE:HG22	A:125:TYR:N	0.422
6	A:142:ILE:HG21	A:379:TYR:CE2	0.422
6	C:3:CYS:HB3	C:33:ASP:C	0.422
6	C:3:CYS:SG	C:37:TYR:CD1	0.422
6	C:54:ASN:CA	C:57:VAL:HB	0.422
6	C:75:GLU:HB2	C:198:LEU:HB3	0.422
6	C:107:VAL:HG21	C:131:ILE:HD13	0.422
6	C:157:GLU:HB3	C:160:ARG:HH21	0.422
6	C:207:ILE:CG1	C:208:PHE:H	0.422
6	C:91:LYS:CD	C:207:ILE:HD13	0.422
6	C:277:TRP:CZ3	F:53:SER:HB3	0.422
6	C:385:ARG:C	C:385:ARG:HD3	0.422

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:78:LYS:HE3	D:92:ALA:CB	0.422
6	F:46:LEU:HB3	F:96:TYR:OH	0.422
6	F:68:ARG:CD	F:85:ASN:HB3	0.422
6	F:101:PRO:HB3	F:116:TYR:OH	0.422
6	A:217:ASN:O	A:218:TYR:HD1	0.422
6	F:75:ASN:CG	F:76:ALA:N	0.422
6	A:9:LEU:C	A:9:LEU:HD13	0.421
6	A:16:TRP:CG	A:17:ARG:H	0.421
6	A:78:TYR:HE1	A:97:TRP:CZ3	0.421
6	A:334:ILE:HG12	A:339:THR:HG21	0.421
6	A:334:ILE:O	A:334:ILE:HD13	0.421
6	A:355:THR:HG23	A:356:LEU:H	0.421
6	A:398:ARG:CZ	A:413:LEU:HD13	0.421
6	A:411:LYS:HB2	A:412:PRO:HD3	0.421
6	D:32:GLN:CG	D:224:GLY:H	0.421
6	D:120:ILE:HA	D:120:ILE:HD12	0.421
6	D:150:ARG:HD3	D:192:LEU:HD12	0.421
6	A:18:GLU:CD	A:19:TYR:N	0.420
6	A:64:TRP:O	A:65:TYR:CG	0.420
6	A:64:TRP:O	A:65:TYR:CD2	0.420
6	A:76:HIS:CD2	A:77:VAL:H	0.420
6	A:80:PHE:HB3	A:88:LEU:HG	0.420
6	A:261:TRP:CH2	A:282:TYR:CE2	0.420

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:265:LYS:HD2	A:274:TRP:CB	0.420
6	A:308:VAL:HG13	A:309:VAL:N	0.420
6	A:312:LEU:CD2	A:325:ARG:HD2	0.420
6	C:4:LEU:CB	D:78:LYS:CD	0.420
6	C:107:VAL:O	C:110:MET:HG2	0.420
6	C:208:PHE:CE2	C:210:THR:CG2	0.420
6	C:265:ARG:HG2	C:310:ASP:CB	0.420
6	C:246:PHE:HE2	C:294:GLN:CD	0.420
6	A:388:LEU:CG	D:44:GLN:CB	0.420
6	D:59:TYR:CD1	D:59:TYR:O	0.420
6	D:71:VAL:CG2	D:81:ILE:CG2	0.420
6	F:15:PRO:CB	F:89:PRO:CD	0.420
6	A:119:LEU:C	A:119:LEU:HD13	0.419
6	A:148:HIS:CD2	D:46:ARG:HE	0.419
6	A:227:TYR:H	A:230:THR:HG22	0.419
6	A:231:LEU:C	A:231:LEU:CD1	0.419
6	A:299:LEU:C	A:299:LEU:HD12	0.419
6	A:305:ILE:CD1	A:333:LEU:HD13	0.419
6	C:4:LEU:CB	D:78:LYS:CG	0.419
6	C:50:GLU:CG	C:51:SER:H	0.419
6	C:53:LYS:C	C:55:THR:H	0.419
6	C:59:GLN:O	C:92:VAL:HB	0.419
6	C:171:LEU:HD21	C:175:ALA:CB	0.419

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:247:VAL:HG22	C:290:PHE:CA	0.419
6	C:276:ILE:HG12	F:58:SER:HB3	0.419
6	C:248:VAL:N	C:292:ASN:C	0.419
6	C:298:ALA:O	C:302:LEU:HB2	0.419
6	A:231:LEU:CD2	C:392:GLU:CG	0.419
6	D:137:ARG:HD2	D:171:ILE:HG23	0.419
6	D:222:PHE:CZ	D:260:GLU:CG	0.419
6	A:17:ARG:HH21	A:21:ARG:HH22	0.419
6	D:150:ARG:HD2	D:150:ARG:HH11	0.419
6	D:177:THR:CG2	D:178:THR:N	0.419
6	A:288:LEU:HA	A:290:ILE:O	0.418
6	A:224:GLU:CD	A:336:LEU:HD11	0.418
6	A:182:TYR:HE2	B:17:GLN:HG2	0.418
6	C:11:ASP:HB2	C:15:GLU:OE2	0.418
6	C:59:GLN:HB2	C:185:ILE:C	0.418
6	C:86:GLY:C	C:90:THR:HG23	0.418
6	C:125:GLN:O	C:128:VAL:HB	0.418
6	C:159:VAL:O	C:162:CYS:HB2	0.418
6	C:99:LEU:CA	C:178:PHE:CD1	0.418
6	D:35:ASN:HB3	F:28:PHE:CE1	0.418
6	F:69:PHE:CE1	F:71:ILE:CG1	0.418
6	F:92:THR:CA	F:126:THR:HA	0.418
6	C:55:THR:N	C:225:GLY:CA	0.418

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:37:LEU:HG	A:37:LEU:O	0.417
6	A:182:TYR:HE2	B:17:GLN:CG	0.417
6	C:5:GLY:CA	C:29:GLN:HB3	0.417
6	C:127:ARG:CG	C:149:HIS:CB	0.417
6	D:151:PHE:CZ	D:154:ASP:O	0.417
6	D:167:ALA:HB2	D:179:THR:CB	0.417
6	D:261:LEU:N	D:261:LEU:HD23	0.417
6	D:293:ASN:OD1	D:309:ALA:HB2	0.417
6	F:37:TRP:CH2	F:82:LEU:HB2	0.417
6	D:233:CYS:SG	D:278:PHE:HD1	0.417
6	D:229:ILE:O	D:229:ILE:HG22	0.417
6	D:211:TRP:CA	D:218:CYS:SG	0.417
6	A:68:TRP:NE1	A:108:ARG:HG3	0.416
6	A:140:SER:CB	A:158:LEU:CD2	0.416
6	A:253:VAL:CB	A:254:PRO:HD3	0.416
6	A:399:LEU:HD22	A:416:PRO:HD2	0.416
6	C:26:ILE:HD13	D:89:LYS:HB2	0.416
6	C:99:LEU:HD11	C:182:ILE:CG1	0.416
6	C:186:LYS:C	C:186:LYS:HD2	0.416
6	C:301:VAL:C	C:304:GLY:C	0.416
6	C:290:PHE:CG	C:362:HIS:HB3	0.416
6	D:59:TYR:CD1	D:101:MET:HA	0.416
6	D:293:ASN:ND2	D:308:LEU:C	0.416

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	F:37:TRP:HE1	F:95:TYR:HB2	0.416
6	C:281:TRP:HH2	D:332:TRP:CH2	0.416
6	C:59:GLN:HE22	C:73:GLY:CA	0.416
6	C:255:MET:CG	C:256:VAL:H	0.416
6	A:49:TRP:CD1	A:50:PRO:O	0.415
6	A:284:LEU:CA	A:287:ARG:HG2	0.415
6	C:77:PRO:HD3	C:90:THR:CB	0.415
6	C:230:GLU:O	C:234:TRP:CZ3	0.415
6	C:247:VAL:C	C:293:LYS:N	0.415
6	D:28:ALA:HB2	F:26:SER:C	0.415
6	D:81:ILE:O	D:90:VAL:HG23	0.415
6	D:266:HIS:HD2	D:268:ASN:HB3	0.415
6	D:295:ASN:CG	D:296:VAL:N	0.415
6	F:39:ARG:NH1	F:128:SER:C	0.415
6	C:36:VAL:HG22	C:37:TYR:HD1	0.415
6	D:253:PHE:HZ	D:258:ASP:OD1	0.415
6	A:92:ASN:CG	A:93:SER:N	0.415
6	C:255:MET:CG	C:256:VAL:N	0.415
6	D:183:HIS:NE2	D:205:ASP:CB	0.415
6	A:140:SER:HB3	A:158:LEU:CD2	0.414
6	A:142:ILE:CG2	A:379:TYR:CE2	0.414
6	A:410:MET:HB2	A:414:LYS:HZ1	0.414
6	C:30:LEU:O	C:34:LYS:HB2	0.414

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:56:ILE:HG21	C:84:SER:HB2	0.414
6	C:127:ARG:CG	C:149:HIS:CA	0.414
6	C:178:PHE:CA	C:181:LYS:HB3	0.414
6	C:253:TYR:CD2	C:253:TYR:O	0.414
6	D:19:ARG:CG	D:31:SER:CB	0.414
6	D:139:LEU:C	D:139:LEU:CD2	0.414
6	D:146:LEU:C	D:146:LEU:HD22	0.414
6	D:254:ASP:CB	D:261:LEU:HD21	0.414
6	D:292:PHE:CD2	D:311:HIS:O	0.414
6	F:104:PHE:CD2	F:104:PHE:O	0.414
6	C:3:CYS:N	D:55:LEU:CD1	0.414
6	C:51:SER:HB3	C:52:GLY:H	0.414
6	A:9:LEU:HD21	A:191:TRP:CH2	0.413
6	A:57:PHE:HB2	A:78:TYR:HB2	0.413
6	A:219:TYR:CD2	A:254:PRO:CG	0.413
6	A:283:TRP:CD1	A:287:ARG:HB3	0.413
6	A:344:PHE:CD1	A:364:GLU:CD	0.413
6	B:26:LEU:CD2	B:31:GLY:HA3	0.413
6	C:86:GLY:CA	C:90:THR:CG2	0.413
6	C:232:ARG:CZ	C:233:LYS:HB2	0.413
6	D:15:LYS:CA	D:18:ILE:HG23	0.413
6	D:183:HIS:HE1	D:207:SER:CB	0.413
6	D:37:ILE:N	F:32:ASN:HB2	0.413

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:198:LEU:N	C:198:LEU:HD22	0.413
6	D:32:GLN:HG2	D:224:GLY:H	0.413
6	D:296:VAL:CG1	D:297:TRP:N	0.413
6	A:60:VAL:CG1	A:61:SER:N	0.412
6	A:102:GLU:O	A:103:CYS:HB3	0.412
6	A:178:LEU:C	A:178:LEU:CD2	0.412
6	A:197:TYR:CZ	A:203:CYS:SG	0.412
6	A:256:LEU:O	A:260:PRO:HD3	0.412
6	A:300:ILE:HD11	A:337:LEU:CD1	0.412
6	C:99:LEU:O	C:178:PHE:CE1	0.412
6	C:245:ILE:HA	C:288:ILE:O	0.412
6	C:249:ALA:H	C:305:LYS:HD3	0.412
6	D:8:ARG:CZ	F:121:GLN:HB2	0.412
6	D:69:LEU:HB3	D:83:ASP:OD2	0.412
6	F:82:LEU:C	F:82:LEU:CD2	0.412
6	F:47:GLU:HG3	F:129:SER:HB2	0.412
6	A:77:VAL:HG12	A:78:TYR:N	0.412
6	C:100:LYS:HZ1	C:134:VAL:HG12	0.412
6	C:154:TRP:HH2	C:176:GLN:HE22	0.412
6	C:289:LEU:HD13	C:291:LEU:H	0.412
6	D:127:LYS:HG2	D:127:LYS:O	0.412
6	A:19:TYR:CG	A:65:TYR:CE2	0.411
6	A:43:PHE:CZ	A:45:GLU:O	0.411

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:60:VAL:HG23	A:76:HIS:CD2	0.411
6	A:201:LEU:HD21	A:204:ARG:NH1	0.411
6	A:379:TYR:CD2	A:380:CYS:N	0.411
6	A:275:THR:OG1	B:11:SER:HB3	0.411
6	C:92:VAL:HG13	C:207:ILE:CD1	0.411
6	C:212:PHE:CD2	C:213:GLN:O	0.411
6	C:277:TRP:HB3	F:106:ARG:CG	0.411
6	C:388:LEU:C	C:388:LEU:HD22	0.411
6	D:226:GLU:CD	D:226:GLU:H	0.411
6	D:282:GLY:C	D:284:LEU:H	0.411
6	C:214:VAL:CG1	C:215:ASP:H	0.411
6	C:184:VAL:HG23	C:293:LYS:HZ1	0.411
6	D:93:ILE:CG1	D:94:PRO:N	0.411
6	A:71:SER:HB2	A:108:ARG:CD	0.410
6	A:334:ILE:C	A:334:ILE:CD1	0.410
6	A:334:ILE:HG23	A:335:PRO:HD2	0.410
6	C:56:ILE:CD1	C:86:GLY:O	0.410
6	C:82:SER:N	C:84:SER:HB2	0.410
6	C:74:GLU:O	C:198:LEU:HG	0.410
6	C:154:TRP:CZ2	C:250:SER:CB	0.410
6	C:267:GLN:CD	C:294:GLN:NE2	0.410
6	C:291:LEU:HD12	C:341:ILE:HD13	0.410
6	C:305:LYS:C	C:307:LYS:CA	0.410

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:314:GLU:HG3	F:66:LYS:HE3	0.410
6	D:193:ALA:CB	D:234:PHE:CE2	0.410
6	D:282:GLY:C	D:284:LEU:N	0.410
6	D:226:GLU:O	F:118:TYR:CZ	0.410
6	D:13:GLN:NE2	D:14:LEU:H	0.410
6	D:340:ASN:C	D:340:ASN:ND2	0.410
6	A:18:GLU:C	A:20:ARG:N	0.409
6	A:33:PRO:CG	A:38:PHE:CZ	0.409
6	A:76:HIS:CD2	A:77:VAL:O	0.409
6	A:153:ARG:C	A:156:ILE:HG12	0.409
6	A:180:TRP:CE3	A:184:THR:HG21	0.409
6	A:261:TRP:CE2	A:282:TYR:OH	0.409
6	A:298:PHE:HD1	A:342:VAL:HG21	0.409
6	A:392:LYS:CB	D:42:ARG:HD2	0.409
6	C:127:ARG:C	C:127:ARG:CD	0.409
6	C:244:ILE:C	C:288:ILE:CG2	0.409
6	C:267:GLN:HE22	C:296:LEU:CG	0.409
6	C:391:TYR:N	C:391:TYR:O	0.409
6	A:65:TYR:CD1	A:65:TYR:O	0.409
6	A:261:TRP:NE1	A:282:TYR:HH	0.409
6	C:301:VAL:CG1	C:301:VAL:O	0.409
6	A:207:PHE:CZ	A:274:TRP:O	0.408
6	A:228:LEU:O	A:232:LEU:HD22	0.408

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:288:LEU:C	A:288:LEU:CD1	0.408
6	C:4:LEU:C	C:4:LEU:CD1	0.408
6	C:36:VAL:CG2	C:37:TYR:HD1	0.408
6	C:51:SER:HB2	C:54:ASN:CB	0.408
6	C:208:PHE:CG	C:223:ASP:HB3	0.408
6	C:266:LEU:HA	C:266:LEU:HD22	0.408
6	D:71:VAL:HG22	D:81:ILE:HG21	0.408
6	C:4:LEU:CA	D:78:LYS:HD2	0.408
6	D:80:ILE:HD13	D:92:ALA:CB	0.408
6	D:124:TYR:HE2	D:126:LEU:HD12	0.408
6	D:248:ALA:HB2	D:271:CYS:O	0.408
6	F:70:THR:O	F:70:THR:HG23	0.408
6	F:95:TYR:C	F:95:TYR:CD1	0.408
6	F:99:ARG:C	F:99:ARG:HD3	0.408
6	F:62:THR:CG2	F:129:SER:HA	0.408
6	C:234:TRP:H22	D:186:ASP:OD2	0.408
6	A:129:TYR:CD1	A:130:ALA:N	0.408
6	C:287:VAL:CG1	C:357:HIS:NE2	0.408
6	C:285:THR:O	C:345:PHE:HE2	0.408
6	A:75:GLY:HA3	A:102:GLU:HG3	0.407
6	A:361:LEU:HD12	A:362:PHE:CA	0.407
6	A:388:LEU:HG	D:44:GLN:HB2	0.407
6	C:4:LEU:CD2	D:78:LYS:HB2	0.407

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:96:LYS:CD	C:142:PHE:HB3	0.407
6	D:171:ILE:O	D:172:GLU:HB2	0.407
6	D:190:LEU:C	D:190:LEU:CD2	0.407
6	D:282:GLY:O	D:283:ARG:HB3	0.407
6	C:308:ILE:CD1	C:363:PHE:HE1	0.407
6	C:13:ARG:CD	C:14:ASN:H	0.407
6	A:140:SER:HB3	A:161:PHE:HD2	0.406
6	A:225:GLY:N	A:228:LEU:HG	0.406
6	A:258:VAL:C	A:260:PRO:HD2	0.406
6	A:261:TRP:CZ2	A:282:TYR:HE2	0.406
6	A:387:GLN:C	A:388:LEU:CD2	0.406
6	B:7:THR:O	B:10:VAL:HB	0.406
6	B:25:TRP:HD1	B:31:GLY:HA2	0.406
6	A:237:LEU:CD2	C:35:GLN:HG2	0.406
6	C:55:THR:CG2	C:207:ILE:HG23	0.406
6	C:99:LEU:CD1	C:185:ILE:HG21	0.406
6	C:274:ASP:O	C:277:TRP:HB2	0.406
6	C:360:TYR:CG	C:378:ASP:OD2	0.406
6	D:137:ARG:NE	D:172:GLU:HA	0.406
6	D:46:ARG:O	D:312:ASP:HB2	0.406
6	A:41:ARG:H	A:41:ARG:HE	0.406
6	C:23:ASN:HD21	D:88:ASN:CG	0.406
6	F:71:ILE:CG2	F:72:SER:N	0.406

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:434:THR:CG2	A:434:THR:O	0.406
6	C:236:GLN:O	D:332:TRP:CZ2	0.406
6	F:116:TYR:CD2	F:117:ALA:O	0.406
6	A:60:VAL:O	A:76:HIS:HB2	0.405
6	A:80:PHE:HD2	A:88:LEU:HG	0.405
6	A:174:LYS:HG3	A:210:MET:SD	0.405
6	A:182:TYR:CE2	B:17:GLN:HG2	0.405
6	A:226:VAL:C	A:228:LEU:H	0.405
6	A:326:LEU:C	A:326:LEU:CD1	0.405
6	A:373:LEU:C	A:373:LEU:CD2	0.405
6	C:98:ASN:ND2	C:174:CYS:HB2	0.405
6	C:191:VAL:O	C:212:PHE:CZ	0.405
6	C:270:LEU:C	C:270:LEU:CD2	0.405
6	D:146:LEU:C	D:146:LEU:CD2	0.405
6	F:92:THR:O	F:93:ALA:HB2	0.405
6	C:177:TYR:HA	C:177:TYR:HD1	0.405
6	C:42:ARG:HH12	D:98:SER:CB	0.405
6	A:68:TRP:CD1	A:72:VAL:CG2	0.404
6	A:150:HIS:CD2	A:151:CYS:N	0.404
6	A:240:GLN:HA	A:243:PHE:H	0.404
6	C:209:GLU:OE1	C:220:HIS:CE1	0.404
6	C:294:GLN:HG2	C:297:LEU:N	0.404
6	C:267:GLN:NE2	C:296:LEU:HG	0.404

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	D:222:PHE:HB2	D:253:PHE:CZ	0.404
6	D:242:ALA:HB2	D:252:LEU:HA	0.404
6	F:40:GLN:CB	F:46:LEU:HD22	0.404
6	C:291:LEU:CB	C:363:PHE:HD1	0.404
6	A:207:PHE:CE2	A:211:GLN:NE2	0.404
6	A:397:TRP:O	A:415:CYS:N	0.404
6	C:53:LYS:C	C:55:THR:N	0.404
6	C:227:GLN:NE2	C:228:ARG:N	0.404
6	C:264:ASN:HD21	C:269:ALA:CB	0.404
6	F:13:VAL:CG1	F:14:GLN:N	0.404
6	A:6:THR:O	A:6:THR:HG23	0.404
6	C:311:TYR:O	C:312:PHE:CD1	0.404
6	D:225:HIS:CE1	D:249:THR:OG1	0.404
6	F:61:TYR:HD1	F:62:THR:O	0.404
6	A:15:LYS:HB3	A:65:TYR:HB3	0.403
6	C:83:ASN:HB3	C:226:ALA:HB1	0.403
6	C:154:TRP:CD1	C:180:ASP:OD1	0.403
6	C:201:ARG:HG2	C:202:VAL:O	0.403
6	C:262:GLN:HB3	F:64:SER:CB	0.403
6	C:394:LEU:C	C:394:LEU:CD2	0.403
6	D:47:THR:HG21	D:333:ASP:O	0.403
6	D:57:LYS:CG	D:332:TRP:CE3	0.403
6	F:95:TYR:CD1	F:95:TYR:O	0.403

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	F:39:ARG:NH1	F:128:SER:HA	0.403
6	A:165:ILE:O	A:166:LEU:CB	0.403
6	A:223:VAL:CG1	A:246:TYR:CE1	0.402
6	A:407:ASP:O	A:408:SER:HB2	0.402
6	B:23:ILE:O	B:24:ALA:HB3	0.402
6	C:3:CYS:HB2	C:34:LYS:HA	0.402
6	C:49:GLY:HA2	C:58:LYS:CE	0.402
6	C:60:MET:C	C:74:GLU:CB	0.402
6	C:144:PRO:HB3	C:186:LYS:HG2	0.402
6	C:154:TRP:CZ3	C:179:LEU:HD11	0.402
6	C:169:TYR:CD2	C:170:GLN:O	0.402
6	C:208:PHE:CD2	C:223:ASP:CB	0.402
6	C:302:LEU:C	C:304:GLY:H	0.402
6	C:307:LYS:HB3	C:309:GLU:CA	0.402
6	D:34:THR:HB	F:29:THR:HB	0.402
6	D:292:PHE:CD2	D:311:HIS:C	0.402
6	C:198:LEU:CD2	C:198:LEU:N	0.402
6	C:284:ASP:CB	C:284:ASP:N	0.402
6	C:341:ILE:HG23	C:342:ARG:N	0.402
6	D:22:ARG:HD2	D:22:ARG:HH11	0.402
6	D:132:ASN:CG	D:133:VAL:N	0.402
6	A:27:LEU:HG	A:27:LEU:O	0.402
6	A:220:TRP:CZ3	A:250:GLY:O	0.402

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	C:57:VAL:O	C:185:ILE:HB	0.402
6	D:151:PHE:CE2	D:153:ASP:O	0.402
6	E:40:TYR:CG	E:40:TYR:O	0.402
6	A:174:LYS:HE2	A:210:MET:SD	0.402
6	C:231:ARG:HH12	C:235:ILE:HD12	0.401
6	D:54:HIS:CB	D:334:SER:CB	0.401
6	D:77:GLY:O	D:95:LEU:HB2	0.401
6	D:123:ILE:HG12	D:124:TYR:H	0.401
6	D:214:ARG:C	D:214:ARG:CD	0.401
6	D:280:LYS:HD3	D:322:ASP:O	0.401
6	F:16:GLY:HA2	F:87:LEU:H	0.401
6	F:71:ILE:HG23	F:81:TYR:O	0.401
6	A:140:SER:OG	A:161:PHE:HE2	0.401
6	A:302:VAL:CG1	A:303:ARG:N	0.401
6	B:1:HIS:CG	B:2:ALA:H	0.401
6	C:261:ASN:C	C:263:THR:N	0.401
6	A:148:HIS:CD2	D:46:ARG:NE	0.401
6	D:169:TRP:CG	D:170:ASP:N	0.401
6	A:16:TRP:CH2	A:45:GLU:O	0.401
6	C:236:GLN:O	D:332:TRP:CH2	0.401
6	C:289:LEU:O	C:290:PHE:CD1	0.401
6	D:247:ASP:OD2	F:28:PHE:CZ	0.401
6	A:182:TYR:CD2	B:14:LEU:O	0.400

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:194:LEU:C	A:194:LEU:CD2	0.400
6	C:60:MET:CA	C:74:GLU:HB2	0.400
6	C:209:GLU:CG	C:220:HIS:CE1	0.400
6	D:32:GLN:CD	D:224:GLY:H	0.400
6	D:111:TYR:CD2	D:123:ILE:HG13	0.400
6	A:274:TRP:HE1	A:282:TYR:HE2	0.400
6	A:330:THR:C	A:332:THR:H	0.400
6	C:71:GLU:N	C:197:LEU:CD2	0.400
6	C:231:ARG:HH22	C:235:ILE:HD12	0.400
6	C:146:PHE:CD1	C:146:PHE:O	0.400
6	C:318:TYR:CE2	C:319:THR:O	0.400
7	C:284:ASP:C	C:284:ASP:CA	1.602
7	E:1:MET:C	E:1:MET:CA	1.585
7	D:38:ASP:C	D:38:ASP:CA	1.569
7	A:401:HIS:CA	A:401:HIS:N	1.564
7	C:278:ASN:C	C:278:ASN:CA	1.561
7	C:58:LYS:C	C:58:LYS:CA	1.553
7	C:83:ASN:CA	C:83:ASN:N	1.541
7	C:305:LYS:C	C:305:LYS:CA	1.539
7	C:84:SER:C	C:84:SER:CA	1.530
7	C:293:LYS:CA	C:293:LYS:N	1.526
7	A:400:GLU:C	A:400:GLU:CA	1.520
7	C:82:SER:C	C:82:SER:CA	1.513

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:391:TYR:C	C:391:TYR:CA	1.513
7	D:47:THR:C	D:47:THR:CA	1.512
7	D:48:ARG:CA	D:48:ARG:N	1.512
7	C:88:LYS:CA	C:88:LYS:N	1.502
7	C:305:LYS:CA	C:305:LYS:N	1.494
7	D:32:GLN:C	D:33:ILE:N	1.494
7	D:35:ASN:C	D:36:ASN:N	1.486
7	C:293:LYS:C	C:293:LYS:CA	1.485
7	C:304:GLY:C	C:304:GLY:CA	1.480
7	D:34:THR:C	D:35:ASN:N	1.478
7	C:292:ASN:C	C:292:ASN:CA	1.461
7	D:33:ILE:C	D:34:THR:N	1.448
7	D:38:ASP:CA	D:38:ASP:N	1.442
7	C:87:GLU:C	C:87:GLU:CA	1.435
7	C:187:GLN:CA	C:187:GLN:N	1.435
7	C:188:ALA:C	C:189:ASP:N	1.435
7	D:37:ILE:CA	D:37:ILE:N	1.433
7	D:36:ASN:CA	D:36:ASN:N	1.426
7	D:37:ILE:C	D:37:ILE:CA	1.425
7	D:35:ASN:CA	D:35:ASN:N	1.418
7	C:186:LYS:C	C:186:LYS:CA	1.416
7	C:287:VAL:CA	C:287:VAL:N	1.407
7	C:187:GLN:C	C:188:ALA:N	1.392

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:33:ILE:CA	D:33:ILE:N	1.390
7	D:36:ASN:C	D:36:ASN:CA	1.385
7	D:34:THR:CA	D:34:THR:N	1.369
7	D:34:THR:C	D:34:THR:CA	1.359
7	D:32:GLN:C	D:32:GLN:CA	1.340
7	C:189:ASP:CA	C:189:ASP:N	1.337
7	D:35:ASN:C	D:35:ASN:CA	1.332
7	C:286:SER:C	C:286:SER:CA	1.325
7	D:33:ILE:C	D:33:ILE:CA	1.318
7	C:188:ALA:CA	C:188:ALA:N	1.277
7	C:188:ALA:C	C:188:ALA:CA	1.240
7	C:247:VAL:HA	C:292:ASN:HB3	1.175
7	A:308:VAL:HG23	C:388:LEU:HD13	1.148
7	C:187:GLN:C	C:187:GLN:CA	1.148
7	C:210:THR:HB	D:39:PRO:HA	1.144
7	C:50:GLU:HA	D:37:ILE:HA	1.141
7	A:401:HIS:HB2	C:377:ASN:HA	1.129
7	D:128:THR:HG21	D:133:VAL:HA	1.116
7	A:185:ALA:HB1	A:194:LEU:HD21	1.089
7	C:202:VAL:HG23	C:210:THR:HG23	1.087
7	C:305:LYS:HG3	F:110:ASP:HA	1.084
7	D:33:ILE:HA	D:33:ILE:N	1.079
7	A:383:ASN:HB3	C:126:PHE:HB2	1.073

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:72:GLY:HA2	C:81:ARG:HD3	1.054
7	C:61:ARG:HG3	C:81:ARG:HG3	1.048
7	C:88:LYS:HA	C:88:LYS:N	1.044
7	D:155:ASN:HA	D:171:ILE:HD11	1.044
7	D:56:ALA:HB1	D:75:GLN:HG2	1.040
7	A:311:LYS:HD3	C:388:LEU:HD12	1.039
7	D:29:THR:HB	F:4:GLN:HB3	1.039
7	D:120:ILE:HD13	D:140:ALA:HB2	1.019
7	B:11:SER:HA	B:14:LEU:HD13	1.015
7	C:305:LYS:C	C:305:LYS:CB	1.011
7	C:44:LEU:HD13	C:94:ASP:HB3	1.008
7	C:273:PHE:HA	C:276:ILE:HD12	1.008
7	C:191:VAL:HB	C:272:LEU:HB3	0.998
7	C:246:PHE:CG	C:289:LEU:HA	0.998
7	A:436:GLN:HG3	C:77:PRO:HB3	0.990
7	C:300:LYS:HA	C:300:LYS:HE3	0.989
7	C:308:ILE:HG21	F:45:GLY:HA3	0.989
7	C:208:PHE:CD2	C:222:PHE:HA	0.983
7	C:44:LEU:HD11	C:91:LYS:HA	0.982
7	C:57:VAL:HG21	C:235:ILE:HD11	0.982
7	C:90:THR:H	C:222:PHE:HB2	0.982
7	D:193:ALA:HB1	D:194:PRO:HD2	0.981
7	C:137:VAL:HG21	C:386:MET:HB2	0.980

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:295:ASP:HB3	C:300:LYS:HB2	0.980
7	D:22:ARG:HB3	D:25:CYS:HB2	0.977
7	A:412:PRO:HG2	A:413:LEU:HD13	0.976
7	C:290:PHE:HA	C:362:HIS:HB2	0.974
7	C:169:TYR:HB3	C:351:ALA:HB1	0.972
7	E:2:ALA:HB1	E:15:LEU:HD13	0.970
7	A:403:HIS:HB2	C:377:ASN:HB2	0.968
7	C:166:SER:HB3	C:171:LEU:HD22	0.967
7	C:1:MET:HG2	D:55:LEU:HB2	0.965
7	C:214:VAL:HG22	C:372:ILE:HD11	0.964
7	D:145:TYR:CZ	D:147:SER:HA	0.964
7	C:59:GLN:HG2	C:247:VAL:HB	0.963
7	D:293:ASN:HD22	D:309:ALA:HB2	0.963
7	D:193:ALA:HB3	D:198:LEU:HD11	0.962
7	C:280:LYS:HB3	C:295:ASP:HB2	0.961
7	C:209:GLU:HA	C:222:PHE:CG	0.960
7	A:294:ILE:HB	A:342:VAL:HG12	0.958
7	C:147:TYR:HE2	C:185:ILE:HD13	0.958
7	D:139:LEU:HG	D:169:TRP:CD2	0.957
7	A:218:TYR:CZ	A:290:ILE:HA	0.954
7	C:304:GLY:HA3	F:108:CYS:HB2	0.954
7	C:57:VAL:HG11	C:95:ILE:HD13	0.953
7	C:231:ARG:HG2	C:235:ILE:HB	0.952

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:88:LYS:HG3	C:91:LYS:HD2	0.951
7	C:202:VAL:HG11	D:43:ILE:HG13	0.949
7	A:152:THR:HB	A:396:ARG:HD2	0.948
7	C:221:MET:HB2	D:40:VAL:HG21	0.948
7	C:26:ILE:HG21	D:89:LYS:HE2	0.947
7	C:151:LYS:HB3	D:314:ARG:HD3	0.947
7	A:238:SER:HA	C:35:GLN:HB3	0.946
7	F:73:ARG:HB2	F:80:LEU:HD22	0.946
7	A:404:ILE:H	A:412:PRO:HA	0.945
7	C:95:ILE:C	C:238:PHE:HB3	0.942
7	C:46:LEU:HA	C:58:LYS:HZ1	0.941
7	C:96:LYS:HA	C:239:ASN:N	0.941
7	C:175:ALA:HB3	F:107:ASP:HB2	0.941
7	C:186:LYS:HG3	D:57:LYS:HD2	0.941
7	C:305:LYS:HA	F:109:PHE:CG	0.941
7	D:168:LEU:HB2	D:177:THR:HG23	0.941
7	A:236:VAL:HG11	C:217:VAL:HG13	0.940
7	C:45:LEU:HB3	C:59:GLN:HB2	0.940
7	D:117:LEU:HG	D:145:TYR:HB2	0.940
7	C:53:LYS:HA	C:227:GLN:CB	0.939
7	C:185:ILE:HG13	C:237:CYS:HA	0.937
7	C:160:ARG:HB2	F:104:PHE:HB3	0.934
7	C:271:LYS:HG3	F:113:SER:HB3	0.933

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:46:ARG:HG2	D:94:PRO:HD3	0.933
7	C:53:LYS:HG2	C:234:TRP:HB2	0.932
7	C:74:GLU:HA	C:82:SER:C	0.932
7	C:92:VAL:HA	C:237:CYS:HB2	0.932
7	C:191:VAL:HG13	C:228:ARG:HA	0.931
7	C:87:GLU:HG2	C:225:GLY:HA3	0.929
7	A:219:TYR:HA	A:222:LEU:HD22	0.927
7	A:1:ARG:HB3	A:2:PRO:HD3	0.926
7	C:58:LYS:HG3	C:94:ASP:HB3	0.926
7	C:99:LEU:HD21	C:179:LEU:HG	0.926
7	C:51:SER:HB2	C:88:LYS:HB2	0.924
7	C:181:LYS:HD2	C:184:VAL:HB	0.922
7	C:208:PHE:HD2	C:222:PHE:HA	0.922
7	F:48:TRP:CE3	F:111:VAL:HG23	0.922
7	C:99:LEU:HD11	C:182:ILE:HD12	0.921
7	A:95:LEU:HB3	A:96:PRO:HD2	0.918
7	A:398:ARG:HB2	C:383:ILE:HG13	0.918
7	C:205:SER:HB2	C:207:ILE:HB	0.917
7	C:206:GLY:H	D:118:ASP:HB2	0.917
7	C:61:ARG:HD2	C:73:GLY:HA2	0.916
7	F:40:GLN:CB	F:46:LEU:HD22	0.915
7	C:209:GLU:HA	C:222:PHE:CD1	0.914
7	C:202:VAL:HB	C:207:ILE:HD11	0.913

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:60:MET:N	C:247:VAL:HG12	0.913
7	C:305:LYS:HD3	F:116:TYR:HB3	0.912
7	C:305:LYS:CG	F:110:ASP:HA	0.910
7	C:87:GLU:HB3	C:226:ALA:HB2	0.909
7	C:45:LEU:HD12	C:83:ASN:CB	0.908
7	C:46:LEU:HA	C:58:LYS:HB3	0.908
7	D:79:LEU:HB3	D:93:ILE:HG12	0.908
7	D:250:CYS:HB3	D:273:ILE:HD11	0.906
7	C:147:TYR:CE2	C:185:ILE:HG21	0.905
7	A:33:PRO:HG3	A:51:ASP:HB3	0.904
7	A:258:VAL:HG12	A:286:ILE:HD13	0.904
7	F:35:MET:HG3	F:99:ARG:HB2	0.904
7	A:400:GLU:C	A:400:GLU:HA	0.903
7	C:60:MET:HB3	C:278:ASN:HB2	0.903
7	C:245:ILE:HD13	C:375:VAL:HG13	0.903
7	D:49:ARG:HD3	D:87:THR:HA	0.903
7	D:61:MET:HE3	D:70:LEU:HD21	0.902
7	C:54:ASN:HB2	C:91:LYS:HB2	0.901
7	C:173:ASP:HB3	C:300:LYS:HG3	0.900
7	C:96:LYS:HG2	C:239:ASN:HA	0.899
7	C:128:VAL:CG2	C:153:LEU:HD22	0.899
7	C:246:PHE:CD2	C:293:LYS:HG3	0.899
7	F:41:ALA:HB3	F:44:LYS:HG2	0.897

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:46:LEU:HD21	C:56:ILE:HD13	0.896
7	C:55:THR:HG22	C:227:GLN:HB3	0.896
7	F:40:GLN:HB2	F:46:LEU:HD22	0.896
7	C:74:GLU:C	C:84:SER:HA	0.895
7	C:297:LEU:HG	C:348:ILE:HG13	0.895
7	C:135:MET:HA	C:356:ARG:C	0.894
7	C:60:MET:HE1	C:253:TYR:HB3	0.892
7	C:90:THR:HG23	C:222:PHE:H	0.892
7	C:90:THR:H	C:222:PHE:CB	0.892
7	C:248:VAL:HG11	C:281:TRP:CE3	0.892
7	C:26:ILE:HD13	D:89:LYS:HE3	0.890
7	D:32:GLN:HG3	E:11:GLN:HG3	0.890
7	C:45:LEU:HD21	C:245:ILE:CA	0.888
7	C:57:VAL:HB	C:231:ARG:CD	0.888
7	C:82:SER:C	C:82:SER:CB	0.888
7	A:311:LYS:HD2	C:385:ARG:HG2	0.887
7	C:87:GLU:HA	C:225:GLY:N	0.887
7	C:289:LEU:HB2	C:361:PRO:HA	0.887
7	D:38:ASP:HB3	D:39:PRO:HD3	0.887
7	D:251:ARG:HB2	D:260:GLU:HG3	0.887
7	C:280:LYS:HG3	C:293:LYS:HE2	0.886
7	C:54:ASN:HB2	C:224:VAL:HG11	0.885
7	C:95:ILE:HB	C:235:ILE:HA	0.885

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:244:ILE:HB	C:287:VAL:CG1	0.885
7	C:244:ILE:HB	C:287:VAL:HB	0.885
7	C:185:ILE:HG22	C:236:GLN:HG3	0.884
7	C:134:VAL:HB	C:386:MET:HE2	0.883
7	C:178:PHE:HB3	C:235:ILE:HG23	0.883
7	C:96:LYS:N	C:238:PHE:HB3	0.883
7	C:248:VAL:CG2	C:292:ASN:HA	0.883
7	C:61:ARG:HG2	C:62:ILE:H	0.882
7	C:92:VAL:HG13	C:237:CYS:HB3	0.882
7	C:305:LYS:HD2	F:112:THR:H	0.882
7	C:170:GLN:N	C:351:ALA:HB3	0.882
7	D:128:THR:CG2	D:133:VAL:HA	0.881
7	C:24:LYS:HD2	C:27:GLU:HB3	0.879
7	C:57:VAL:HG12	C:231:ARG:HH11	0.878
7	C:274:ASP:HA	C:277:TRP:HB3	0.878
7	C:302:LEU:HD22	F:51:ASP:HB3	0.878
7	C:96:LYS:HA	C:239:ASN:H	0.877
7	C:54:ASN:C	C:224:VAL:HB	0.876
7	C:57:VAL:HB	C:235:ILE:HG13	0.876
7	C:185:ILE:HD11	D:332:TRP:HZ3	0.876
7	C:210:THR:CB	D:39:PRO:HA	0.875
7	C:53:LYS:HA	C:227:GLN:HB2	0.874
7	C:136:ASN:HB2	C:382:ILE:HG13	0.874

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:208:PHE:HB3	C:222:PHE:HB3	0.874
7	A:402:LEU:H	C:377:ASN:HB3	0.874
7	C:246:PHE:HE1	C:292:ASN:H	0.874
7	C:54:ASN:H	C:227:GLN:HB2	0.873
7	D:318:LEU:HD13	D:319:GLY:N	0.873
7	A:403:HIS:HA	A:412:PRO:HB3	0.872
7	C:44:LEU:HB3	C:94:ASP:CB	0.872
7	C:50:GLU:HA	D:37:ILE:CA	0.872
7	D:19:ARG:HG3	D:27:ASP:HA	0.872
7	C:44:LEU:CD2	C:58:LYS:HD2	0.871
7	C:246:PHE:CZ	C:289:LEU:HB3	0.871
7	C:186:LYS:HZ3	D:314:ARG:HB3	0.868
7	C:45:LEU:HD12	C:83:ASN:HB2	0.866
7	C:296:LEU:HB3	C:299:GLU:HB2	0.866
7	C:51:SER:C	C:226:ALA:HB3	0.865
7	C:53:LYS:HA	C:227:GLN:HG3	0.865
7	C:74:GLU:HG3	C:208:PHE:CE1	0.865
7	A:335:PRO:HB2	A:375:VAL:HG23	0.864
7	C:46:LEU:HD12	C:58:LYS:N	0.864
7	C:56:ILE:HD11	C:275:SER:HB3	0.864
7	C:61:ARG:HA	C:81:ARG:H	0.864
7	C:153:LEU:HD21	C:159:VAL:HG21	0.863
7	A:312:LEU:HD12	A:326:LEU:CD2	0.862

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:55:THR:N	C:224:VAL:HB	0.862
7	C:53:LYS:HD2	C:189:ASP:HB2	0.861
7	A:410:MET:HA	C:373:ARG:HD3	0.860
7	C:8:LYS:HE3	C:28:LYS:HD2	0.859
7	D:304:ARG:HH21	D:307:VAL:HG13	0.859
7	A:156:ILE:HD11	A:223:VAL:HG23	0.857
7	C:246:PHE:CD2	C:289:LEU:HA	0.856
7	C:50:GLU:N	C:87:GLU:HB2	0.855
7	C:94:ASP:N	C:238:PHE:HB2	0.855
7	D:117:LEU:HG	D:145:TYR:CB	0.855
7	C:50:GLU:HB2	C:87:GLU:N	0.854
7	D:89:LYS:HB2	D:89:LYS:HZZ	0.854
7	D:145:TYR:CE2	D:147:SER:HA	0.854
7	A:121:LEU:HD11	A:361:LEU:HD23	0.852
7	D:232:ILE:HD11	D:241:PHE:CD1	0.852
7	C:89:ALA:HB3	C:209:GLU:HB3	0.851
7	A:142:ILE:HG13	A:143:LEU:HD13	0.849
7	C:50:GLU:HG2	C:86:GLY:HA3	0.849
7	D:71:VAL:HG12	D:79:LEU:HD21	0.849
7	C:140:PHE:H	C:242:THR:HA	0.848
7	C:247:VAL:CA	C:292:ASN:HB3	0.848
7	C:283:ARG:HG2	C:310:ASP:HB3	0.848
7	A:401:HIS:N	C:380:ARG:HB2	0.848

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:49:ARG:HA	D:51:LEU:HA	0.848
7	A:180:TRP:HA	A:184:THR:HG21	0.847
7	C:296:LEU:HG	C:299:GLU:HG3	0.847
7	A:401:HIS:HA	A:401:HIS:N	0.847
7	C:46:LEU:N	C:82:SER:HB2	0.846
7	C:269:ALA:N	C:272:LEU:HG	0.846
7	A:403:HIS:CG	C:374:ARG:HA	0.844
7	C:75:GLU:N	C:84:SER:HA	0.844
7	C:281:TRP:HB3	C:283:ARG:HB2	0.844
7	C:46:LEU:HA	C:58:LYS:NZ	0.843
7	D:171:ILE:H	D:171:ILE:HD13	0.843
7	D:56:ALA:HB1	D:75:GLN:CG	0.842
7	C:135:MET:HA	C:356:ARG:CA	0.840
7	C:279:ASN:HA	C:292:ASN:C	0.840
7	C:137:VAL:CG1	C:383:ILE:HA	0.838
7	C:53:LYS:HA	C:227:GLN:CG	0.837
7	C:99:LEU:HD21	C:179:LEU:HD23	0.837
7	C:114:VAL:HG23	C:115:PRO:HD3	0.835
7	C:140:PHE:CD1	C:386:MET:HE1	0.834
7	C:93:GLN:HB2	C:241:VAL:HG23	0.833
7	C:144:PRO:HB3	D:333:ASP:CA	0.833
7	C:247:VAL:HA	C:292:ASN:CB	0.833
7	D:38:ASP:C	D:38:ASP:HA	0.833

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:35:ASN:HA	D:35:ASN:N	0.832
7	C:92:VAL:HG21	D:99:TRP:CE3	0.831
7	C:305:LYS:N	F:109:PHE:HA	0.831
7	A:288:LEU:HB3	A:289:PRO:HD3	0.830
7	C:138:PRO:HD2	C:382:ILE:HG12	0.829
7	C:50:GLU:HB3	C:207:ILE:C	0.828
7	C:137:VAL:HG13	C:383:ILE:HA	0.828
7	A:291:LEU:HA	A:294:ILE:HG12	0.827
7	C:58:LYS:HD2	C:224:VAL:HG23	0.827
7	C:170:GLN:HB2	C:348:ILE:HA	0.827
7	C:231:ARG:HB3	C:235:ILE:HG13	0.827
7	D:166:CYS:HB2	D:180:PHE:HB3	0.827
7	D:209:LYS:HG2	D:221:THR:HA	0.827
7	C:53:LYS:HE2	C:233:LYS:HB2	0.826
7	C:247:VAL:HG22	C:292:ASN:CG	0.825
7	C:249:ALA:HA	C:253:TYR:HD1	0.825
7	A:258:VAL:HA	A:286:ILE:HD11	0.824
7	C:87:GLU:HB3	C:226:ALA:CB	0.824
7	C:88:LYS:HA	C:91:LYS:HZ2	0.824
7	C:137:VAL:HG12	C:138:PRO:O	0.823
7	C:108:ALA:HB1	C:354:ASP:N	0.822
7	A:387:GLN:HA	A:390:PHE:CD2	0.821
7	A:411:LYS:HG3	A:412:PRO:HD2	0.821

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:211:LYS:HA	D:41:GLY:C	0.821
7	F:9:GLY:O	F:123:THR:HG21	0.821
7	C:4:LEU:HD12	D:52:ARG:HB2	0.820
7	C:45:LEU:HD13	C:59:GLN:CD	0.820
7	C:62:ILE:HG22	C:80:ALA:HB2	0.820
7	C:105:THR:HG23	C:352:SER:HB2	0.820
7	C:305:LYS:HE2	F:116:TYR:HD2	0.820
7	D:18:ILE:HD12	E:23:ALA:HA	0.820
7	D:293:ASN:ND2	D:309:ALA:HB2	0.820
7	C:198:LEU:HA	D:38:ASP:HB2	0.819
7	C:248:VAL:HG13	C:278:ASN:C	0.819
7	C:167:ASN:H	F:58:SER:HB3	0.819
7	A:405:GLN:HB3	A:414:LYS:HD2	0.817
7	C:97:ASN:HB2	C:238:PHE:CE2	0.817
7	D:57:LYS:HA	D:332:TRP:CD1	0.817
7	D:79:LEU:HD11	D:112:VAL:HG11	0.817
7	D:271:CYS:HB2	D:290:ASP:HB2	0.817
7	A:394:TRP:CZ3	C:143:PRO:HB2	0.816
7	A:398:ARG:O	A:399:LEU:HD23	0.816
7	C:91:LYS:HA	C:224:VAL:HG21	0.816
7	C:95:ILE:CB	C:235:ILE:HA	0.816
7	C:148:GLU:CA	D:313:ASN:HA	0.816
7	C:171:LEU:HD11	C:301:VAL:HG13	0.816

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:93:GLN:N	C:238:PHE:HA	0.816
7	C:293:LYS:C	C:293:LYS:N	0.816
7	F:62:THR:HG23	F:65:VAL:H	0.816
7	A:388:LEU:HD13	A:391:ARG:HB3	0.815
7	C:46:LEU:CA	C:58:LYS:HB3	0.815
7	C:148:GLU:HB2	D:312:ASP:C	0.815
7	C:49:GLY:N	C:193:SER:HB2	0.815
7	C:208:PHE:HE2	D:40:VAL:HG22	0.815
7	C:186:LYS:O	D:101:MET:HE2	0.815
7	C:76:ASP:HB3	C:81:ARG:CD	0.814
7	C:247:VAL:HG22	C:292:ASN:OD1	0.814
7	C:57:VAL:HB	C:231:ARG:HD3	0.813
7	F:96:TYR:CE1	F:120:GLY:HA3	0.813
7	C:53:LYS:HE2	C:234:TRP:H	0.812
7	C:91:LYS:HE2	D:117:LEU:HD22	0.812
7	C:130:TYR:HB3	C:149:HIS:CE1	0.812
7	D:292:PHE:CE1	D:311:HIS:HB2	0.812
7	A:224:GLU:CD	A:336:LEU:HD12	0.811
7	C:59:GLN:CG	C:247:VAL:HB	0.811
7	C:278:ASN:C	C:278:ASN:HA	0.811
7	C:292:ASN:C	C:292:ASN:HA	0.811
7	D:328:ALA:HB1	D:336:LEU:HD11	0.811
7	A:223:VAL:O	A:226:VAL:HG12	0.810

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:95:ILE:HG22	C:231:ARG:NH2	0.810
7	C:136:ASN:H	C:357:HIS:HA	0.809
7	C:46:LEU:HD23	C:55:THR:OG1	0.808
7	C:127:ARG:HA	C:149:HIS:CE1	0.808
7	D:117:LEU:HG	D:145:TYR:CD1	0.808
7	F:77:LYS:HE3	F:79:THR:HG21	0.808
7	C:142:PHE:HB3	C:240:ASP:CA	0.807
7	D:95:LEU:HD11	D:100:VAL:HG21	0.807
7	A:436:GLN:HB2	C:77:PRO:HG3	0.806
7	C:45:LEU:HD21	C:245:ILE:N	0.806
7	C:138:PRO:HD2	C:382:ILE:CG1	0.806
7	C:91:LYS:NZ	C:224:VAL:HG13	0.806
7	C:305:LYS:CD	F:116:TYR:HB3	0.806
7	F:13:VAL:HG21	F:19:LEU:HD21	0.806
7	C:244:ILE:HD12	C:287:VAL:HB	0.805
7	C:289:LEU:H	C:289:LEU:HD23	0.805
7	C:232:ARG:N	C:235:ILE:HD12	0.804
7	E:27:ARG:H	E:27:ARG:HD3	0.804
7	A:301:PHE:CE2	A:305:ILE:HD11	0.803
7	A:312:LEU:HD12	A:326:LEU:HD21	0.803
7	C:87:GLU:C	C:87:GLU:HA	0.803
7	F:46:LEU:HB2	F:111:VAL:HG13	0.803
7	A:207:PHE:HA	A:210:MET:HE2	0.802

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:305:LYS:HA	F:109:PHE:CD2	0.802
7	C:45:LEU:HD21	C:245:ILE:HA	0.801
7	C:92:VAL:HG21	D:99:TRP:CD2	0.801
7	C:142:PHE:CE1	C:146:PHE:HB3	0.800
7	C:163:TYR:CG	F:106:ARG:HB3	0.800
7	D:45:MET:O	D:94:PRO:HA	0.800
7	F:40:GLN:O	F:93:ALA:HB1	0.800
7	A:216:ALA:HA	A:220:TRP:CZ3	0.799
7	A:403:HIS:CB	C:374:ARG:HA	0.799
7	C:80:ALA:HA	C:252:SER:HA	0.799
7	C:60:MET:N	C:82:SER:HA	0.799
7	C:99:LEU:CD2	C:179:LEU:HG	0.799
7	C:185:ILE:HD11	D:332:TRP:CZ3	0.799
7	C:220:HIS:HB3	C:222:PHE:CZ	0.799
7	C:238:PHE:CD2	C:241:VAL:HB	0.799
7	A:161:PHE:HZ	A:165:ILE:HD12	0.798
7	C:44:LEU:HB3	C:94:ASP:HA	0.798
7	C:94:ASP:H	C:238:PHE:HB2	0.798
7	C:309:GLU:HB2	F:44:LYS:HD3	0.798
7	C:332:PRO:HA	C:335:THR:HG22	0.798
7	C:54:ASN:CB	C:91:LYS:HB2	0.796
7	C:46:LEU:N	C:58:LYS:HB3	0.796
7	C:96:LYS:HE3	C:239:ASN:HB2	0.796

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:108:ALA:HB2	C:354:ASP:HB2	0.796
7	C:134:VAL:HB	C:386:MET:CE	0.796
7	C:176:GLN:CG	F:105:THR:HG23	0.796
7	D:193:ALA:HB3	D:198:LEU:CD1	0.796
7	A:136:LEU:HB3	A:161:PHE:CE1	0.795
7	C:42:ARG:HB2	C:241:VAL:HG22	0.794
7	C:211:LYS:HA	D:41:GLY:CA	0.794
7	C:55:THR:H	C:227:GLN:HB2	0.794
7	C:53:LYS:CE	C:233:LYS:HB2	0.793
7	C:198:LEU:HD22	C:199:ARG:H	0.793
7	D:49:ARG:HG2	D:50:THR:H	0.793
7	D:51:LEU:HD22	D:336:LEU:HB3	0.793
7	C:154:TRP:CZ2	F:105:THR:HA	0.792
7	C:231:ARG:HG2	C:235:ILE:H	0.792
7	C:305:LYS:HD2	F:112:THR:N	0.791
7	D:304:ARG:HD3	E:55:PRO:HA	0.791
7	C:190:TYR:CE2	D:143:THR:HB	0.790
7	C:201:ARG:HD2	D:39:PRO:HB3	0.790
7	C:244:ILE:HB	C:287:VAL:CB	0.790
7	D:120:ILE:CD1	D:140:ALA:HB2	0.790
7	C:75:GLU:HA	C:81:ARG:HB2	0.789
7	C:280:LYS:CB	C:295:ASP:HB2	0.789
7	A:185:ALA:CB	A:194:LEU:HD21	0.788

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:48:ALA:HB3	C:61:ARG:CG	0.788
7	C:57:VAL:HG11	C:235:ILE:HG12	0.788
7	C:106:ILE:HD12	C:163:TYR:HB2	0.788
7	C:44:LEU:HD13	C:94:ASP:CB	0.787
7	C:48:ALA:N	C:61:ARG:HB3	0.787
7	C:92:VAL:HA	C:237:CYS:CB	0.787
7	C:269:ALA:HA	C:272:LEU:HD12	0.787
7	C:295:ASP:CB	C:300:LYS:HB2	0.787
7	F:41:ALA:HA	F:93:ALA:HB2	0.787
7	C:167:ASN:HB2	F:58:SER:HB3	0.786
7	C:291:LEU:HD12	C:294:GLN:HE22	0.786
7	C:51:SER:CB	C:88:LYS:HB2	0.785
7	C:54:ASN:HB2	C:224:VAL:CG1	0.785
7	C:84:SER:C	C:84:SER:HA	0.785
7	C:99:LEU:HD21	C:179:LEU:CD2	0.785
7	C:105:THR:HA	C:352:SER:CB	0.785
7	C:127:ARG:HA	C:149:HIS:ND1	0.785
7	C:55:THR:H	C:227:GLN:CB	0.785
7	C:246:PHE:CE2	C:289:LEU:HD22	0.785
7	D:69:LEU:H	D:69:LEU:HD13	0.785
7	F:88:LYS:HE3	F:91:ASP:HB2	0.785
7	A:59:ASN:HB2	A:76:HIS:HB3	0.784
7	C:248:VAL:HG23	C:291:LEU:O	0.784

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	F:71:ILE:HD11	F:82:LEU:HD22	0.784
7	A:261:TRP:CD1	A:282:TYR:HH	0.783
7	C:50:GLU:CG	C:86:GLY:HA3	0.781
7	C:73:GLY:HA2	C:81:ARG:HA	0.781
7	C:106:ILE:HB	C:163:TYR:CD1	0.781
7	C:175:ALA:CB	F:107:ASP:HB2	0.781
7	C:53:LYS:NZ	C:233:LYS:HB2	0.781
7	D:183:HIS:CE1	D:203:ALA:HB3	0.781
7	F:2:GLN:HG2	F:3:VAL:H	0.781
7	C:304:GLY:HA3	F:108:CYS:CB	0.780
7	F:30:PHE:HZ	F:73:ARG:HG3	0.779
7	C:58:LYS:HE2	C:224:VAL:HB	0.778
7	C:136:ASN:HB3	C:358:TYR:HB3	0.778
7	A:394:TRP:HE1	C:146:PHE:HB2	0.778
7	C:186:LYS:HD2	D:316:SER:HB3	0.778
7	D:206:ALA:HB1	D:225:HIS:HB2	0.778
7	D:292:PHE:CZ	D:311:HIS:HB2	0.778
7	F:14:GLN:HG3	F:15:PRO:HD2	0.778
7	A:239:GLU:HG2	A:240:GLN:H	0.777
7	A:436:GLN:HG3	C:77:PRO:CB	0.777
7	C:46:LEU:HD22	C:275:SER:O	0.777
7	C:248:VAL:HG23	C:292:ASN:HA	0.777
7	C:289:LEU:HG	C:360:TYR:C	0.777

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:117:LEU:HG	D:145:TYR:CG	0.777
7	C:89:ALA:HB3	C:222:PHE:CD2	0.776
7	C:93:GLN:CA	C:238:PHE:HA	0.776
7	E:4:ASN:HB2	E:11:GLN:HG2	0.776
7	F:5:LEU:HD13	F:25:ALA:HB2	0.776
7	C:62:ILE:HG13	C:63:LEU:H	0.775
7	C:140:PHE:N	C:242:THR:HA	0.775
7	C:281:TRP:HB3	C:283:ARG:CA	0.775
7	D:239:ASN:O	D:255:LEU:HG	0.775
7	A:218:TYR:CD1	A:290:ILE:HG13	0.774
7	B:22:PHE:CE2	B:26:LEU:HD11	0.774
7	C:99:LEU:HD21	C:179:LEU:CG	0.774
7	C:137:VAL:HG11	C:386:MET:CB	0.774
7	D:167:ALA:HB1	D:176:GLN:HG3	0.774
7	A:190:GLN:O	A:194:LEU:HG	0.773
7	C:42:ARG:C	C:43:LEU:HD12	0.773
7	C:46:LEU:HB3	C:278:ASN:ND2	0.773
7	C:153:LEU:CD2	C:159:VAL:HG21	0.773
7	C:183:ASP:HA	C:186:LYS:HZ1	0.773
7	C:280:LYS:H	C:293:LYS:C	0.773
7	D:89:LYS:HB2	D:89:LYS:NZ	0.773
7	D:337:LYS:HE3	D:339:TRP:HA	0.773
7	C:55:THR:HB	C:224:VAL:O	0.772

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:177:TYR:CD2	C:232:ARG:HB3	0.772
7	C:186:LYS:CG	D:316:SER:HB3	0.772
7	C:198:LEU:HB2	D:38:ASP:HB2	0.772
7	D:211:TRP:HE1	D:213:VAL:HA	0.772
7	A:394:TRP:CH2	C:143:PRO:HB2	0.771
7	C:44:LEU:HB2	C:93:GLN:O	0.771
7	C:137:VAL:HG21	C:386:MET:CB	0.771
7	C:186:LYS:HB3	D:316:SER:HA	0.771
7	C:246:PHE:CE2	C:293:LYS:HD3	0.771
7	D:51:LEU:CB	D:336:LEU:HB3	0.771
7	A:394:TRP:CD1	C:130:TYR:HH	0.770
7	C:49:GLY:N	C:87:GLU:HG3	0.770
7	C:142:PHE:HB3	C:240:ASP:HA	0.770
7	C:181:LYS:HE3	C:233:LYS:HA	0.770
7	A:399:LEU:O	C:383:ILE:HD12	0.770
7	D:226:GLU:HB3	F:28:PHE:CD1	0.770
7	D:289:TYR:HE2	D:291:ASP:HB3	0.770
7	D:337:LYS:HD3	D:339:TRP:H	0.770
7	A:267:LEU:HD12	A:268:TYR:N	0.768
7	C:50:GLU:HG2	C:86:GLY:CA	0.768
7	C:57:VAL:HG21	C:235:ILE:CD1	0.768
7	C:212:PHE:HB2	D:40:VAL:HA	0.768
7	D:47:THR:C	D:47:THR:CB	0.768

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:317:MET:HE3	C:350:THR:HA	0.767
7	C:58:LYS:CD	C:224:VAL:HG23	0.767
7	C:58:LYS:HG3	C:94:ASP:CB	0.767
7	C:99:LEU:HA	C:178:PHE:CD1	0.767
7	C:232:ARG:HB2	C:235:ILE:HG21	0.767
7	C:105:THR:HA	C:352:SER:HB2	0.766
7	C:109:ALA:HB2	C:352:SER:HA	0.766
7	C:280:LYS:HG2	C:286:SER:HA	0.766
7	D:145:TYR:OH	D:147:SER:HA	0.766
7	D:145:TYR:HE2	D:147:SER:HB2	0.766
7	A:136:LEU:HB3	A:161:PHE:CD1	0.765
7	A:294:ILE:HB	A:342:VAL:CG1	0.765
7	C:93:GLN:HB2	C:241:VAL:CG2	0.765
7	C:170:GLN:HB2	C:348:ILE:CA	0.765
7	C:53:LYS:N	D:117:LEU:HD21	0.765
7	E:47:GLU:HG2	E:48:ASP:H	0.765
7	C:154:TRP:H22	F:105:THR:HA	0.765
7	A:377:ILE:HG13	A:381:PHE:CD1	0.764
7	C:91:LYS:H21	C:224:VAL:HG13	0.764
7	D:29:THR:HG21	F:4:GLN:N	0.764
7	D:48:ARG:HG2	D:49:ARG:H	0.764
7	F:35:MET:HB3	F:80:LEU:HD12	0.764
7	C:80:ALA:CA	C:252:SER:HA	0.763

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:96:LYS:HZ2	C:182:ILE:HG13	0.763
7	D:297:TRP:CZ3	D:299:ALA:HA	0.763
7	F:96:TYR:CE2	F:119:ARG:HA	0.763
7	C:45:LEU:HD11	C:245:ILE:HG23	0.762
7	C:300:LYS:CE	C:300:LYS:HA	0.762
7	C:345:PHE:HZ	C:359:CYS:HB2	0.762
7	D:304:ARG:NH2	D:307:VAL:HG13	0.762
7	A:35:THR:HG22	A:36:ASP:H	0.761
7	A:383:ASN:CG	C:126:PHE:HA	0.761
7	A:391:ARG:HG3	C:390:GLN:HG3	0.761
7	C:44:LEU:HD21	C:58:LYS:HD2	0.761
7	C:61:ARG:CA	C:81:ARG:H	0.761
7	C:249:ALA:HA	C:253:TYR:CD1	0.761
7	A:218:TYR:CG	A:290:ILE:HG13	0.760
7	A:394:TRP:HB3	A:398:ARG:HH21	0.760
7	C:321:PRO:HG3	C:339:TYR:CD1	0.760
7	A:243:PHE:HA	A:246:TYR:CE2	0.759
7	C:73:GLY:N	C:81:ARG:HB3	0.759
7	C:181:LYS:CD	C:184:VAL:HB	0.759
7	D:59:TYR:CE2	D:60:ALA:HB2	0.759
7	D:267:ASP:HB3	E:64:LYS:HB3	0.759
7	F:35:MET:HE1	F:80:LEU:HB2	0.759
7	F:96:TYR:CD2	F:119:ARG:HG3	0.759

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:103:ILE:O	C:131:ILE:HD11	0.758
7	C:279:ASN:HB2	C:281:TRP:HE3	0.757
7	C:284:ASP:C	C:284:ASP:CB	0.757
7	D:15:LYS:HB2	E:1:MET:SD	0.757
7	D:276:VAL:HG13	D:285:LEU:HD11	0.757
7	C:186:LYS:NZ	D:314:ARG:HB3	0.757
7	C:244:ILE:HG22	C:287:VAL:O	0.756
7	C:280:LYS:H	C:293:LYS:CA	0.756
7	C:305:LYS:CE	F:116:TYR:HB3	0.756
7	D:72:SER:HB3	D:82:TRP:CZ3	0.756
7	D:211:TRP:CZ2	D:216:GLY:HA2	0.756
7	D:304:ARG:HB3	E:55:PRO:HB3	0.756
7	F:119:ARG:HG3	F:120:GLY:H	0.756
7	C:49:GLY:HA2	C:193:SER:C	0.755
7	C:74:GLU:HB3	C:83:ASN:N	0.755
7	C:171:LEU:HD22	F:106:ARG:HD3	0.755
7	A:140:SER:HB3	A:161:PHE:CE2	0.754
7	A:400:GLU:HA	C:380:ARG:HG3	0.754
7	C:48:ALA:HB2	C:276:ILE:CG2	0.754
7	C:96:LYS:HD3	C:99:LEU:HB3	0.754
7	D:32:GLN:NE2	E:8:SER:HA	0.754
7	A:182:TYR:CE1	B:14:LEU:HB2	0.753
7	C:51:SER:H	C:87:GLU:CB	0.753

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:171:LEU:HB3	F:106:ARG:NH1	0.753
7	C:183:ASP:HA	D:314:ARG:HE	0.753
7	D:48:ARG:HG2	D:49:ARG:N	0.753
7	F:87:LEU:HD13	F:88:LYS:N	0.753
7	A:253:VAL:HB	A:254:PRO:HD3	0.752
7	C:135:MET:HE3	C:355:GLY:HA2	0.752
7	C:231:ARG:HG2	C:235:ILE:N	0.752
7	D:57:LYS:HE2	D:59:TYR:HB2	0.752
7	D:297:TRP:CE2	D:302:ALA:HA	0.752
7	C:50:GLU:HB2	C:86:GLY:C	0.751
7	C:109:ALA:HB2	C:352:SER:CA	0.751
7	C:281:TRP:HB3	C:283:ARG:CB	0.751
7	C:305:LYS:HA	F:109:PHE:CD1	0.751
7	C:305:LYS:HE2	F:116:TYR:CD2	0.751
7	C:330:GLU:HA	C:330:GLU:OE1	0.751
7	A:261:TRP:CZ3	A:283:TRP:HA	0.750
7	A:398:ARG:HB2	C:383:ILE:CG1	0.750
7	C:45:LEU:C	C:82:SER:HB2	0.750
7	C:53:LYS:CB	C:227:GLN:HG3	0.750
7	C:173:ASP:HB3	C:300:LYS:CG	0.750
7	C:181:LYS:HG3	C:184:VAL:HB	0.750
7	D:117:LEU:CG	D:145:TYR:HB2	0.750
7	D:256:ARG:HG2	E:28:ILE:HG22	0.750

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	F:36:ASN:HD21	F:98:ALA:HB3	0.750
7	C:54:ASN:ND2	C:231:ARG:HH21	0.750
7	C:55:THR:HA	C:58:LYS:CE	0.749
7	C:104:GLU:HG2	C:356:ARG:HB3	0.749
7	C:98:ASN:N	C:244:ILE:HD11	0.749
7	D:29:THR:HB	F:4:GLN:CB	0.749
7	D:130:GLU:HG2	D:131:GLY:H	0.749
7	C:45:LEU:HD12	C:83:ASN:CA	0.748
7	C:88:LYS:CA	C:91:LYS:HZ2	0.748
7	C:231:ARG:HD3	C:235:ILE:HG13	0.748
7	C:139:ASP:HA	C:242:THR:CG2	0.747
7	C:142:PHE:CD1	C:146:PHE:HB3	0.747
7	F:33:TYR:CD1	F:99:ARG:HG3	0.747
7	C:58:LYS:NZ	C:224:VAL:H	0.747
7	A:245:LEU:O	A:245:LEU:HD13	0.746
7	A:403:HIS:CA	A:412:PRO:HB3	0.746
7	C:46:LEU:HD13	C:285:THR:OG1	0.746
7	C:93:GLN:HB2	C:241:VAL:CB	0.746
7	C:95:ILE:HG22	C:231:ARG:CZ	0.746
7	C:169:TYR:CB	C:351:ALA:HB1	0.746
7	C:290:PHE:CE1	C:371:ASN:HB3	0.746
7	C:305:LYS:HB2	F:111:VAL:N	0.746
7	D:232:ILE:HD13	D:243:THR:HB	0.746

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:118:LEU:HD13	B:6:PHE:CZ	0.745
7	A:393:SER:HB2	A:397:TRP:CZ3	0.745
7	C:88:LYS:HE2	D:97:SER:HB3	0.745
7	C:95:ILE:CD1	C:98:ASN:HB3	0.745
7	D:292:PHE:CD2	D:293:ASN:HA	0.745
7	C:43:LEU:HD13	C:221:MET:HG2	0.744
7	C:45:LEU:HD11	C:245:ILE:CB	0.744
7	C:246:PHE:HZ	C:294:GLN:HG3	0.744
7	C:370:GLU:HB3	C:372:ILE:HG22	0.744
7	F:30:PHE:HA	F:33:TYR:HE2	0.744
7	C:305:LYS:H	F:110:ASP:H	0.744
7	C:127:ARG:HD3	C:128:VAL:N	0.743
7	D:297:TRP:HE1	D:302:ALA:HB1	0.743
7	A:126:THR:HA	A:129:TYR:CE2	0.742
7	C:46:LEU:HD22	C:278:ASN:HD21	0.742
7	C:74:GLU:HB3	C:83:ASN:C	0.742
7	C:89:ALA:N	C:91:LYS:HG2	0.742
7	C:106:ILE:HB	C:163:TYR:CE1	0.742
7	D:19:ARG:HG3	D:27:ASP:CA	0.742
7	D:329:THR:C	D:336:LEU:HD22	0.742
7	A:401:HIS:CE1	C:381:ASP:HB2	0.741
7	A:403:HIS:HA	A:412:PRO:CB	0.741
7	C:44:LEU:CD1	C:231:ARG:HH22	0.741

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:56:ILE:CG1	C:229:ASP:HA	0.741
7	C:59:GLN:HG2	C:246:PHE:C	0.741
7	C:87:GLU:HG2	C:225:GLY:CA	0.741
7	C:96:LYS:CG	C:239:ASN:HA	0.741
7	A:383:ASN:ND2	C:126:PHE:HA	0.741
7	C:139:ASP:HA	C:242:THR:CB	0.741
7	D:256:ARG:HE	E:28:ILE:HB	0.741
7	C:46:LEU:HD12	C:58:LYS:CA	0.740
7	C:90:THR:CG2	C:222:PHE:H	0.740
7	C:127:ARG:HG2	C:149:HIS:CG	0.740
7	C:246:PHE:CE1	C:289:LEU:HB3	0.740
7	D:38:ASP:CB	D:39:PRO:HD3	0.740
7	F:71:ILE:CD1	F:82:LEU:HD22	0.740
7	C:147:TYR:CZ	D:332:TRP:HB2	0.739
7	C:177:TYR:CE1	F:101:PRO:HB2	0.739
7	C:287:VAL:H	C:293:LYS:HE3	0.739
7	F:100:CYS:SG	F:108:CYS:HA	0.739
7	A:182:TYR:CZ	B:14:LEU:HB2	0.738
7	A:329:SER:O	A:333:LEU:HG	0.738
7	C:88:LYS:HG2	C:89:ALA:N	0.738
7	C:207:ILE:HG23	D:38:ASP:H	0.738
7	C:280:LYS:CG	C:293:LYS:HE2	0.738
7	D:183:HIS:CE1	D:207:SER:HB3	0.738

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	F:87:LEU:HD22	F:88:LYS:H	0.738
7	A:143:LEU:HD11	A:379:TYR:CE2	0.737
7	C:73:GLY:N	C:85:ASP:HA	0.737
7	C:87:GLU:C	C:224:VAL:HA	0.737
7	C:182:ILE:HG12	D:314:ARG:CZ	0.737
7	C:220:HIS:HA	D:41:GLY:HA3	0.737
7	C:280:LYS:HB3	C:295:ASP:CB	0.737
7	C:296:LEU:CD1	C:298:ALA:HB3	0.737
7	D:124:TYR:HE1	D:126:LEU:HB2	0.737
7	C:26:ILE:HG21	D:89:LYS:CE	0.736
7	C:45:LEU:HD11	C:245:ILE:HA	0.736
7	C:52:GLY:HA2	C:190:TYR:CE1	0.736
7	C:73:GLY:CA	C:81:ARG:HA	0.736
7	C:85:ASP:HB3	D:39:PRO:CA	0.736
7	C:96:LYS:CD	C:99:LEU:HD12	0.736
7	C:128:VAL:H	C:131:ILE:HG22	0.736
7	C:170:GLN:CB	C:348:ILE:HA	0.736
7	C:219:PHE:HB3	C:221:MET:SD	0.736
7	C:139:ASP:H	C:242:THR:HB	0.736
7	C:298:ALA:HA	C:301:VAL:HB	0.736
7	D:124:TYR:HE2	D:133:VAL:HG11	0.736
7	D:146:LEU:HD11	D:159:THR:OG1	0.736
7	F:89:PRO:HB3	F:127:VAL:HG11	0.736

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:9:THR:HB	C:21:GLU:CD	0.735
7	C:45:LEU:HD13	C:59:GLN:CG	0.735
7	C:54:ASN:CB	C:224:VAL:HG11	0.735
7	C:104:GLU:CB	C:356:ARG:HB3	0.735
7	C:177:TYR:HB2	F:109:PHE:HB2	0.735
7	C:227:GLN:HG2	C:228:ARG:N	0.735
7	C:289:LEU:HG	C:361:PRO:N	0.735
7	F:30:PHE:HA	F:33:TYR:CE2	0.735
7	F:39:ARG:HG3	F:49:VAL:HG21	0.735
7	A:143:LEU:HD11	A:379:TYR:HE2	0.734
7	C:54:ASN:CB	C:224:VAL:HG21	0.734
7	C:57:VAL:HG12	C:231:ARG:NH1	0.734
7	C:202:VAL:HG11	D:43:ILE:CG1	0.734
7	C:210:THR:HA	D:40:VAL:H	0.734
7	C:240:ASP:HB3	D:332:TRP:CH2	0.734
7	C:248:VAL:HG13	C:278:ASN:O	0.734
7	C:291:LEU:HD12	C:294:GLN:NE2	0.734
7	D:47:THR:HG21	D:54:HIS:HD1	0.734
7	E:56:ALA:HB1	E:59:ASN:C	0.734
7	A:9:LEU:HD23	B:19:ALA:HA	0.733
7	C:48:ALA:HB2	C:276:ILE:HG21	0.733
7	C:48:ALA:HB3	C:61:ARG:HD3	0.733
7	C:80:ALA:HA	C:252:SER:CA	0.733

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:95:ILE:HG23	C:238:PHE:H	0.733
7	C:46:LEU:N	C:59:GLN:N	0.733
7	C:88:LYS:H	C:208:PHE:H	0.733
7	A:121:LEU:HA	A:124:ILE:HG22	0.732
7	C:48:ALA:HB3	C:61:ARG:CD	0.732
7	C:95:ILE:HG21	C:234:TRP:O	0.732
7	C:136:ASN:HB3	C:358:TYR:CB	0.732
7	C:45:LEU:O	C:223:ASP:HA	0.732
7	C:269:ALA:CA	C:272:LEU:HG	0.732
7	C:296:LEU:HD12	C:299:GLU:H	0.732
7	F:38:VAL:HG23	F:47:GLU:O	0.732
7	C:176:GLN:HG3	F:102:ALA:HB3	0.731
7	C:220:HIS:CE1	D:42:ARG:HB2	0.731
7	C:289:LEU:HD12	C:361:PRO:CA	0.731
7	C:289:LEU:HD12	C:361:PRO:HB3	0.731
7	C:295:ASP:HB3	C:300:LYS:CB	0.731
7	D:192:LEU:HD23	D:199:PHE:HB3	0.731
7	D:200:VAL:HG23	D:234:PHE:CZ	0.731
7	C:46:LEU:H	C:59:GLN:N	0.731
7	A:182:TYR:CD1	B:14:LEU:HG	0.730
7	C:190:TYR:CD1	D:144:GLY:HA2	0.730
7	C:246:PHE:CZ	C:294:GLN:HG3	0.730
7	D:79:LEU:HD22	D:80:ILE:N	0.730

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:124:TYR:CZ	D:133:VAL:HG21	0.730
7	A:132:SER:HA	A:373:LEU:CD2	0.729
7	A:336:LEU:HD23	A:375:VAL:CG1	0.729
7	A:370:PHE:CE2	A:374:MET:HB2	0.729
7	C:48:ALA:HA	C:276:ILE:HG12	0.729
7	C:74:GLU:HB2	C:84:SER:C	0.729
7	C:171:LEU:CB	F:106:ARG:HD3	0.729
7	C:181:LYS:HB2	C:232:ARG:HD3	0.729
7	C:231:ARG:CD	C:235:ILE:HG13	0.729
7	C:42:ARG:O	C:241:VAL:HG13	0.729
7	C:312:PHE:CD1	C:313:PRO:HD2	0.729
7	D:107:PRO:HD2	D:151:PHE:CE2	0.729
7	C:54:ASN:HB2	C:224:VAL:HG21	0.728
7	C:182:ILE:HG12	D:314:ARG:NH1	0.728
7	D:54:HIS:NE2	D:76:ASP:HB3	0.728
7	D:225:HIS:ND1	D:229:ILE:HG12	0.728
7	D:232:ILE:CD1	D:243:THR:HB	0.728
7	D:289:TYR:CE2	D:291:ASP:HB3	0.728
7	A:43:PHE:CE2	A:45:GLU:HA	0.727
7	A:386:VAL:HG12	A:390:PHE:CZ	0.727
7	C:104:GLU:O	C:108:ALA:HB2	0.727
7	C:207:ILE:HG22	D:37:ILE:HG13	0.727
7	C:360:TYR:CE1	C:382:ILE:HD12	0.727

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	F:35:MET:HE2	F:80:LEU:HD12	0.727
7	F:39:ARG:HG2	F:95:TYR:CD1	0.727
7	C:44:LEU:CD1	C:91:LYS:HA	0.726
7	C:185:ILE:CG2	C:236:GLN:HG3	0.726
7	C:274:ASP:CA	C:277:TRP:HB3	0.726
7	F:3:VAL:HG22	F:27:GLY:HA3	0.726
7	F:82:LEU:HD13	F:83:GLN:N	0.726
7	A:401:HIS:CG	C:380:ARG:HB3	0.725
7	C:170:GLN:HG2	C:351:ALA:CB	0.725
7	C:178:PHE:HB3	C:235:ILE:CG2	0.725
7	C:181:LYS:CE	C:233:LYS:HA	0.725
7	C:281:TRP:CB	C:283:ARG:HB2	0.725
7	C:305:LYS:HG3	F:109:PHE:C	0.725
7	C:135:MET:HG3	C:355:GLY:HA2	0.724
7	A:161:PHE:CZ	A:165:ILE:HD12	0.723
7	A:401:HIS:CD2	C:380:ARG:HB3	0.723
7	C:139:ASP:HA	C:242:THR:HB	0.723
7	C:151:LYS:HD2	C:182:ILE:HG23	0.723
7	C:198:LEU:CB	D:38:ASP:HB2	0.723
7	C:295:ASP:CB	C:300:LYS:HD2	0.723
7	C:385:ARG:HB3	C:389:ARG:NH1	0.723
7	C:234:TRP:H22	D:101:MET:HB2	0.723
7	D:252:LEU:HD11	D:262:MET:HG3	0.723

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:48:ALA:H	C:61:ARG:HB3	0.722
7	C:95:ILE:HG21	C:235:ILE:HA	0.722
7	C:181:LYS:HZ1	C:233:LYS:HA	0.722
7	C:289:LEU:CB	C:361:PRO:HA	0.722
7	C:296:LEU:HD12	C:298:ALA:HB3	0.722
7	C:345:PHE:CZ	C:359:CYS:HB2	0.722
7	D:71:VAL:CG1	D:79:LEU:HD21	0.722
7	D:205:ASP:HB2	F:117:ALA:HB2	0.722
7	C:173:ASP:CB	C:300:LYS:HE2	0.721
7	A:317:MET:HE1	C:353:GLY:HA2	0.720
7	C:24:LYS:CD	C:27:GLU:HB3	0.720
7	C:44:LEU:HD21	C:224:VAL:CG2	0.720
7	C:95:ILE:HG21	C:235:ILE:CA	0.720
7	C:96:LYS:HG2	C:239:ASN:ND2	0.720
7	C:167:ASN:CB	F:58:SER:HB3	0.720
7	C:220:HIS:HA	D:41:GLY:O	0.720
7	C:90:THR:N	C:222:PHE:HB2	0.720
7	C:136:ASN:H	C:357:HIS:CA	0.720
7	C:45:LEU:CD1	C:245:ILE:HG23	0.719
7	C:54:ASN:HA	C:231:ARG:HE	0.719
7	C:56:ILE:HB	C:227:GLN:NE2	0.719
7	C:88:LYS:HD2	D:118:ASP:HB3	0.719
7	C:119:LEU:HD23	C:153:LEU:CD1	0.719

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:142:PHE:HB3	C:240:ASP:N	0.719
7	C:231:ARG:CB	C:235:ILE:HG13	0.719
7	A:95:LEU:HB3	A:96:PRO:CD	0.718
7	A:121:LEU:O	A:121:LEU:HD23	0.718
7	A:153:ARG:O	A:156:ILE:HG22	0.718
7	A:161:PHE:HE1	A:165:ILE:HG13	0.718
7	A:403:HIS:HB3	C:374:ARG:HA	0.718
7	C:44:LEU:HB3	C:94:ASP:CA	0.718
7	C:49:GLY:HA2	C:193:SER:HB2	0.718
7	C:95:ILE:HD13	C:98:ASN:HB3	0.718
7	C:177:TYR:HB3	C:232:ARG:HB3	0.718
7	C:184:VAL:HG13	C:187:GLN:N	0.718
7	C:198:LEU:HA	D:38:ASP:CB	0.718
7	C:181:LYS:NZ	C:233:LYS:HA	0.718
7	C:245:ILE:HG12	C:290:PHE:HE2	0.718
7	C:50:GLU:CA	D:37:ILE:HA	0.718
7	F:35:MET:CE	F:80:LEU:HB2	0.718
7	C:53:LYS:HD2	C:189:ASP:CB	0.717
7	C:61:ARG:HG2	C:62:ILE:N	0.717
7	C:75:GLU:CA	C:81:ARG:HB2	0.717
7	C:54:ASN:ND2	C:234:TRP:HB3	0.717
7	C:243:ALA:HB1	C:288:ILE:HG21	0.717
7	D:48:ARG:HB3	D:53:GLY:HA2	0.717

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:235:PHE:CD2	D:236:PRO:HD2	0.717
7	D:337:LYS:HD3	D:339:TRP:N	0.717
7	B:28:LYS:H	B:28:LYS:HD2	0.716
7	C:96:LYS:CG	C:99:LEU:HB3	0.716
7	C:131:ILE:CA	C:356:ARG:HG3	0.716
7	C:55:THR:OG1	C:225:GLY:HA2	0.716
7	C:278:ASN:HB3	C:285:THR:CB	0.716
7	D:204:CYS:HA	D:228:ASP:HB2	0.716
7	D:63:TRP:HH2	D:326:ALA:HB3	0.716
7	A:218:TYR:CE1	A:290:ILE:HG13	0.715
7	C:96:LYS:HG2	C:239:ASN:CG	0.715
7	C:136:ASN:N	C:357:HIS:HA	0.715
7	C:137:VAL:CG2	C:386:MET:HB2	0.715
7	D:235:PHE:CG	D:236:PRO:HD2	0.715
7	D:32:GLN:HE22	E:8:SER:HA	0.715
7	C:91:LYS:CD	D:117:LEU:HB3	0.714
7	C:169:TYR:HB3	C:351:ALA:CB	0.714
7	C:198:LEU:HD13	C:199:ARG:N	0.714
7	C:208:PHE:CE2	D:40:VAL:HG22	0.714
7	C:244:ILE:HD12	C:287:VAL:CB	0.714
7	C:295:ASP:HB2	C:300:LYS:HD2	0.714
7	D:180:PHE:HB2	D:211:TRP:CZ3	0.714
7	D:225:HIS:CD2	D:251:ARG:HD3	0.714

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	F:34:LYS:NZ	F:53:SER:HA	0.714
7	A:311:LYS:HD2	C:389:ARG:HH12	0.713
7	C:56:ILE:HD11	C:275:SER:CB	0.713
7	D:193:ALA:HB1	D:194:PRO:CD	0.713
7	A:399:LEU:HB2	C:41:HIS:HE1	0.712
7	C:43:LEU:N	C:90:THR:HG21	0.712
7	C:186:LYS:CD	D:316:SER:HB3	0.712
7	C:82:SER:HG	C:223:ASP:HB2	0.712
7	F:69:PHE:CZ	F:84:MET:HG3	0.712
7	A:336:LEU:CD2	A:375:VAL:HB	0.711
7	C:92:VAL:C	C:238:PHE:HA	0.711
7	D:89:LYS:CE	D:92:ALA:HB2	0.711
7	D:284:LEU:CD2	D:296:VAL:HG13	0.711
7	A:174:LYS:HD2	A:210:MET:SD	0.710
7	C:45:LEU:HD22	C:59:GLN:CB	0.710
7	C:51:SER:HB2	C:88:LYS:CB	0.710
7	C:92:VAL:HG22	C:237:CYS:HB3	0.710
7	C:140:PHE:CE2	C:142:PHE:HA	0.710
7	C:144:PRO:CA	D:333:ASP:H	0.710
7	C:231:ARG:CG	C:235:ILE:HG13	0.710
7	A:390:PHE:CE1	C:145:GLU:HB3	0.709
7	C:79:ALA:HB1	C:365:CYS:SG	0.709
7	C:79:ALA:HB2	C:365:CYS:HA	0.709

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:96:LYS:HB3	C:239:ASN:H	0.709
7	C:137:VAL:HG21	C:386:MET:HA	0.709
7	C:227:GLN:HG2	C:228:ARG:O	0.709
7	C:248:VAL:CG1	C:279:ASN:HB2	0.709
7	C:305:LYS:HG3	F:109:PHE:O	0.709
7	C:392:GLU:HG3	C:393:LEU:H	0.709
7	D:93:ILE:HG22	D:133:VAL:CG1	0.709
7	D:252:LEU:HD21	D:262:MET:HG2	0.709
7	F:96:TYR:CE2	F:98:ALA:HA	0.709
7	C:147:TYR:H	D:313:ASN:HD22	0.709
7	C:60:MET:H	C:82:SER:HA	0.708
7	C:137:VAL:HA	C:382:ILE:HA	0.708
7	C:144:PRO:HA	D:333:ASP:H	0.708
7	C:296:LEU:CB	C:299:GLU:HB2	0.708
7	C:342:ARG:HD2	C:361:PRO:HB2	0.708
7	D:45:MET:C	D:94:PRO:HB3	0.708
7	D:321:THR:HG22	D:324:GLY:O	0.708
7	A:39:CYS:SG	A:81:CYS:HB3	0.707
7	A:133:PHE:CD1	A:165:ILE:HG12	0.707
7	A:400:GLU:C	C:380:ARG:HB2	0.707
7	C:55:THR:CG2	C:227:GLN:HB3	0.707
7	C:91:LYS:CA	C:224:VAL:HG21	0.707
7	D:107:PRO:HD2	D:151:PHE:CZ	0.707

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:222:PHE:HZ	D:260:GLU:HB3	0.707
7	C:134:VAL:HG22	C:356:ARG:HD3	0.706
7	C:136:ASN:HB3	C:358:TYR:N	0.706
7	C:289:LEU:HD11	C:345:PHE:CD2	0.706
7	C:287:VAL:N	C:293:LYS:HE3	0.706
7	A:334:ILE:HG13	A:335:PRO:HD3	0.705
7	C:95:ILE:CG2	C:236:GLN:H	0.705
7	C:244:ILE:CG2	C:287:VAL:HB	0.705
7	C:248:VAL:HG21	C:281:TRP:CZ3	0.705
7	C:278:ASN:CB	C:285:THR:HB	0.705
7	D:188:MET:SD	D:230:ASN:HA	0.705
7	C:96:LYS:CE	C:239:ASN:HB2	0.704
7	C:274:ASP:HA	C:277:TRP:CB	0.704
7	C:285:THR:HG23	C:286:SER:N	0.704
7	F:16:GLY:HA2	F:87:LEU:H	0.704
7	F:100:CYS:HB2	F:108:CYS:SG	0.704
7	C:55:THR:HA	C:58:LYS:HE2	0.703
7	C:58:LYS:CG	C:94:ASP:HB3	0.703
7	C:61:ARG:HG3	C:81:ARG:CG	0.703
7	C:138:PRO:CG	C:243:ALA:HB2	0.703
7	C:144:PRO:HG3	D:332:TRP:HE1	0.703
7	C:191:VAL:O	C:226:ALA:HB1	0.703
7	D:107:PRO:HD2	D:151:PHE:CD2	0.703

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:117:LEU:CD1	D:145:TYR:HB2	0.703
7	C:91:LYS:HB3	C:224:VAL:HG22	0.702
7	C:95:ILE:CG2	C:235:ILE:HA	0.702
7	C:134:VAL:CB	C:386:MET:HE2	0.702
7	C:142:PHE:CB	C:240:ASP:HA	0.702
7	C:280:LYS:CG	C:286:SER:HA	0.702
7	C:327:GLU:HB3	C:328:PRO:HD2	0.702
7	F:41:ALA:HA	F:93:ALA:CB	0.702
7	F:41:ALA:HB3	F:44:LYS:CG	0.702
7	F:101:PRO:HG2	F:116:TYR:HE2	0.702
7	A:405:GLN:CB	A:414:LYS:HD2	0.701
7	C:49:GLY:HA3	C:50:GLU:OE1	0.701
7	C:50:GLU:HG3	D:38:ASP:CA	0.701
7	C:181:LYS:HB2	C:232:ARG:CG	0.701
7	C:214:VAL:CG2	C:372:ILE:HD11	0.701
7	C:308:ILE:HG23	F:46:LEU:O	0.701
7	F:25:ALA:HB3	F:78:ASN:ND2	0.701
7	A:268:TYR:HD1	A:269:GLU:HG3	0.700
7	C:48:ALA:CB	C:61:ARG:HB3	0.700
7	C:167:ASN:HB2	F:58:SER:CB	0.700
7	D:47:THR:HG23	D:80:ILE:HG21	0.700
7	D:80:ILE:HD11	D:89:LYS:CB	0.700
7	D:124:TYR:CE1	D:126:LEU:HB2	0.700

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	E:59:ASN:HB3	E:60:PRO:CD	0.700
7	F:33:TYR:HE1	F:35:MET:HB2	0.700
7	F:73:ARG:HB2	F:80:LEU:CD2	0.700
7	A:398:ARG:HG3	C:383:ILE:HD11	0.699
7	C:44:LEU:HD21	C:224:VAL:HG23	0.699
7	C:73:GLY:H	C:85:ASP:HA	0.699
7	C:105:THR:HA	C:352:SER:OG	0.699
7	A:318:CYS:SG	C:353:GLY:HA3	0.699
7	D:256:ARG:NE	E:28:ILE:HB	0.699
7	F:52:ILE:HD11	F:56:GLY:O	0.699
7	A:143:LEU:HA	A:146:PHE:CZ	0.698
7	A:170:SER:HB2	A:213:CYS:SG	0.698
7	C:48:ALA:O	C:61:ARG:HD3	0.698
7	C:96:LYS:HA	C:239:ASN:HA	0.698
7	C:166:SER:CB	F:106:ARG:HG3	0.698
7	C:207:ILE:HG22	D:37:ILE:CG1	0.698
7	C:54:ASN:N	C:227:GLN:HB2	0.698
7	C:244:ILE:HD12	C:287:VAL:CG2	0.698
7	C:280:LYS:CA	C:295:ASP:HB2	0.698
7	D:13:GLN:HG2	D:14:LEU:HD22	0.698
7	D:168:LEU:HB2	D:177:THR:CG2	0.698
7	C:44:LEU:HB3	C:94:ASP:HB2	0.697
7	C:109:ALA:CB	C:352:SER:HA	0.697

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:297:LEU:HG	C:348:ILE:CG1	0.697
7	D:49:ARG:HG3	D:51:LEU:HG	0.697
7	D:63:TRP:NE1	D:67:SER:HA	0.697
7	A:11:GLU:HB3	A:15:LYS:NZ	0.696
7	A:228:LEU:HD22	C:387:HIS:NE2	0.696
7	C:60:MET:HE3	C:252:SER:HB3	0.696
7	C:89:ALA:HA	C:91:LYS:HG2	0.696
7	C:106:ILE:HD12	C:163:TYR:CB	0.696
7	C:119:LEU:HD23	C:153:LEU:HD11	0.696
7	C:128:VAL:HG23	C:153:LEU:HD22	0.696
7	C:209:GLU:HB2	D:43:ILE:CD1	0.696
7	C:289:LEU:CG	C:361:PRO:HA	0.696
7	D:59:TYR:CD2	D:101:MET:HG3	0.696
7	D:150:ARG:HA	D:150:ARG:HH11	0.696
7	F:33:TYR:CE1	F:35:MET:HB2	0.696
7	F:89:PRO:HG3	F:127:VAL:HG21	0.696
7	A:63:PRO:HB3	A:65:TYR:CE2	0.695
7	C:23:ASN:HB2	D:89:LYS:HG3	0.695
7	C:49:GLY:CA	C:193:SER:HB2	0.695
7	C:96:LYS:HD3	C:99:LEU:CG	0.695
7	C:138:PRO:HB2	C:382:ILE:HG23	0.695
7	C:160:ARG:HD2	F:104:PHE:CB	0.695
7	C:202:VAL:CB	C:207:ILE:HD11	0.695

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:29:THR:CB	F:4:GLN:HB3	0.695
7	A:336:LEU:HD23	A:375:VAL:HG11	0.694
7	A:394:TRP:CD1	C:143:PRO:HD2	0.694
7	C:45:LEU:C	C:58:LYS:HB3	0.694
7	C:44:LEU:CD1	C:94:ASP:HB3	0.694
7	C:96:LYS:HG2	C:239:ASN:CA	0.694
7	C:100:LYS:HG3	C:146:PHE:HZ	0.694
7	C:181:LYS:HD2	C:184:VAL:CB	0.694
7	C:244:ILE:CD1	C:287:VAL:HB	0.694
7	C:296:LEU:HD12	C:299:GLU:N	0.694
7	D:93:ILE:HG21	D:124:TYR:CE2	0.694
7	A:236:VAL:HG21	C:217:VAL:HA	0.693
7	C:85:ASP:HB3	D:39:PRO:CB	0.693
7	C:96:LYS:NZ	C:182:ILE:HG13	0.693
7	C:183:ASP:HA	C:186:LYS:NZ	0.693
7	C:289:LEU:HD12	C:361:PRO:HA	0.693
7	C:138:PRO:CB	C:382:ILE:HG23	0.692
7	C:138:PRO:CD	C:382:ILE:HG12	0.692
7	C:238:PHE:CE2	C:241:VAL:HG12	0.692
7	D:37:ILE:C	D:37:ILE:CB	0.692
7	D:51:LEU:HB3	D:336:LEU:HB3	0.692
7	D:232:ILE:HD12	D:242:ALA:O	0.692
7	A:148:HIS:HB2	D:52:ARG:HH12	0.691

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:182:TYR:CD1	B:14:LEU:HB2	0.691
7	A:201:LEU:HD22	A:204:ARG:HB3	0.691
7	B:11:SER:HA	B:14:LEU:CD1	0.691
7	C:47:GLY:HA3	C:223:ASP:OD2	0.691
7	C:72:GLY:C	C:81:ARG:HG2	0.691
7	C:127:ARG:HD3	C:128:VAL:H	0.691
7	C:166:SER:HB3	C:171:LEU:CD2	0.691
7	A:236:VAL:CG1	C:217:VAL:HG13	0.690
7	A:291:LEU:CA	A:294:ILE:HG12	0.690
7	C:61:ARG:HA	C:81:ARG:N	0.690
7	C:88:LYS:HD2	D:118:ASP:CB	0.690
7	C:171:LEU:HD22	F:106:ARG:CD	0.690
7	C:248:VAL:HG22	C:292:ASN:HA	0.690
7	D:22:ARG:HB3	D:25:CYS:CB	0.690
7	F:37:TRP:CZ2	F:80:LEU:HB3	0.690
7	A:355:THR:HG23	A:356:LEU:N	0.689
7	C:46:LEU:HB2	C:58:LYS:C	0.689
7	C:55:THR:HA	C:58:LYS:NZ	0.689
7	C:76:ASP:HB3	C:81:ARG:HD3	0.689
7	C:88:LYS:HB3	C:206:GLY:O	0.689
7	C:60:MET:SD	C:277:TRP:HA	0.689
7	C:282:LEU:O	C:282:LEU:HD22	0.689
7	A:265:LYS:HE2	A:274:TRP:CG	0.688

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:391:ARG:CD	C:390:GLN:HG3	0.688
7	C:46:LEU:HB2	C:59:GLN:N	0.688
7	C:177:TYR:CB	C:232:ARG:HB3	0.688
7	C:177:TYR:CG	C:232:ARG:HB3	0.688
7	C:220:HIS:HA	D:41:GLY:CA	0.688
7	C:74:GLU:OE2	C:223:ASP:HB2	0.688
7	C:305:LYS:HE3	F:110:ASP:CA	0.688
7	C:309:GLU:HB2	F:44:LYS:CD	0.688
7	C:283:ARG:NH2	C:311:TYR:HB3	0.688
7	D:106:ALA:HB1	D:151:PHE:CE1	0.688
7	D:123:ILE:CG2	D:136:SER:HB3	0.688
7	D:321:THR:HG23	D:322:ASP:N	0.688
7	A:209:LEU:HD22	A:213:CYS:SG	0.687
7	A:261:TRP:CG	A:286:ILE:HD12	0.687
7	D:19:ARG:HE	D:27:ASP:HB3	0.687
7	C:219:PHE:O	D:41:GLY:HA3	0.687
7	F:30:PHE:CZ	F:80:LEU:HD21	0.687
7	F:101:PRO:HG2	F:116:TYR:CE2	0.687
7	C:26:ILE:CD1	D:89:LYS:HE3	0.686
7	C:88:LYS:CG	C:91:LYS:HD2	0.686
7	C:104:GLU:CG	C:356:ARG:HB3	0.686
7	C:137:VAL:HG11	C:386:MET:HB3	0.686
7	C:209:GLU:HB2	D:43:ILE:HD11	0.686

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:302:LEU:HD13	F:51:ASP:CB	0.686
7	D:38:ASP:C	D:38:ASP:CB	0.686
7	D:209:LYS:HE2	D:221:THR:HB	0.686
7	A:131:LEU:CD1	A:373:LEU:HD11	0.685
7	A:132:SER:HA	A:373:LEU:HD23	0.685
7	A:140:SER:HB3	A:161:PHE:HE2	0.685
7	C:7:SER:CA	C:24:LYS:HG2	0.685
7	C:58:LYS:C	C:58:LYS:CB	0.685
7	C:135:MET:HB3	C:389:ARG:HD2	0.685
7	C:144:PRO:HB3	D:333:ASP:N	0.685
7	C:231:ARG:HB3	C:235:ILE:CG1	0.685
7	D:49:ARG:HA	D:51:LEU:CA	0.685
7	D:79:LEU:CD1	D:112:VAL:HG11	0.685
7	D:128:THR:CG2	D:133:VAL:HG23	0.685
7	F:13:VAL:HG11	F:19:LEU:HD21	0.685
7	F:39:ARG:HG3	F:49:VAL:CG2	0.685
7	A:258:VAL:HG12	A:286:ILE:CD1	0.684
7	C:42:ARG:HB2	C:241:VAL:CG2	0.684
7	C:55:THR:HA	C:58:LYS:HZ3	0.684
7	C:62:ILE:CG2	C:80:ALA:HB2	0.684
7	C:91:LYS:HG3	C:91:LYS:O	0.684
7	A:402:LEU:N	C:377:ASN:HB3	0.684
7	A:387:GLN:HA	A:390:PHE:CE2	0.683

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:56:ILE:C	C:231:ARG:HB2	0.683
7	C:57:VAL:HB	C:231:ARG:HD2	0.683
7	C:230:GLU:HA	F:109:PHE:CZ	0.683
7	D:117:LEU:HA	D:145:TYR:HD1	0.683
7	A:180:TRP:HA	A:184:THR:CG2	0.682
7	A:377:ILE:HG13	A:381:PHE:HD1	0.682
7	C:144:PRO:HB3	D:334:SER:H	0.682
7	C:166:SER:HB3	F:106:ARG:HG3	0.682
7	C:290:PHE:CB	C:292:ASN:HB2	0.682
7	C:49:GLY:HA2	C:193:SER:CA	0.681
7	C:51:SER:HB2	C:88:LYS:N	0.681
7	C:92:VAL:HG22	C:237:CYS:CB	0.681
7	C:249:ALA:HB1	C:253:TYR:CE1	0.681
7	C:279:ASN:ND2	C:294:GLN:HB2	0.681
7	C:305:LYS:HE3	F:110:ASP:CG	0.681
7	F:103:PRO:O	F:105:THR:HG22	0.681
7	A:231:LEU:HD12	C:387:HIS:CD2	0.680
7	B:14:LEU:CD2	B:15:GLU:HG3	0.680
7	C:7:SER:HA	C:24:LYS:HG2	0.680
7	C:131:ILE:HG13	C:356:ARG:HG3	0.680
7	C:87:GLU:OE2	C:192:PRO:HA	0.680
7	C:245:ILE:CD1	C:375:VAL:HG22	0.680
7	C:332:PRO:HA	C:335:THR:CG2	0.680

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	F:13:VAL:HG21	F:19:LEU:CD2	0.680
7	A:207:PHE:HA	A:210:MET:CE	0.679
7	A:387:GLN:HG2	A:388:LEU:N	0.679
7	A:403:HIS:HB2	C:377:ASN:HD22	0.679
7	C:88:LYS:HG3	C:91:LYS:CD	0.679
7	C:51:SER:OG	C:206:GLY:HA3	0.679
7	C:246:PHE:CG	C:293:LYS:HG3	0.679
7	C:294:GLN:HA	C:345:PHE:HB2	0.679
7	D:300:LEU:CD1	E:38:MET:HB2	0.679
7	C:167:ASN:N	F:58:SER:HB3	0.679
7	C:58:LYS:HA	C:94:ASP:OD2	0.678
7	C:54:ASN:OD1	C:91:LYS:HB2	0.678
7	C:96:LYS:HD2	C:99:LEU:HD12	0.678
7	C:99:LEU:CD1	C:182:ILE:HD12	0.678
7	C:176:GLN:HG3	F:102:ALA:CB	0.678
7	C:181:LYS:CG	C:184:VAL:HB	0.678
7	D:37:ILE:HA	D:37:ILE:N	0.678
7	C:71:GLU:HG2	C:84:SER:HB3	0.677
7	C:233:LYS:HD3	D:186:ASP:CG	0.677
7	C:279:ASN:HA	C:293:LYS:N	0.677
7	D:59:TYR:CD2	D:60:ALA:HB2	0.677
7	A:170:SER:OG	A:210:MET:HA	0.676
7	A:291:LEU:O	A:291:LEU:HD23	0.676

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:400:GLU:CA	C:380:ARG:HG3	0.676
7	A:410:MET:HA	C:373:ARG:CD	0.676
7	C:45:LEU:CB	C:59:GLN:HB2	0.676
7	C:91:LYS:HD3	D:117:LEU:HB3	0.676
7	C:95:ILE:HG12	C:235:ILE:CB	0.676
7	C:86:GLY:O	C:208:PHE:HB2	0.676
7	C:219:PHE:C	D:41:GLY:HA3	0.676
7	D:99:TRP:CZ2	D:101:MET:HB2	0.676
7	D:107:PRO:HD2	D:151:PHE:CE1	0.676
7	C:305:LYS:N	F:109:PHE:CA	0.676
7	A:406:ARG:HA	A:415:CYS:HB3	0.675
7	C:50:GLU:HG3	D:38:ASP:N	0.675
7	C:144:PRO:HB3	D:334:SER:N	0.675
7	C:302:LEU:CD2	F:51:ASP:HB3	0.675
7	A:154:ASN:HB2	A:392:LYS:CD	0.674
7	A:387:GLN:HG2	A:388:LEU:H	0.674
7	A:405:GLN:HA	A:405:GLN:OE1	0.674
7	C:96:LYS:CB	C:239:ASN:HA	0.674
7	C:131:ILE:HA	C:356:ARG:NE	0.674
7	C:144:PRO:HA	D:332:TRP:CD1	0.674
7	C:186:LYS:HB3	D:316:SER:CB	0.674
7	C:198:LEU:HG	D:37:ILE:HG23	0.674
7	C:139:ASP:N	C:242:THR:HB	0.674

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:271:LYS:HG3	F:113:SER:CB	0.674
7	D:46:ARG:CA	D:78:LYS:HG2	0.674
7	D:47:THR:HG23	D:80:ILE:CG2	0.674
7	F:96:TYR:HE2	F:98:ALA:HA	0.674
7	A:259:VAL:HB	A:260:PRO:HD3	0.673
7	A:436:GLN:CB	C:77:PRO:HG3	0.673
7	C:92:VAL:CG1	C:237:CYS:HB3	0.673
7	C:103:ILE:HG13	C:131:ILE:CD1	0.673
7	C:160:ARG:HD2	F:104:PHE:HB2	0.673
7	C:221:MET:HB2	D:40:VAL:CG2	0.673
7	C:236:GLN:HA	C:236:GLN:NE2	0.673
7	C:296:LEU:HD13	C:297:LEU:N	0.673
7	D:51:LEU:CD2	D:336:LEU:HB3	0.673
7	D:80:ILE:HD11	D:89:LYS:HB3	0.673
7	C:88:LYS:HZ3	D:117:LEU:C	0.673
7	F:4:GLN:NE2	F:120:GLY:HA2	0.673
7	A:355:THR:HG23	A:356:LEU:H	0.672
7	C:37:TYR:CD2	D:55:LEU:HD13	0.672
7	C:205:SER:CB	C:207:ILE:HB	0.672
7	C:207:ILE:HG23	D:38:ASP:N	0.672
7	C:287:VAL:N	C:293:LYS:HG2	0.672
7	C:312:PHE:CG	C:313:PRO:HD2	0.672
7	A:218:TYR:CD2	A:290:ILE:HG13	0.671

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:391:ARG:NH1	A:392:LYS:HB3	0.671
7	C:50:GLU:CA	C:87:GLU:HB2	0.671
7	C:52:GLY:O	C:224:VAL:HG12	0.671
7	C:278:ASN:HB3	C:285:THR:HG21	0.671
7	D:139:LEU:HG	D:169:TRP:CE2	0.671
7	D:211:TRP:HA	D:218:CYS:SG	0.671
7	D:273:ILE:HG22	D:288:GLY:O	0.671
7	A:218:TYR:CE1	A:293:ALA:HB3	0.670
7	C:42:ARG:HB3	C:90:THR:HG22	0.670
7	C:45:LEU:HB3	C:82:SER:HB2	0.670
7	C:56:ILE:CD1	C:275:SER:HB3	0.670
7	C:95:ILE:O	C:95:ILE:HG23	0.670
7	C:151:LYS:HG3	C:154:TRP:HB3	0.670
7	C:290:PHE:CA	C:362:HIS:HB2	0.670
7	A:401:HIS:CB	C:377:ASN:HA	0.670
7	D:18:ILE:HG12	D:22:ARG:HH21	0.670
7	D:93:ILE:HG22	D:133:VAL:HG11	0.670
7	D:315:VAL:O	D:331:SER:HA	0.670
7	C:50:GLU:N	C:87:GLU:H	0.670
7	C:50:GLU:CD	C:86:GLY:HA3	0.669
7	C:61:ARG:CB	C:81:ARG:H	0.669
7	C:96:LYS:HA	C:239:ASN:CA	0.669
7	C:141:ASP:OD2	C:143:PRO:HG3	0.669

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:147:TYR:HB2	D:314:ARG:HH12	0.669
7	C:177:TYR:CB	F:109:PHE:HB2	0.669
7	C:283:ARG:CA	C:307:LYS:HD3	0.669
7	C:283:ARG:CG	C:310:ASP:HB3	0.669
7	C:244:ILE:O	C:288:ILE:HG23	0.669
7	C:289:LEU:CD2	C:359:CYS:HB3	0.669
7	C:296:LEU:HB3	C:299:GLU:CB	0.669
7	A:402:LEU:H	C:377:ASN:CB	0.669
7	F:62:THR:HG23	F:65:VAL:N	0.669
7	A:403:HIS:HB3	C:374:ARG:HG3	0.668
7	B:26:LEU:HD23	B:31:GLY:CA	0.668
7	C:14:ASN:ND2	C:16:GLU:HB2	0.668
7	C:88:LYS:CD	D:118:ASP:HB3	0.668
7	C:88:LYS:HD2	D:118:ASP:CA	0.668
7	C:43:LEU:H	C:90:THR:HG21	0.668
7	C:127:ARG:NH1	C:131:ILE:HG21	0.668
7	C:138:PRO:CD	C:382:ILE:HG23	0.668
7	C:141:ASP:C	C:143:PRO:HD3	0.668
7	F:89:PRO:CB	F:127:VAL:HG11	0.668
7	A:299:LEU:O	A:302:VAL:HG12	0.667
7	A:378:LEU:O	A:378:LEU:HD13	0.667
7	A:391:ARG:CG	C:390:GLN:HG3	0.667
7	C:82:SER:HB3	C:223:ASP:CG	0.667

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:88:LYS:HG3	D:117:LEU:O	0.667
7	C:144:PRO:HG3	D:332:TRP:NE1	0.667
7	C:190:TYR:HB2	D:144:GLY:CA	0.667
7	C:246:PHE:HB2	C:287:VAL:O	0.667
7	C:309:GLU:CB	F:44:LYS:HD3	0.667
7	C:341:ILE:HA	C:344:GLU:HG2	0.667
7	D:19:ARG:CG	D:27:ASP:HA	0.667
7	E:50:LEU:HG	E:51:LEU:N	0.667
7	A:404:ILE:N	A:412:PRO:HA	0.666
7	C:43:LEU:HB2	C:221:MET:HG2	0.666
7	C:105:THR:CA	C:352:SER:HB2	0.666
7	C:135:MET:HB2	C:355:GLY:O	0.666
7	C:186:LYS:HA	D:57:LYS:CE	0.666
7	C:190:TYR:H	C:228:ARG:HB2	0.666
7	C:279:ASN:C	C:285:THR:HG22	0.666
7	F:5:LEU:N	F:5:LEU:HD23	0.666
7	C:45:LEU:HD11	C:245:ILE:CG2	0.665
7	C:60:MET:CB	C:278:ASN:HD22	0.665
7	C:80:ALA:HB3	C:81:ARG:CD	0.665
7	C:177:TYR:CG	F:109:PHE:HB2	0.665
7	C:232:ARG:HA	C:235:ILE:CG2	0.665
7	C:281:TRP:CG	C:283:ARG:HB2	0.665
7	D:51:LEU:CD2	D:336:LEU:HD12	0.665

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:222:PHE:HE1	D:259:GLN:HA	0.665
7	A:33:PRO:HG3	A:51:ASP:CB	0.664
7	C:8:LYS:HG3	C:25:LYS:HD3	0.664
7	C:74:GLU:HB2	C:85:ASP:N	0.664
7	C:173:ASP:HB3	C:300:LYS:HE2	0.664
7	D:20:ASP:HA	D:23:LYS:HB2	0.664
7	D:62:HIS:CD2	D:105:TYR:HB3	0.664
7	F:14:GLN:CG	F:15:PRO:HD2	0.664
7	F:41:ALA:CB	F:44:LYS:HG2	0.664
7	F:62:THR:HG21	F:65:VAL:HG23	0.664
7	F:4:GLN:HE21	F:120:GLY:HA2	0.664
7	C:26:ILE:CG2	D:89:LYS:HE2	0.663
7	C:45:LEU:HD22	C:59:GLN:N	0.663
7	C:53:LYS:HG2	C:234:TRP:CB	0.663
7	C:95:ILE:HD11	C:178:PHE:CD2	0.663
7	C:96:LYS:HB2	C:99:LEU:HB3	0.663
7	C:127:ARG:CZ	C:153:LEU:HB3	0.663
7	C:205:SER:HB2	C:207:ILE:CB	0.663
7	C:233:LYS:HE3	D:204:CYS:HB3	0.663
7	C:282:LEU:HB2	C:341:ILE:HG12	0.663
7	C:290:PHE:HB3	C:292:ASN:OD1	0.663
7	C:314:GLU:HG2	C:318:TYR:CE1	0.663
7	E:4:ASN:CG	E:11:GLN:HA	0.663

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:51:SER:HB2	C:88:LYS:CA	0.662
7	C:54:ASN:HB3	C:231:ARG:NH2	0.662
7	D:61:MET:HE3	D:70:LEU:CD2	0.662
7	D:304:ARG:HD3	E:55:PRO:CA	0.662
7	A:1:ARG:CB	A:2:PRO:HD3	0.661
7	A:222:LEU:HD13	A:293:ALA:CB	0.661
7	C:201:ARG:HB2	C:210:THR:HG21	0.661
7	C:83:ASN:HD21	C:375:VAL:HG11	0.661
7	C:391:TYR:C	C:391:TYR:CB	0.661
7	A:143:LEU:HD21	A:379:TYR:CE2	0.660
7	A:150:HIS:HB2	C:3:CYS:CB	0.660
7	C:12:GLN:HG2	C:13:ARG:H	0.660
7	C:61:ARG:NH2	C:64:HIS:HA	0.660
7	C:87:GLU:HA	C:226:ALA:H	0.660
7	C:88:LYS:O	C:91:LYS:HB3	0.660
7	C:94:ASP:CA	C:238:PHE:HD2	0.660
7	C:153:LEU:HD21	C:159:VAL:CG2	0.660
7	D:69:LEU:O	D:69:LEU:HD22	0.660
7	D:145:TYR:CE2	D:147:SER:HB2	0.660
7	F:69:PHE:HD2	F:82:LEU:HD11	0.660
7	D:38:ASP:HA	D:38:ASP:N	0.660
7	A:298:PHE:HB2	A:342:VAL:HG21	0.659
7	C:75:GLU:HG2	C:84:SER:CB	0.659

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:110:MET:HE1	C:119:LEU:HG	0.659
7	C:181:LYS:HB2	C:232:ARG:CD	0.659
7	C:282:LEU:HD12	C:341:ILE:HD11	0.659
7	D:29:THR:O	D:30:LEU:HD23	0.659
7	D:57:LYS:CE	D:59:TYR:HB2	0.659
7	D:188:MET:HE2	D:230:ASN:HA	0.659
7	F:5:LEU:HD13	F:25:ALA:CB	0.659
7	C:24:LYS:HE2	C:28:LYS:HB3	0.658
7	C:55:THR:HG22	C:227:GLN:CB	0.658
7	C:105:THR:CG2	C:352:SER:HB2	0.658
7	C:53:LYS:CA	C:227:GLN:HG3	0.658
7	D:32:GLN:HB2	E:11:GLN:CD	0.658
7	D:126:LEU:C	D:126:LEU:HD23	0.658
7	D:37:ILE:CB	D:37:ILE:N	0.658
7	C:54:ASN:HB2	C:224:VAL:CB	0.657
7	C:58:LYS:HE2	C:224:VAL:CB	0.657
7	C:59:GLN:HG3	C:245:ILE:C	0.657
7	C:154:TRP:CE3	C:154:TRP:HA	0.657
7	C:171:LEU:O	C:171:LEU:HD12	0.657
7	C:210:THR:HG22	C:211:LYS:H	0.657
7	C:87:GLU:O	C:224:VAL:HA	0.657
7	C:280:LYS:HB2	C:293:LYS:C	0.657
7	C:282:LEU:CD1	C:341:ILE:HD11	0.657

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:297:LEU:HA	C:348:ILE:HD11	0.657
7	D:57:LYS:HB2	D:332:TRP:CE3	0.657
7	D:304:ARG:HH11	E:55:PRO:HA	0.657
7	A:121:LEU:CA	A:124:ILE:HG22	0.656
7	A:237:LEU:H	C:39:ALA:HB1	0.656
7	C:44:LEU:HD23	C:222:PHE:C	0.656
7	C:75:GLU:HA	C:80:ALA:O	0.656
7	C:138:PRO:CG	C:382:ILE:HG23	0.656
7	C:147:TYR:HB2	D:314:ARG:NH1	0.656
7	C:151:LYS:HA	D:314:ARG:HH11	0.656
7	C:283:ARG:HG2	C:310:ASP:CB	0.656
7	D:25:CYS:HB3	D:259:GLN:HB3	0.656
7	D:80:ILE:HG23	D:82:TRP:CH2	0.656
7	D:106:ALA:HB2	D:111:TYR:CD2	0.656
7	D:225:HIS:HD1	D:229:ILE:HG12	0.656
7	E:4:ASN:HB2	E:11:GLN:CG	0.656
7	F:37:TRP:CH2	F:71:ILE:HG23	0.656
7	F:88:LYS:CE	F:91:ASP:HB2	0.656
7	A:308:VAL:O	A:312:LEU:HG	0.655
7	C:131:ILE:C	C:356:ARG:HG3	0.655
7	C:184:VAL:HG13	C:187:GLN:CA	0.655
7	D:79:LEU:HB3	D:93:ILE:CG1	0.655
7	D:107:PRO:HD2	D:151:PHE:CD1	0.655

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:218:TYR:CZ	A:290:ILE:HG13	0.654
7	C:59:GLN:C	C:247:VAL:HG12	0.654
7	C:100:LYS:HD2	C:134:VAL:CG2	0.654
7	C:175:ALA:HB3	F:106:ARG:O	0.654
7	C:248:VAL:HG11	C:281:TRP:HE3	0.654
7	C:136:ASN:ND2	C:358:TYR:HB3	0.654
7	C:373:ARG:HG2	C:376:PHE:HB2	0.654
7	D:61:MET:CE	D:336:LEU:HG	0.654
7	D:95:LEU:O	D:95:LEU:HD13	0.654
7	D:276:VAL:HG22	D:287:ALA:HB2	0.654
7	F:48:TRP:CZ3	F:111:VAL:HG23	0.654
7	C:49:GLY:CA	C:87:GLU:HG3	0.653
7	C:96:LYS:HD3	C:99:LEU:CB	0.653
7	C:186:LYS:CB	D:316:SER:HA	0.653
7	C:208:PHE:HB2	C:223:ASP:O	0.653
7	C:278:ASN:HB3	C:285:THR:HB	0.653
7	F:30:PHE:CZ	F:73:ARG:HG3	0.653
7	A:237:LEU:HD22	C:36:VAL:HG21	0.652
7	A:401:HIS:HB2	C:377:ASN:CA	0.652
7	C:53:LYS:NZ	C:233:LYS:HD2	0.652
7	D:297:TRP:HZ2	D:302:ALA:HB2	0.652
7	F:34:LYS:HG2	F:51:ASP:OD1	0.652
7	F:112:THR:CG2	F:114:THR:HG22	0.652

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:53:GLU:CG	A:54:PRO:HD2	0.651
7	C:72:GLY:HA2	C:81:ARG:CD	0.651
7	C:92:VAL:HG13	C:237:CYS:CB	0.651
7	C:137:VAL:HG13	C:383:ILE:N	0.651
7	C:289:LEU:HD12	C:361:PRO:CB	0.651
7	C:304:GLY:HA3	F:108:CYS:CA	0.651
7	C:354:ASP:CG	C:356:ARG:HB2	0.651
7	D:32:GLN:CG	E:11:GLN:HG3	0.651
7	A:121:LEU:HD11	A:361:LEU:CD2	0.650
7	A:182:TYR:CE2	B:14:LEU:HB2	0.650
7	C:44:LEU:CD1	C:58:LYS:HD3	0.650
7	C:45:LEU:HD22	C:59:GLN:CA	0.650
7	C:132:LEU:O	C:132:LEU:HD13	0.650
7	C:47:GLY:O	C:276:ILE:HG12	0.650
7	C:279:ASN:HD21	C:294:GLN:HB2	0.650
7	D:69:LEU:N	D:69:LEU:HD13	0.650
7	E:50:LEU:HD12	E:51:LEU:HD13	0.650
7	A:185:ALA:CB	A:194:LEU:HD11	0.649
7	B:11:SER:O	B:14:LEU:HD22	0.649
7	C:62:ILE:HG22	C:80:ALA:CB	0.649
7	C:50:GLU:OE1	C:86:GLY:HA3	0.649
7	C:87:GLU:HA	C:225:GLY:CA	0.649
7	C:131:ILE:CG1	C:356:ARG:HG3	0.649

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:183:ASP:CA	D:314:ARG:HE	0.649
7	C:185:ILE:HB	C:236:GLN:O	0.649
7	D:71:VAL:HG12	D:103:CYS:SG	0.649
7	D:304:ARG:HB3	E:55:PRO:CB	0.649
7	D:233:CYS:HG	D:278:PHE:HD1	0.649
7	A:143:LEU:HD21	A:379:TYR:CZ	0.648
7	A:311:LYS:HE2	A:312:LEU:HD23	0.648
7	A:400:GLU:HG3	C:380:ARG:HD2	0.648
7	C:136:ASN:CB	C:358:TYR:HB3	0.648
7	C:134:VAL:O	C:137:VAL:HG23	0.648
7	C:184:VAL:HG13	C:187:GLN:H	0.648
7	C:186:LYS:HG2	D:316:SER:HB3	0.648
7	C:278:ASN:HB3	C:285:THR:CG2	0.648
7	D:36:ASN:C	D:36:ASN:CB	0.648
7	D:48:ARG:C	D:53:GLY:HA3	0.648
7	D:188:MET:CE	D:230:ASN:HA	0.648
7	E:47:GLU:HG2	E:48:ASP:N	0.648
7	A:403:HIS:CD2	C:374:ARG:HB2	0.647
7	C:88:LYS:C	C:91:LYS:HG2	0.647
7	C:139:ASP:CA	C:242:THR:HB	0.647
7	C:211:LYS:CD	D:42:ARG:HD3	0.647
7	C:220:HIS:CA	D:41:GLY:HA3	0.647
7	C:54:ASN:HD21	C:234:TRP:CD1	0.647

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:313:ASN:HB3	D:332:TRP:O	0.647
7	E:65:LYS:HD3	E:65:LYS:N	0.647
7	C:36:VAL:HG22	C:37:TYR:H	0.646
7	C:53:LYS:HG3	C:227:GLN:CD	0.646
7	C:73:GLY:C	C:81:ARG:HA	0.646
7	C:100:LYS:HD2	C:134:VAL:HG21	0.646
7	C:171:LEU:CD2	F:106:ARG:HD3	0.646
7	D:330:GLY:N	D:336:LEU:HD22	0.646
7	E:4:ASN:HD21	E:14:LYS:HD3	0.646
7	A:35:THR:HG22	A:36:ASP:N	0.645
7	C:24:LYS:CE	C:28:LYS:HB3	0.645
7	C:54:ASN:CG	C:91:LYS:HB2	0.645
7	C:107:VAL:HG11	C:127:ARG:NH1	0.645
7	C:247:VAL:O	C:278:ASN:HB2	0.645
7	C:289:LEU:HD11	C:345:PHE:CE2	0.645
7	C:248:VAL:N	C:292:ASN:HA	0.645
7	D:46:ARG:CG	D:94:PRO:HD3	0.645
7	D:121:CYS:HB3	D:139:LEU:HB3	0.645
7	D:151:PHE:C	D:152:LEU:HD23	0.645
7	D:36:ASN:HA	D:36:ASN:N	0.645
7	A:285:ILE:HG23	A:286:ILE:N	0.644
7	C:26:ILE:HG21	D:92:ALA:CB	0.644
7	C:96:LYS:CA	C:238:PHE:HB3	0.644

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:178:PHE:HA	C:232:ARG:HG3	0.644
7	C:244:ILE:HG22	C:287:VAL:C	0.644
7	C:253:TYR:HB2	C:277:TRP:CE3	0.644
7	C:173:ASP:O	C:304:GLY:HA2	0.644
7	C:283:ARG:O	C:307:LYS:HD3	0.644
7	C:50:GLU:H	C:87:GLU:H	0.644
7	A:153:ARG:HG2	A:156:ILE:CG2	0.643
7	A:208:LEU:HD11	A:258:VAL:HB	0.643
7	A:394:TRP:CD2	C:143:PRO:HG2	0.643
7	A:397:TRP:HB2	C:141:ASP:CG	0.643
7	C:96:LYS:HE3	C:239:ASN:CB	0.643
7	C:110:MET:HE2	C:117:VAL:O	0.643
7	C:173:ASP:CB	C:300:LYS:HG3	0.643
7	C:227:GLN:OE1	C:231:ARG:HG3	0.643
7	C:245:ILE:O	C:246:PHE:HB3	0.643
7	C:302:LEU:HD13	F:51:ASP:HB3	0.643
7	C:346:LEU:O	C:346:LEU:HD13	0.643
7	A:121:LEU:HA	A:124:ILE:CG2	0.642
7	A:311:LYS:CD	C:385:ARG:HG2	0.642
7	C:95:ILE:HG12	C:235:ILE:HG23	0.642
7	C:135:MET:HG3	C:355:GLY:CA	0.642
7	C:183:ASP:HA	C:186:LYS:CE	0.642
7	C:234:TRP:CH2	D:101:MET:HE3	0.642

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:243:ALA:HB1	C:288:ILE:HD13	0.642
7	C:272:LEU:N	C:272:LEU:HD23	0.642
7	C:324:ALA:O	C:326:PRO:HD3	0.642
7	C:373:ARG:HG2	C:376:PHE:CB	0.642
7	D:45:MET:HA	D:94:PRO:HB3	0.642
7	A:261:TRP:CG	A:282:TYR:HH	0.641
7	A:410:MET:O	A:411:LYS:HG2	0.641
7	C:24:LYS:HD2	C:24:LYS:O	0.641
7	C:135:MET:HA	C:357:HIS:N	0.641
7	C:181:LYS:HZ1	C:233:LYS:CA	0.641
7	C:244:ILE:CB	C:287:VAL:HB	0.641
7	C:170:GLN:H	C:351:ALA:HB3	0.641
7	A:311:LYS:HZ3	C:388:LEU:HB3	0.641
7	D:14:LEU:O	D:18:ILE:HG22	0.641
7	D:81:ILE:HG22	D:90:VAL:HG12	0.641
7	C:167:ASN:ND2	F:60:SER:HB2	0.641
7	A:243:PHE:HA	A:246:TYR:CD2	0.640
7	A:411:LYS:HB2	A:412:PRO:HD3	0.640
7	D:123:ILE:HG23	D:136:SER:HB3	0.640
7	D:164:THR:HG21	D:184:THR:C	0.640
7	C:233:LYS:NZ	D:204:CYS:HB3	0.640
7	C:229:ASP:O	F:112:THR:HG21	0.640
7	A:100:LEU:O	A:100:LEU:HD13	0.639

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:201:LEU:O	A:201:LEU:HD13	0.639
7	A:218:TYR:N	A:221:LEU:HD22	0.639
7	C:92:VAL:HG13	C:237:CYS:C	0.639
7	C:135:MET:HG2	C:136:ASN:OD1	0.639
7	C:185:ILE:CB	C:236:GLN:HG3	0.639
7	C:214:VAL:HG22	C:372:ILE:CD1	0.639
7	C:191:VAL:CB	C:272:LEU:HB3	0.639
7	D:107:PRO:HD2	D:151:PHE:CG	0.639
7	D:192:LEU:HD23	D:199:PHE:CB	0.639
7	D:292:PHE:HB2	D:312:ASP:O	0.639
7	C:305:LYS:H	F:110:ASP:N	0.639
7	A:182:TYR:CG	B:14:LEU:HB2	0.638
7	A:255:LEU:HA	A:258:VAL:HG22	0.638
7	C:131:ILE:HA	C:356:ARG:CZ	0.638
7	F:112:THR:HG22	F:114:THR:HG22	0.638
7	A:299:LEU:O	A:299:LEU:HD13	0.637
7	C:51:SER:HB3	C:91:LYS:NZ	0.637
7	C:136:ASN:C	C:382:ILE:HG13	0.637
7	C:231:ARG:HB3	C:235:ILE:CD1	0.637
7	C:246:PHE:CD2	C:293:LYS:HD3	0.637
7	D:19:ARG:HG3	D:27:ASP:C	0.637
7	C:186:LYS:CG	D:57:LYS:HD2	0.637
7	C:186:LYS:H22	D:314:ARG:C	0.637

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:154:ASN:HB2	A:392:LYS:HD3	0.636
7	A:185:ALA:HB3	A:194:LEU:HD11	0.636
7	A:231:LEU:C	A:231:LEU:HD13	0.636
7	A:343:ILE:C	A:343:ILE:HD13	0.636
7	C:46:LEU:O	C:60:MET:HA	0.636
7	C:93:GLN:HB3	C:238:PHE:C	0.636
7	C:107:VAL:HG21	C:153:LEU:HD23	0.636
7	C:134:VAL:HG22	C:356:ARG:CD	0.636
7	C:190:TYR:HB2	D:144:GLY:HA2	0.636
7	F:13:VAL:CG2	F:19:LEU:HD21	0.636
7	A:82:THR:HB	A:88:LEU:CD2	0.635
7	A:118:LEU:HD13	B:6:PHE:HZ	0.635
7	A:394:TRP:CE3	C:143:PRO:HG2	0.635
7	C:76:ASP:CG	C:77:PRO:HD2	0.635
7	C:171:LEU:HD13	F:107:ASP:OD2	0.635
7	C:56:ILE:O	C:231:ARG:HB2	0.635
7	C:42:ARG:O	C:242:THR:HG23	0.635
7	C:283:ARG:HA	C:307:LYS:HD3	0.635
7	C:295:ASP:CG	C:300:LYS:HB2	0.635
7	D:22:ARG:CB	D:25:CYS:HB2	0.635
7	A:75:GLY:HA3	A:102:GLU:HG2	0.634
7	C:44:LEU:HD11	C:58:LYS:HD3	0.634
7	C:91:LYS:HE2	D:117:LEU:CD2	0.634

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:147:TYR:HE1	C:186:LYS:HD3	0.634
7	C:272:LEU:O	C:276:ILE:HG13	0.634
7	C:290:PHE:C	C:292:ASN:HB2	0.634
7	C:104:GLU:OE1	C:357:HIS:HB2	0.634
7	C:364:THR:HB	C:371:ASN:OD1	0.634
7	D:49:ARG:HB3	D:87:THR:OG1	0.634
7	F:15:PRO:O	F:87:LEU:HB3	0.634
7	C:45:LEU:HD21	C:245:ILE:C	0.633
7	C:105:THR:HG22	F:106:ARG:HH12	0.633
7	C:107:VAL:HG21	C:127:ARG:HH12	0.633
7	C:159:VAL:O	C:160:ARG:HG2	0.633
7	C:183:ASP:CG	D:274:THR:HB	0.633
7	C:233:LYS:HE3	D:204:CYS:CB	0.633
7	C:393:LEU:HD13	C:394:LEU:C	0.633
7	D:33:ILE:C	D:33:ILE:HA	0.633
7	D:58:ILE:HG22	D:331:SER:O	0.633
7	D:220:GLN:HG2	D:221:THR:H	0.633
7	C:292:ASN:H	C:294:GLN:HE21	0.633
7	A:207:PHE:CA	A:210:MET:HE2	0.632
7	A:255:LEU:O	A:255:LEU:HD13	0.632
7	C:79:ALA:C	C:252:SER:HA	0.632
7	C:107:VAL:HG13	C:128:VAL:HG22	0.632
7	C:234:TRP:CG	D:117:LEU:HD13	0.632

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:170:GLN:OE1	C:347:ARG:HA	0.632
7	C:202:VAL:CG1	D:43:ILE:HG13	0.632
7	E:59:ASN:HB3	E:60:PRO:HD2	0.632
7	F:40:GLN:C	F:93:ALA:HB1	0.632
7	C:104:GLU:HG2	C:356:ARG:CD	0.631
7	C:228:ARG:HD3	F:114:THR:OG1	0.631
7	C:234:TRP:CH2	D:145:TYR:CZ	0.631
7	D:63:TRP:CH2	D:326:ALA:HB3	0.631
7	D:279:SER:HB2	D:284:LEU:HD13	0.631
7	D:284:LEU:HD23	D:296:VAL:HG13	0.631
7	E:13:ARG:C	E:16:VAL:HG12	0.631
7	C:56:ILE:HG13	C:229:ASP:HA	0.630
7	C:60:MET:HE1	C:253:TYR:CB	0.630
7	C:110:MET:HG3	C:117:VAL:HB	0.630
7	C:231:ARG:HD3	C:235:ILE:HA	0.630
7	D:34:THR:C	D:34:THR:CB	0.630
7	D:62:HIS:O	D:70:LEU:HD23	0.630
7	D:217:MET:HE2	E:18:GLN:CD	0.630
7	A:403:HIS:HA	A:412:PRO:CA	0.629
7	C:88:LYS:HA	C:91:LYS:NZ	0.629
7	C:133:SER:HB2	C:389:ARG:O	0.629
7	C:138:PRO:HB2	C:379:CYS:HA	0.629
7	C:183:ASP:HB2	D:314:ARG:HD2	0.629

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:220:HIS:HA	D:41:GLY:C	0.629
7	D:46:ARG:C	D:78:LYS:HG2	0.629
7	D:101:MET:HB3	D:145:TYR:OH	0.629
7	D:124:TYR:CE2	D:133:VAL:HG11	0.629
7	D:273:ILE:CG2	D:289:TYR:HB3	0.629
7	A:160:LEU:HD12	A:161:PHE:N	0.628
7	A:218:TYR:CE2	A:290:ILE:HG13	0.628
7	C:49:GLY:HA2	C:193:SER:CB	0.628
7	C:52:GLY:HA2	C:190:TYR:CD1	0.628
7	C:57:VAL:HG23	C:231:ARG:HB3	0.628
7	C:92:VAL:HG21	D:99:TRP:CG	0.628
7	C:384:GLN:O	C:388:LEU:HG	0.628
7	D:106:ALA:CB	D:111:TYR:HB3	0.628
7	D:198:LEU:O	D:198:LEU:HD22	0.628
7	D:279:SER:CB	D:284:LEU:HD13	0.628
7	F:70:THR:OG1	F:83:GLN:HB3	0.628
7	A:75:GLY:HA2	A:102:GLU:OE1	0.627
7	C:7:SER:O	C:24:LYS:HB3	0.627
7	A:237:LEU:H	C:39:ALA:CB	0.627
7	C:137:VAL:HG13	C:383:ILE:H	0.627
7	C:153:LEU:CG	C:159:VAL:HG21	0.627
7	C:153:LEU:HD11	C:159:VAL:CG2	0.627
7	C:171:LEU:CG	F:106:ARG:HD3	0.627

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:44:ASP:HB2	A:79:ARG:HH22	0.626
7	A:171:VAL:HG22	A:174:LYS:HD3	0.626
7	A:401:HIS:CB	C:380:ARG:HB2	0.626
7	C:54:ASN:HB2	C:224:VAL:CG2	0.626
7	C:73:GLY:HA3	C:86:GLY:N	0.626
7	C:138:PRO:C	C:383:ILE:HB	0.626
7	C:140:PHE:CE1	C:386:MET:HE1	0.626
7	C:203:LEU:O	C:207:ILE:HD12	0.626
7	C:231:ARG:HG2	C:235:ILE:CB	0.626
7	C:287:VAL:CA	C:293:LYS:HD2	0.626
7	C:289:LEU:HG	C:361:PRO:CA	0.626
7	D:61:MET:HE2	D:336:LEU:HD21	0.626
7	D:252:LEU:HD11	D:262:MET:CG	0.626
7	D:183:HIS:HD2	D:185:GLY:H	0.626
7	A:136:LEU:CD2	A:376:ALA:HB2	0.625
7	A:399:LEU:HB2	C:41:HIS:CE1	0.625
7	C:46:LEU:HD22	C:278:ASN:ND2	0.625
7	C:89:ALA:CA	C:91:LYS:HG2	0.625
7	C:96:LYS:CD	C:99:LEU:HB3	0.625
7	C:100:LYS:O	C:103:ILE:HG22	0.625
7	C:209:GLU:HB3	C:222:PHE:CD2	0.625
7	C:221:MET:HE3	D:40:VAL:CG2	0.625
7	C:308:ILE:HD13	F:45:GLY:N	0.625

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:64:HIS:HD2	C:194:ASP:HA	0.624
7	C:53:LYS:HZ1	C:233:LYS:HD2	0.624
7	C:305:LYS:C	C:305:LYS:N	0.624
7	C:138:PRO:O	C:383:ILE:HB	0.624
7	D:155:ASN:HD21	D:172:GLU:HG2	0.624
7	A:255:LEU:HA	A:258:VAL:CG2	0.623
7	A:334:ILE:CG1	A:335:PRO:HD3	0.623
7	C:56:ILE:HG13	C:229:ASP:CG	0.623
7	C:132:LEU:HD11	C:393:LEU:O	0.623
7	C:132:LEU:HD22	C:354:ASP:O	0.623
7	C:144:PRO:CB	D:333:ASP:HA	0.623
7	C:198:LEU:C	C:198:LEU:HD13	0.623
7	C:231:ARG:HG2	C:235:ILE:CA	0.623
7	C:280:LYS:HG3	C:293:LYS:CE	0.623
7	D:248:ALA:O	D:265:SER:HB3	0.623
7	F:89:PRO:CG	F:127:VAL:HG11	0.623
7	A:220:TRP:O	A:223:VAL:HG22	0.622
7	A:400:GLU:HG3	A:401:HIS:H	0.622
7	C:89:ALA:HB1	D:98:SER:OG	0.622
7	C:94:ASP:CG	C:244:ILE:HG12	0.622
7	C:104:GLU:HG2	C:356:ARG:CB	0.622
7	C:147:TYR:OH	C:186:LYS:HG3	0.622
7	C:207:ILE:HG23	D:38:ASP:HA	0.622

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:233:LYS:CE	D:204:CYS:HB3	0.622
7	C:342:ARG:CD	C:361:PRO:HB2	0.622
7	E:3:SER:C	E:15:LEU:HD11	0.622
7	A:28:THR:HG23	A:29:GLU:N	0.621
7	A:261:TRP:CH2	A:283:TRP:HA	0.621
7	A:291:LEU:HA	A:294:ILE:CG1	0.621
7	C:104:GLU:HB3	C:356:ARG:HB3	0.621
7	C:138:PRO:HG2	C:243:ALA:HB2	0.621
7	C:140:PHE:HB3	C:241:VAL:O	0.621
7	C:148:GLU:HA	D:313:ASN:HA	0.621
7	C:211:LYS:HD3	D:42:ARG:HD3	0.621
7	C:247:VAL:HG22	C:292:ASN:CB	0.621
7	C:302:LEU:HD13	F:51:ASP:N	0.621
7	D:95:LEU:HD11	D:100:VAL:CG2	0.621
7	D:241:PHE:CE1	D:253:PHE:HB3	0.621
7	C:180:ASP:OD2	F:103:PRO:HD2	0.621
7	C:306:SER:O	F:111:VAL:HB	0.621
7	C:92:VAL:H	C:231:ARG:HH21	0.621
7	C:50:GLU:HB3	C:207:ILE:O	0.620
7	C:244:ILE:HG21	C:287:VAL:HB	0.620
7	D:14:LEU:C	E:19:LEU:HD21	0.620
7	D:15:LYS:HD2	D:29:THR:O	0.620
7	D:89:LYS:NZ	D:92:ALA:HB2	0.620

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:117:LEU:CD2	D:145:TYR:HB2	0.620
7	F:73:ARG:CB	F:80:LEU:HD22	0.620
7	C:147:TYR:H	D:313:ASN:ND2	0.620
7	B:22:PHE:CZ	B:26:LEU:HD11	0.619
7	C:54:ASN:C	C:58:LYS:HE2	0.619
7	C:60:MET:HB3	C:247:VAL:O	0.619
7	C:144:PRO:HB3	D:333:ASP:H	0.619
7	C:190:TYR:H	C:228:ARG:CB	0.619
7	C:238:PHE:HD1	C:239:ASN:C	0.619
7	A:403:HIS:CB	C:377:ASN:HB2	0.619
7	D:42:ARG:O	D:43:ILE:HG23	0.619
7	D:78:LYS:HD2	D:78:LYS:N	0.619
7	A:153:ARG:HG2	A:156:ILE:HG22	0.618
7	C:44:LEU:HD23	C:90:THR:OG1	0.618
7	C:114:VAL:HG23	C:115:PRO:CD	0.618
7	C:185:ILE:HD12	C:236:GLN:O	0.618
7	D:51:LEU:HD13	D:336:LEU:O	0.618
7	D:45:MET:O	D:78:LYS:HG3	0.618
7	F:13:VAL:HB	F:19:LEU:HD11	0.618
7	A:71:SER:HB3	A:107:LYS:O	0.617
7	A:207:PHE:HA	A:210:MET:SD	0.617
7	C:52:GLY:HA3	D:117:LEU:CD2	0.617
7	C:58:LYS:HG3	C:94:ASP:CG	0.617

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:74:GLU:HG3	C:85:ASP:H	0.617
7	C:278:ASN:OD1	C:285:THR:HB	0.617
7	C:305:LYS:HG2	F:109:PHE:CD2	0.617
7	D:240:ALA:HB1	D:253:PHE:O	0.617
7	D:335:PHE:HE1	D:337:LYS:HA	0.617
7	E:2:ALA:HB1	E:15:LEU:CD1	0.617
7	E:27:ARG:HD3	E:27:ARG:N	0.617
7	F:38:VAL:HG12	F:96:TYR:O	0.617
7	C:104:GLU:O	C:354:ASP:HB2	0.616
7	C:207:ILE:O	D:38:ASP:HA	0.616
7	F:34:LYS:HZ2	F:53:SER:HA	0.616
7	C:106:ILE:CD1	C:163:TYR:HB2	0.615
7	C:142:PHE:CZ	C:147:TYR:CD2	0.615
7	C:176:GLN:CD	F:105:THR:HG23	0.615
7	C:176:GLN:HG3	F:105:THR:HG23	0.615
7	C:281:TRP:HB3	C:283:ARG:C	0.615
7	C:305:LYS:HD3	F:116:TYR:CB	0.615
7	D:103:CYS:HA	D:114:CYS:SG	0.615
7	D:192:LEU:CD2	D:199:PHE:HB3	0.615
7	D:300:LEU:HD13	E:38:MET:HB2	0.615
7	D:331:SER:HB3	D:332:TRP:O	0.615
7	A:316:LEU:O	A:317:MET:HG3	0.614
7	A:398:ARG:CZ	A:398:ARG:HB3	0.614

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:8:LYS:HE3	C:28:LYS:CD	0.614
7	A:383:ASN:CB	C:126:PHE:HB2	0.614
7	C:131:ILE:HA	C:356:ARG:HG3	0.614
7	C:137:VAL:HG21	C:386:MET:CA	0.614
7	C:127:ARG:HH21	C:150:ALA:HB2	0.614
7	C:202:VAL:HG12	C:207:ILE:HD12	0.614
7	C:248:VAL:CG2	C:279:ASN:HB2	0.614
7	C:269:ALA:O	C:272:LEU:HB2	0.614
7	C:308:ILE:HG23	F:46:LEU:N	0.614
7	C:370:GLU:HB3	C:372:ILE:CG2	0.614
7	D:51:LEU:HD22	D:336:LEU:CB	0.614
7	D:222:PHE:HE2	D:251:ARG:HD2	0.614
7	E:63:GLU:O	E:64:LYS:HD2	0.614
7	A:123:ILE:HG23	A:124:ILE:N	0.613
7	A:374:MET:HA	A:377:ILE:HG22	0.613
7	C:45:LEU:HD21	C:246:PHE:N	0.613
7	C:73:GLY:O	C:74:GLU:HG2	0.613
7	C:103:ILE:HG13	C:131:ILE:HD11	0.613
7	C:151:LYS:HD3	D:290:ASP:OD1	0.613
7	C:177:TYR:C	C:232:ARG:HG3	0.613
7	C:186:LYS:C	D:101:MET:HE2	0.613
7	C:244:ILE:HD12	C:287:VAL:HG21	0.613
7	C:305:LYS:HE2	F:116:TYR:HB3	0.613

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:80:ILE:HD12	D:89:LYS:HZ3	0.613
7	D:220:GLN:HG2	D:221:THR:N	0.613
7	A:9:LEU:C	A:9:LEU:HD13	0.612
7	A:135:ALA:O	A:138:ILE:HG22	0.612
7	A:397:TRP:HB2	C:141:ASP:OD2	0.612
7	A:401:HIS:HB3	C:380:ARG:HB2	0.612
7	C:149:HIS:CD2	C:356:ARG:HH22	0.612
7	C:221:MET:HE3	D:40:VAL:HG21	0.612
7	D:44:GLN:O	D:45:MET:HG2	0.612
7	D:49:ARG:HD2	D:82:TRP:HD1	0.612
7	D:61:MET:SD	D:72:SER:HB2	0.612
7	D:204:CYS:HG	F:116:TYR:HE1	0.612
7	A:246:TYR:O	A:249:ILE:HG22	0.611
7	C:87:GLU:CB	C:226:ALA:N	0.611
7	C:91:LYS:HE2	D:117:LEU:HB3	0.611
7	C:96:LYS:HE2	C:236:GLN:HE21	0.611
7	C:279:ASN:O	C:285:THR:HG22	0.611
7	D:335:PHE:CE1	D:337:LYS:HA	0.611
7	A:10:TRP:O	A:13:VAL:HG12	0.610
7	A:140:SER:HB2	A:161:PHE:HD2	0.610
7	A:191:TRP:HE1	A:195:LEU:HD23	0.610
7	C:50:GLU:HG3	C:207:ILE:O	0.610
7	C:87:GLU:HA	C:226:ALA:N	0.610

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:143:PRO:HB3	C:144:PRO:HD2	0.610
7	C:59:GLN:O	C:278:ASN:HB2	0.610
7	C:299:GLU:O	C:303:ALA:HB2	0.610
7	D:61:MET:HE2	D:336:LEU:CD2	0.610
7	F:59:ILE:HG23	F:60:SER:N	0.610
7	C:251:SER:H	C:253:TYR:HE1	0.610
7	D:48:ARG:HA	D:48:ARG:N	0.610
7	A:182:TYR:CD2	B:14:LEU:HB2	0.609
7	C:54:ASN:CA	C:224:VAL:HG11	0.609
7	C:85:ASP:CG	D:39:PRO:HD2	0.609
7	C:135:MET:HB3	C:389:ARG:CD	0.609
7	C:142:PHE:CE2	D:332:TRP:CD2	0.609
7	C:251:SER:O	C:252:SER:HB3	0.609
7	C:101:GLU:OE2	C:287:VAL:HG22	0.609
7	D:155:ASN:HA	D:171:ILE:CD1	0.609
7	D:222:PHE:CE1	D:259:GLN:HA	0.609
7	E:1:MET:C	E:1:MET:CB	0.609
7	F:30:PHE:HZ	F:80:LEU:HD21	0.609
7	C:44:LEU:HD13	C:94:ASP:CA	0.608
7	C:57:VAL:HB	C:235:ILE:CG1	0.608
7	C:58:LYS:CE	C:224:VAL:HG23	0.608
7	C:100:LYS:HE2	C:140:PHE:CD2	0.608
7	C:139:ASP:HA	C:242:THR:HG22	0.608

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:140:PHE:CZ	C:142:PHE:HA	0.608
7	C:151:LYS:HD3	D:290:ASP:CG	0.608
7	C:190:TYR:CD2	D:35:ASN:HB2	0.608
7	C:80:ALA:N	C:252:SER:HA	0.608
7	C:304:GLY:C	F:109:PHE:HA	0.608
7	C:308:ILE:HA	C:310:ASP:OD1	0.608
7	D:33:ILE:HG12	D:164:THR:HG23	0.608
7	C:144:PRO:O	D:313:ASN:HB2	0.608
7	F:82:LEU:HD13	F:83:GLN:C	0.608
7	A:255:LEU:CA	A:258:VAL:HG22	0.607
7	C:34:LYS:C	C:34:LYS:HD3	0.607
7	C:87:GLU:HG2	C:225:GLY:C	0.607
7	C:57:VAL:CB	C:235:ILE:HG13	0.607
7	D:152:LEU:O	D:153:ASP:HB2	0.607
7	D:190:LEU:HD21	D:199:PHE:HB2	0.607
7	D:56:ALA:O	D:334:SER:HB3	0.607
7	A:209:LEU:O	A:209:LEU:HD22	0.606
7	A:117:GLN:NE2	A:358:PHE:HB2	0.606
7	C:44:LEU:HA	C:90:THR:OG1	0.606
7	C:184:VAL:HA	C:187:GLN:H	0.606
7	C:185:ILE:HG13	C:237:CYS:CA	0.606
7	C:385:ARG:HB3	C:389:ARG:HH11	0.606
7	C:277:TRP:HD1	C:278:ASN:N	0.606

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:53:GLU:HG3	A:54:PRO:HD2	0.605
7	A:265:LYS:HE2	A:274:TRP:CB	0.605
7	A:419:SER:HB2	A:438:SER:O	0.605
7	C:27:GLU:OE2	C:30:LEU:HD11	0.605
7	C:80:ALA:CB	C:81:ARG:HG3	0.605
7	C:92:VAL:HG22	C:234:TRP:CD1	0.605
7	C:176:GLN:HA	F:105:THR:OG1	0.605
7	C:290:PHE:HB2	C:292:ASN:HB2	0.605
7	C:284:ASP:OD2	C:306:SER:HB3	0.605
7	D:32:GLN:HG3	E:11:GLN:CG	0.605
7	D:37:ILE:C	D:37:ILE:HA	0.605
7	D:47:THR:H	D:92:ALA:HB1	0.605
7	D:155:ASN:CA	D:171:ILE:HD11	0.605
7	F:41:ALA:N	F:44:LYS:HE2	0.605
7	A:25:ARG:O	A:28:THR:HG22	0.604
7	A:119:LEU:O	A:122:TYR:HB3	0.604
7	C:26:ILE:HG21	D:92:ALA:HB3	0.604
7	C:48:ALA:H	C:61:ARG:CB	0.604
7	C:99:LEU:C	C:99:LEU:HD13	0.604
7	C:54:ASN:N	C:224:VAL:HG11	0.604
7	D:152:LEU:HD21	D:158:VAL:HG23	0.604
7	D:237:ASN:HD21	D:239:ASN:HB2	0.604
7	A:391:ARG:HH11	A:392:LYS:HB3	0.603

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:53:LYS:HB3	D:117:LEU:HD11	0.603
7	C:62:ILE:HD11	C:254:ASN:CG	0.603
7	C:96:LYS:HD3	C:99:LEU:HD12	0.603
7	C:101:GLU:HA	C:104:GLU:CD	0.603
7	C:228:ARG:HG2	F:114:THR:HG21	0.603
7	C:301:VAL:HG12	C:302:LEU:HD23	0.603
7	D:124:TYR:CE2	D:133:VAL:HG21	0.603
7	F:5:LEU:HG	F:96:TYR:OH	0.603
7	A:253:VAL:HB	A:254:PRO:CD	0.602
7	C:48:ALA:HA	C:276:ILE:CG1	0.602
7	C:55:THR:O	C:58:LYS:HE3	0.602
7	C:91:LYS:HB3	C:224:VAL:CG2	0.602
7	C:53:LYS:HZ2	C:189:ASP:HB2	0.602
7	C:194:ASP:HB3	D:37:ILE:O	0.602
7	C:82:SER:OG	C:223:ASP:HB2	0.602
7	C:251:SER:HA	C:253:TYR:CE1	0.602
7	C:280:LYS:CD	C:293:LYS:HE2	0.602
7	D:283:ARG:HG2	D:283:ARG:O	0.602
7	D:293:ASN:OD1	D:307:VAL:HB	0.602
7	F:13:VAL:CB	F:19:LEU:HD21	0.602
7	A:28:THR:HG23	A:29:GLU:OE1	0.601
7	A:267:LEU:C	A:267:LEU:HD12	0.601
7	A:224:GLU:OE2	A:336:LEU:HD12	0.601

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:247:VAL:CG2	C:292:ASN:HB3	0.601
7	D:51:LEU:HB2	D:336:LEU:O	0.601
7	A:336:LEU:HD22	A:375:VAL:HB	0.600
7	A:406:ARG:HA	A:415:CYS:CB	0.600
7	A:405:GLN:O	A:406:ARG:HG2	0.600
7	C:80:ALA:HA	C:252:SER:CB	0.600
7	C:80:ALA:HB3	C:81:ARG:NE	0.600
7	C:88:LYS:HD2	D:118:ASP:HA	0.600
7	C:138:PRO:HG3	C:243:ALA:HB2	0.600
7	C:101:GLU:OE1	C:172:ILE:HG12	0.600
7	C:183:ASP:C	C:186:LYS:HE3	0.600
7	C:266:LEU:O	C:269:ALA:HB3	0.600
7	C:302:LEU:HD11	F:60:SER:HB2	0.600
7	A:440:SER:OG	C:367:VAL:HG11	0.600
7	C:389:ARG:HA	C:391:TYR:O	0.600
7	D:29:THR:CG2	F:4:GLN:HB3	0.600
7	C:208:PHE:HZ	D:40:VAL:HG13	0.600
7	C:209:GLU:O	D:43:ILE:HD11	0.600
7	D:256:ARG:HD3	E:28:ILE:HG21	0.600
7	D:296:VAL:HB	D:305:ALA:O	0.600
7	F:41:ALA:H	F:44:LYS:CE	0.600
7	F:44:LYS:HG3	F:45:GLY:O	0.600
7	A:255:LEU:O	A:259:VAL:HG23	0.599

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:91:LYS:HE2	D:117:LEU:CG	0.599
7	C:92:VAL:CG2	C:237:CYS:HB3	0.599
7	C:91:LYS:O	C:92:VAL:HB	0.599
7	C:96:LYS:CE	C:236:GLN:HE21	0.599
7	C:128:VAL:N	C:131:ILE:HG22	0.599
7	C:185:ILE:CD1	C:239:ASN:HB2	0.599
7	C:234:TRP:CZ2	D:101:MET:HE3	0.599
7	C:238:PHE:CE2	C:241:VAL:HB	0.599
7	C:280:LYS:N	C:293:LYS:CA	0.599
7	C:301:VAL:HG12	C:302:LEU:CD2	0.599
7	C:76:ASP:O	C:368:ASP:HB3	0.599
7	D:186:ASP:O	D:203:ALA:HA	0.599
7	D:211:TRP:NE1	D:213:VAL:HA	0.599
7	A:157:HIS:O	A:160:LEU:HG	0.598
7	A:277:ASN:ND2	A:283:TRP:HB2	0.598
7	A:391:ARG:HD3	A:392:LYS:N	0.598
7	C:99:LEU:HG	C:236:GLN:HE22	0.598
7	C:102:ALA:O	C:105:THR:HB	0.598
7	C:185:ILE:HD12	C:239:ASN:HB2	0.598
7	D:89:LYS:HD3	D:89:LYS:O	0.598
7	D:176:GLN:OE1	D:179:THR:HB	0.598
7	D:225:HIS:CE1	D:229:ILE:HG12	0.598
7	D:61:MET:SD	D:336:LEU:HD23	0.598

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:32:PRO:HB2	A:33:PRO:CA	0.597
7	A:277:ASN:HD21	A:283:TRP:HB2	0.597
7	C:27:GLU:OE1	C:30:LEU:HD21	0.597
7	C:38:ARG:C	C:38:ARG:HD2	0.597
7	C:135:MET:HA	C:356:ARG:HA	0.597
7	C:190:TYR:CE2	D:35:ASN:HB2	0.597
7	C:198:LEU:HG	D:37:ILE:CG2	0.597
7	C:291:LEU:HA	C:294:GLN:HE22	0.597
7	C:170:GLN:NE2	C:347:ARG:HG2	0.597
7	C:280:LYS:NZ	C:348:ILE:HG21	0.597
7	C:379:CYS:O	C:383:ILE:HG22	0.597
7	D:100:VAL:HG11	D:114:CYS:HB3	0.597
7	D:145:TYR:CE2	D:147:SER:CA	0.597
7	F:112:THR:HG22	F:114:THR:H	0.597
7	C:46:LEU:N	C:59:GLN:H	0.597
7	A:122:TYR:O	A:126:THR:HG22	0.596
7	A:412:PRO:HG2	A:413:LEU:CD1	0.596
7	C:34:LYS:HD3	C:34:LYS:O	0.596
7	C:93:GLN:HB3	C:238:PHE:O	0.596
7	C:170:GLN:HG2	C:351:ALA:HB3	0.596
7	C:185:ILE:HA	C:236:GLN:HB3	0.596
7	C:56:ILE:O	C:231:ARG:HD2	0.596
7	C:234:TRP:CD1	C:237:CYS:HG	0.596

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:248:VAL:HG12	C:249:ALA:H	0.596
7	C:269:ALA:HA	C:272:LEU:CD1	0.596
7	C:296:LEU:HB3	C:299:GLU:H	0.596
7	C:108:ALA:CB	C:354:ASP:HB2	0.596
7	D:99:TRP:HZ2	D:101:MET:HB2	0.596
7	D:139:LEU:HD21	D:142:HIS:CE1	0.596
7	D:99:TRP:HD1	D:117:LEU:H	0.596
7	C:54:ASN:H	C:227:GLN:CB	0.596
7	A:69:ALA:O	A:73:PRO:HD3	0.595
7	A:72:VAL:N	A:73:PRO:HD3	0.595
7	A:181:MET:HE1	A:198:GLN:HG2	0.595
7	A:403:HIS:HB2	C:377:ASN:CB	0.595
7	C:1:MET:HG2	D:55:LEU:CB	0.595
7	C:50:GLU:HA	D:37:ILE:C	0.595
7	C:163:TYR:CD2	F:106:ARG:HB3	0.595
7	C:202:VAL:HG11	D:43:ILE:CD1	0.595
7	C:286:SER:C	C:293:LYS:HB2	0.595
7	C:289:LEU:CD1	C:361:PRO:HA	0.595
7	C:136:ASN:O	C:385:ARG:HB2	0.595
7	D:33:ILE:HG21	D:164:THR:O	0.595
7	D:211:TRP:NE1	D:213:VAL:HG22	0.595
7	D:214:ARG:C	D:214:ARG:HD3	0.595
7	A:288:LEU:O	A:288:LEU:HD23	0.594

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:334:ILE:HG13	A:335:PRO:CD	0.594
7	C:85:ASP:HB3	D:39:PRO:CD	0.594
7	C:129:ASP:O	C:132:LEU:HB3	0.594
7	C:182:ILE:O	C:182:ILE:HG23	0.594
7	C:53:LYS:NZ	C:189:ASP:HB2	0.594
7	C:53:LYS:HZ1	C:233:LYS:HB2	0.594
7	C:320:THR:OG1	C:321:PRO:HD2	0.594
7	C:383:ILE:O	C:383:ILE:HG23	0.594
7	C:187:GLN:O	D:188:MET:HG3	0.594
7	F:30:PHE:HB2	F:78:ASN:OD1	0.594
7	F:35:MET:HB3	F:80:LEU:CD1	0.594
7	C:234:TRP:HH2	D:101:MET:SD	0.594
7	C:53:LYS:HD2	C:189:ASP:CA	0.593
7	C:61:ARG:HD2	C:73:GLY:CA	0.593
7	C:85:ASP:HB3	D:39:PRO:HB2	0.593
7	C:93:GLN:HB3	C:238:PHE:CA	0.593
7	C:138:PRO:HD2	C:382:ILE:CG2	0.593
7	C:283:ARG:C	C:307:LYS:HD3	0.593
7	C:312:PHE:CD2	F:64:SER:HA	0.593
7	D:45:MET:CA	D:94:PRO:HB3	0.593
7	C:37:TYR:HD2	D:55:LEU:HD13	0.593
7	D:77:GLY:C	D:78:LYS:HD2	0.593
7	D:77:GLY:O	D:95:LEU:HB2	0.593

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	F:69:PHE:CD2	F:82:LEU:HD11	0.593
7	A:394:TRP:HD1	C:140:PHE:HE1	0.593
7	A:27:LEU:O	A:27:LEU:HD13	0.592
7	A:113:SER:OG	A:114:PRO:HD2	0.592
7	C:52:GLY:HA2	C:190:TYR:HE1	0.592
7	C:142:PHE:HB3	C:240:ASP:CB	0.592
7	C:151:LYS:HD2	C:182:ILE:CG2	0.592
7	C:227:GLN:HG2	C:228:ARG:C	0.592
7	A:399:LEU:O	C:383:ILE:HG23	0.592
7	C:147:TYR:OH	D:57:LYS:HD2	0.592
7	D:93:ILE:HG21	D:124:TYR:HE2	0.592
7	D:110:ASN:HA	D:126:LEU:HB3	0.592
7	D:149:CYS:O	D:150:ARG:HD2	0.592
7	C:248:VAL:H	C:292:ASN:ND2	0.592
7	C:56:ILE:HG13	C:229:ASP:CB	0.591
7	C:74:GLU:CB	C:84:SER:N	0.591
7	C:144:PRO:CB	D:333:ASP:CA	0.591
7	C:208:PHE:CZ	D:39:PRO:C	0.591
7	C:201:ARG:O	C:211:LYS:HE3	0.591
7	C:209:GLU:N	C:222:PHE:HB3	0.591
7	C:177:TYR:O	C:232:ARG:HG3	0.591
7	D:51:LEU:HD22	D:336:LEU:CG	0.591
7	D:117:LEU:HD11	D:145:TYR:HB2	0.591

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:142:PHE:HE2	D:332:TRP:CD2	0.591
7	F:14:GLN:CD	F:15:PRO:HD2	0.591
7	A:182:TYR:HB2	B:18:ALA:CB	0.590
7	C:179:LEU:HD23	C:182:ILE:HD12	0.590
7	C:147:TYR:HH	C:186:LYS:HG3	0.590
7	C:209:GLU:HA	C:222:PHE:CB	0.590
7	C:232:ARG:C	C:232:ARG:HD2	0.590
7	C:339:TYR:CE2	C:343:ASP:HB3	0.590
7	D:35:ASN:C	D:35:ASN:CB	0.590
7	D:42:ARG:O	D:43:ILE:HG12	0.590
7	D:57:LYS:HE3	D:99:TRP:HH2	0.590
7	A:31:PRO:HB2	A:32:PRO:CD	0.589
7	A:49:TRP:CH2	A:58:VAL:HB	0.589
7	A:133:PHE:O	A:137:VAL:HG23	0.589
7	C:45:LEU:CB	C:82:SER:HB2	0.589
7	A:390:PHE:HE1	C:145:GLU:HB3	0.589
7	C:153:LEU:HD11	C:159:VAL:HG21	0.589
7	C:231:ARG:HD3	C:235:ILE:CG1	0.589
7	C:289:LEU:HG	C:361:PRO:HA	0.589
7	D:222:PHE:CZ	D:260:GLU:HB3	0.589
7	F:52:ILE:HG22	F:71:ILE:HG21	0.589
7	C:80:ALA:HA	C:252:SER:OG	0.588
7	C:99:LEU:O	C:99:LEU:HD13	0.588

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:100:LYS:HG2	C:104:GLU:OE1	0.588
7	C:163:TYR:CD1	F:106:ARG:HB3	0.588
7	C:161:ALA:O	C:164:GLU:HB3	0.588
7	C:59:GLN:NE2	C:247:VAL:HG21	0.588
7	D:57:LYS:HA	D:332:TRP:CG	0.588
7	D:57:LYS:HB3	D:57:LYS:NZ	0.588
7	D:194:PRO:HG2	D:195:ASP:H	0.588
7	D:198:LEU:C	D:198:LEU:HD22	0.588
7	C:166:SER:OG	F:106:ARG:HB2	0.588
7	D:48:ARG:CB	D:48:ARG:N	0.588
7	A:9:LEU:O	A:9:LEU:HD13	0.587
7	A:140:SER:HB2	A:158:LEU:CD2	0.587
7	C:59:GLN:HG2	C:247:VAL:CB	0.587
7	C:71:GLU:HB3	C:75:GLU:O	0.587
7	C:87:GLU:HB3	C:226:ALA:N	0.587
7	C:96:LYS:HE3	C:239:ASN:CG	0.587
7	C:105:THR:O	C:108:ALA:HB3	0.587
7	C:224:VAL:O	C:224:VAL:HG12	0.587
7	C:248:VAL:HG21	C:281:TRP:CE3	0.587
7	C:280:LYS:HB3	C:295:ASP:H	0.587
7	C:3:CYS:SG	D:52:ARG:HD3	0.587
7	D:297:TRP:NE1	D:302:ALA:HA	0.587
7	A:1:ARG:HB3	A:2:PRO:CD	0.586

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:140:SER:OG	A:158:LEU:HD13	0.586
7	A:133:PHE:HE1	A:165:ILE:HG23	0.586
7	A:398:ARG:HD3	C:383:ILE:HG12	0.586
7	C:46:LEU:C	C:82:SER:HB3	0.586
7	C:49:GLY:C	C:87:GLU:HB2	0.586
7	C:74:GLU:HA	C:83:ASN:N	0.586
7	C:74:GLU:HB2	C:84:SER:CA	0.586
7	C:96:LYS:CB	C:99:LEU:HB3	0.586
7	C:135:MET:HG2	C:136:ASN:N	0.586
7	C:308:ILE:HG12	C:309:GLU:H	0.586
7	C:347:ARG:O	C:348:ILE:HG13	0.586
7	D:35:ASN:O	D:143:THR:HG22	0.586
7	F:63:GLY:O	F:66:LYS:HG3	0.586
7	F:69:PHE:CE2	F:84:MET:HE2	0.586
7	F:106:ARG:HG2	F:107:ASP:OD2	0.586
7	C:80:ALA:O	C:81:ARG:HB2	0.586
7	A:385:GLU:O	A:389:GLU:HG3	0.585
7	C:55:THR:CA	C:58:LYS:CE	0.585
7	C:171:LEU:HD11	C:301:VAL:CG1	0.585
7	C:182:ILE:O	C:183:ASP:HB2	0.585
7	C:191:VAL:CG1	C:272:LEU:HD22	0.585
7	C:208:PHE:CB	C:223:ASP:H	0.585
7	C:314:GLU:HG2	C:340:PHE:HZ	0.585

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:373:ARG:HA	C:376:PHE:HB3	0.585
7	D:39:PRO:O	D:40:VAL:HG13	0.585
7	D:59:TYR:CE2	D:101:MET:HG2	0.585
7	E:50:LEU:HD12	E:51:LEU:H	0.585
7	F:33:TYR:CG	F:99:ARG:HG3	0.585
7	C:61:ARG:HG3	C:80:ALA:HB1	0.584
7	C:62:ILE:HD13	C:254:ASN:N	0.584
7	C:85:ASP:OD1	C:197:LEU:HD13	0.584
7	C:212:PHE:HB3	D:40:VAL:O	0.584
7	C:297:LEU:HD23	C:301:VAL:CG2	0.584
7	D:35:ASN:CA	D:143:THR:HB	0.584
7	A:6:THR:HG23	A:11:GLU:OE2	0.583
7	A:173:ILE:O	A:173:ILE:HG23	0.583
7	A:387:GLN:HG3	C:130:TYR:HB2	0.583
7	A:275:THR:OG1	B:8:SER:HA	0.583
7	C:60:MET:HG3	C:247:VAL:HG13	0.583
7	C:106:ILE:HD12	C:163:TYR:CG	0.583
7	C:137:VAL:CG2	C:386:MET:HA	0.583
7	C:219:PHE:O	C:221:MET:HG3	0.583
7	C:280:LYS:N	C:293:LYS:HA	0.583
7	C:305:LYS:HE3	F:110:ASP:CB	0.583
7	C:309:GLU:HB2	F:44:LYS:NZ	0.583
7	D:6:GLN:HA	D:6:GLN:NE2	0.583

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:57:LYS:HE2	D:59:TYR:CB	0.583
7	D:62:HIS:HB2	D:103:CYS:O	0.583
7	D:191:SER:O	D:199:PHE:HB2	0.583
7	D:210:LEU:HD22	D:211:TRP:N	0.583
7	A:119:LEU:O	A:119:LEU:HD13	0.582
7	A:150:HIS:HB2	C:3:CYS:HB2	0.582
7	A:188:GLN:HA	A:188:GLN:HE21	0.582
7	A:117:GLN:HE21	A:358:PHE:HB2	0.582
7	A:401:HIS:CG	A:402:LEU:N	0.582
7	C:59:GLN:O	C:60:MET:HB3	0.582
7	C:91:LYS:CB	C:224:VAL:CG2	0.582
7	C:151:LYS:CG	D:290:ASP:HB3	0.582
7	C:308:ILE:CD1	F:45:GLY:H	0.582
7	D:51:LEU:CG	D:336:LEU:HB3	0.582
7	D:173:THR:O	D:173:THR:HG23	0.582
7	C:147:TYR:OH	D:332:TRP:HB2	0.582
7	F:37:TRP:H22	F:80:LEU:HB3	0.582
7	C:57:VAL:CG1	C:231:ARG:HH11	0.582
7	A:218:TYR:CE2	A:290:ILE:HG23	0.581
7	C:45:LEU:HA	C:59:GLN:H	0.581
7	C:167:ASN:HB2	F:58:SER:C	0.581
7	D:16:ASN:O	D:19:ARG:HB3	0.581
7	D:16:ASN:ND2	D:19:ARG:HD3	0.581

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:276:VAL:HG22	D:287:ALA:CB	0.581
7	A:63:PRO:HB3	A:65:TYR:CZ	0.580
7	A:184:THR:HG23	A:185:ALA:N	0.580
7	A:410:MET:HB3	C:373:ARG:NH1	0.580
7	C:36:VAL:HG23	C:39:ALA:HB3	0.580
7	C:320:THR:HB	C:336:ARG:CD	0.580
7	C:136:ASN:HD22	C:358:TYR:HB3	0.580
7	E:65:LYS:H	E:65:LYS:HD3	0.580
7	C:175:ALA:N	F:107:ASP:HB3	0.580
7	A:288:LEU:HB3	A:289:PRO:CD	0.579
7	A:334:ILE:N	A:335:PRO:HD2	0.579
7	A:400:GLU:C	A:400:GLU:CG	0.579
7	A:436:GLN:HB3	C:69:ASN:ND2	0.579
7	C:45:LEU:HD22	C:59:GLN:HA	0.579
7	C:48:ALA:HB3	C:61:ARG:HG2	0.579
7	C:96:LYS:CA	C:239:ASN:HA	0.579
7	C:131:ILE:HG22	C:149:HIS:NE2	0.579
7	C:246:PHE:CD2	C:293:LYS:CD	0.579
7	D:48:ARG:HB3	D:53:GLY:CA	0.579
7	C:155:GLU:OE1	D:291:ASP:HB2	0.579
7	C:308:ILE:CG2	F:45:GLY:HA3	0.579
7	C:88:LYS:C	C:91:LYS:HB3	0.578
7	C:147:TYR:CE1	C:186:LYS:HD3	0.578

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:183:ASP:O	C:186:LYS:HB2	0.578
7	C:190:TYR:CG	D:144:GLY:HA2	0.578
7	C:202:VAL:HG13	C:203:LEU:H	0.578
7	C:245:ILE:HD13	C:375:VAL:CG1	0.578
7	C:248:VAL:HG22	C:279:ASN:CB	0.578
7	C:283:ARG:HG2	C:310:ASP:O	0.578
7	C:297:LEU:HD23	C:301:VAL:HG21	0.578
7	C:83:ASN:O	D:40:VAL:HG11	0.578
7	A:20:ARG:HD2	A:43:PHE:HE2	0.577
7	A:394:TRP:CE3	C:143:PRO:HB2	0.577
7	B:28:LYS:HD2	B:28:LYS:N	0.577
7	C:11:ASP:O	C:18:ALA:HB2	0.577
7	C:210:THR:CG2	C:211:LYS:N	0.577
7	C:291:LEU:HD12	C:294:GLN:CD	0.577
7	C:248:VAL:H	C:292:ASN:HA	0.577
7	C:325:THR:O	C:325:THR:HG23	0.577
7	D:51:LEU:HD22	D:336:LEU:HD12	0.577
7	D:183:HIS:CD2	D:203:ALA:HB1	0.577
7	D:186:ASP:OD2	D:188:MET:HB2	0.577
7	D:256:ARG:HG2	E:28:ILE:CG2	0.577
7	A:274:TRP:HE1	A:282:TYR:HE2	0.577
7	A:242:ILE:O	A:242:ILE:HG23	0.576
7	A:312:LEU:HD12	A:326:LEU:HD23	0.576

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:142:PHE:CE1	C:146:PHE:CB	0.576
7	C:187:GLN:HA	D:101:MET:SD	0.576
7	C:188:ALA:C	C:188:ALA:CB	0.576
7	C:53:LYS:CD	C:189:ASP:HB2	0.576
7	A:311:LYS:NZ	C:388:LEU:HB3	0.576
7	D:63:TRP:HE1	D:67:SER:HA	0.576
7	D:128:THR:O	D:128:THR:HG23	0.576
7	C:61:ARG:CG	C:62:ILE:H	0.576
7	C:188:ALA:HA	C:188:ALA:N	0.576
7	A:75:GLY:HA2	A:102:GLU:CD	0.575
7	A:311:LYS:HD3	C:388:LEU:CD1	0.575
7	A:395:GLU:HA	A:398:ARG:HE	0.575
7	C:74:GLU:HB2	C:85:ASP:H	0.575
7	C:101:GLU:HA	C:104:GLU:OE2	0.575
7	C:131:ILE:O	C:131:ILE:HG23	0.575
7	C:137:VAL:HG13	C:383:ILE:CA	0.575
7	C:176:GLN:HB2	F:105:THR:OG1	0.575
7	C:210:THR:HA	D:40:VAL:N	0.575
7	C:135:MET:N	C:356:ARG:HA	0.575
7	D:152:LEU:HD21	D:158:VAL:CG2	0.575
7	A:11:GLU:O	A:14:GLN:HG2	0.574
7	A:136:LEU:HD13	A:164:PHE:HB3	0.574
7	A:169:LEU:O	A:169:LEU:HD13	0.574

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:250:GLY:O	A:254:PRO:HD2	0.574
7	A:400:GLU:C	A:400:GLU:CB	0.574
7	A:401:HIS:CG	C:380:ARG:CB	0.574
7	A:408:SER:HA	C:370:GLU:OE2	0.574
7	A:402:LEU:O	A:412:PRO:HD3	0.574
7	C:75:GLU:HG2	C:84:SER:OG	0.574
7	C:95:ILE:CG2	C:231:ARG:CZ	0.574
7	A:383:ASN:OD1	C:129:ASP:HB3	0.574
7	C:87:GLU:OE2	C:226:ALA:HB2	0.574
7	C:206:GLY:N	D:118:ASP:HB2	0.574
7	D:293:ASN:HB3	D:309:ALA:HA	0.574
7	F:40:GLN:HB2	F:46:LEU:HA	0.574
7	C:305:LYS:CD	F:112:THR:H	0.574
7	A:120:PHE:O	A:121:LEU:HB3	0.573
7	A:156:ILE:HD13	A:224:GLU:HA	0.573
7	C:87:GLU:HB3	C:226:ALA:CA	0.573
7	C:97:ASN:OD1	C:100:LYS:HE3	0.573
7	C:144:PRO:HG3	D:332:TRP:CD1	0.573
7	C:232:ARG:HG2	C:235:ILE:HG22	0.573
7	C:340:PHE:HA	C:343:ASP:OD1	0.573
7	D:51:LEU:HB2	D:336:LEU:C	0.573
7	D:204:CYS:O	D:228:ASP:HB3	0.573
7	D:261:LEU:HD12	E:34:ALA:HB2	0.573

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:42:THR:O	A:49:TRP:HB3	0.572
7	A:220:TRP:CH2	A:251:TRP:HA	0.572
7	C:50:GLU:HG3	D:38:ASP:O	0.572
7	C:128:VAL:H	C:149:HIS:CE1	0.572
7	C:104:GLU:OE2	C:357:HIS:HB3	0.572
7	F:96:TYR:CD1	F:97:CYS:N	0.572
7	C:54:ASN:ND2	C:92:VAL:H	0.572
7	A:136:LEU:HD23	A:376:ALA:HB2	0.571
7	C:137:VAL:HG22	C:386:MET:N	0.571
7	C:144:PRO:CB	D:333:ASP:H	0.571
7	C:151:LYS:HE3	C:154:TRP:CD1	0.571
7	C:184:VAL:O	C:184:VAL:HG12	0.571
7	C:198:LEU:CD2	D:38:ASP:HB2	0.571
7	C:307:LYS:HG2	C:310:ASP:OD2	0.571
7	C:354:ASP:OD2	C:356:ARG:HB2	0.571
7	A:321:ASP:OD2	C:392:GLU:HG3	0.571
7	D:11:ALA:O	D:15:LYS:HG2	0.571
7	D:15:LYS:O	D:19:ARG:HB2	0.571
7	C:53:LYS:H	D:117:LEU:HD21	0.571
7	D:338:ILE:HG23	D:339:TRP:N	0.571
7	E:11:GLN:OE1	E:15:LEU:HD12	0.571
7	A:31:PRO:HB2	A:32:PRO:HD2	0.570
7	A:167:ARG:HG3	A:217:ASN:HD21	0.570

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:169:LEU:O	A:173:ILE:HG22	0.570
7	C:54:ASN:HB3	C:224:VAL:HG21	0.570
7	C:95:ILE:HG12	C:235:ILE:CA	0.570
7	C:211:LYS:HA	D:42:ARG:N	0.570
7	C:248:VAL:CG1	C:249:ALA:H	0.570
7	C:270:LEU:C	C:270:LEU:HD13	0.570
7	C:291:LEU:HD12	C:294:GLN:OE1	0.570
7	C:302:LEU:HB3	F:51:ASP:HB2	0.570
7	C:314:GLU:HG2	C:318:TYR:HE1	0.570
7	D:14:LEU:HB3	E:19:LEU:HD23	0.570
7	F:14:GLN:HG3	F:15:PRO:CD	0.570
7	C:44:LEU:HD22	C:223:ASP:HA	0.569
7	C:151:LYS:HA	D:314:ARG:NH1	0.569
7	C:383:ILE:C	C:383:ILE:HD13	0.569
7	F:5:LEU:HD12	F:23:CYS:SG	0.569
7	F:96:TYR:CE2	F:120:GLY:N	0.569
7	A:89:GLN:HG2	A:91:ASP:O	0.568
7	A:255:LEU:C	A:255:LEU:HD13	0.568
7	A:255:LEU:H	A:258:VAL:HG22	0.568
7	C:26:ILE:HD12	D:89:LYS:HD2	0.568
7	C:62:ILE:HD11	C:254:ASN:OD1	0.568
7	C:88:LYS:O	C:224:VAL:HG22	0.568
7	C:249:ALA:HA	C:251:SER:O	0.568

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:290:PHE:HB2	C:292:ASN:CB	0.568
7	D:49:ARG:C	D:52:ARG:H	0.568
7	D:266:HIS:HB3	D:268:ASN:OD1	0.568
7	C:148:GLU:N	D:313:ASN:HA	0.568
7	A:20:ARG:HD2	A:43:PHE:CE2	0.567
7	B:23:ILE:O	B:23:ILE:HG23	0.567
7	C:12:GLN:HG2	C:13:ARG:N	0.567
7	C:43:LEU:HD13	C:221:MET:CG	0.567
7	C:48:ALA:C	C:193:SER:HB2	0.567
7	C:88:LYS:HZ2	C:91:LYS:HD2	0.567
7	C:95:ILE:CG1	C:236:GLN:N	0.567
7	C:107:VAL:CG1	C:128:VAL:HG22	0.567
7	C:147:TYR:CG	D:314:ARG:NH2	0.567
7	C:153:LEU:HG	C:159:VAL:HG21	0.567
7	C:234:TRP:CH2	D:101:MET:CE	0.567
7	C:314:GLU:HG2	C:340:PHE:CZ	0.567
7	D:33:ILE:C	D:33:ILE:CB	0.567
7	D:80:ILE:HD11	D:89:LYS:HB2	0.567
7	D:106:ALA:HB2	D:111:TYR:HB3	0.567
7	D:280:LYS:C	D:280:LYS:HD3	0.567
7	A:267:LEU:HD12	A:268:TYR:CA	0.566
7	C:55:THR:HG22	C:227:GLN:O	0.566
7	C:104:GLU:HG2	C:356:ARG:HD2	0.566

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:142:PHE:CE1	C:147:TYR:N	0.566
7	A:394:TRP:NE1	C:146:PHE:HB2	0.566
7	C:281:TRP:C	C:283:ARG:H	0.566
7	C:345:PHE:O	C:346:LEU:HB3	0.566
7	C:142:PHE:HZ	D:313:ASN:HD21	0.566
7	C:305:LYS:N	F:110:ASP:N	0.566
7	C:86:GLY:N	C:208:PHE:CD1	0.565
7	C:246:PHE:CD2	C:293:LYS:CG	0.565
7	C:253:TYR:CD2	C:277:TRP:CH2	0.565
7	D:329:THR:O	D:329:THR:HG23	0.565
7	E:70:ILE:O	E:70:ILE:HG13	0.565
7	C:142:PHE:HZ	D:313:ASN:ND2	0.565
7	C:189:ASP:HA	C:189:ASP:N	0.565
7	C:50:GLU:CG	D:38:ASP:N	0.564
7	C:51:SER:H	C:87:GLU:CA	0.564
7	C:134:VAL:HG22	C:356:ARG:NE	0.564
7	C:210:THR:N	C:222:PHE:CD1	0.564
7	A:398:ARG:CB	C:383:ILE:HG13	0.564
7	D:311:HIS:HE1	D:337:LYS:H	0.564
7	C:227:GLN:CG	C:228:ARG:N	0.564
7	A:236:VAL:HG21	C:216:LYS:O	0.563
7	A:395:GLU:O	A:398:ARG:HG2	0.563
7	A:430:MET:HG2	A:431:TYR:N	0.563

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:41:HIS:HB2	C:219:PHE:CD2	0.563
7	C:63:LEU:O	C:63:LEU:HD12	0.563
7	C:71:GLU:CG	C:84:SER:HB3	0.563
7	C:89:ALA:HA	C:91:LYS:CG	0.563
7	C:142:PHE:CE1	C:146:PHE:CD1	0.563
7	C:187:GLN:C	D:101:MET:HE1	0.563
7	C:264:ASN:O	C:266:LEU:HD12	0.563
7	D:95:LEU:HD12	D:97:SER:O	0.563
7	D:111:TYR:CE1	D:123:ILE:HG13	0.563
7	D:152:LEU:HD11	D:158:VAL:HG21	0.563
7	A:261:TRP:NE1	A:282:TYR:HH	0.563
7	A:282:TYR:O	A:285:ILE:HG22	0.562
7	C:24:LYS:HD3	C:27:GLU:HG2	0.562
7	A:397:TRP:HD1	C:38:ARG:HB2	0.562
7	C:76:ASP:CB	C:81:ARG:HD3	0.562
7	C:51:SER:N	C:87:GLU:C	0.562
7	C:91:LYS:CA	C:224:VAL:CG2	0.562
7	C:173:ASP:HB3	C:300:LYS:CE	0.562
7	C:345:PHE:CE1	C:349:SER:HB2	0.562
7	D:145:TYR:CD1	D:146:LEU:N	0.562
7	D:241:PHE:CE2	D:253:PHE:CD2	0.562
7	D:49:ARG:NH2	D:338:ILE:HD12	0.562
7	A:256:LEU:C	A:256:LEU:HD13	0.561

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:336:LEU:HD23	A:375:VAL:HB	0.561
7	C:59:GLN:HB3	C:82:SER:O	0.561
7	C:109:ALA:HB2	C:351:ALA:O	0.561
7	C:190:TYR:CB	D:144:GLY:HA2	0.561
7	C:305:LYS:C	C:305:LYS:HB3	0.561
7	C:29:GLN:NE2	D:46:ARG:HD2	0.561
7	D:57:LYS:HB2	D:332:TRP:CD2	0.561
7	D:149:CYS:HB2	D:157:ILE:HD11	0.561
7	E:51:LEU:N	E:51:LEU:HD12	0.561
7	A:30:ASP:OD1	A:31:PRO:HD2	0.560
7	A:16:TRP:HZ2	A:45:GLU:HB2	0.560
7	C:7:SER:N	C:24:LYS:HG2	0.560
7	C:183:ASP:O	C:186:LYS:HE3	0.560
7	C:97:ASN:N	C:238:PHE:CD1	0.560
7	D:14:LEU:HB3	E:19:LEU:CD2	0.560
7	D:193:ALA:HB2	D:234:PHE:CE2	0.560
7	D:250:CYS:CB	D:273:ILE:HD11	0.560
7	A:407:ASP:OD2	A:434:THR:HB	0.559
7	C:142:PHE:CD1	C:146:PHE:CD1	0.559
7	C:248:VAL:CG2	C:279:ASN:CB	0.559
7	C:251:SER:C	C:253:TYR:H	0.559
7	C:287:VAL:HG12	C:288:ILE:HG23	0.559
7	C:290:PHE:HA	C:362:HIS:CB	0.559

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:294:GLN:OE1	C:341:ILE:HG22	0.559
7	D:273:ILE:HG22	D:289:TYR:HA	0.559
7	E:16:VAL:HG13	E:17:GLU:N	0.559
7	C:292:ASN:N	C:294:GLN:HE21	0.559
7	A:219:TYR:OH	A:289:PRO:HB3	0.558
7	C:43:LEU:N	C:43:LEU:HD12	0.558
7	C:55:THR:HA	C:224:VAL:C	0.558
7	C:55:THR:HG23	C:56:ILE:N	0.558
7	C:91:LYS:HE2	D:117:LEU:CB	0.558
7	C:142:PHE:HB2	C:239:ASN:C	0.558
7	C:302:LEU:HD11	F:60:SER:CB	0.558
7	D:26:ALA:HB1	F:2:GLN:HE22	0.558
7	D:106:ALA:HB2	D:111:TYR:HD2	0.558
7	D:183:HIS:CD2	D:185:GLY:H	0.558
7	D:225:HIS:NE2	D:251:ARG:HG2	0.558
7	C:51:SER:HB3	C:87:GLU:O	0.557
7	C:75:GLU:N	C:81:ARG:CB	0.557
7	C:154:TRP:CH2	C:163:TYR:CD2	0.557
7	C:241:VAL:CG1	C:242:THR:N	0.557
7	C:329:GLY:O	C:330:GLU:HG2	0.557
7	D:70:LEU:O	D:82:TRP:HB2	0.557
7	D:166:CYS:HB2	D:180:PHE:CB	0.557
7	E:50:LEU:HD12	E:51:LEU:CD1	0.557

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:88:LYS:HZ3	D:117:LEU:N	0.557
7	B:14:LEU:HD22	B:15:GLU:N	0.556
7	C:24:LYS:O	C:27:GLU:HB3	0.556
7	C:41:HIS:CB	C:43:LEU:HD11	0.556
7	C:175:ALA:HB3	F:107:ASP:CB	0.556
7	C:190:TYR:CG	D:144:GLY:CA	0.556
7	C:292:ASN:OD1	C:364:THR:HG23	0.556
7	D:33:ILE:HG22	E:4:ASN:O	0.556
7	D:152:LEU:HD22	D:192:LEU:HD11	0.556
7	D:233:CYS:HB3	D:278:PHE:HE1	0.556
7	D:298:ASP:HB3	D:301:LYS:O	0.556
7	F:41:ALA:O	F:44:LYS:HG2	0.556
7	A:417:THR:HG21	A:423:GLY:O	0.555
7	C:160:ARG:HB2	F:104:PHE:CB	0.555
7	C:94:ASP:N	C:238:PHE:CD2	0.555
7	C:389:ARG:HE	C:392:GLU:HG2	0.555
7	D:186:ASP:OD1	D:204:CYS:HB3	0.555
7	D:264:TYR:CD2	D:297:TRP:CD1	0.555
7	F:41:ALA:H	F:44:LYS:HE2	0.555
7	A:138:ILE:O	A:142:ILE:HG12	0.554
7	A:142:ILE:O	A:143:LEU:HB2	0.554
7	A:228:LEU:O	A:232:LEU:HG	0.554
7	A:299:LEU:C	A:299:LEU:HD13	0.554

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:38:ARG:HD2	C:38:ARG:O	0.554
7	C:172:ILE:CG2	C:280:LYS:HD3	0.554
7	C:190:TYR:CD1	D:144:GLY:CA	0.554
7	C:219:PHE:CE1	C:376:PHE:HD1	0.554
7	C:230:GLU:HA	F:109:PHE:CE2	0.554
7	C:253:TYR:HB2	C:277:TRP:CD2	0.554
7	C:287:VAL:N	C:293:LYS:CD	0.554
7	C:309:GLU:CG	F:44:LYS:HD3	0.554
7	D:326:ALA:HA	D:340:ASN:OXT	0.554
7	E:50:LEU:HG	E:51:LEU:H	0.554
7	F:28:PHE:CE2	F:33:TYR:CD2	0.554
7	C:46:LEU:N	C:82:SER:CB	0.554
7	A:211:GLN:O	A:212:TYR:HB3	0.553
7	A:219:TYR:O	A:223:VAL:HG13	0.553
7	A:239:GLU:OE2	C:34:LYS:HE3	0.553
7	C:138:PRO:HG3	C:242:THR:O	0.553
7	C:142:PHE:HB2	C:239:ASN:O	0.553
7	C:179:LEU:HD23	C:182:ILE:CD1	0.553
7	C:212:PHE:CB	D:40:VAL:HA	0.553
7	C:97:ASN:N	C:238:PHE:CG	0.553
7	C:299:GLU:OE1	C:307:LYS:HE3	0.553
7	D:335:PHE:CD1	D:337:LYS:HB2	0.553
7	A:38:PHE:CE2	A:40:ASN:HA	0.552

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:185:ALA:HB1	A:194:LEU:CD2	0.552
7	A:230:THR:O	A:231:LEU:HB3	0.552
7	A:339:THR:HG23	A:340:HIS:N	0.552
7	A:436:GLN:CD	A:436:GLN:H	0.552
7	C:44:LEU:HD12	C:90:THR:O	0.552
7	C:187:GLN:HG2	D:230:ASN:O	0.552
7	C:197:LEU:N	C:197:LEU:HD23	0.552
7	C:238:PHE:HD1	C:239:ASN:CA	0.552
7	D:292:PHE:CZ	D:311:HIS:CD2	0.552
7	D:313:ASN:HB3	D:333:ASP:HB2	0.552
7	A:361:LEU:HD22	B:6:PHE:CE1	0.551
7	C:8:LYS:HG3	C:25:LYS:CD	0.551
7	C:74:GLU:HG2	C:82:SER:OG	0.551
7	C:51:SER:N	C:87:GLU:CB	0.551
7	C:169:TYR:C	C:351:ALA:HB3	0.551
7	C:191:VAL:HB	C:272:LEU:CB	0.551
7	C:280:LYS:HZZ	C:348:ILE:HG21	0.551
7	D:89:LYS:HZ1	D:92:ALA:CA	0.551
7	D:164:THR:HB	D:185:GLY:O	0.551
7	D:204:CYS:HA	D:228:ASP:CB	0.551
7	D:297:TRP:HE1	D:302:ALA:CB	0.551
7	C:61:ARG:HE	C:81:ARG:HE	0.551
7	A:330:THR:O	A:334:ILE:HG23	0.550

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:346:PHE:O	A:347:VAL:HG23	0.550
7	A:394:TRP:CG	C:130:TYR:HH	0.550
7	C:54:ASN:CG	C:92:VAL:H	0.550
7	C:84:SER:C	C:84:SER:CB	0.550
7	C:85:ASP:CB	D:39:PRO:HB2	0.550
7	C:93:GLN:CA	C:238:PHE:CA	0.550
7	C:96:LYS:HD3	C:99:LEU:CD1	0.550
7	C:100:LYS:HG3	C:146:PHE:CZ	0.550
7	C:132:LEU:HD21	C:393:LEU:O	0.550
7	C:135:MET:CA	C:356:ARG:HA	0.550
7	C:213:GLN:HB3	C:218:ASN:HD21	0.550
7	C:244:ILE:O	C:244:ILE:HG22	0.550
7	C:273:PHE:HA	C:276:ILE:HB	0.550
7	C:305:LYS:HA	F:109:PHE:CE2	0.550
7	D:118:ASP:OD2	D:120:ILE:HB	0.550
7	D:222:PHE:CD1	D:253:PHE:CD1	0.550
7	F:30:PHE:HB2	F:78:ASN:CG	0.550
7	F:87:LEU:HD13	F:88:LYS:C	0.550
7	A:150:HIS:CB	C:3:CYS:HB2	0.549
7	A:320:THR:HG23	A:321:ASP:N	0.549
7	A:322:ILE:O	A:325:ARG:HB3	0.549
7	C:95:ILE:HG12	C:235:ILE:CG2	0.549
7	C:127:ARG:HG2	C:149:HIS:CA	0.549

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:190:TYR:O	C:228:ARG:HB2	0.549
7	C:289:LEU:HD21	C:359:CYS:HB3	0.549
7	C:280:LYS:O	C:294:GLN:C	0.549
7	C:83:ASN:ND2	C:375:VAL:HG11	0.549
7	D:101:MET:O	D:102:THR:HG22	0.549
7	D:181:THR:O	D:181:THR:HG23	0.549
7	F:13:VAL:CG1	F:19:LEU:HD21	0.549
7	A:119:LEU:C	A:119:LEU:HD13	0.548
7	A:300:ILE:O	A:304:VAL:HG23	0.548
7	C:41:HIS:CD2	C:219:PHE:CZ	0.548
7	C:96:LYS:HE3	C:239:ASN:OD1	0.548
7	C:99:LEU:HD23	C:179:LEU:N	0.548
7	C:103:ILE:CG1	C:127:ARG:HH22	0.548
7	C:104:GLU:HG2	C:356:ARG:O	0.548
7	C:185:ILE:HG22	C:236:GLN:CG	0.548
7	C:191:VAL:HG11	C:272:LEU:HD22	0.548
7	C:273:PHE:HA	C:276:ILE:CD1	0.548
7	D:190:LEU:HD21	D:199:PHE:CG	0.548
7	F:35:MET:HG2	F:98:ALA:O	0.548
7	F:96:TYR:CE1	F:120:GLY:CA	0.548
7	F:99:ARG:O	F:101:PRO:HD3	0.548
7	C:258:ARG:HE	C:283:ARG:HH22	0.548
7	A:120:PHE:CE2	A:362:PHE:CE1	0.547

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:182:TYR:CE1	B:14:LEU:HD12	0.547
7	A:391:ARG:C	A:391:ARG:HD3	0.547
7	C:62:ILE:HG13	C:63:LEU:HG	0.547
7	C:49:GLY:N	C:87:GLU:CG	0.547
7	C:119:LEU:HD23	C:153:LEU:HD13	0.547
7	C:201:ARG:HD2	D:39:PRO:CB	0.547
7	C:246:PHE:CD1	C:292:ASN:C	0.547
7	C:308:ILE:HA	C:310:ASP:CG	0.547
7	C:290:PHE:HZ	C:375:VAL:HG23	0.547
7	D:229:ILE:O	D:229:ILE:HG22	0.547
7	C:211:LYS:N	D:41:GLY:N	0.547
7	A:70:SER:C	A:73:PRO:HD3	0.546
7	A:138:ILE:HG23	A:139:ALA:N	0.546
7	A:154:ASN:HB2	A:392:LYS:HD2	0.546
7	A:386:VAL:HG13	D:312:ASP:OD1	0.546
7	A:411:LYS:HA	C:377:ASN:HD21	0.546
7	C:52:GLY:C	C:227:GLN:HA	0.546
7	C:53:LYS:HG3	C:227:GLN:OE1	0.546
7	C:57:VAL:CG1	C:95:ILE:HD13	0.546
7	C:131:ILE:HA	C:356:ARG:CG	0.546
7	C:131:ILE:HB	C:149:HIS:NE2	0.546
7	C:197:LEU:H	C:197:LEU:HD23	0.546
7	C:214:VAL:HG13	C:373:ARG:HG3	0.546

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:77:PRO:O	C:368:ASP:HB3	0.546
7	D:190:LEU:HD21	D:199:PHE:CD1	0.546
7	E:65:LYS:O	E:66:PHE:HB2	0.546
7	F:44:LYS:HZ1	F:47:GLU:CG	0.546
7	C:94:ASP:N	C:238:PHE:HD2	0.546
7	A:203:CYS:HB2	A:273:CYS:SG	0.545
7	C:74:GLU:CG	C:85:ASP:H	0.545
7	C:105:THR:CG2	F:106:ARG:HH12	0.545
7	C:153:LEU:CD1	C:159:VAL:HG21	0.545
7	C:163:TYR:CE1	F:106:ARG:HD2	0.545
7	C:167:ASN:HB2	F:58:SER:CA	0.545
7	C:219:PHE:CZ	C:376:PHE:HD1	0.545
7	C:231:ARG:HG2	C:231:ARG:O	0.545
7	C:247:VAL:HG23	C:290:PHE:HB2	0.545
7	C:304:GLY:C	C:304:GLY:N	0.545
7	D:190:LEU:CD2	D:199:PHE:HB2	0.545
7	D:150:ARG:HE	D:192:LEU:HG	0.545
7	D:330:GLY:CA	D:336:LEU:HD22	0.545
7	C:173:ASP:O	F:107:ASP:HB3	0.545
7	C:54:ASN:HD22	C:231:ARG:HH21	0.545
7	A:33:PRO:HG2	A:38:PHE:CE1	0.544
7	C:24:LYS:HD3	C:27:GLU:CG	0.544
7	C:45:LEU:CD2	C:245:ILE:HA	0.544

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:57:VAL:CG2	C:231:ARG:HB3	0.544
7	C:79:ALA:HA	C:368:ASP:CB	0.544
7	C:91:LYS:HE3	C:224:VAL:HG11	0.544
7	C:95:ILE:CB	C:235:ILE:CA	0.544
7	C:173:ASP:HB2	C:303:ALA:HB3	0.544
7	C:206:GLY:HA3	D:118:ASP:HA	0.544
7	C:230:GLU:HA	F:109:PHE:HZ	0.544
7	C:238:PHE:CE2	C:241:VAL:CG1	0.544
7	C:286:SER:CA	C:293:LYS:HB2	0.544
7	D:81:ILE:HG22	D:90:VAL:CG1	0.544
7	D:250:CYS:H	D:264:TYR:HB3	0.544
7	D:311:HIS:NE2	D:337:LYS:HB3	0.544
7	E:29:LYS:CG	E:30:VAL:H	0.544
7	F:28:PHE:HE2	F:33:TYR:CD2	0.544
7	F:102:ALA:HB1	F:105:THR:CG2	0.544
7	D:34:THR:HA	D:34:THR:N	0.544
7	A:90:LYS:HG3	A:91:ASP:N	0.543
7	A:131:LEU:C	A:373:LEU:HD21	0.543
7	A:133:PHE:CE1	A:165:ILE:HD13	0.543
7	B:26:LEU:HD23	B:31:GLY:HA2	0.543
7	C:23:ASN:CB	D:89:LYS:HG3	0.543
7	C:148:GLU:HB2	D:312:ASP:O	0.543
7	C:180:ASP:HB3	D:246:ASP:CG	0.543

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:210:THR:HG22	C:211:LYS:N	0.543
7	C:238:PHE:CD1	C:239:ASN:C	0.543
7	C:94:ASP:O	C:244:ILE:HD11	0.543
7	C:278:ASN:CG	C:285:THR:HB	0.543
7	D:64:GLY:HA2	D:105:TYR:CD2	0.543
7	D:123:ILE:HG21	D:136:SER:HB3	0.543
7	D:163:ASP:O	D:165:THR:HG22	0.543
7	F:2:GLN:CG	F:3:VAL:H	0.543
7	A:344:PHE:HE1	A:360:LYS:HD2	0.542
7	C:26:ILE:HD12	D:89:LYS:CD	0.542
7	C:45:LEU:CD1	C:245:ILE:HA	0.542
7	C:53:LYS:HE3	C:230:GLU:O	0.542
7	C:61:ARG:HB2	C:81:ARG:CA	0.542
7	C:108:ALA:HB2	C:354:ASP:CB	0.542
7	C:126:PHE:CG	C:127:ARG:N	0.542
7	C:144:PRO:CA	D:332:TRP:CD1	0.542
7	C:208:PHE:CZ	D:40:VAL:HG13	0.542
7	C:241:VAL:HG12	C:243:ALA:H	0.542
7	C:281:TRP:CD1	C:283:ARG:CG	0.542
7	D:89:LYS:HE2	D:92:ALA:HB2	0.542
7	A:121:LEU:C	A:121:LEU:HD23	0.541
7	A:257:PHE:CD1	A:289:PRO:HG2	0.541
7	B:5:THR:HG23	B:6:PHE:N	0.541

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	B:21:GLU:HA	B:21:GLU:OE2	0.541
7	C:43:LEU:CD1	C:221:MET:HG2	0.541
7	C:74:GLU:CB	C:85:ASP:N	0.541
7	C:91:LYS:CB	C:224:VAL:HG21	0.541
7	C:154:TRP:CZ2	F:105:THR:HB	0.541
7	C:191:VAL:HG22	C:227:GLN:O	0.541
7	C:214:VAL:HG12	C:215:ASP:OD2	0.541
7	C:217:VAL:HG12	C:219:PHE:CE1	0.541
7	D:146:LEU:HD12	D:160:SER:O	0.541
7	D:183:HIS:C	E:3:SER:HB3	0.541
7	D:311:HIS:CE1	D:337:LYS:HB3	0.541
7	F:119:ARG:HG3	F:120:GLY:N	0.541
7	C:75:GLU:H	C:84:SER:C	0.540
7	C:93:GLN:CB	C:238:PHE:HA	0.540
7	C:103:ILE:HD11	C:127:ARG:HH22	0.540
7	C:142:PHE:HB3	C:240:ASP:HB2	0.540
7	C:171:LEU:CD1	C:301:VAL:HG22	0.540
7	C:287:VAL:N	C:293:LYS:CG	0.540
7	D:57:LYS:CB	D:332:TRP:CD2	0.540
7	D:199:PHE:CE2	D:211:TRP:CD1	0.540
7	D:205:ASP:HB2	F:117:ALA:CB	0.540
7	C:279:ASN:CB	C:281:TRP:HE3	0.540
7	C:55:THR:H	C:227:GLN:HB3	0.540

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:88:LYS:NZ	D:117:LEU:H	0.540
7	A:216:ALA:HA	A:220:TRP:HZ3	0.539
7	A:402:LEU:CA	C:377:ASN:HB3	0.539
7	B:2:ALA:O	B:5:THR:HG22	0.539
7	C:102:ALA:HB1	C:175:ALA:CB	0.539
7	C:113:LEU:HD22	C:169:TYR:CD2	0.539
7	C:190:TYR:CE2	D:35:ASN:CB	0.539
7	C:55:THR:N	C:227:GLN:CB	0.539
7	D:267:ASP:HB3	E:64:LYS:CB	0.539
7	D:297:TRP:CZ2	D:302:ALA:HB2	0.539
7	C:231:ARG:N	F:109:PHE:CZ	0.539
7	A:16:TRP:HH2	A:46:TYR:HB2	0.538
7	A:200:SER:O	A:201:LEU:HB3	0.538
7	A:212:TYR:CE1	A:255:LEU:HB2	0.538
7	A:218:TYR:O	A:219:TYR:HB2	0.538
7	A:378:LEU:C	A:378:LEU:HD13	0.538
7	B:24:ALA:O	B:28:LYS:HD2	0.538
7	C:45:LEU:HD11	C:245:ILE:CA	0.538
7	C:87:GLU:CA	C:226:ALA:H	0.538
7	C:88:LYS:HG2	C:91:LYS:HG2	0.538
7	C:99:LEU:HD23	C:178:PHE:HB2	0.538
7	C:138:PRO:HB2	C:382:ILE:O	0.538
7	C:176:GLN:HB3	F:107:ASP:N	0.538

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:190:TYR:CG	D:144:GLY:N	0.538
7	C:57:VAL:CG2	C:235:ILE:HD11	0.538
7	D:80:ILE:CD1	D:89:LYS:HB2	0.538
7	D:285:LEU:HB3	D:297:TRP:HB3	0.538
7	F:5:LEU:HB3	F:25:ALA:HA	0.538
7	C:88:LYS:H	C:208:PHE:N	0.538
7	C:206:GLY:H	D:118:ASP:CB	0.538
7	A:291:LEU:C	A:291:LEU:HD23	0.537
7	A:415:CYS:N	A:416:PRO:HD2	0.537
7	C:24:LYS:HD2	C:27:GLU:CB	0.537
7	C:30:LEU:CD2	D:47:THR:HA	0.537
7	C:31:GLN:O	C:35:GLN:HG3	0.537
7	C:104:GLU:HG2	C:356:ARG:C	0.537
7	D:252:LEU:CD2	D:262:MET:HG2	0.537
7	D:336:LEU:O	D:336:LEU:HD13	0.537
7	F:89:PRO:HG3	F:127:VAL:CG2	0.537
7	C:167:ASN:H	F:58:SER:CB	0.537
7	F:62:THR:CG2	F:65:VAL:H	0.537
7	A:156:ILE:CD1	A:224:GLU:HA	0.536
7	A:330:THR:HG23	A:331:LEU:N	0.536
7	C:17:LYS:O	C:21:GLU:HG3	0.536
7	C:53:LYS:HE2	C:233:LYS:CB	0.536
7	C:58:LYS:HE2	C:224:VAL:CG2	0.536

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:107:VAL:CG2	C:153:LEU:HD23	0.536
7	C:146:PHE:CE2	C:356:ARG:CZ	0.536
7	C:208:PHE:HB3	C:223:ASP:H	0.536
7	C:54:ASN:OD1	C:234:TRP:CD1	0.536
7	C:331:ASP:HB2	C:334:VAL:CG2	0.536
7	D:89:LYS:HZ1	D:91:HIS:C	0.536
7	D:279:SER:OG	D:284:LEU:HD13	0.536
7	F:78:ASN:C	F:78:ASN:HD22	0.536
7	A:37:LEU:O	A:38:PHE:HB2	0.535
7	A:205:LEU:C	A:205:LEU:HD23	0.535
7	A:264:VAL:O	A:264:VAL:HG12	0.535
7	C:45:LEU:CD2	C:59:GLN:N	0.535
7	C:88:LYS:CE	D:118:ASP:HB3	0.535
7	C:98:ASN:HD21	C:172:ILE:HD13	0.535
7	C:201:ARG:HB2	C:210:THR:CG2	0.535
7	C:190:TYR:N	C:228:ARG:HB2	0.535
7	C:42:ARG:O	C:241:VAL:HG22	0.535
7	D:49:ARG:HG2	D:51:LEU:H	0.535
7	D:300:LEU:HD11	E:37:LEU:HD22	0.535
7	F:96:TYR:CG	F:97:CYS:N	0.535
7	A:8:SER:HB3	A:11:GLU:HB2	0.534
7	A:19:TYR:HB3	A:65:TYR:CD2	0.534
7	A:84:GLU:OE1	A:86:LEU:HD12	0.534

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:148:HIS:CB	D:52:ARG:HH12	0.534
7	A:288:LEU:C	A:288:LEU:HD23	0.534
7	A:394:TRP:CZ2	C:143:PRO:HB2	0.534
7	C:44:LEU:CD2	C:223:ASP:HA	0.534
7	C:46:LEU:HA	C:58:LYS:CB	0.534
7	C:48:ALA:HB2	C:276:ILE:HG23	0.534
7	C:73:GLY:HA3	C:85:ASP:C	0.534
7	C:147:TYR:CE2	C:185:ILE:HD13	0.534
7	C:228:ARG:HD3	F:114:THR:CB	0.534
7	C:241:VAL:CG1	C:243:ALA:H	0.534
7	C:244:ILE:HB	C:287:VAL:HG12	0.534
7	C:280:LYS:HB2	C:294:GLN:N	0.534
7	C:304:GLY:CA	F:108:CYS:C	0.534
7	D:51:LEU:HD22	D:336:LEU:HG	0.534
7	C:95:ILE:O	C:95:ILE:HG13	0.534
7	A:118:LEU:HD13	B:6:PHE:CE2	0.533
7	A:321:ASP:HB2	C:392:GLU:OE1	0.533
7	C:51:SER:CB	C:88:LYS:N	0.533
7	C:54:ASN:HA	C:231:ARG:NE	0.533
7	C:82:SER:C	C:82:SER:OG	0.533
7	C:247:VAL:HG22	C:292:ASN:HB3	0.533
7	C:295:ASP:OD1	C:300:LYS:HB2	0.533
7	C:318:TYR:CE1	C:340:PHE:CZ	0.533

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:22:ARG:HD3	D:258:ASP:OD1	0.533
7	D:91:HIS:HE2	D:129:ARG:HA	0.533
7	D:150:ARG:NE	D:192:LEU:HG	0.533
7	E:3:SER:CA	E:15:LEU:HD11	0.533
7	E:47:GLU:CG	E:48:ASP:H	0.533
7	A:261:TRP:CD2	A:286:ILE:HD12	0.532
7	C:50:GLU:CB	C:208:PHE:HA	0.532
7	C:50:GLU:HB3	C:208:PHE:N	0.532
7	C:49:GLY:H	C:87:GLU:CD	0.532
7	C:93:GLN:HB2	C:241:VAL:N	0.532
7	C:99:LEU:CD2	C:178:PHE:HD1	0.532
7	C:166:SER:CB	F:106:ARG:HE	0.532
7	C:278:ASN:C	C:278:ASN:CB	0.532
7	C:289:LEU:HD21	C:345:PHE:CE2	0.532
7	D:84:SER:O	D:85:TYR:HB3	0.532
7	C:53:LYS:O	D:117:LEU:HD13	0.532
7	D:233:CYS:SG	D:278:PHE:HD1	0.532
7	C:96:LYS:CB	C:239:ASN:H	0.532
7	A:64:TRP:CD1	A:65:TYR:H	0.531
7	A:311:LYS:HE2	A:312:LEU:CD2	0.531
7	A:404:ILE:HG12	A:405:GLN:H	0.531
7	C:44:LEU:HD22	C:45:LEU:O	0.531
7	C:57:VAL:CA	C:231:ARG:HD2	0.531

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:73:GLY:H	C:81:ARG:HB3	0.531
7	C:134:VAL:HG12	C:386:MET:SD	0.531
7	C:176:GLN:CB	F:105:THR:HG23	0.531
7	C:202:VAL:HG12	C:207:ILE:CD1	0.531
7	C:235:ILE:O	C:235:ILE:HG22	0.531
7	C:235:ILE:O	C:236:GLN:HB2	0.531
7	C:246:PHE:CD1	C:290:PHE:N	0.531
7	C:281:TRP:HD1	C:282:LEU:C	0.531
7	C:293:LYS:HE2	C:293:LYS:O	0.531
7	D:20:ASP:O	D:23:LYS:HB2	0.531
7	D:32:GLN:HB2	E:11:GLN:NE2	0.531
7	D:58:ILE:HG13	D:73:ALA:O	0.531
7	D:79:LEU:HD22	D:80:ILE:H	0.531
7	D:89:LYS:HE3	D:92:ALA:N	0.531
7	C:88:LYS:NZ	D:99:TRP:HB3	0.531
7	D:211:TRP:HE1	D:213:VAL:HG22	0.531
7	F:44:LYS:HZ1	F:47:GLU:HG2	0.531
7	D:124:TYR:HE2	D:133:VAL:CG1	0.531
7	A:194:LEU:O	A:198:GLN:HG3	0.530
7	A:258:VAL:O	A:261:TRP:HB3	0.530
7	C:74:GLU:C	C:84:SER:CA	0.530
7	C:92:VAL:HG12	C:93:GLN:HG3	0.530
7	C:106:ILE:HG23	C:107:VAL:HG23	0.530

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:137:VAL:HG11	C:386:MET:HB2	0.530
7	C:154:TRP:CH2	C:163:TYR:HD2	0.530
7	C:183:ASP:CG	D:314:ARG:HG2	0.530
7	C:195:GLN:HG2	C:196:ASP:N	0.530
7	C:246:PHE:HB2	C:288:ILE:C	0.530
7	C:287:VAL:N	C:293:LYS:CE	0.530
7	C:304:GLY:HA2	F:108:CYS:N	0.530
7	D:50:THR:OG1	D:52:ARG:HB2	0.530
7	D:130:GLU:HG2	D:131:GLY:N	0.530
7	D:166:CYS:O	D:180:PHE:HB3	0.530
7	D:198:LEU:HB2	D:210:LEU:HD21	0.530
7	D:284:LEU:HD21	D:296:VAL:HG13	0.530
7	D:304:ARG:HE	D:307:VAL:CG1	0.530
7	E:4:ASN:HB3	E:11:GLN:HB2	0.530
7	F:21:LEU:HB2	F:82:LEU:HB3	0.530
7	F:28:PHE:CE2	F:33:TYR:HD2	0.530
7	F:87:LEU:C	F:87:LEU:HD13	0.530
7	C:58:LYS:HZ2	C:224:VAL:H	0.530
7	A:403:HIS:CD2	C:374:ARG:CB	0.529
7	C:91:LYS:CE	D:117:LEU:HB3	0.529
7	C:108:ALA:HA	C:354:ASP:HA	0.529
7	C:108:ALA:HB1	C:354:ASP:CA	0.529
7	C:234:TRP:CZ2	D:99:TRP:NE1	0.529

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:258:ARG:HD3	C:283:ARG:HH12	0.529
7	C:380:ARG:HG2	C:380:ARG:O	0.529
7	C:136:ASN:O	C:382:ILE:HA	0.529
7	D:232:ILE:HG13	D:233:CYS:N	0.529
7	C:213:GLN:NE2	D:42:ARG:HH21	0.529
7	D:16:ASN:HD22	D:19:ARG:HH11	0.529
7	A:59:ASN:HD22	A:76:HIS:CG	0.528
7	C:128:VAL:O	C:131:ILE:HG23	0.528
7	C:147:TYR:CD1	D:313:ASN:ND2	0.528
7	C:222:PHE:CD1	C:222:PHE:N	0.528
7	C:270:LEU:O	C:270:LEU:HD13	0.528
7	C:360:TYR:CD1	C:382:ILE:HD12	0.528
7	D:64:GLY:HA2	D:105:TYR:CE2	0.528
7	D:77:GLY:C	D:95:LEU:HB2	0.528
7	D:332:TRP:HD1	D:333:ASP:H	0.528
7	C:88:LYS:N	C:223:ASP:O	0.528
7	A:323:LYS:C	A:325:ARG:H	0.527
7	A:383:ASN:HB3	C:126:PHE:CB	0.527
7	A:404:ILE:CG2	A:413:LEU:H	0.527
7	C:57:VAL:CB	C:231:ARG:HD2	0.527
7	C:89:ALA:HB3	C:222:PHE:HD2	0.527
7	C:138:PRO:HB2	C:379:CYS:CA	0.527
7	C:201:ARG:CD	D:39:PRO:HB3	0.527

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:240:ASP:HB3	D:332:TRP:HH2	0.527
7	C:279:ASN:CG	C:294:GLN:HB2	0.527
7	C:389:ARG:HE	C:392:GLU:CG	0.527
7	E:3:SER:H	E:15:LEU:CD1	0.527
7	F:7:GLU:HG2	F:8:SER:N	0.527
7	F:96:TYR:CE2	F:98:ALA:CA	0.527
7	A:140:SER:HB2	A:158:LEU:HD22	0.526
7	A:150:HIS:HB2	C:3:CYS:HB3	0.526
7	A:297:ASN:O	A:300:ILE:HG12	0.526
7	A:321:ASP:O	A:322:ILE:HG23	0.526
7	A:394:TRP:CD2	C:143:PRO:CG	0.526
7	C:74:GLU:CB	C:85:ASP:H	0.526
7	C:131:ILE:HG13	C:356:ARG:NH1	0.526
7	C:142:PHE:CE1	C:146:PHE:HD1	0.526
7	C:172:ILE:HG22	C:280:LYS:CD	0.526
7	C:190:TYR:CD1	D:144:GLY:N	0.526
7	C:231:ARG:CG	C:235:ILE:HB	0.526
7	C:245:ILE:CG1	C:290:PHE:HE2	0.526
7	C:78:GLN:O	C:368:ASP:HB2	0.526
7	D:95:LEU:HD12	D:97:SER:CA	0.526
7	F:5:LEU:HB3	F:24:ALA:O	0.526
7	A:158:LEU:O	A:159:ASN:HB2	0.525
7	A:167:ARG:CB	A:217:ASN:HD21	0.525

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:325:ARG:O	A:326:LEU:HB2	0.525
7	C:13:ARG:O	C:14:ASN:HB2	0.525
7	C:74:GLU:CB	C:83:ASN:C	0.525
7	C:97:ASN:CB	C:244:ILE:HG13	0.525
7	C:166:SER:HB3	F:106:ARG:NE	0.525
7	C:191:VAL:HG13	C:227:GLN:O	0.525
7	C:209:GLU:HA	C:222:PHE:HB3	0.525
7	C:90:THR:N	C:222:PHE:CD2	0.525
7	C:231:ARG:CD	C:235:ILE:HA	0.525
7	C:51:SER:H	C:87:GLU:HB3	0.525
7	D:239:ASN:N	D:239:ASN:HD22	0.525
7	A:231:LEU:HD11	C:387:HIS:HB2	0.524
7	A:246:TYR:CD1	A:247:VAL:N	0.524
7	C:30:LEU:HD22	D:47:THR:C	0.524
7	C:55:THR:HA	C:224:VAL:HB	0.524
7	C:126:PHE:CD1	C:127:ARG:N	0.524
7	C:184:VAL:HG22	D:274:THR:OG1	0.524
7	C:248:VAL:H	C:292:ASN:CA	0.524
7	C:331:ASP:HB2	C:334:VAL:HG23	0.524
7	C:389:ARG:HG2	C:392:GLU:HB2	0.524
7	D:156:GLN:H	D:171:ILE:CD1	0.524
7	D:242:ALA:CB	D:278:PHE:HZ	0.524
7	D:273:ILE:HG22	D:289:TYR:HB3	0.524

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:238:PHE:HD1	C:239:ASN:N	0.524
7	C:54:ASN:HD22	C:231:ARG:NH2	0.524
7	C:91:LYS:O	C:92:VAL:CB	0.524
7	A:170:SER:O	A:174:LYS:HB3	0.523
7	A:222:LEU:HD13	A:293:ALA:HB1	0.523
7	C:50:GLU:HG3	D:38:ASP:C	0.523
7	C:80:ALA:HB3	C:81:ARG:HG3	0.523
7	C:93:GLN:CA	C:238:PHE:CB	0.523
7	C:93:GLN:C	C:238:PHE:CD2	0.523
7	C:162:CYS:O	C:163:TYR:HB2	0.523
7	C:181:LYS:HB3	C:236:GLN:OE1	0.523
7	C:234:TRP:CD1	C:237:CYS:SG	0.523
7	C:93:GLN:CB	C:241:VAL:HG23	0.523
7	C:279:ASN:HB3	C:281:TRP:HA	0.523
7	C:280:LYS:HB3	C:295:ASP:N	0.523
7	D:49:ARG:HB2	D:82:TRP:CD1	0.523
7	F:17:GLY:O	F:19:LEU:HD22	0.523
7	F:36:ASN:CB	F:48:TRP:CZ2	0.523
7	C:363:PHE:H	C:374:ARG:NH1	0.523
7	C:45:LEU:HD22	C:59:GLN:HG3	0.522
7	C:57:VAL:HG21	C:235:ILE:CG1	0.522
7	C:97:ASN:HA	C:238:PHE:CZ	0.522
7	A:398:ARG:HH12	C:140:PHE:HA	0.522

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:305:LYS:HE3	F:110:ASP:HA	0.522
7	D:55:LEU:O	D:56:ALA:HB2	0.522
7	D:59:TYR:CE2	D:101:MET:CG	0.522
7	D:167:ALA:CB	D:176:GLN:HG3	0.522
7	A:394:TRP:HE3	A:394:TRP:N	0.522
7	A:191:TRP:HE1	A:195:LEU:CD2	0.521
7	A:218:TYR:HD1	A:219:TYR:CD2	0.521
7	C:4:LEU:HG	D:52:ARG:HD3	0.521
7	C:45:LEU:CD2	C:59:GLN:H	0.521
7	A:436:GLN:CG	C:77:PRO:HB3	0.521
7	C:219:PHE:CZ	C:376:PHE:CD1	0.521
7	C:232:ARG:HA	C:235:ILE:HG21	0.521
7	C:281:TRP:CD1	C:283:ARG:HB2	0.521
7	C:281:TRP:N	C:295:ASP:HA	0.521
7	C:321:PRO:HB3	C:339:TYR:CZ	0.521
7	A:136:LEU:HD12	A:164:PHE:CD1	0.520
7	A:255:LEU:N	A:258:VAL:HG22	0.520
7	C:53:LYS:HE2	C:234:TRP:N	0.520
7	C:90:THR:CB	C:222:PHE:H	0.520
7	C:103:ILE:C	C:131:ILE:HD11	0.520
7	C:107:VAL:O	C:108:ALA:HB2	0.520
7	C:163:TYR:CE1	F:106:ARG:CZ	0.520
7	C:174:CYS:SG	C:178:PHE:CE2	0.520

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:219:PHE:O	C:221:MET:HE2	0.520
7	C:238:PHE:CZ	C:241:VAL:C	0.520
7	C:248:VAL:HG21	C:281:TRP:HZ3	0.520
7	C:298:ALA:HB1	F:61:TYR:O	0.520
7	C:348:ILE:HG22	C:349:SER:N	0.520
7	D:54:HIS:CG	D:74:SER:CB	0.520
7	D:162:GLY:O	D:186:ASP:HA	0.520
7	D:313:ASN:HB3	D:333:ASP:CB	0.520
7	D:48:ARG:CG	D:49:ARG:H	0.520
7	A:6:THR:O	A:6:THR:HG23	0.519
7	A:132:SER:O	A:136:LEU:HG	0.519
7	C:45:LEU:HB2	C:83:ASN:N	0.519
7	C:75:GLU:N	C:81:ARG:HB3	0.519
7	C:53:LYS:O	C:91:LYS:HE3	0.519
7	C:198:LEU:HD23	D:38:ASP:HB2	0.519
7	C:210:THR:C	D:41:GLY:H	0.519
7	C:249:ALA:O	C:250:SER:HB3	0.519
7	C:246:PHE:CD1	C:289:LEU:HA	0.519
7	C:291:LEU:HG	C:291:LEU:O	0.519
7	C:308:ILE:HD13	F:45:GLY:CA	0.519
7	D:18:ILE:O	D:18:ILE:HG23	0.519
7	D:37:ILE:C	D:37:ILE:CG1	0.519
7	D:51:LEU:CB	D:336:LEU:H	0.519

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:57:LYS:NZ	D:99:TRP:CH2	0.519
7	D:223:THR:CB	F:2:GLN:HB3	0.519
7	F:20:ARG:O	F:21:LEU:HD23	0.519
7	C:146:PHE:CZ	C:356:ARG:CZ	0.518
7	C:174:CYS:HB3	C:178:PHE:CE2	0.518
7	C:201:ARG:CB	C:210:THR:CG2	0.518
7	C:209:GLU:CB	C:222:PHE:CD2	0.518
7	C:181:LYS:HZ1	C:233:LYS:CB	0.518
7	C:248:VAL:HG23	C:292:ASN:CA	0.518
7	D:49:ARG:CG	D:51:LEU:HD12	0.518
7	D:233:CYS:O	D:241:PHE:HB2	0.518
7	D:303:ASP:OD1	E:53:PRO:HD2	0.518
7	C:231:ARG:N	F:109:PHE:HZ	0.518
7	C:147:TYR:N	D:313:ASN:HD22	0.518
7	A:279:ASN:OD1	A:281:ASN:HB3	0.517
7	A:436:GLN:HG3	C:77:PRO:CG	0.517
7	C:85:ASP:C	C:208:PHE:HE1	0.517
7	C:92:VAL:CB	C:237:CYS:HB3	0.517
7	C:96:LYS:HG2	C:239:ASN:CB	0.517
7	C:160:ARG:HD2	F:104:PHE:CG	0.517
7	C:185:ILE:HG12	D:57:LYS:HD3	0.517
7	C:190:TYR:CG	C:191:VAL:N	0.517
7	C:207:ILE:O	C:207:ILE:HG23	0.517

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:230:GLU:CA	F:109:PHE:HZ	0.517
7	C:93:GLN:OE1	C:241:VAL:HG23	0.517
7	C:295:ASP:HB3	C:300:LYS:CG	0.517
7	C:305:LYS:CG	F:109:PHE:CD2	0.517
7	D:135:VAL:HG12	D:136:SER:O	0.517
7	D:183:HIS:CD2	D:184:THR:N	0.517
7	D:213:VAL:O	D:214:ARG:HB2	0.517
7	D:290:ASP:HA	D:314:ARG:CD	0.517
7	F:30:PHE:CD1	F:78:ASN:ND2	0.517
7	A:32:PRO:HB2	A:33:PRO:HA	0.516
7	A:212:TYR:HE1	A:255:LEU:HB2	0.516
7	C:41:HIS:HB3	C:43:LEU:HD11	0.516
7	C:56:ILE:CG1	C:275:SER:HB3	0.516
7	C:97:ASN:CB	C:238:PHE:CZ	0.516
7	C:100:LYS:O	C:104:GLU:HG3	0.516
7	C:181:LYS:HE3	C:232:ARG:HD3	0.516
7	C:280:LYS:CB	C:295:ASP:H	0.516
7	C:320:THR:HB	C:336:ARG:NE	0.516
7	D:35:ASN:C	D:35:ASN:HA	0.516
7	D:196:THR:CG2	D:197:ARG:H	0.516
7	D:327:VAL:O	D:339:TRP:HB3	0.516
7	F:101:PRO:CG	F:116:TYR:HE2	0.516
7	F:101:PRO:HD3	F:110:ASP:OD2	0.516

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:246:PHE:HZ	C:294:GLN:CG	0.516
7	A:182:TYR:CD1	B:14:LEU:CG	0.515
7	C:54:ASN:HB2	C:91:LYS:CB	0.515
7	C:89:ALA:C	C:222:PHE:HD2	0.515
7	C:95:ILE:CB	C:231:ARG:NH1	0.515
7	C:151:LYS:HD3	D:290:ASP:HB3	0.515
7	C:176:GLN:HB2	F:105:THR:HG23	0.515
7	C:234:TRP:CD2	D:117:LEU:CD1	0.515
7	C:302:LEU:HB3	F:48:TRP:NE1	0.515
7	D:59:TYR:CD1	D:60:ALA:N	0.515
7	D:117:LEU:CA	D:145:TYR:HD1	0.515
7	C:151:LYS:CB	D:314:ARG:HD3	0.515
7	F:34:LYS:HZ3	F:53:SER:HA	0.515
7	C:62:ILE:CG1	C:63:LEU:H	0.515
7	D:230:ASN:ND2	D:231:ALA:N	0.515
7	A:23:CYS:SG	A:43:PHE:CE1	0.514
7	A:82:THR:HB	A:88:LEU:HD21	0.514
7	A:314:ALA:HB2	C:385:ARG:HH22	0.514
7	A:336:LEU:HD23	A:375:VAL:CB	0.514
7	A:401:HIS:HB3	C:380:ARG:CB	0.514
7	A:419:SER:O	A:420:LEU:HB2	0.514
7	C:46:LEU:H	C:59:GLN:CA	0.514
7	C:61:ARG:CD	C:81:ARG:HG2	0.514

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:95:ILE:HB	C:231:ARG:HD3	0.514
7	C:297:LEU:O	C:298:ALA:HB2	0.514
7	F:13:VAL:HG22	F:14:GLN:N	0.514
7	C:176:GLN:OE1	F:105:THR:HG23	0.514
7	C:280:LYS:H	C:294:GLN:N	0.514
7	C:7:SER:O	C:21:GLU:HA	0.513
7	C:53:LYS:HG3	C:227:GLN:HG3	0.513
7	C:73:GLY:C	C:81:ARG:CA	0.513
7	C:89:ALA:CB	C:222:PHE:HD2	0.513
7	C:99:LEU:HD23	C:178:PHE:HD1	0.513
7	C:188:ALA:CA	C:234:TRP:HZ3	0.513
7	C:55:THR:N	C:227:GLN:HB3	0.513
7	C:181:LYS:NZ	C:233:LYS:HG2	0.513
7	C:286:SER:C	C:286:SER:CB	0.513
7	C:293:LYS:C	C:293:LYS:H	0.513
7	D:46:ARG:HA	D:78:LYS:HG2	0.513
7	D:60:ALA:O	D:61:MET:HG2	0.513
7	D:125:ASN:O	D:133:VAL:HG23	0.513
7	D:285:LEU:C	D:285:LEU:HD13	0.513
7	D:318:LEU:C	D:318:LEU:HD13	0.513
7	E:37:LEU:O	E:37:LEU:HD23	0.513
7	F:88:LYS:HG3	F:91:ASP:H	0.513
7	F:112:THR:HG22	F:114:THR:N	0.513

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:95:ILE:N	C:231:ARG:HH12	0.513
7	A:100:LEU:C	A:100:LEU:HD13	0.512
7	A:294:ILE:O	A:342:VAL:HG11	0.512
7	C:74:GLU:C	C:84:SER:N	0.512
7	C:99:LEU:HD23	C:178:PHE:CD1	0.512
7	C:136:ASN:HB3	C:358:TYR:CA	0.512
7	C:135:MET:O	C:137:VAL:HG23	0.512
7	C:147:TYR:CE1	C:186:LYS:CE	0.512
7	C:163:TYR:CD1	F:106:ARG:NE	0.512
7	C:171:LEU:HD21	C:301:VAL:HG13	0.512
7	C:54:ASN:ND2	C:234:TRP:CD1	0.512
7	C:234:TRP:CH2	D:101:MET:SD	0.512
7	C:246:PHE:CE2	C:289:LEU:HB3	0.512
7	C:140:PHE:HD1	C:386:MET:HE1	0.512
7	D:292:PHE:CE2	D:293:ASN:HA	0.512
7	D:304:ARG:NH1	E:55:PRO:HA	0.512
7	C:151:LYS:CB	D:314:ARG:HH11	0.512
7	A:116:GLU:HA	A:116:GLU:OE1	0.511
7	A:236:VAL:HG11	C:217:VAL:CG1	0.511
7	A:332:THR:O	A:335:PRO:HD2	0.511
7	C:147:TYR:CD1	D:314:ARG:NH2	0.511
7	C:220:HIS:C	C:221:MET:HG3	0.511
7	C:47:GLY:H	C:225:GLY:HA2	0.511

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:308:ILE:HD13	F:45:GLY:HA3	0.511
7	D:51:LEU:HB2	D:336:LEU:H	0.511
7	D:124:TYR:CE2	D:133:VAL:CG1	0.511
7	D:160:SER:OG	D:187:VAL:HB	0.511
7	D:242:ALA:HB3	D:278:PHE:CZ	0.511
7	D:297:TRP:CZ2	D:302:ALA:HA	0.511
7	D:325:MET:HG2	D:325:MET:O	0.511
7	C:248:VAL:H	C:292:ASN:HD22	0.511
7	A:246:TYR:C	A:249:ILE:HG22	0.510
7	A:401:HIS:CD2	C:380:ARG:CB	0.510
7	A:419:SER:C	A:421:SER:H	0.510
7	A:418:SER:O	A:422:SER:HB2	0.510
7	C:44:LEU:CD1	C:58:LYS:CD	0.510
7	C:46:LEU:HD12	C:58:LYS:CB	0.510
7	C:92:VAL:C	C:238:PHE:CA	0.510
7	C:95:ILE:CD1	C:178:PHE:CD2	0.510
7	C:176:GLN:HB3	F:107:ASP:C	0.510
7	C:186:LYS:HA	D:57:LYS:HE3	0.510
7	C:230:GLU:CA	F:109:PHE:CZ	0.510
7	C:345:PHE:CG	C:346:LEU:N	0.510
7	D:63:TRP:CD1	D:67:SER:HA	0.510
7	E:70:ILE:HD12	F:76:ALA:O	0.510
7	D:204:CYS:SG	F:116:TYR:HE1	0.510

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:234:TRP:NE1	C:237:CYS:SG	0.510
7	A:116:GLU:OE2	A:120:PHE:HB2	0.509
7	A:219:TYR:HA	A:222:LEU:CD2	0.509
7	B:1:HIS:O	B:2:ALA:HB3	0.509
7	C:53:LYS:CG	C:227:GLN:HG3	0.509
7	C:85:ASP:HB3	D:39:PRO:HD2	0.509
7	C:90:THR:HG23	C:222:PHE:N	0.509
7	C:190:TYR:CD2	D:143:THR:HB	0.509
7	C:238:PHE:CD1	C:241:VAL:N	0.509
7	F:69:PHE:HE2	F:84:MET:HE2	0.509
7	F:96:TYR:CD2	F:119:ARG:CG	0.509
7	A:27:LEU:C	A:27:LEU:HD13	0.508
7	A:220:TRP:HH2	A:251:TRP:HA	0.508
7	C:9:THR:HB	C:21:GLU:OE1	0.508
7	C:45:LEU:CD1	C:83:ASN:HB2	0.508
7	C:144:PRO:CA	D:333:ASP:N	0.508
7	C:153:LEU:HG	C:153:LEU:O	0.508
7	C:170:GLN:HG3	C:348:ILE:N	0.508
7	C:284:ASP:C	C:284:ASP:HA	0.508
7	C:287:VAL:HA	C:293:LYS:HD2	0.508
7	C:289:LEU:N	C:289:LEU:HD23	0.508
7	C:308:ILE:HG21	F:45:GLY:CA	0.508
7	D:183:HIS:CD2	D:203:ALA:CB	0.508

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	F:39:ARG:HG2	F:95:TYR:CE1	0.508
7	F:96:TYR:CZ	F:120:GLY:N	0.508
7	C:234:TRP:HZ2	D:101:MET:CB	0.508
7	F:30:PHE:HD1	F:33:TYR:HH	0.508
7	A:126:THR:HA	A:129:TYR:CD2	0.507
7	A:411:LYS:CB	A:412:PRO:CD	0.507
7	C:55:THR:HG22	C:227:GLN:C	0.507
7	C:251:SER:HA	C:253:TYR:CD1	0.507
7	C:274:ASP:C	C:277:TRP:HB3	0.507
7	C:279:ASN:N	C:285:THR:HG22	0.507
7	C:356:ARG:HD3	C:356:ARG:O	0.507
7	D:202:GLY:O	D:203:ALA:HB2	0.507
7	D:211:TRP:CH2	D:216:GLY:HA2	0.507
7	E:66:PHE:CG	E:67:PHE:N	0.507
7	A:33:PRO:HG2	A:38:PHE:CD1	0.506
7	A:72:VAL:HG11	A:103:CYS:HB3	0.506
7	A:140:SER:CB	A:161:PHE:CD2	0.506
7	A:194:LEU:N	A:194:LEU:HD23	0.506
7	A:247:VAL:C	A:249:ILE:H	0.506
7	A:420:LEU:O	A:421:SER:HB3	0.506
7	C:30:LEU:C	C:30:LEU:HD12	0.506
7	C:74:GLU:N	C:81:ARG:HB3	0.506
7	C:177:TYR:CD1	C:232:ARG:NE	0.506

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:303:ALA:C	C:304:GLY:C	0.506
7	F:36:ASN:CG	F:48:TRP:CZ2	0.506
7	F:41:ALA:CA	F:44:LYS:HG2	0.506
7	C:246:PHE:HE1	C:292:ASN:N	0.506
7	A:104:GLU:HG3	A:105:GLU:O	0.505
7	A:236:VAL:HG11	C:217:VAL:HA	0.505
7	A:314:ALA:CB	C:385:ARG:HH22	0.505
7	A:411:LYS:HG3	A:412:PRO:CD	0.505
7	C:6:ASN:C	C:24:LYS:HG2	0.505
7	C:95:ILE:HB	C:231:ARG:NH1	0.505
7	C:98:ASN:HB3	C:178:PHE:CE2	0.505
7	C:103:ILE:HB	C:179:LEU:HD21	0.505
7	C:140:PHE:CE2	C:142:PHE:CA	0.505
7	C:86:GLY:O	C:223:ASP:HB3	0.505
7	C:54:ASN:ND2	C:234:TRP:CB	0.505
7	C:302:LEU:CD1	F:51:ASP:HB3	0.505
7	C:85:ASP:N	D:40:VAL:HG13	0.505
7	D:48:ARG:O	D:53:GLY:HA3	0.505
7	D:57:LYS:CA	D:332:TRP:CE2	0.505
7	D:117:LEU:HD21	D:145:TYR:HB2	0.505
7	E:1:MET:C	E:1:MET:N	0.505
7	F:37:TRP:CH2	F:71:ILE:CG2	0.505
7	F:65:VAL:CG1	F:69:PHE:CD1	0.505

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	F:100:CYS:SG	F:101:PRO:N	0.505
7	A:182:TYR:HB2	B:18:ALA:HB2	0.504
7	A:152:THR:CB	A:396:ARG:HD2	0.504
7	C:44:LEU:CD1	C:91:LYS:CA	0.504
7	C:48:ALA:CA	C:61:ARG:HB3	0.504
7	C:76:ASP:HB3	C:81:ARG:HH11	0.504
7	C:99:LEU:CB	C:236:GLN:HE22	0.504
7	C:127:ARG:NH1	C:131:ILE:HD13	0.504
7	C:176:GLN:HG2	F:100:CYS:SG	0.504
7	C:181:LYS:H22	C:184:VAL:HG12	0.504
7	C:238:PHE:CE1	C:241:VAL:N	0.504
7	C:340:PHE:O	C:341:ILE:HG13	0.504
7	C:381:ASP:O	C:385:ARG:HG3	0.504
7	D:32:GLN:O	D:33:ILE:HD13	0.504
7	C:209:GLU:CB	D:43:ILE:HD11	0.504
7	D:180:PHE:CB	D:211:TRP:CZ3	0.504
7	D:321:THR:HG22	D:324:GLY:H	0.504
7	C:142:PHE:HE2	D:332:TRP:CG	0.504
7	C:53:LYS:HB2	C:189:ASP:O	0.503
7	C:62:ILE:HG12	C:254:ASN:HA	0.503
7	C:100:LYS:CD	C:146:PHE:CZ	0.503
7	C:103:ILE:HG12	C:150:ALA:CB	0.503
7	C:246:PHE:CD2	C:289:LEU:HD22	0.503

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:247:VAL:CG2	C:290:PHE:HB2	0.503
7	C:305:LYS:C	C:305:LYS:HB2	0.503
7	C:312:PHE:CG	C:313:PRO:CD	0.503
7	D:96:ARG:HG2	D:96:ARG:O	0.503
7	D:304:ARG:CZ	D:307:VAL:HG13	0.503
7	D:311:HIS:NE2	D:329:THR:HG23	0.503
7	F:28:PHE:CG	F:29:THR:N	0.503
7	A:16:TRP:C	A:18:GLU:H	0.502
7	C:85:ASP:CA	C:208:PHE:HE1	0.502
7	C:93:GLN:HB2	C:241:VAL:CA	0.502
7	C:164:GLU:HG3	F:54:GLN:HB3	0.502
7	C:207:ILE:HD11	C:210:THR:OG1	0.502
7	C:208:PHE:HD2	C:222:PHE:CB	0.502
7	C:280:LYS:CB	C:295:ASP:N	0.502
7	C:302:LEU:N	C:302:LEU:HD23	0.502
7	C:304:GLY:CA	F:108:CYS:CA	0.502
7	C:342:ARG:NE	C:361:PRO:HB2	0.502
7	C:393:LEU:HD13	C:394:LEU:OXT	0.502
7	D:54:HIS:CD2	D:74:SER:HB2	0.502
7	D:290:ASP:O	D:314:ARG:HG3	0.502
7	E:3:SER:H	E:15:LEU:CD2	0.502
7	E:30:VAL:HG13	E:31:SER:N	0.502
7	A:353:ARG:HE	A:353:ARG:N	0.502

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:8:SER:HB2	A:11:GLU:OE2	0.501
7	A:11:GLU:O	A:15:LYS:HG3	0.501
7	C:56:ILE:HG13	C:229:ASP:CA	0.501
7	C:73:GLY:N	C:81:ARG:CB	0.501
7	C:88:LYS:CE	D:97:SER:HB3	0.501
7	C:142:PHE:CZ	C:147:TYR:N	0.501
7	C:151:LYS:HB2	D:314:ARG:NH1	0.501
7	C:173:ASP:HB3	C:300:LYS:CD	0.501
7	D:47:THR:HG22	D:78:LYS:CB	0.501
7	A:397:TRP:NE1	D:55:LEU:HD11	0.501
7	D:150:ARG:HA	D:150:ARG:NH1	0.501
7	D:200:VAL:HG12	D:201:SER:N	0.501
7	D:222:PHE:CZ	D:260:GLU:CB	0.501
7	D:318:LEU:HD21	D:327:VAL:HG11	0.501
7	E:50:LEU:CD1	E:51:LEU:HD13	0.501
7	A:394:TRP:H22	C:146:PHE:N	0.501
7	A:33:PRO:CG	A:38:PHE:CE1	0.500
7	A:81:CYS:HA	A:87:TRP:HA	0.500
7	A:188:GLN:HA	A:188:GLN:NE2	0.500
7	A:253:VAL:CB	A:254:PRO:HD3	0.500
7	A:344:PHE:HA	A:348:MET:HB3	0.500
7	A:390:PHE:CD1	C:145:GLU:CB	0.500
7	C:101:GLU:CD	C:287:VAL:HG22	0.500

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:147:TYR:CZ	D:332:TRP:CB	0.500
7	C:208:PHE:CZ	D:40:VAL:N	0.500
7	C:241:VAL:HG12	C:243:ALA:N	0.500
7	C:305:LYS:HA	F:109:PHE:CE1	0.500
7	C:348:ILE:O	C:349:SER:HB3	0.500
7	D:49:ARG:CG	D:82:TRP:CD1	0.500
7	D:90:VAL:HG13	D:91:HIS:N	0.500
7	D:47:THR:H	D:92:ALA:CB	0.500
7	E:8:SER:O	E:11:GLN:HB3	0.500
7	C:163:TYR:HE1	F:106:ARG:NH1	0.500
7	A:328:LYS:O	A:329:SER:HB3	0.499
7	C:54:ASN:CG	C:234:TRP:HB3	0.499
7	C:61:ARG:HD2	C:81:ARG:HG2	0.499
7	C:73:GLY:C	C:86:GLY:N	0.499
7	C:79:ALA:HA	C:368:ASP:HB2	0.499
7	C:46:LEU:O	C:82:SER:HA	0.499
7	C:182:ILE:CG1	D:314:ARG:NH2	0.499
7	C:213:GLN:HG2	C:218:ASN:ND2	0.499
7	C:249:ALA:CB	C:253:TYR:CE1	0.499
7	D:123:ILE:HG21	D:137:ARG:N	0.499
7	D:211:TRP:CD1	D:213:VAL:HG22	0.499
7	E:13:ARG:O	E:16:VAL:HG12	0.499
7	C:88:LYS:HE2	D:118:ASP:HB3	0.498

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:151:LYS:HZ1	C:180:ASP:HA	0.498
7	D:72:SER:HB3	D:82:TRP:CH2	0.498
7	D:35:ASN:N	D:143:THR:CB	0.498
7	F:37:TRP:CZ2	F:80:LEU:CB	0.498
7	A:401:HIS:CB	A:401:HIS:N	0.498
7	D:145:TYR:CG	D:146:LEU:N	0.498
7	A:91:ASP:HB3	A:94:SER:OG	0.497
7	A:297:ASN:HA	A:300:ILE:HG12	0.497
7	A:377:ILE:O	A:378:LEU:HB3	0.497
7	C:44:LEU:CD1	C:231:ARG:NH2	0.497
7	C:91:LYS:HA	C:224:VAL:CG2	0.497
7	C:96:LYS:CB	C:239:ASN:CA	0.497
7	C:110:MET:CG	C:117:VAL:HB	0.497
7	C:123:GLU:C	C:125:GLN:H	0.497
7	C:127:ARG:HH21	C:150:ALA:CB	0.497
7	C:170:GLN:HB2	C:348:ILE:N	0.497
7	C:171:LEU:C	C:171:LEU:HD12	0.497
7	C:217:VAL:CG1	C:219:PHE:CE1	0.497
7	C:220:HIS:CB	C:222:PHE:CZ	0.497
7	C:234:TRP:CE3	C:234:TRP:HA	0.497
7	C:305:LYS:HE3	F:110:ASP:C	0.497
7	C:312:PHE:CD2	C:313:PRO:N	0.497
7	D:47:THR:CG2	D:78:LYS:HB2	0.497

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:215:GLU:OE2	D:217:MET:HB2	0.497
7	D:261:LEU:CD1	E:34:ALA:HB2	0.497
7	E:12:ALA:O	E:13:ARG:HB3	0.497
7	F:40:GLN:HB3	F:46:LEU:HD22	0.497
7	F:89:PRO:HB3	F:127:VAL:CG1	0.497
7	F:96:TYR:CE2	F:97:CYS:C	0.497
7	C:145:GLU:HG2	D:312:ASP:OD1	0.496
7	C:171:LEU:HD11	C:301:VAL:HA	0.496
7	C:98:ASN:HD21	C:172:ILE:CD1	0.496
7	C:246:PHE:CE2	C:289:LEU:CD2	0.496
7	C:2:GLY:N	D:55:LEU:HG	0.496
7	C:187:GLN:N	D:101:MET:HE2	0.496
7	D:176:GLN:CD	D:179:THR:HB	0.496
7	D:176:GLN:NE2	D:179:THR:HG22	0.496
7	D:325:MET:O	D:326:ALA:HB2	0.496
7	D:332:TRP:CD1	D:333:ASP:H	0.496
7	F:82:LEU:HD13	F:83:GLN:O	0.496
7	D:99:TRP:HD1	D:117:LEU:N	0.496
7	A:233:ALA:O	A:234:PHE:HB2	0.495
7	A:254:PRO:O	A:255:LEU:HB3	0.495
7	A:301:PHE:CD1	A:337:LEU:HD22	0.495
7	A:398:ARG:HB3	A:398:ARG:NH1	0.495
7	C:45:LEU:HD13	C:59:GLN:HB2	0.495

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:46:LEU:H	C:82:SER:HB2	0.495
7	C:92:VAL:HG21	D:99:TRP:HB2	0.495
7	C:97:ASN:HB2	C:238:PHE:CZ	0.495
7	C:103:ILE:CG1	C:127:ARG:NH2	0.495
7	C:135:MET:HG3	C:355:GLY:C	0.495
7	C:142:PHE:CB	C:239:ASN:C	0.495
7	C:166:SER:O	C:171:LEU:HD23	0.495
7	C:178:PHE:CD2	C:235:ILE:HD13	0.495
7	C:246:PHE:CE1	C:293:LYS:N	0.495
7	C:246:PHE:CE2	C:289:LEU:CB	0.495
7	C:257:ILE:HG21	C:258:ARG:CZ	0.495
7	C:345:PHE:CE1	C:349:SER:CB	0.495
7	D:86:THR:HG23	D:88:ASN:OD1	0.495
7	D:100:VAL:HG13	D:115:GLY:O	0.495
7	C:213:GLN:HE22	D:42:ARG:HH21	0.495
7	A:22:GLN:O	A:25:ARG:HB3	0.494
7	A:298:PHE:CD1	A:342:VAL:HG21	0.494
7	C:1:MET:C	C:3:CYS:H	0.494
7	C:85:ASP:C	C:208:PHE:CE1	0.494
7	C:54:ASN:OD1	C:91:LYS:HE3	0.494
7	C:93:GLN:CB	C:241:VAL:H	0.494
7	C:163:TYR:CG	F:106:ARG:CB	0.494
7	C:166:SER:CB	F:106:ARG:NE	0.494

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:213:GLN:HB3	C:218:ASN:ND2	0.494
7	C:238:PHE:CE2	C:241:VAL:CB	0.494
7	C:136:ASN:CB	C:382:ILE:HG13	0.494
7	D:48:ARG:CA	D:53:GLY:HA3	0.494
7	F:37:TRP:CZ3	F:71:ILE:HD12	0.494
7	F:102:ALA:HB1	F:105:THR:HG21	0.494
7	C:46:LEU:H	C:59:GLN:H	0.494
7	A:377:ILE:HG13	A:381:PHE:CE1	0.493
7	B:14:LEU:CD2	B:15:GLU:N	0.493
7	C:60:MET:HB2	C:276:ILE:O	0.493
7	C:148:GLU:HG3	C:149:HIS:N	0.493
7	C:151:LYS:HD3	D:290:ASP:CB	0.493
7	C:209:GLU:CB	C:222:PHE:CG	0.493
7	C:231:ARG:HD3	C:235:ILE:CA	0.493
7	C:234:TRP:CH2	D:145:TYR:CE2	0.493
7	C:281:TRP:CD1	C:283:ARG:CB	0.493
7	C:281:TRP:CD1	C:283:ARG:HG3	0.493
7	C:286:SER:C	C:293:LYS:CB	0.493
7	C:290:PHE:CE2	C:375:VAL:HG22	0.493
7	D:276:VAL:HG13	D:285:LEU:CD1	0.493
7	D:286:LEU:C	D:286:LEU:HD23	0.493
7	F:65:VAL:HG13	F:69:PHE:HD1	0.493
7	F:48:TRP:HZ3	F:110:ASP:C	0.493

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:123:ILE:HG23	A:124:ILE:H	0.492
7	A:377:ILE:HG12	A:378:LEU:H	0.492
7	B:17:GLN:HA	B:17:GLN:OE1	0.492
7	C:134:VAL:HG12	C:386:MET:CE	0.492
7	C:151:LYS:NZ	C:180:ASP:HA	0.492
7	C:57:VAL:CG1	C:235:ILE:HG12	0.492
7	C:308:ILE:CG1	C:309:GLU:H	0.492
7	D:28:ALA:O	D:29:THR:HG23	0.492
7	D:128:THR:HG22	D:133:VAL:HG23	0.492
7	D:253:PHE:HA	D:260:GLU:HB2	0.492
7	F:65:VAL:HG11	F:69:PHE:CD1	0.492
7	F:89:PRO:CG	F:127:VAL:HG21	0.492
7	C:154:TRP:HZ2	F:105:THR:CA	0.492
7	C:23:ASN:HD21	D:48:ARG:NH1	0.492
7	A:50:PRO:HG2	A:58:VAL:HG11	0.491
7	A:165:ILE:HG22	A:166:LEU:N	0.491
7	A:377:ILE:HG12	A:378:LEU:N	0.491
7	C:46:LEU:HD23	C:55:THR:HG1	0.491
7	C:83:ASN:C	C:83:ASN:HD22	0.491
7	C:93:GLN:HB3	C:241:VAL:H	0.491
7	C:127:ARG:NH2	C:150:ALA:HB2	0.491
7	C:171:LEU:HB3	F:106:ARG:HH11	0.491
7	C:215:ASP:C	C:217:VAL:H	0.491

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:178:PHE:HD2	C:235:ILE:CG2	0.491
7	C:142:PHE:N	C:240:ASP:HA	0.491
7	C:245:ILE:HG12	C:290:PHE:CE2	0.491
7	C:247:VAL:C	C:292:ASN:O	0.491
7	C:277:TRP:CD1	C:278:ASN:N	0.491
7	D:48:ARG:HG2	D:52:ARG:O	0.491
7	D:49:ARG:HG3	D:82:TRP:CD1	0.491
7	D:117:LEU:CG	D:145:TYR:CD1	0.491
7	D:211:TRP:CD1	D:213:VAL:CG2	0.491
7	E:59:ASN:CB	E:60:PRO:CD	0.491
7	F:69:PHE:CE2	F:84:MET:HG3	0.491
7	A:411:LYS:HA	C:377:ASN:ND2	0.490
7	C:4:LEU:HD12	D:50:THR:OG1	0.490
7	C:43:LEU:HB2	C:221:MET:CG	0.490
7	C:44:LEU:HD12	C:94:ASP:N	0.490
7	C:88:LYS:HB2	C:206:GLY:HA3	0.490
7	C:143:PRO:CB	C:144:PRO:HD2	0.490
7	C:51:SER:O	C:226:ALA:HB3	0.490
7	C:230:GLU:C	F:109:PHE:CZ	0.490
7	C:229:ASP:O	C:230:GLU:HB2	0.490
7	C:305:LYS:HG3	F:110:ASP:N	0.490
7	C:389:ARG:HE	C:392:GLU:CD	0.490
7	D:63:TRP:HE1	D:67:SER:CA	0.490

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:124:TYR:CE2	D:133:VAL:CG2	0.490
7	D:252:LEU:N	D:252:LEU:HD13	0.490
7	D:292:PHE:CD1	D:311:HIS:HB2	0.490
7	C:312:PHE:HD2	F:64:SER:HA	0.490
7	F:79:THR:C	F:80:LEU:HD23	0.490
7	F:79:THR:O	F:80:LEU:HD23	0.490
7	C:175:ALA:N	F:107:ASP:CB	0.490
7	A:161:PHE:HE1	A:165:ILE:CG1	0.490
7	D:171:ILE:CD1	D:171:ILE:H	0.490
7	D:317:CYS:SG	D:318:LEU:N	0.490
7	F:23:CYS:SG	F:97:CYS:SG	0.490
7	A:131:LEU:HD13	A:373:LEU:HD11	0.489
7	C:74:GLU:H	C:81:ARG:HB3	0.489
7	C:154:TRP:CZ2	F:105:THR:CB	0.489
7	C:192:PRO:HB3	D:36:ASN:N	0.489
7	C:220:HIS:CD2	C:222:PHE:HZ	0.489
7	C:248:VAL:HG22	C:279:ASN:CA	0.489
7	C:290:PHE:CB	C:292:ASN:CB	0.489
7	C:142:PHE:HZ	C:147:TYR:H	0.489
7	A:156:ILE:HD11	A:224:GLU:N	0.488
7	C:26:ILE:HG21	D:92:ALA:HB2	0.488
7	C:59:GLN:HB2	C:82:SER:C	0.488
7	C:70:GLY:O	C:71:GLU:HB2	0.488

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:138:PRO:HG3	C:242:THR:C	0.488
7	C:142:PHE:CB	C:240:ASP:N	0.488
7	C:176:GLN:HG3	F:105:THR:CG2	0.488
7	C:184:VAL:HA	C:187:GLN:N	0.488
7	C:279:ASN:HA	C:292:ASN:O	0.488
7	D:106:ALA:CB	D:151:PHE:CE1	0.488
7	D:292:PHE:CD2	D:293:ASN:CA	0.488
7	C:185:ILE:CD1	D:332:TRP:CZ3	0.488
7	C:57:VAL:O	C:231:ARG:NH1	0.488
7	A:59:ASN:HB2	A:76:HIS:CB	0.487
7	A:64:TRP:HH2	A:70:SER:HB2	0.487
7	A:261:TRP:HE3	A:285:ILE:HG23	0.487
7	A:400:GLU:C	C:380:ARG:CB	0.487
7	C:45:LEU:HB3	C:82:SER:C	0.487
7	C:92:VAL:HG13	C:237:CYS:O	0.487
7	C:108:ALA:CB	C:354:ASP:CA	0.487
7	C:191:VAL:HG23	C:226:ALA:HA	0.487
7	C:93:GLN:O	C:241:VAL:CB	0.487
7	C:294:GLN:CB	C:341:ILE:HG23	0.487
7	C:296:LEU:C	C:296:LEU:HD13	0.487
7	D:5:ASP:HA	D:8:ARG:HG2	0.487
7	D:112:VAL:HG23	D:124:TYR:CD1	0.487
7	E:3:SER:N	E:15:LEU:HD11	0.487

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:258:ARG:NE	C:283:ARG:HH22	0.487
7	C:289:LEU:CD2	C:289:LEU:H	0.487
7	C:135:MET:SD	C:389:ARG:NE	0.487
7	A:216:ALA:CB	A:220:TRP:CZ3	0.486
7	A:403:HIS:CD2	A:404:ILE:N	0.486
7	C:58:LYS:CD	C:224:VAL:CG2	0.486
7	C:82:SER:CB	C:223:ASP:CG	0.486
7	C:175:ALA:C	F:107:ASP:HA	0.486
7	C:53:LYS:HB2	C:227:GLN:HG3	0.486
7	C:245:ILE:HD11	C:375:VAL:HG22	0.486
7	C:280:LYS:HE2	C:293:LYS:HE2	0.486
7	D:36:ASN:C	D:36:ASN:CG	0.486
7	C:190:TYR:HE2	D:143:THR:HB	0.486
7	D:196:THR:CG2	D:197:ARG:N	0.486
7	D:292:PHE:CD2	D:293:ASN:N	0.486
7	F:87:LEU:HD22	F:88:LYS:N	0.486
7	C:95:ILE:N	C:231:ARG:NH1	0.486
7	C:199:ARG:HH22	D:96:ARG:NH2	0.486
7	A:129:TYR:CD1	A:130:ALA:N	0.485
7	A:231:LEU:O	A:231:LEU:HD13	0.485
7	A:325:ARG:C	A:327:ALA:H	0.485
7	A:394:TRP:CE2	C:143:PRO:HD2	0.485
7	A:275:THR:O	B:8:SER:HB3	0.485

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:26:ILE:CG2	D:92:ALA:HB3	0.485
7	C:44:LEU:HA	C:90:THR:HG1	0.485
7	C:202:VAL:CG1	C:203:LEU:H	0.485
7	C:231:ARG:CD	C:235:ILE:CA	0.485
7	C:59:GLN:OE1	C:245:ILE:HG12	0.485
7	C:246:PHE:O	C:247:VAL:HG23	0.485
7	C:296:LEU:CG	C:299:GLU:HG3	0.485
7	A:391:ARG:NE	C:390:GLN:HG3	0.485
7	C:393:LEU:HD13	C:394:LEU:N	0.485
7	C:212:PHE:N	D:40:VAL:C	0.485
7	D:223:THR:HB	F:2:GLN:HB3	0.485
7	D:231:ALA:CB	D:275:SER:HA	0.485
7	D:253:PHE:CG	D:254:ASP:N	0.485
7	E:2:ALA:CA	E:15:LEU:HD22	0.485
7	D:223:THR:OG1	F:2:GLN:HB3	0.485
7	F:32:ASN:HA	F:54:GLN:HG2	0.485
7	C:8:LYS:HB2	C:25:LYS:HB2	0.484
7	C:50:GLU:C	C:87:GLU:HB2	0.484
7	C:53:LYS:HB2	C:189:ASP:C	0.484
7	C:57:VAL:O	C:58:LYS:HE3	0.484
7	C:137:VAL:CB	C:386:MET:HB2	0.484
7	C:211:LYS:CA	D:41:GLY:N	0.484
7	C:249:ALA:CB	C:253:TYR:CD1	0.484

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:305:LYS:CD	F:110:ASP:HA	0.484
7	D:54:HIS:CD2	D:74:SER:CB	0.484
7	D:59:TYR:CD2	D:101:MET:CG	0.484
7	C:54:ASN:HD21	C:234:TRP:HD1	0.484
7	F:30:PHE:HZ	F:73:ARG:CG	0.484
7	C:211:LYS:H	D:40:VAL:H	0.484
7	A:310:SER:HA	A:313:LYS:HG2	0.483
7	A:382:VAL:HB	A:388:LEU:HD23	0.483
7	C:8:LYS:HD3	C:8:LYS:N	0.483
7	C:114:VAL:CG2	C:115:PRO:HD3	0.483
7	C:166:SER:HB3	F:106:ARG:CG	0.483
7	C:208:PHE:CB	C:223:ASP:N	0.483
7	C:249:ALA:C	C:251:SER:N	0.483
7	C:279:ASN:ND2	C:281:TRP:CE3	0.483
7	C:248:VAL:N	C:292:ASN:CA	0.483
7	C:387:HIS:HD1	C:388:LEU:HD23	0.483
7	D:93:ILE:CG2	D:133:VAL:HG11	0.483
7	D:225:HIS:CD2	D:251:ARG:CD	0.483
7	D:226:GLU:CG	F:28:PHE:HD1	0.483
7	D:274:THR:HG23	D:316:SER:O	0.483
7	D:57:LYS:N	D:332:TRP:CE2	0.483
7	F:30:PHE:CZ	F:73:ARG:CZ	0.483
7	F:38:VAL:HG22	F:39:ARG:N	0.483

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	F:30:PHE:HD1	F:78:ASN:ND2	0.483
7	A:64:TRP:CG	A:65:TYR:H	0.482
7	A:317:MET:HB2	A:319:LYS:HA	0.482
7	A:436:GLN:HB3	C:69:ASN:HD21	0.482
7	C:49:GLY:C	C:87:GLU:HG3	0.482
7	C:44:LEU:HD22	C:58:LYS:HD2	0.482
7	C:99:LEU:CD2	C:179:LEU:N	0.482
7	C:191:VAL:CG1	C:228:ARG:HA	0.482
7	C:243:ALA:CB	C:288:ILE:HD13	0.482
7	C:287:VAL:C	C:293:LYS:HD2	0.482
7	E:7:ALA:CB	E:10:ALA:HB3	0.482
7	A:201:LEU:HD21	A:204:ARG:HD3	0.481
7	A:218:TYR:OH	A:290:ILE:HA	0.481
7	C:44:LEU:HD22	C:45:LEU:N	0.481
7	C:73:GLY:CA	C:86:GLY:N	0.481
7	C:131:ILE:CG1	C:356:ARG:NH1	0.481
7	C:127:ARG:NH1	C:153:LEU:HD23	0.481
7	C:232:ARG:CB	C:235:ILE:HG21	0.481
7	C:92:VAL:O	C:238:PHE:HB2	0.481
7	C:248:VAL:HG11	C:279:ASN:HB2	0.481
7	D:5:ASP:O	D:8:ARG:HG2	0.481
7	D:32:GLN:CB	E:11:GLN:HG3	0.481
7	D:37:ILE:C	D:37:ILE:HG12	0.481

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:57:LYS:HG3	D:332:TRP:HB2	0.481
7	D:333:ASP:C	D:335:PHE:H	0.481
7	D:304:ARG:CB	E:55:PRO:HB3	0.481
7	F:34:LYS:HG3	F:52:ILE:O	0.481
7	C:108:ALA:HB3	C:109:ALA:H	0.481
7	A:41:ARG:O	A:42:THR:HG23	0.480
7	A:131:LEU:CG	A:373:LEU:HD11	0.480
7	A:344:PHE:HA	A:348:MET:SD	0.480
7	A:283:TRP:HZ2	B:1:HIS:HA	0.480
7	C:43:LEU:CD1	C:219:PHE:HD2	0.480
7	C:44:LEU:HB2	C:93:GLN:C	0.480
7	C:53:LYS:C	C:224:VAL:HG11	0.480
7	C:55:THR:CA	C:58:LYS:HE2	0.480
7	C:74:GLU:C	C:84:SER:H	0.480
7	C:44:LEU:CB	C:94:ASP:CB	0.480
7	C:127:ARG:HH21	C:150:ALA:HA	0.480
7	C:154:TRP:CZ2	F:105:THR:CA	0.480
7	C:202:VAL:CA	C:207:ILE:HD11	0.480
7	C:281:TRP:CA	C:283:ARG:H	0.480
7	C:286:SER:C	C:293:LYS:HG2	0.480
7	C:305:LYS:CA	F:109:PHE:HA	0.480
7	D:222:PHE:HE2	D:251:ARG:CD	0.480
7	F:4:GLN:HG2	F:5:LEU:N	0.480

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:398:ARG:NH2	C:386:MET:SD	0.480
7	A:11:GLU:HB3	A:15:LYS:HZ1	0.479
7	A:391:ARG:HB2	C:130:TYR:HE1	0.479
7	C:171:LEU:C	C:348:ILE:HG23	0.479
7	C:186:LYS:HD2	D:316:SER:CB	0.479
7	C:202:VAL:CG1	C:203:LEU:N	0.479
7	C:178:PHE:CA	C:232:ARG:HG3	0.479
7	C:272:LEU:CD1	D:35:ASN:ND2	0.479
7	C:279:ASN:HD21	C:341:ILE:CG2	0.479
7	D:71:VAL:CG1	D:103:CYS:SG	0.479
7	D:61:MET:SD	D:72:SER:CB	0.479
7	D:145:TYR:CE2	D:147:SER:CB	0.479
7	D:171:ILE:N	D:171:ILE:HD13	0.479
7	D:183:HIS:CE1	F:1:MET:HE1	0.479
7	C:147:TYR:N	D:313:ASN:ND2	0.479
7	C:199:ARG:NH2	D:96:ARG:NH2	0.479
7	C:238:PHE:O	C:240:ASP:N	0.479
7	C:287:VAL:H	C:293:LYS:CE	0.479
7	C:30:LEU:HD22	D:47:THR:CA	0.478
7	C:52:GLY:C	D:117:LEU:HD21	0.478
7	C:76:ASP:HB3	C:81:ARG:NH1	0.478
7	C:187:GLN:CA	D:101:MET:SD	0.478
7	C:190:TYR:CA	C:228:ARG:HB2	0.478

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:190:TYR:CE2	D:143:THR:CB	0.478
7	C:279:ASN:CG	C:294:GLN:H	0.478
7	C:299:GLU:CD	C:307:LYS:HE3	0.478
7	D:59:TYR:HE2	D:102:THR:HA	0.478
7	D:155:ASN:O	D:156:GLN:HB2	0.478
7	D:307:VAL:HG23	D:309:ALA:H	0.478
7	D:59:TYR:CG	D:60:ALA:N	0.478
7	D:103:CYS:SG	D:114:CYS:SG	0.478
7	A:33:PRO:HD3	A:51:ASP:OD1	0.477
7	A:59:ASN:HB3	A:77:VAL:O	0.477
7	A:124:ILE:O	A:125:TYR:HB3	0.477
7	A:231:LEU:CD1	C:387:HIS:CD2	0.477
7	A:383:ASN:HB2	A:387:GLN:HB3	0.477
7	C:43:LEU:HG	C:242:THR:OG1	0.477
7	C:45:LEU:HD22	C:59:GLN:CG	0.477
7	C:75:GLU:N	C:84:SER:C	0.477
7	C:111:SER:HA	C:116:PRO:HA	0.477
7	C:127:ARG:NH1	C:153:LEU:CD2	0.477
7	C:186:LYS:HB3	D:316:SER:CA	0.477
7	D:230:ASN:HD21	D:244:GLY:HA3	0.477
7	D:307:VAL:HG23	D:309:ALA:N	0.477
7	E:32:LYS:O	E:35:ALA:HB3	0.477
7	D:222:PHE:HZ	D:260:GLU:CB	0.477

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:13:VAL:HB	A:191:TRP:CZ2	0.476
7	A:316:LEU:HG	A:317:MET:N	0.476
7	A:390:PHE:O	A:394:TRP:CE3	0.476
7	A:237:LEU:N	C:39:ALA:CB	0.476
7	C:57:VAL:CB	C:235:ILE:CG1	0.476
7	C:103:ILE:HG12	C:150:ALA:HB2	0.476
7	C:171:LEU:HD11	C:301:VAL:HG22	0.476
7	C:182:ILE:HG13	D:314:ARG:HH22	0.476
7	C:186:LYS:HA	D:57:LYS:HE2	0.476
7	C:142:PHE:O	C:240:ASP:HB2	0.476
7	C:264:ASN:C	C:266:LEU:H	0.476
7	C:321:PRO:HD3	C:339:TYR:CD2	0.476
7	D:51:LEU:HD22	D:336:LEU:CD1	0.476
7	D:183:HIS:HD2	D:185:GLY:N	0.476
7	C:43:LEU:CD2	C:379:CYS:SG	0.475
7	C:57:VAL:CG2	C:235:ILE:CG1	0.475
7	C:172:ILE:HG21	C:280:LYS:HD3	0.475
7	C:283:ARG:CD	C:310:ASP:HB3	0.475
7	C:294:GLN:HB3	C:341:ILE:HG23	0.475
7	C:304:GLY:CA	F:108:CYS:N	0.475
7	A:408:SER:H	C:370:GLU:CD	0.475
7	D:13:GLN:HG2	D:14:LEU:CD2	0.475
7	D:171:ILE:O	D:171:ILE:HG12	0.475

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:237:ASN:HD21	D:239:ASN:CB	0.475
7	E:13:ARG:CA	E:16:VAL:HG12	0.475
7	C:175:ALA:H	F:107:ASP:HA	0.475
7	C:6:ASN:HD22	C:7:SER:H	0.475
7	A:171:VAL:HA	A:174:LYS:HD3	0.474
7	A:182:TYR:HB2	B:18:ALA:HB3	0.474
7	A:315:ASN:O	A:316:LEU:HB2	0.474
7	A:411:LYS:HB3	C:373:ARG:NH2	0.474
7	A:415:CYS:H	A:416:PRO:HD2	0.474
7	C:8:LYS:CE	C:28:LYS:HD2	0.474
7	C:131:ILE:CB	C:149:HIS:NE2	0.474
7	C:195:GLN:O	C:198:LEU:HB3	0.474
7	C:257:ILE:HG21	C:258:ARG:NH2	0.474
7	C:293:LYS:HD3	C:293:LYS:O	0.474
7	C:170:GLN:NE2	C:347:ARG:CG	0.474
7	D:20:ASP:CA	D:23:LYS:HB2	0.474
7	D:282:GLY:O	D:283:ARG:HB3	0.474
7	E:50:LEU:CD1	E:51:LEU:H	0.474
7	F:30:PHE:CD2	F:75:ASN:HA	0.474
7	F:73:ARG:HA	F:80:LEU:HD22	0.474
7	F:96:TYR:HE2	F:119:ARG:HA	0.474
7	A:7:VAL:CG1	A:8:SER:N	0.473
7	A:83:ALA:O	A:84:GLU:HB2	0.473

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:120:PHE:CZ	A:362:PHE:CE1	0.473
7	C:43:LEU:HD11	C:219:PHE:HD2	0.473
7	C:61:ARG:HG3	C:81:ARG:H	0.473
7	C:188:ALA:HB3	C:233:LYS:HG2	0.473
7	C:233:LYS:HE3	D:186:ASP:OD1	0.473
7	C:97:ASN:HD22	C:243:ALA:HA	0.473
7	C:59:GLN:NE2	C:247:VAL:CG2	0.473
7	C:249:ALA:CA	C:253:TYR:CD1	0.473
7	C:290:PHE:CZ	C:375:VAL:HG23	0.473
7	C:295:ASP:CG	C:300:LYS:HD2	0.473
7	C:296:LEU:HD12	C:298:ALA:CB	0.473
7	C:302:LEU:CG	F:51:ASP:HB3	0.473
7	D:225:HIS:HD1	D:229:ILE:CG1	0.473
7	D:251:ARG:HB2	D:260:GLU:CG	0.473
7	C:147:TYR:O	D:314:ARG:HB2	0.473
7	D:254:ASP:OD1	E:33:ALA:HB3	0.473
7	C:167:ASN:CA	F:58:SER:HB3	0.473
7	A:394:TRP:HD1	C:140:PHE:CE1	0.473
7	A:200:SER:C	A:202:SER:H	0.472
7	A:261:TRP:HB3	A:286:ILE:HD11	0.472
7	A:401:HIS:CD2	C:380:ARG:HD3	0.472
7	C:45:LEU:HD12	C:83:ASN:HA	0.472
7	C:79:ALA:O	C:80:ALA:HB2	0.472

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:97:ASN:CB	C:238:PHE:CE2	0.472
7	C:131:ILE:HB	C:356:ARG:CZ	0.472
7	C:208:PHE:HB3	C:222:PHE:CB	0.472
7	C:43:LEU:CB	C:221:MET:HG2	0.472
7	C:232:ARG:HG2	C:233:LYS:N	0.472
7	C:232:ARG:O	C:233:LYS:HG3	0.472
7	C:239:ASN:C	C:239:ASN:HD22	0.472
7	D:152:LEU:HD11	D:158:VAL:CG2	0.472
7	D:168:LEU:HG	D:178:THR:CG2	0.472
7	D:180:PHE:HA	D:211:TRP:HZ3	0.472
7	D:232:ILE:HD12	D:243:THR:HB	0.472
7	D:319:GLY:O	D:327:VAL:HG13	0.472
7	C:74:GLU:N	C:85:ASP:N	0.472
7	C:88:LYS:NZ	D:117:LEU:N	0.472
7	C:296:LEU:CD1	C:299:GLU:H	0.472
7	A:18:GLU:C	A:20:ARG:H	0.471
7	A:203:CYS:CB	A:273:CYS:SG	0.471
7	A:430:MET:HE3	A:433:ALA:HB2	0.471
7	C:9:THR:O	C:21:GLU:HB3	0.471
7	C:50:GLU:CG	D:38:ASP:O	0.471
7	C:51:SER:CB	C:91:LYS:NZ	0.471
7	C:55:THR:HB	C:224:VAL:C	0.471
7	C:84:SER:CA	C:84:SER:O	0.471

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:246:PHE:CD2	C:289:LEU:CA	0.471
7	C:279:ASN:N	C:285:THR:CG2	0.471
7	D:70:LEU:HD23	D:71:VAL:N	0.471
7	D:128:THR:HG21	D:133:VAL:CB	0.471
7	D:152:LEU:HD22	D:192:LEU:CD1	0.471
7	D:229:ILE:HG23	D:243:THR:OG1	0.471
7	D:321:THR:CG2	D:324:GLY:H	0.471
7	C:199:ARG:HH22	D:96:ARG:HH22	0.471
7	A:72:VAL:N	A:73:PRO:CD	0.470
7	A:210:MET:O	A:214:VAL:HG23	0.470
7	A:398:ARG:CB	A:398:ARG:NH1	0.470
7	C:44:LEU:CD2	C:91:LYS:N	0.470
7	C:45:LEU:CD2	C:59:GLN:HG3	0.470
7	C:57:VAL:HG23	C:231:ARG:CB	0.470
7	C:60:MET:CA	C:278:ASN:HD22	0.470
7	C:78:GLN:O	C:79:ALA:HB2	0.470
7	C:98:ASN:CG	C:178:PHE:CZ	0.470
7	C:104:GLU:CG	C:356:ARG:HD2	0.470
7	C:170:GLN:CG	C:348:ILE:N	0.470
7	C:209:GLU:CA	C:222:PHE:CG	0.470
7	C:139:ASP:CA	C:242:THR:CB	0.470
7	C:282:LEU:HB2	C:341:ILE:CG1	0.470
7	C:290:PHE:CA	C:292:ASN:HB2	0.470

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:297:LEU:O	C:297:LEU:HD22	0.470
7	C:321:PRO:O	C:322:GLU:HB3	0.470
7	C:3:CYS:SG	D:52:ARG:CD	0.470
7	D:54:HIS:CD2	D:55:LEU:N	0.470
7	D:95:LEU:C	D:95:LEU:HD13	0.470
7	D:190:LEU:CD2	D:191:SER:N	0.470
7	C:90:THR:OG1	C:222:PHE:N	0.470
7	D:19:ARG:HE	D:27:ASP:CB	0.470
7	A:18:GLU:O	A:19:TYR:HB2	0.469
7	A:71:SER:HB3	A:108:ARG:HB2	0.469
7	A:120:PHE:C	A:122:TYR:H	0.469
7	A:323:LYS:O	A:324:CYS:HB3	0.469
7	A:394:TRP:CE3	C:143:PRO:CB	0.469
7	C:1:MET:SD	C:30:LEU:HB2	0.469
7	C:36:VAL:O	C:37:TYR:HB3	0.469
7	C:57:VAL:O	C:58:LYS:HB2	0.469
7	C:62:ILE:CD1	C:254:ASN:N	0.469
7	C:73:GLY:CA	C:85:ASP:C	0.469
7	C:76:ASP:HB3	C:81:ARG:HD2	0.469
7	C:93:GLN:CB	C:241:VAL:N	0.469
7	C:102:ALA:HB1	C:163:TYR:OH	0.469
7	C:137:VAL:HG13	C:386:MET:H	0.469
7	C:157:GLU:HA	C:160:ARG:HE	0.469

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:246:PHE:CD1	C:293:LYS:N	0.469
7	C:303:ALA:HA	F:48:TRP:CE3	0.469
7	D:49:ARG:CD	D:82:TRP:HD1	0.469
7	D:190:LEU:HD21	D:199:PHE:CB	0.469
7	D:200:VAL:HG23	D:234:PHE:CE1	0.469
7	F:48:TRP:HE1	F:51:ASP:HB2	0.469
7	F:79:THR:O	F:79:THR:HG23	0.469
7	A:274:TRP:NE1	A:282:TYR:HE2	0.469
7	A:201:LEU:HD22	A:204:ARG:CB	0.468
7	A:398:ARG:CZ	C:386:MET:SD	0.468
7	A:411:LYS:CB	A:412:PRO:HD3	0.468
7	C:44:LEU:CD1	C:94:ASP:N	0.468
7	C:80:ALA:HB3	C:81:ARG:CG	0.468
7	C:72:GLY:CA	C:81:ARG:HD3	0.468
7	C:144:PRO:HB3	D:333:ASP:HA	0.468
7	C:177:TYR:CG	C:232:ARG:NE	0.468
7	C:181:LYS:CE	C:233:LYS:CG	0.468
7	C:205:SER:CA	C:207:ILE:HB	0.468
7	C:213:GLN:OE1	C:216:LYS:HA	0.468
7	C:280:LYS:C	C:295:ASP:CA	0.468
7	C:296:LEU:HA	C:296:LEU:HD22	0.468
7	C:301:VAL:C	C:303:ALA:H	0.468
7	C:137:VAL:CG1	C:386:MET:CB	0.468

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:147:TYR:HH	D:57:LYS:HD2	0.468
7	D:242:ALA:CB	D:278:PHE:CZ	0.468
7	F:36:ASN:ND2	F:98:ALA:HB3	0.468
7	A:149:LEU:CD2	A:149:LEU:N	0.467
7	C:45:LEU:CA	C:59:GLN:H	0.467
7	C:52:GLY:CA	D:117:LEU:CD2	0.467
7	C:142:PHE:CE2	D:332:TRP:CE3	0.467
7	C:147:TYR:CE2	C:185:ILE:CG2	0.467
7	C:153:LEU:HD12	C:156:ASP:HB2	0.467
7	C:190:TYR:CA	C:228:ARG:N	0.467
7	C:248:VAL:CG2	C:292:ASN:CA	0.467
7	C:267:GLN:CD	C:267:GLN:H	0.467
7	C:280:LYS:HD2	C:300:LYS:HG2	0.467
7	C:135:MET:CE	C:355:GLY:HA2	0.467
7	D:69:LEU:C	D:69:LEU:HD22	0.467
7	D:106:ALA:HB3	D:111:TYR:HB3	0.467
7	D:297:TRP:NE1	D:302:ALA:CA	0.467
7	F:84:MET:HG2	F:85:ASN:N	0.467
7	C:96:LYS:HZ1	D:314:ARG:HH22	0.467
7	C:87:GLU:CA	C:226:ALA:N	0.467
7	F:100:CYS:SG	F:108:CYS:CA	0.467
7	A:184:THR:CG2	A:185:ALA:N	0.466
7	A:245:LEU:C	A:245:LEU:HD13	0.466

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:218:TYR:CE1	A:290:ILE:HA	0.466
7	A:390:PHE:CE1	C:145:GLU:CB	0.466
7	A:149:LEU:O	C:4:LEU:HD21	0.466
7	C:53:LYS:HG3	C:227:GLN:CG	0.466
7	C:54:ASN:HB3	C:231:ARG:HH21	0.466
7	C:99:LEU:HD23	C:178:PHE:C	0.466
7	C:151:LYS:CB	D:314:ARG:NH1	0.466
7	C:127:ARG:NE	C:153:LEU:HB3	0.466
7	C:186:LYS:HB3	D:316:SER:HB2	0.466
7	C:53:LYS:CA	C:227:GLN:HB2	0.466
7	C:234:TRP:CD2	D:117:LEU:HD12	0.466
7	C:279:ASN:HB3	C:281:TRP:CA	0.466
7	C:170:GLN:HE22	C:347:ARG:CG	0.466
7	D:128:THR:HG21	D:133:VAL:HG23	0.466
7	D:231:ALA:HB3	D:275:SER:HA	0.466
7	F:33:TYR:CD1	F:99:ARG:CG	0.466
7	F:35:MET:HG3	F:99:ARG:CB	0.466
7	D:335:PHE:HD1	D:337:LYS:N	0.466
7	C:175:ALA:O	C:177:TYR:N	0.466
7	A:388:LEU:O	A:392:LYS:HG2	0.465
7	A:400:GLU:HG3	A:401:HIS:N	0.465
7	C:45:LEU:HD21	C:246:PHE:H	0.465
7	C:88:LYS:HG3	C:91:LYS:NZ	0.465

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:91:LYS:HE3	C:224:VAL:CG1	0.465
7	C:131:ILE:CG2	C:149:HIS:NE2	0.465
7	C:90:THR:N	C:222:PHE:CB	0.465
7	D:102:THR:HB	D:147:SER:O	0.465
7	D:225:HIS:NE2	D:251:ARG:CD	0.465
7	C:49:GLY:N	C:193:SER:CB	0.465
7	C:54:ASN:HD22	C:231:ARG:NE	0.465
7	D:90:VAL:CG1	D:91:HIS:N	0.465
7	E:4:ASN:HD21	E:14:LYS:CD	0.465
7	A:219:TYR:CD2	A:254:PRO:HG3	0.464
7	A:233:ALA:HA	A:400:GLU:OE1	0.464
7	A:377:ILE:CG1	A:381:PHE:CD1	0.464
7	C:26:ILE:CD1	D:89:LYS:CE	0.464
7	C:88:LYS:CB	C:206:GLY:O	0.464
7	C:89:ALA:HB3	C:209:GLU:CB	0.464
7	C:102:ALA:HB1	C:175:ALA:HB1	0.464
7	C:137:VAL:CG2	C:386:MET:N	0.464
7	C:138:PRO:CB	C:379:CYS:HA	0.464
7	C:166:SER:HB3	F:106:ARG:CD	0.464
7	C:213:GLN:CG	C:218:ASN:ND2	0.464
7	D:51:LEU:HB2	D:336:LEU:CA	0.464
7	D:304:ARG:NE	D:307:VAL:HG13	0.464
7	D:318:LEU:HD21	D:327:VAL:CG1	0.464

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	E:3:SER:N	E:15:LEU:CD1	0.464
7	E:16:VAL:CG1	E:17:GLU:N	0.464
7	E:59:ASN:CB	E:60:PRO:HD2	0.464
7	A:285:ILE:CG2	A:286:ILE:N	0.464
7	C:218:ASN:HA	C:218:ASN:HD22	0.464
7	C:231:ARG:CG	C:235:ILE:N	0.464
7	C:280:LYS:O	C:294:GLN:N	0.464
7	A:64:TRP:O	A:66:LEU:HD13	0.463
7	A:144:LEU:O	A:144:LEU:HD22	0.463
7	A:237:LEU:HD22	C:36:VAL:CG2	0.463
7	A:267:LEU:HD12	A:268:TYR:HA	0.463
7	A:290:ILE:N	A:290:ILE:HD12	0.463
7	A:330:THR:CG2	A:331:LEU:N	0.463
7	A:347:VAL:O	A:348:MET:HB3	0.463
7	C:51:SER:CB	C:88:LYS:CA	0.463
7	C:96:LYS:C	C:238:PHE:CD1	0.463
7	C:138:PRO:HA	C:382:ILE:C	0.463
7	C:142:PHE:HE1	C:146:PHE:C	0.463
7	C:154:TRP:HH2	C:163:TYR:CB	0.463
7	C:177:TYR:CD2	C:232:ARG:CB	0.463
7	C:321:PRO:HD3	C:339:TYR:CG	0.463
7	D:151:PHE:CZ	D:153:ASP:C	0.463
7	E:4:ASN:CB	E:11:GLN:CG	0.463

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:176:GLN:CG	F:102:ALA:HB3	0.463
7	A:339:THR:CG2	A:340:HIS:N	0.463
7	D:36:ASN:CB	D:36:ASN:N	0.463
7	A:20:ARG:CD	A:43:PHE:CE2	0.462
7	A:107:LYS:O	A:108:ARG:HB2	0.462
7	A:346:PHE:C	A:347:VAL:HG23	0.462
7	A:401:HIS:CB	C:380:ARG:CB	0.462
7	A:125:TYR:OH	B:3:GLU:HG3	0.462
7	C:44:LEU:CG	C:94:ASP:HB3	0.462
7	C:55:THR:HG22	C:227:GLN:CA	0.462
7	C:96:LYS:HD3	C:99:LEU:HG	0.462
7	C:97:ASN:CG	C:238:PHE:CZ	0.462
7	C:131:ILE:CB	C:356:ARG:CZ	0.462
7	C:148:GLU:O	C:152:ALA:HB3	0.462
7	C:153:LEU:HD11	C:159:VAL:HG23	0.462
7	C:244:ILE:H	C:288:ILE:HG23	0.462
7	D:29:THR:CG2	F:4:GLN:CB	0.462
7	D:47:THR:C	D:47:THR:HA	0.462
7	D:57:LYS:HB2	D:332:TRP:CZ3	0.462
7	D:89:LYS:C	D:89:LYS:HD3	0.462
7	D:180:PHE:CE1	D:218:CYS:SG	0.462
7	D:276:VAL:HG11	D:285:LEU:HD21	0.462
7	C:186:LYS:CB	D:316:SER:CB	0.462

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	E:2:ALA:HA	E:15:LEU:HD22	0.462
7	F:4:GLN:CG	F:5:LEU:N	0.462
7	A:123:ILE:CG2	A:124:ILE:N	0.462
7	C:27:GLU:HA	C:30:LEU:HG	0.461
7	C:29:GLN:CD	D:46:ARG:HD2	0.461
7	C:59:GLN:HG2	C:247:VAL:N	0.461
7	C:60:MET:HE3	C:252:SER:CB	0.461
7	C:79:ALA:CA	C:368:ASP:HB2	0.461
7	C:94:ASP:CA	C:238:PHE:CD2	0.461
7	C:131:ILE:HG13	C:356:ARG:CG	0.461
7	C:180:ASP:HB3	D:246:ASP:OD2	0.461
7	C:245:ILE:O	C:245:ILE:HG13	0.461
7	C:270:LEU:HD11	C:274:ASP:OD2	0.461
7	C:302:LEU:HD22	F:51:ASP:CB	0.461
7	D:139:LEU:CD2	D:140:ALA:N	0.461
7	D:211:TRP:CA	D:218:CYS:SG	0.461
7	D:337:LYS:C	D:337:LYS:HD3	0.461
7	C:314:GLU:CG	C:340:PHE:HZ	0.461
7	C:234:TRP:NE1	C:237:CYS:HG	0.461
7	D:220:GLN:CG	D:221:THR:N	0.461
7	E:3:SER:H	E:15:LEU:HD11	0.461
7	A:142:ILE:HG13	A:143:LEU:CD1	0.460
7	A:249:ILE:CD1	A:253:VAL:CG2	0.460

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:334:ILE:HG13	A:335:PRO:N	0.460
7	A:402:LEU:C	C:377:ASN:HB3	0.460
7	A:403:HIS:HB2	C:377:ASN:ND2	0.460
7	C:54:ASN:O	C:58:LYS:CE	0.460
7	C:119:LEU:N	C:119:LEU:HD12	0.460
7	C:127:ARG:HG2	C:149:HIS:HA	0.460
7	C:138:PRO:HD2	C:382:ILE:CB	0.460
7	C:98:ASN:ND2	C:172:ILE:HD13	0.460
7	C:175:ALA:HA	C:178:PHE:CE1	0.460
7	C:267:GLN:O	C:271:LYS:HG2	0.460
7	C:289:LEU:CD1	C:361:PRO:CA	0.460
7	D:107:PRO:CD	D:151:PHE:CD2	0.460
7	D:233:CYS:HB3	D:278:PHE:CE1	0.460
7	D:241:PHE:C	D:241:PHE:CD1	0.460
7	F:30:PHE:CD1	F:78:ASN:CG	0.460
7	A:28:THR:HG23	A:29:GLU:H	0.459
7	A:239:GLU:HG2	A:240:GLN:N	0.459
7	C:44:LEU:CB	C:93:GLN:O	0.459
7	C:49:GLY:C	C:87:GLU:CG	0.459
7	C:89:ALA:HB2	C:209:GLU:CD	0.459
7	C:96:LYS:CE	C:236:GLN:NE2	0.459
7	C:108:ALA:CB	C:354:ASP:CB	0.459
7	C:109:ALA:HB2	C:351:ALA:C	0.459

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:134:VAL:HG21	C:146:PHE:CE2	0.459
7	C:135:MET:CG	C:355:GLY:CA	0.459
7	C:170:GLN:C	C:348:ILE:HA	0.459
7	C:181:LYS:HD2	C:184:VAL:CG1	0.459
7	C:185:ILE:CA	C:236:GLN:HG3	0.459
7	C:187:GLN:C	D:101:MET:SD	0.459
7	C:232:ARG:CB	C:235:ILE:CG2	0.459
7	C:258:ARG:C	C:277:TRP:HH2	0.459
7	C:281:TRP:CD1	C:282:LEU:C	0.459
7	C:354:ASP:HB3	C:356:ARG:N	0.459
7	C:138:PRO:N	C:382:ILE:C	0.459
7	C:137:VAL:HG12	C:383:ILE:HA	0.459
7	D:89:LYS:CE	D:92:ALA:CB	0.459
7	C:190:TYR:CB	D:144:GLY:CA	0.459
7	D:180:PHE:HD1	D:211:TRP:CE3	0.459
7	D:273:ILE:HG22	D:289:TYR:CB	0.459
7	D:271:CYS:SG	D:289:TYR:HB2	0.459
7	D:297:TRP:CZ2	D:302:ALA:CB	0.459
7	D:318:LEU:HD13	D:319:GLY:CA	0.459
7	E:51:LEU:CD1	E:51:LEU:N	0.459
7	C:164:GLU:OE2	F:55:SER:HB2	0.459
7	F:92:THR:O	F:93:ALA:HB2	0.459
7	C:234:TRP:H22	D:99:TRP:NE1	0.459

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:338:ILE:CG2	D:339:TRP:N	0.459
7	D:165:THR:O	D:165:THR:HG23	0.459
7	A:209:LEU:CD2	A:213:CYS:SG	0.459
7	A:136:LEU:CB	A:161:PHE:CE1	0.458
7	C:30:LEU:HD22	D:47:THR:HA	0.458
7	C:61:ARG:HB2	C:81:ARG:HA	0.458
7	C:95:ILE:CG1	C:236:GLN:H	0.458
7	C:151:LYS:HE3	C:154:TRP:HD1	0.458
7	C:279:ASN:OD1	C:294:GLN:HB2	0.458
7	D:47:THR:HG22	D:78:LYS:HB3	0.458
7	D:139:LEU:HG	D:169:TRP:CE3	0.458
7	B:5:THR:CG2	B:6:PHE:N	0.458
7	A:129:TYR:C	A:129:TYR:CD1	0.457
7	A:153:ARG:HG2	A:156:ILE:HG21	0.457
7	A:400:GLU:CG	A:401:HIS:N	0.457
7	A:411:LYS:HB3	C:373:ARG:HH21	0.457
7	A:397:TRP:CD1	C:38:ARG:HB2	0.457
7	C:55:THR:CG2	C:56:ILE:N	0.457
7	C:96:LYS:O	C:100:LYS:HB2	0.457
7	C:137:VAL:CG2	C:386:MET:CA	0.457
7	C:151:LYS:CD	D:290:ASP:HB3	0.457
7	C:119:LEU:CD2	C:153:LEU:HD11	0.457
7	C:179:LEU:HA	C:179:LEU:HD23	0.457

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:190:TYR:N	C:228:ARG:CB	0.457
7	C:231:ARG:C	C:235:ILE:HD12	0.457
7	C:241:VAL:HG13	C:242:THR:N	0.457
7	C:364:THR:O	C:365:CYS:HB2	0.457
7	C:393:LEU:C	C:393:LEU:HD13	0.457
7	D:51:LEU:HB2	D:336:LEU:N	0.457
7	D:95:LEU:HB3	D:97:SER:O	0.457
7	D:110:ASN:O	D:111:TYR:HB2	0.457
7	D:35:ASN:H	D:143:THR:HG21	0.457
7	D:157:ILE:CG1	D:158:VAL:N	0.457
7	D:261:LEU:C	D:261:LEU:HD22	0.457
7	E:29:LYS:CG	E:30:VAL:N	0.457
7	C:86:GLY:N	C:208:PHE:HD1	0.457
7	A:436:GLN:HB3	A:436:GLN:HE21	0.457
7	C:50:GLU:CB	C:87:GLU:N	0.457
7	A:403:HIS:CB	C:377:ASN:HD22	0.457
7	A:301:PHE:HA	A:304:VAL:HG23	0.456
7	A:394:TRP:CE3	C:143:PRO:CG	0.456
7	A:395:GLU:HA	A:398:ARG:NE	0.456
7	C:60:MET:HB3	C:278:ASN:CB	0.456
7	C:61:ARG:HG3	C:81:ARG:N	0.456
7	C:46:LEU:O	C:82:SER:CA	0.456
7	C:114:VAL:CG2	C:115:PRO:CD	0.456

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:190:TYR:CE1	C:226:ALA:O	0.456
7	C:280:LYS:HE2	C:293:LYS:NZ	0.456
7	C:305:LYS:HG2	F:109:PHE:CE2	0.456
7	C:190:TYR:HE2	D:35:ASN:C	0.456
7	C:234:TRP:CZ2	D:101:MET:HB2	0.456
7	D:120:ILE:HG21	D:138:GLU:CD	0.456
7	D:139:LEU:HD12	D:169:TRP:CG	0.456
7	D:232:ILE:HD11	D:241:PHE:CG	0.456
7	D:243:THR:HG23	D:251:ARG:HE	0.456
7	D:273:ILE:HG22	D:289:TYR:CA	0.456
7	D:289:TYR:CE1	D:295:ASN:CG	0.456
7	F:37:TRP:CZ3	F:71:ILE:HG21	0.456
7	F:82:LEU:C	F:82:LEU:HD13	0.456
7	A:28:THR:CG2	A:29:GLU:N	0.456
7	A:167:ARG:CG	A:217:ASN:HD21	0.456
7	C:170:GLN:HB3	C:170:GLN:HE21	0.456
7	A:49:TRP:HA	A:50:PRO:HD2	0.455
7	A:62:CYS:SG	A:66:LEU:HD11	0.455
7	A:118:LEU:O	A:122:TYR:HB2	0.455
7	A:140:SER:HB3	A:161:PHE:CD2	0.455
7	A:404:ILE:HG22	A:412:PRO:HB2	0.455
7	C:46:LEU:HB2	C:59:GLN:C	0.455
7	C:51:SER:HB3	C:91:LYS:HZ1	0.455

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:59:GLN:HG3	C:246:PHE:N	0.455
7	C:99:LEU:HD11	C:179:LEU:HD23	0.455
7	C:108:ALA:HB1	C:354:ASP:H	0.455
7	C:127:ARG:O	C:128:VAL:HB	0.455
7	C:130:TYR:CE2	C:134:VAL:HG13	0.455
7	C:131:ILE:HD12	C:356:ARG:NH1	0.455
7	C:181:LYS:HA	C:181:LYS:HD3	0.455
7	C:183:ASP:CA	C:186:LYS:CE	0.455
7	C:188:ALA:HB1	C:233:LYS:HD3	0.455
7	C:188:ALA:HB3	C:233:LYS:HB3	0.455
7	C:198:LEU:HD23	D:37:ILE:HG12	0.455
7	C:245:ILE:CG1	C:290:PHE:CE2	0.455
7	C:92:VAL:CG2	D:99:TRP:CD2	0.455
7	F:20:ARG:HG3	F:81:TYR:CE1	0.455
7	C:302:LEU:O	F:48:TRP:CZ2	0.455
7	A:334:ILE:N	A:335:PRO:CD	0.455
7	C:9:THR:H	C:21:GLU:HB3	0.454
7	C:40:THR:CG2	C:220:HIS:ND1	0.454
7	C:100:LYS:HA	C:103:ILE:HG22	0.454
7	C:142:PHE:CD1	C:239:ASN:CG	0.454
7	A:394:TRP:NE1	C:143:PRO:HD2	0.454
7	C:181:LYS:H22	C:184:VAL:CG1	0.454
7	C:281:TRP:HD1	C:283:ARG:HG3	0.454

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:346:LEU:C	C:346:LEU:HD13	0.454
7	D:180:PHE:CD1	D:211:TRP:CE3	0.454
7	C:142:PHE:HE1	C:147:TYR:N	0.454
7	C:131:ILE:N	C:149:HIS:NE2	0.454
7	C:46:LEU:CB	C:278:ASN:ND2	0.454
7	C:144:PRO:O	D:313:ASN:CB	0.454
7	A:136:LEU:CD1	A:164:PHE:CD1	0.453
7	A:394:TRP:CD1	C:140:PHE:CE1	0.453
7	C:45:LEU:CD2	C:246:PHE:N	0.453
7	C:88:LYS:HB2	C:206:GLY:C	0.453
7	C:163:TYR:HA	F:106:ARG:HB2	0.453
7	C:184:VAL:C	C:186:LYS:N	0.453
7	C:190:TYR:HB2	D:144:GLY:HA3	0.453
7	C:248:VAL:CG2	C:279:ASN:CG	0.453
7	C:289:LEU:CD1	C:345:PHE:CD2	0.453
7	D:175:GLN:HG2	D:176:GLN:N	0.453
7	D:198:LEU:CD2	D:234:PHE:CZ	0.453
7	F:2:GLN:CG	F:3:VAL:N	0.453
7	F:19:LEU:HD23	F:84:MET:SD	0.453
7	C:175:ALA:N	F:107:ASP:HA	0.453
7	D:59:TYR:HE2	D:102:THR:N	0.453
7	A:32:PRO:HB2	A:33:PRO:C	0.452
7	A:63:PRO:CB	A:65:TYR:CZ	0.452

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:317:MET:HB2	A:319:LYS:N	0.452
7	A:403:HIS:CG	C:374:ARG:CA	0.452
7	A:436:GLN:CG	C:77:PRO:HG3	0.452
7	B:14:LEU:HD22	B:15:GLU:HG3	0.452
7	A:237:LEU:N	C:39:ALA:HB1	0.452
7	C:60:MET:CB	C:278:ASN:ND2	0.452
7	C:136:ASN:C	C:382:ILE:CG1	0.452
7	C:191:VAL:HG12	C:272:LEU:HD22	0.452
7	C:44:LEU:CD2	C:222:PHE:C	0.452
7	C:232:ARG:C	C:232:ARG:CD	0.452
7	C:259:GLU:N	C:277:TRP:CH2	0.452
7	C:289:LEU:HB2	C:361:PRO:CA	0.452
7	C:135:MET:H	C:356:ARG:HA	0.452
7	E:37:LEU:C	E:37:LEU:HD23	0.452
7	F:96:TYR:CE2	F:119:ARG:C	0.452
7	F:112:THR:CG2	F:113:SER:N	0.452
7	A:383:ASN:HA	A:383:ASN:HD22	0.452
7	C:90:THR:H	C:222:PHE:CA	0.452
7	C:186:LYS:NZ	D:314:ARG:CB	0.452
7	A:118:LEU:CD1	B:6:PHE:CE2	0.451
7	A:138:ILE:CG2	A:139:ALA:N	0.451
7	A:285:ILE:O	A:289:PRO:HD2	0.451
7	A:394:TRP:CE3	A:394:TRP:N	0.451

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:45:LEU:CD2	C:246:PHE:H	0.451
7	C:74:GLU:HB3	C:83:ASN:CA	0.451
7	C:128:VAL:CA	C:131:ILE:HG22	0.451
7	C:179:LEU:CD2	C:182:ILE:CD1	0.451
7	C:190:TYR:C	C:228:ARG:N	0.451
7	C:95:ILE:N	C:238:PHE:HB2	0.451
7	C:290:PHE:CZ	C:375:VAL:CG2	0.451
7	C:312:PHE:CG	C:313:PRO:N	0.451
7	E:51:LEU:CD1	E:51:LEU:H	0.451
7	F:35:MET:HE2	F:80:LEU:HB2	0.451
7	C:103:ILE:CD1	C:127:ARG:HH22	0.451
7	A:170:SER:CB	A:213:CYS:SG	0.450
7	A:241:TRP:O	A:245:LEU:HB2	0.450
7	A:275:THR:CG2	B:11:SER:CB	0.450
7	A:335:PRO:HB2	A:375:VAL:CG2	0.450
7	C:7:SER:N	C:24:LYS:HB3	0.450
7	C:46:LEU:CB	C:59:GLN:C	0.450
7	C:107:VAL:HG11	C:131:ILE:HG21	0.450
7	C:176:GLN:CD	F:100:CYS:SG	0.450
7	C:186:LYS:HB2	C:186:LYS:HE3	0.450
7	C:178:PHE:HD2	C:235:ILE:HG21	0.450
7	C:280:LYS:HG3	C:286:SER:HA	0.450
7	C:308:ILE:HG23	F:45:GLY:C	0.450

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:136:ASN:ND2	C:358:TYR:CB	0.450
7	C:220:HIS:N	D:41:GLY:HA3	0.450
7	D:190:LEU:CD2	D:199:PHE:CD1	0.450
7	D:222:PHE:CG	D:253:PHE:CD1	0.450
7	F:13:VAL:HG13	F:14:GLN:O	0.450
7	F:96:TYR:CE2	F:119:ARG:CA	0.450
7	A:397:TRP:NE1	C:34:LYS:HZ1	0.450
7	D:194:PRO:CG	D:195:ASP:H	0.450
7	C:57:VAL:O	C:58:LYS:CB	0.450
7	A:179:LYS:HE2	A:182:TYR:OH	0.449
7	A:283:TRP:CD1	A:287:ARG:HB2	0.449
7	C:8:LYS:H	C:8:LYS:HD3	0.449
7	C:42:ARG:HA	C:220:HIS:O	0.449
7	C:59:GLN:CB	C:82:SER:C	0.449
7	C:60:MET:HE1	C:253:TYR:CA	0.449
7	C:88:LYS:CB	C:206:GLY:C	0.449
7	C:135:MET:CB	C:355:GLY:C	0.449
7	C:190:TYR:CD2	D:143:THR:C	0.449
7	C:207:ILE:O	C:207:ILE:HG12	0.449
7	C:209:GLU:HB3	C:222:PHE:CG	0.449
7	C:231:ARG:CG	C:235:ILE:CG1	0.449
7	C:280:LYS:CD	C:293:LYS:CE	0.449
7	C:392:GLU:HG3	C:393:LEU:N	0.449

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:14:LEU:CB	E:19:LEU:CD2	0.449
7	D:49:ARG:C	D:52:ARG:N	0.449
7	D:139:LEU:HD23	D:169:TRP:CZ3	0.449
7	D:273:ILE:HD12	D:287:ALA:CB	0.449
7	F:36:ASN:HB2	F:48:TRP:NE1	0.449
7	C:208:PHE:HZ	D:40:VAL:CG1	0.449
7	A:136:LEU:HD21	A:372:GLY:O	0.448
7	A:165:ILE:CG2	A:166:LEU:N	0.448
7	A:347:VAL:C	A:349:ASP:H	0.448
7	A:405:GLN:CB	A:414:LYS:CD	0.448
7	C:98:ASN:HA	C:287:VAL:HG21	0.448
7	C:99:LEU:HD11	C:182:ILE:CD1	0.448
7	C:134:VAL:CG1	C:386:MET:CE	0.448
7	C:135:MET:HB2	C:355:GLY:C	0.448
7	C:321:PRO:HB3	C:339:TYR:CE1	0.448
7	C:215:ASP:OD2	C:373:ARG:HD2	0.448
7	A:391:ARG:NE	C:390:GLN:CG	0.448
7	D:47:THR:CG2	D:80:ILE:HG22	0.448
7	D:55:LEU:O	D:76:ASP:HB2	0.448
7	D:169:TRP:CZ3	D:175:GLN:C	0.448
7	F:75:ASN:O	F:76:ALA:HB2	0.448
7	A:33:PRO:HG3	A:51:ASP:CG	0.447
7	A:201:LEU:CD2	A:204:ARG:HD3	0.447

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:390:PHE:CE1	C:145:GLU:C	0.447
7	C:44:LEU:O	C:45:LEU:HD23	0.447
7	C:60:MET:HB2	C:278:ASN:ND2	0.447
7	C:74:GLU:HB2	D:40:VAL:HG11	0.447
7	C:92:VAL:O	C:95:ILE:HG22	0.447
7	C:106:ILE:HG12	C:107:VAL:N	0.447
7	C:138:PRO:HB2	C:379:CYS:C	0.447
7	C:151:LYS:HB3	D:290:ASP:HB3	0.447
7	C:192:PRO:CB	D:36:ASN:HB3	0.447
7	C:293:LYS:CD	C:293:LYS:O	0.447
7	C:296:LEU:HD12	C:298:ALA:CA	0.447
7	C:296:LEU:HD11	C:298:ALA:HB3	0.447
7	C:305:LYS:HA	F:109:PHE:CZ	0.447
7	C:133:SER:O	C:389:ARG:HB3	0.447
7	D:95:LEU:O	D:96:ARG:HB3	0.447
7	D:99:TRP:CE2	D:101:MET:HB2	0.447
7	D:168:LEU:CD1	D:213:VAL:HG13	0.447
7	D:183:HIS:CG	D:203:ALA:CB	0.447
7	F:62:THR:CG2	F:65:VAL:HG23	0.447
7	F:119:ARG:CG	F:120:GLY:N	0.447
7	C:73:GLY:N	C:85:ASP:CA	0.447
7	A:118:LEU:HG	A:118:LEU:O	0.447
7	A:131:LEU:CD2	A:373:LEU:CD1	0.446

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:261:TRP:CB	A:286:ILE:CD1	0.446
7	A:317:MET:HB2	A:319:LYS:H	0.446
7	A:357:ARG:HG3	A:360:LYS:NZ	0.446
7	A:131:LEU:O	A:373:LEU:HD21	0.446
7	A:404:ILE:HG23	A:405:GLN:N	0.446
7	A:436:GLN:HG3	C:77:PRO:HG3	0.446
7	C:45:LEU:HD13	C:59:GLN:CB	0.446
7	C:54:ASN:CB	C:224:VAL:CB	0.446
7	C:45:LEU:O	C:58:LYS:HD2	0.446
7	C:128:VAL:CA	C:131:ILE:CG2	0.446
7	C:142:PHE:CD2	C:239:ASN:HB3	0.446
7	C:54:ASN:HD22	C:231:ARG:CZ	0.446
7	C:232:ARG:HB2	C:235:ILE:CG2	0.446
7	C:234:TRP:CD2	D:117:LEU:HD13	0.446
7	C:386:MET:HB2	C:386:MET:HE3	0.446
7	D:81:ILE:CG2	D:90:VAL:CG1	0.446
7	D:128:THR:CG2	D:133:VAL:CB	0.446
7	D:264:TYR:C	D:264:TYR:CD1	0.446
7	C:197:LEU:CD2	C:197:LEU:N	0.446
7	A:206:VAL:O	A:206:VAL:HG23	0.445
7	A:216:ALA:CA	A:220:TRP:CZ3	0.445
7	A:228:LEU:HD22	C:387:HIS:CD2	0.445
7	A:367:PHE:C	A:367:PHE:CD1	0.445

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:401:HIS:HB3	C:380:ARG:H	0.445
7	C:36:VAL:HG22	C:40:THR:OG1	0.445
7	C:49:GLY:CA	C:193:SER:CA	0.445
7	C:59:GLN:HG2	C:246:PHE:O	0.445
7	C:95:ILE:CG2	C:236:GLN:N	0.445
7	A:384:ASN:H	C:126:PHE:HB2	0.445
7	C:145:GLU:HG3	D:312:ASP:HB2	0.445
7	C:154:TRP:CE2	F:105:THR:HB	0.445
7	C:202:VAL:HB	C:209:GLU:O	0.445
7	C:56:ILE:O	C:231:ARG:CD	0.445
7	C:98:ASN:H	C:244:ILE:HD11	0.445
7	C:246:PHE:CE2	C:289:LEU:CG	0.445
7	C:248:VAL:HG13	C:279:ASN:N	0.445
7	C:305:LYS:CD	F:110:ASP:C	0.445
7	C:290:PHE:HE2	C:375:VAL:HG22	0.445
7	D:22:ARG:O	D:25:CYS:HB2	0.445
7	D:64:GLY:CA	D:105:TYR:CE2	0.445
7	D:100:VAL:HG22	D:115:GLY:O	0.445
7	D:247:ASP:HB3	D:249:THR:CG2	0.445
7	D:273:ILE:CG2	D:289:TYR:CB	0.445
7	C:186:LYS:NZ	D:314:ARG:C	0.445
7	F:37:TRP:CD1	F:95:TYR:HE2	0.445
7	D:57:LYS:CE	D:99:TRP:HH2	0.445

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:145:TYR:HE2	D:147:SER:CB	0.445
7	C:142:PHE:N	C:143:PRO:HD3	0.445
7	C:292:ASN:N	C:294:GLN:NE2	0.445
7	A:20:ARG:CZ	A:43:PHE:CD2	0.444
7	A:20:ARG:NH1	A:45:GLU:HA	0.444
7	A:201:LEU:C	A:201:LEU:HD13	0.444
7	A:226:VAL:CG1	A:227:TYR:N	0.444
7	C:7:SER:C	C:24:LYS:HB3	0.444
7	C:45:LEU:CB	C:83:ASN:N	0.444
7	C:105:THR:CG2	F:106:ARG:NH1	0.444
7	C:185:ILE:CD1	C:239:ASN:CB	0.444
7	C:190:TYR:CB	D:163:ASP:HB2	0.444
7	C:286:SER:C	C:293:LYS:CG	0.444
7	C:105:THR:O	C:352:SER:HA	0.444
7	D:19:ARG:HD2	D:28:ALA:HB2	0.444
7	C:187:GLN:HE21	D:189:SER:HB3	0.444
7	C:233:LYS:NZ	D:204:CYS:CB	0.444
7	D:233:CYS:SG	D:278:PHE:CD1	0.444
7	E:4:ASN:OD1	E:11:GLN:HA	0.444
7	F:117:ALA:C	F:118:TYR:CD1	0.444
7	C:51:SER:O	C:190:TYR:HE1	0.444
7	A:218:TYR:N	A:221:LEU:CD2	0.444
7	C:50:GLU:N	C:87:GLU:CB	0.444

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:337:LYS:CD	D:339:TRP:H	0.444
7	A:8:SER:O	A:9:LEU:HB3	0.443
7	A:33:PRO:HD3	A:51:ASP:CG	0.443
7	A:131:LEU:HD22	A:373:LEU:CD2	0.443
7	C:52:GLY:HA3	D:117:LEU:HD21	0.443
7	C:71:GLU:HA	C:84:SER:O	0.443
7	C:96:LYS:HB3	C:239:ASN:N	0.443
7	C:170:GLN:HG3	C:348:ILE:CA	0.443
7	C:181:LYS:CE	C:233:LYS:HG2	0.443
7	C:220:HIS:CE1	D:42:ARG:CB	0.443
7	C:95:ILE:CG2	C:235:ILE:CA	0.443
7	C:92:VAL:CG1	C:237:CYS:C	0.443
7	C:186:LYS:O	D:59:TYR:CD1	0.443
7	D:226:GLU:HG2	F:28:PHE:HD1	0.443
7	C:182:ILE:CG1	D:314:ARG:CZ	0.443
7	E:5:ASN:CG	E:6:THR:H	0.443
7	F:38:VAL:HG11	F:119:ARG:HD2	0.443
7	F:66:LYS:HB3	F:66:LYS:NZ	0.443
7	F:102:ALA:CB	F:105:THR:CG2	0.443
7	A:120:PHE:HE2	A:362:PHE:CD1	0.442
7	A:390:PHE:CD1	C:145:GLU:HB2	0.442
7	A:397:TRP:O	A:398:ARG:HB3	0.442
7	A:411:LYS:CG	A:412:PRO:HD2	0.442

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:1:MET:C	C:3:CYS:N	0.442
7	C:54:ASN:CG	C:92:VAL:N	0.442
7	C:46:LEU:CB	C:58:LYS:C	0.442
7	C:222:PHE:CE1	D:41:GLY:O	0.442
7	C:305:LYS:HD2	F:110:ASP:C	0.442
7	D:61:MET:CE	D:70:LEU:CD2	0.442
7	D:313:ASN:CG	D:314:ARG:N	0.442
7	F:74:ASP:OD2	F:79:THR:HG23	0.442
7	F:87:LEU:CD1	F:127:VAL:CG2	0.442
7	C:208:PHE:HD2	C:222:PHE:CA	0.442
7	C:361:PRO:O	C:362:HIS:HD2	0.442
7	C:210:THR:H	C:222:PHE:HD1	0.442
7	A:387:GLN:CG	C:130:TYR:HB2	0.441
7	A:406:ARG:HD3	A:415:CYS:HB2	0.441
7	C:46:LEU:HB2	C:59:GLN:O	0.441
7	C:57:VAL:CG2	C:235:ILE:HG13	0.441
7	C:95:ILE:CD1	C:98:ASN:CB	0.441
7	C:136:ASN:CG	C:358:TYR:HB3	0.441
7	C:187:GLN:CA	D:101:MET:CE	0.441
7	C:345:PHE:CZ	C:359:CYS:CB	0.441
7	D:58:ILE:O	D:58:ILE:HG23	0.441
7	D:81:ILE:CG2	D:90:VAL:HG12	0.441
7	D:211:TRP:CD1	D:212:ASP:C	0.441

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:15:LYS:NZ	E:1:MET:HB2	0.441
7	D:33:ILE:O	E:5:ASN:HA	0.441
7	C:147:TYR:HE1	C:186:LYS:CD	0.441
7	C:280:LYS:NZ	C:345:PHE:HD1	0.441
7	C:91:LYS:HZ1	C:224:VAL:CG1	0.441
7	C:60:MET:HB2	C:278:ASN:HD22	0.441
7	A:285:ILE:HG23	A:286:ILE:H	0.440
7	A:390:PHE:HA	A:394:TRP:CH2	0.440
7	A:395:GLU:CD	C:387:HIS:CD2	0.440
7	C:58:LYS:CE	C:224:VAL:CG2	0.440
7	C:182:ILE:HG13	D:314:ARG:NH2	0.440
7	C:234:TRP:CZ2	D:101:MET:CB	0.440
7	C:283:ARG:HB3	C:310:ASP:CG	0.440
7	C:135:MET:CG	C:355:GLY:HA2	0.440
7	D:32:GLN:C	D:32:GLN:HG2	0.440
7	C:207:ILE:CG2	D:37:ILE:CG1	0.440
7	D:79:LEU:HD11	D:112:VAL:CG1	0.440
7	F:39:ARG:CG	F:95:TYR:CE1	0.440
7	C:137:VAL:CG1	C:383:ILE:N	0.440
7	C:385:ARG:CB	C:389:ARG:NH1	0.440
7	A:82:THR:HB	A:88:LEU:HD23	0.439
7	A:214:VAL:HG11	B:1:HIS:O	0.439
7	A:281:ASN:O	A:284:LEU:HB3	0.439

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:348:MET:HG2	A:348:MET:O	0.439
7	C:44:LEU:CD1	C:94:ASP:CA	0.439
7	C:74:GLU:CG	C:82:SER:OG	0.439
7	C:104:GLU:CD	C:357:HIS:CB	0.439
7	C:174:CYS:O	C:178:PHE:CZ	0.439
7	C:181:LYS:HB2	C:232:ARG:HG2	0.439
7	C:96:LYS:HA	C:238:PHE:HB3	0.439
7	C:283:ARG:HA	C:307:LYS:CD	0.439
7	C:287:VAL:HG12	C:288:ILE:N	0.439
7	C:287:VAL:O	C:293:LYS:HG2	0.439
7	C:320:THR:HB	C:336:ARG:CZ	0.439
7	C:339:TYR:CZ	C:343:ASP:HB3	0.439
7	D:16:ASN:HD22	D:19:ARG:HD3	0.439
7	C:98:ASN:HA	C:98:ASN:HD22	0.439
7	C:187:GLN:CB	C:187:GLN:N	0.439
7	C:53:LYS:CE	C:234:TRP:H	0.439
7	A:148:HIS:C	A:149:LEU:HD22	0.438
7	A:245:LEU:O	A:249:ILE:HG22	0.438
7	A:328:LYS:C	A:330:THR:H	0.438
7	C:45:LEU:C	C:58:LYS:HG2	0.438
7	C:157:GLU:HA	C:160:ARG:NE	0.438
7	C:191:VAL:CG2	C:225:GLY:O	0.438
7	C:281:TRP:C	C:283:ARG:N	0.438

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:32:GLN:C	D:32:GLN:CG	0.438
7	D:57:LYS:HB3	D:57:LYS:HZ2	0.438
7	D:61:MET:HE2	D:328:ALA:HB1	0.438
7	D:161:SER:HB3	D:165:THR:CG2	0.438
7	D:247:ASP:HB3	D:249:THR:HG22	0.438
7	C:265:ARG:HG2	C:265:ARG:O	0.438
7	A:10:TRP:CZ3	A:14:GLN:NE2	0.437
7	A:394:TRP:CG	C:143:PRO:HD2	0.437
7	C:41:HIS:HB2	C:43:LEU:HD11	0.437
7	C:44:LEU:HB2	C:90:THR:HB	0.437
7	C:142:PHE:CG	C:239:ASN:CG	0.437
7	C:165:ARG:HA	F:58:SER:HB2	0.437
7	C:171:LEU:HD11	C:301:VAL:CB	0.437
7	C:184:VAL:HG11	D:188:MET:HE3	0.437
7	C:190:TYR:CE2	D:143:THR:CA	0.437
7	C:246:PHE:CE1	C:292:ASN:N	0.437
7	C:283:ARG:HA	C:307:LYS:CE	0.437
7	C:300:LYS:O	C:303:ALA:HB3	0.437
7	C:360:TYR:HE1	C:382:ILE:HD12	0.437
7	C:50:GLU:C	D:37:ILE:HA	0.437
7	D:139:LEU:HD21	D:142:HIS:HE1	0.437
7	D:183:HIS:CE1	D:203:ALA:CB	0.437
7	D:304:ARG:HE	D:307:VAL:HG12	0.437

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	E:2:ALA:CB	E:15:LEU:HD22	0.437
7	F:37:TRP:CE3	F:71:ILE:HD12	0.437
7	C:90:THR:O	C:93:GLN:N	0.437
7	C:127:ARG:CD	C:128:VAL:N	0.437
7	C:99:LEU:CG	C:236:GLN:HE22	0.437
7	D:35:ASN:CB	D:35:ASN:N	0.437
7	D:304:ARG:NH2	D:307:VAL:N	0.437
7	A:357:ARG:HG3	A:360:LYS:HZ1	0.436
7	A:397:TRP:HD1	C:38:ARG:CG	0.436
7	C:48:ALA:CB	C:61:ARG:CB	0.436
7	C:93:GLN:CB	C:238:PHE:CA	0.436
7	C:134:VAL:CG1	C:386:MET:HE2	0.436
7	C:169:TYR:CD1	C:351:ALA:HB1	0.436
7	C:190:TYR:HB2	D:163:ASP:HB2	0.436
7	C:238:PHE:CZ	C:241:VAL:O	0.436
7	C:190:TYR:HE2	D:35:ASN:CA	0.436
7	D:139:LEU:HD23	D:169:TRP:CH2	0.436
7	D:151:PHE:CD2	D:153:ASP:N	0.436
7	D:156:GLN:N	D:171:ILE:CD1	0.436
7	D:315:VAL:C	D:331:SER:HA	0.436
7	C:144:PRO:CG	D:332:TRP:CD1	0.436
7	D:335:PHE:CE1	D:337:LYS:CA	0.436
7	E:3:SER:H	E:15:LEU:HD21	0.436

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:52:ARG:NH1	D:335:PHE:HE2	0.436
7	A:355:THR:CG2	A:356:LEU:N	0.436
7	C:223:ASP:OD1	C:224:VAL:N	0.436
7	D:119:ASN:N	D:119:ASN:HD22	0.436
7	C:308:ILE:HD13	F:45:GLY:H	0.436
7	A:64:TRP:CE3	A:64:TRP:HA	0.435
7	A:72:VAL:HG11	A:103:CYS:CB	0.435
7	A:143:LEU:HA	A:146:PHE:CE2	0.435
7	A:182:TYR:CD1	B:14:LEU:CB	0.435
7	A:311:LYS:CE	A:312:LEU:CD2	0.435
7	A:420:LEU:HA	A:420:LEU:HD23	0.435
7	C:1:MET:HE3	C:34:LYS:CA	0.435
7	C:6:ASN:O	C:24:LYS:HG2	0.435
7	C:44:LEU:HD22	C:45:LEU:H	0.435
7	C:54:ASN:O	C:58:LYS:HE2	0.435
7	C:63:LEU:CD1	C:65:VAL:CG1	0.435
7	C:73:GLY:CA	C:81:ARG:CA	0.435
7	C:130:TYR:CZ	C:134:VAL:HG13	0.435
7	C:208:PHE:CD1	D:38:ASP:O	0.435
7	C:217:VAL:HB	C:219:PHE:HE1	0.435
7	C:314:GLU:CD	C:340:PHE:HZ	0.435
7	D:59:TYR:HD2	D:101:MET:HA	0.435
7	D:161:SER:O	D:187:VAL:HG23	0.435

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:261:LEU:HD11	E:34:ALA:CB	0.435
7	D:330:GLY:HA2	D:336:LEU:HD22	0.435
7	E:29:LYS:HG3	E:30:VAL:H	0.435
7	E:62:ARG:O	E:63:GLU:HB3	0.435
7	F:2:GLN:HG2	F:3:VAL:N	0.435
7	F:41:ALA:HB3	F:44:LYS:CD	0.435
7	D:148:CYS:SG	D:149:CYS:N	0.435
7	A:402:LEU:C	C:377:ASN:CB	0.434
7	C:27:GLU:O	C:30:LEU:HG	0.434
7	C:80:ALA:HB3	C:81:ARG:CZ	0.434
7	C:95:ILE:HG12	C:235:ILE:C	0.434
7	C:104:GLU:CD	C:357:HIS:HB2	0.434
7	C:176:GLN:HB2	F:105:THR:CG2	0.434
7	C:181:LYS:CB	C:232:ARG:HD3	0.434
7	C:280:LYS:CE	C:345:PHE:HD1	0.434
7	C:280:LYS:NZ	C:348:ILE:CG2	0.434
7	C:2:GLY:H	D:55:LEU:HG	0.434
7	D:207:SER:CB	F:1:MET:HE2	0.434
7	D:183:HIS:ND1	F:1:MET:HE1	0.434
7	D:63:TRP:HH2	D:326:ALA:CB	0.434
7	D:38:ASP:CB	D:38:ASP:N	0.434
7	D:200:VAL:CG1	D:201:SER:N	0.434
7	A:174:LYS:CD	A:210:MET:SD	0.434

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:43:PHE:HE2	A:45:GLU:HA	0.433
7	A:167:ARG:HB2	A:217:ASN:HD21	0.433
7	A:249:ILE:HD12	A:253:VAL:HG23	0.433
7	A:261:TRP:CG	A:286:ILE:CD1	0.433
7	A:401:HIS:CE1	C:381:ASP:CB	0.433
7	C:88:LYS:CG	C:89:ALA:N	0.433
7	C:95:ILE:CB	C:236:GLN:H	0.433
7	C:113:LEU:HD11	C:117:VAL:HG23	0.433
7	C:142:PHE:CE1	C:239:ASN:OD1	0.433
7	C:238:PHE:C	C:240:ASP:N	0.433
7	C:305:LYS:HA	F:109:PHE:HA	0.433
7	D:14:LEU:HA	D:14:LEU:HD13	0.433
7	C:188:ALA:O	D:145:TYR:CD2	0.433
7	D:207:SER:HB2	F:1:MET:HE2	0.433
7	D:261:LEU:CD1	E:34:ALA:CB	0.433
7	D:183:HIS:N	E:3:SER:HB3	0.433
7	F:25:ALA:HB3	F:78:ASN:CG	0.433
7	C:228:ARG:CG	F:114:THR:HG21	0.433
7	C:147:TYR:HD2	C:239:ASN:OD1	0.433
7	C:231:ARG:CG	C:235:ILE:H	0.433
7	C:46:LEU:O	C:60:MET:CA	0.433
7	A:53:GLU:CG	A:54:PRO:CD	0.432
7	A:182:TYR:CD1	A:182:TYR:N	0.432

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:134:VAL:CG2	C:146:PHE:HE2	0.432
7	C:142:PHE:CE2	C:147:TYR:CE2	0.432
7	C:177:TYR:C	C:232:ARG:CG	0.432
7	C:181:LYS:HD3	C:232:ARG:HH11	0.432
7	C:190:TYR:CD1	C:191:VAL:N	0.432
7	C:210:THR:C	D:41:GLY:N	0.432
7	C:219:PHE:CE1	C:376:PHE:CD1	0.432
7	C:244:ILE:CG2	C:287:VAL:CB	0.432
7	C:282:LEU:CB	C:341:ILE:HD11	0.432
7	C:345:PHE:CD2	C:346:LEU:N	0.432
7	D:25:CYS:SG	D:259:GLN:HG2	0.432
7	D:297:TRP:NE1	D:302:ALA:CB	0.432
7	F:28:PHE:CD1	F:29:THR:N	0.432
7	F:32:ASN:CB	F:104:PHE:CE1	0.432
7	F:33:TYR:HE1	F:35:MET:CB	0.432
7	A:203:CYS:SG	A:204:ARG:N	0.432
7	C:281:TRP:CG	C:281:TRP:O	0.432
7	A:1:ARG:CB	A:2:PRO:CD	0.431
7	A:140:SER:HB2	A:158:LEU:HD21	0.431
7	A:216:ALA:HA	A:220:TRP:CE3	0.431
7	C:107:VAL:HG11	C:127:ARG:HH12	0.431
7	C:134:VAL:HB	C:386:MET:HE1	0.431
7	C:136:ASN:HB3	C:358:TYR:H	0.431

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:157:GLU:HB2	C:160:ARG:HH21	0.431
7	C:208:PHE:CE2	C:221:MET:O	0.431
7	C:225:GLY:C	C:227:GLN:H	0.431
7	D:264:TYR:CE2	D:297:TRP:CD1	0.431
7	D:332:TRP:O	D:333:ASP:CB	0.431
7	F:32:ASN:HB3	F:104:PHE:CZ	0.431
7	F:59:ILE:HG23	F:60:SER:H	0.431
7	F:65:VAL:HG11	F:69:PHE:HB2	0.431
7	C:54:ASN:CG	C:231:ARG:HH21	0.431
7	A:20:ARG:NH1	A:43:PHE:CE2	0.430
7	A:64:TRP:CZ3	A:69:ALA:HB3	0.430
7	A:125:TYR:CE1	B:3:GLU:HG3	0.430
7	A:215:ALA:HB3	A:254:PRO:HB3	0.430
7	A:249:ILE:HD12	A:253:VAL:CG2	0.430
7	C:55:THR:CA	C:224:VAL:C	0.430
7	C:60:MET:HG2	C:247:VAL:O	0.430
7	C:207:ILE:HG23	D:38:ASP:CA	0.430
7	C:42:ARG:CB	C:241:VAL:HG22	0.430
7	C:281:TRP:CD1	C:283:ARG:N	0.430
7	C:305:LYS:HE3	F:110:ASP:OD1	0.430
7	A:401:HIS:H	C:380:ARG:HD2	0.430
7	D:180:PHE:HA	D:211:TRP:CZ3	0.430
7	D:204:CYS:HB2	D:228:ASP:HB3	0.430

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:332:TRP:O	D:333:ASP:HB3	0.430
7	E:61:PHE:O	E:62:ARG:HB3	0.430
7	E:65:LYS:HG2	E:65:LYS:O	0.430
7	C:166:SER:OG	F:106:ARG:HG3	0.430
7	C:208:PHE:HZ	D:40:VAL:N	0.430
7	C:144:PRO:CG	D:332:TRP:HE1	0.430
7	A:357:ARG:HB2	A:360:LYS:HE3	0.429
7	A:405:GLN:HB2	A:414:LYS:CD	0.429
7	C:26:ILE:HA	C:29:GLN:HE21	0.429
7	C:56:ILE:CB	C:229:ASP:HA	0.429
7	C:97:ASN:HB3	C:287:VAL:HG11	0.429
7	C:99:LEU:C	C:99:LEU:CD1	0.429
7	C:102:ALA:HB2	C:178:PHE:HE1	0.429
7	C:169:TYR:CB	C:351:ALA:CB	0.429
7	C:179:LEU:C	C:182:ILE:HG22	0.429
7	D:57:LYS:HG3	D:332:TRP:CG	0.429
7	D:106:ALA:HB1	D:151:PHE:HE1	0.429
7	D:167:ALA:HB2	D:179:THR:HB	0.429
7	D:222:PHE:CE2	D:251:ARG:HD2	0.429
7	D:49:ARG:CG	D:50:THR:H	0.429
7	A:53:GLU:HG2	A:54:PRO:CD	0.428
7	A:95:LEU:N	A:95:LEU:HD12	0.428
7	A:220:TRP:CH2	A:251:TRP:CA	0.428

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:317:MET:CB	A:319:LYS:H	0.428
7	A:404:ILE:HG12	A:405:GLN:N	0.428
7	A:430:MET:HG2	A:431:TYR:H	0.428
7	B:19:ALA:O	B:22:PHE:HB3	0.428
7	C:4:LEU:HG	D:52:ARG:CD	0.428
7	C:24:LYS:HE3	C:28:LYS:HB3	0.428
7	C:77:PRO:C	C:368:ASP:HB3	0.428
7	C:61:ARG:CG	C:81:ARG:CG	0.428
7	C:128:VAL:N	C:149:HIS:CE1	0.428
7	C:128:VAL:HG22	C:153:LEU:HD22	0.428
7	C:198:LEU:HA	D:38:ASP:OD2	0.428
7	C:231:ARG:C	C:235:ILE:HB	0.428
7	C:227:GLN:HE22	C:231:ARG:HA	0.428
7	C:301:VAL:C	C:302:LEU:HG	0.428
7	C:92:VAL:CG2	D:99:TRP:CE3	0.428
7	C:91:LYS:CE	D:117:LEU:HD22	0.428
7	D:146:LEU:HD11	D:159:THR:CG2	0.428
7	D:333:ASP:OD2	D:335:PHE:HB2	0.428
7	E:59:ASN:HB3	E:60:PRO:HD3	0.428
7	D:226:GLU:CB	F:28:PHE:CD1	0.428
7	C:167:ASN:HD22	F:59:ILE:C	0.428
7	C:98:ASN:N	C:244:ILE:CD1	0.428
7	F:114:THR:O	F:114:THR:HG23	0.428

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:64:TRP:O	A:65:TYR:CG	0.427
7	A:185:ALA:HB1	A:194:LEU:HD11	0.427
7	C:63:LEU:CD1	C:65:VAL:HG13	0.427
7	C:127:ARG:HG3	C:149:HIS:O	0.427
7	C:144:PRO:CB	D:333:ASP:N	0.427
7	C:147:TYR:CE1	D:313:ASN:OD1	0.427
7	C:93:GLN:O	C:241:VAL:HG21	0.427
7	C:273:PHE:CA	C:276:ILE:HB	0.427
7	D:33:ILE:O	D:34:THR:HG22	0.427
7	D:99:TRP:NE1	D:101:MET:HB2	0.427
7	D:139:LEU:HD23	D:140:ALA:N	0.427
7	D:185:GLY:HA3	D:204:CYS:SG	0.427
7	D:183:HIS:HE1	D:207:SER:HB3	0.427
7	D:304:ARG:NH2	D:306:GLY:C	0.427
7	F:73:ARG:HD2	F:80:LEU:HD11	0.427
7	F:89:PRO:O	F:92:THR:HG22	0.427
7	F:117:ALA:O	F:118:TYR:HB2	0.427
7	A:158:LEU:C	A:160:LEU:H	0.426
7	A:228:LEU:HA	A:228:LEU:HD23	0.426
7	A:265:LYS:HE2	A:274:TRP:CD1	0.426
7	A:311:LYS:CE	A:312:LEU:HD23	0.426
7	A:331:LEU:O	A:335:PRO:HD3	0.426
7	B:26:LEU:HD23	B:31:GLY:HA3	0.426

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:110:MET:HE1	C:119:LEU:CD1	0.426
7	C:248:VAL:HG21	C:279:ASN:CG	0.426
7	C:172:ILE:HG22	C:280:LYS:HD3	0.426
7	C:283:ARG:HD3	C:310:ASP:HB3	0.426
7	C:342:ARG:HD2	C:361:PRO:CB	0.426
7	D:10:GLU:CD	E:16:VAL:HG21	0.426
7	D:19:ARG:O	D:23:LYS:HA	0.426
7	D:57:LYS:CE	D:59:TYR:CB	0.426
7	D:59:TYR:CE2	D:102:THR:N	0.426
7	D:89:LYS:NZ	D:91:HIS:C	0.426
7	D:187:VAL:O	D:203:ALA:HA	0.426
7	D:292:PHE:CD1	D:313:ASN:O	0.426
7	D:292:PHE:CE2	D:311:HIS:HB2	0.426
7	D:15:LYS:HZ1	E:1:MET:HB2	0.426
7	F:99:ARG:C	F:99:ARG:HD3	0.426
7	C:234:TRP:HZ2	D:99:TRP:HE1	0.426
7	C:61:ARG:CG	C:81:ARG:H	0.426
7	C:95:ILE:H	C:95:ILE:HG22	0.426
7	F:71:ILE:CG2	F:72:SER:N	0.426
7	A:133:PHE:CE1	A:165:ILE:CD1	0.425
7	A:150:HIS:CB	C:3:CYS:CB	0.425
7	A:165:ILE:O	A:166:LEU:HB2	0.425
7	A:218:TYR:CD1	A:290:ILE:CG1	0.425

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:347:VAL:C	A:349:ASP:N	0.425
7	A:410:MET:HA	C:373:ARG:NE	0.425
7	C:85:ASP:CB	D:39:PRO:HD2	0.425
7	C:44:LEU:O	C:94:ASP:HB2	0.425
7	C:159:VAL:C	C:161:ALA:H	0.425
7	C:173:ASP:CG	C:174:CYS:N	0.425
7	C:176:GLN:HB3	F:107:ASP:CA	0.425
7	C:188:ALA:O	C:234:TRP:CZ3	0.425
7	C:253:TYR:CD2	C:254:ASN:N	0.425
7	C:296:LEU:HB3	C:299:GLU:N	0.425
7	C:312:PHE:CE1	C:313:PRO:HD2	0.425
7	C:58:LYS:NZ	C:224:VAL:N	0.425
7	A:394:TRP:HH2	C:145:GLU:H	0.425
7	A:156:ILE:CD1	A:224:GLU:CA	0.424
7	A:265:LYS:HD2	A:282:TYR:OH	0.424
7	C:44:LEU:CG	C:90:THR:C	0.424
7	C:83:ASN:CG	C:221:MET:SD	0.424
7	C:85:ASP:HB3	D:39:PRO:N	0.424
7	C:146:PHE:O	C:149:HIS:HB3	0.424
7	C:238:PHE:C	C:238:PHE:CD1	0.424
7	C:290:PHE:C	C:292:ASN:N	0.424
7	C:315:PHE:HD1	C:340:PHE:CD2	0.424
7	D:7:LEU:N	D:7:LEU:HD23	0.424

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:57:LYS:HG3	D:332:TRP:CB	0.424
7	D:290:ASP:HA	D:314:ARG:CG	0.424
7	D:290:ASP:HA	D:314:ARG:HD2	0.424
7	D:326:ALA:O	D:327:VAL:HG22	0.424
7	D:330:GLY:N	D:336:LEU:CD2	0.424
7	D:32:GLN:CD	E:8:SER:HA	0.424
7	A:75:GLY:CA	A:102:GLU:HG2	0.423
7	A:390:PHE:O	A:394:TRP:CD2	0.423
7	C:72:GLY:N	C:85:ASP:CG	0.423
7	C:173:ASP:CB	C:300:LYS:O	0.423
7	C:182:ILE:HA	C:185:ILE:HG22	0.423
7	C:190:TYR:CD1	C:226:ALA:O	0.423
7	C:87:GLU:CG	C:225:GLY:C	0.423
7	C:280:LYS:C	C:295:ASP:HA	0.423
7	D:117:LEU:HD12	D:145:TYR:CG	0.423
7	D:168:LEU:N	D:168:LEU:HD23	0.423
7	D:279:SER:HB2	D:284:LEU:HB3	0.423
7	D:282:GLY:C	D:284:LEU:H	0.423
7	D:318:LEU:HD11	D:327:VAL:HG11	0.423
7	D:321:THR:HG23	D:323:ASP:N	0.423
7	C:238:PHE:HE1	C:239:ASN:O	0.423
7	D:57:LYS:HZ3	D:59:TYR:H	0.423
7	D:120:ILE:HG22	D:121:CYS:N	0.423

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:39:CYS:SG	A:81:CYS:CB	0.423
7	A:13:VAL:HG21	A:191:TRP:CZ2	0.422
7	A:19:TYR:CB	A:65:TYR:CD2	0.422
7	A:311:LYS:HD2	C:389:ARG:NH1	0.422
7	C:27:GLU:HA	C:30:LEU:CD2	0.422
7	C:43:LEU:HD11	C:219:PHE:CD2	0.422
7	C:84:SER:C	D:40:VAL:CG1	0.422
7	C:131:ILE:H	C:149:HIS:CE1	0.422
7	C:176:GLN:HB2	F:105:THR:CB	0.422
7	C:182:ILE:C	D:314:ARG:NE	0.422
7	C:211:LYS:HA	D:41:GLY:N	0.422
7	C:304:GLY:HA3	F:108:CYS:C	0.422
7	C:305:LYS:CA	F:109:PHE:C	0.422
7	C:377:ASN:O	C:378:ASP:HB2	0.422
7	D:49:ARG:CG	D:82:TRP:HD1	0.422
7	D:49:ARG:HG2	D:51:LEU:HD12	0.422
7	D:93:ILE:CG2	D:124:TYR:HE2	0.422
7	A:404:ILE:HG23	A:413:LEU:H	0.422
7	C:305:LYS:N	F:110:ASP:H	0.422
7	A:331:LEU:O	A:331:LEU:HD22	0.421
7	A:403:HIS:CD2	A:404:ILE:O	0.421
7	C:45:LEU:CG	C:59:GLN:HB2	0.421
7	C:95:ILE:HG13	C:236:GLN:N	0.421

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:128:VAL:HA	C:131:ILE:CG2	0.421
7	C:127:ARG:CA	C:149:HIS:CE1	0.421
7	C:171:LEU:C	C:171:LEU:CD1	0.421
7	C:179:LEU:CD2	C:182:ILE:HD13	0.421
7	C:280:LYS:CB	C:293:LYS:C	0.421
7	D:57:LYS:HA	D:332:TRP:NE1	0.421
7	D:58:ILE:HG12	D:72:SER:OG	0.421
7	D:99:TRP:HE1	D:101:MET:CB	0.421
7	E:71:LEU:HD11	F:75:ASN:ND2	0.421
7	C:303:ALA:O	F:48:TRP:CZ3	0.421
7	A:230:THR:CG2	A:231:LEU:N	0.421
7	A:404:ILE:HG22	A:413:LEU:H	0.421
7	A:410:MET:CB	C:373:ARG:NH1	0.421
7	D:50:THR:C	D:52:ARG:N	0.421
7	C:392:GLU:HA	C:392:GLU:OE2	0.421
7	A:143:LEU:HD23	A:154:ASN:ND2	0.420
7	A:256:LEU:O	A:256:LEU:HD13	0.420
7	A:393:SER:HB2	A:397:TRP:HZ3	0.420
7	A:430:MET:CE	A:433:ALA:HB2	0.420
7	C:61:ARG:C	C:276:ILE:HG23	0.420
7	C:90:THR:CG2	C:222:PHE:N	0.420
7	C:92:VAL:HG21	D:99:TRP:CB	0.420
7	C:198:LEU:CD2	D:37:ILE:HG12	0.420

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:74:GLU:OE1	C:208:PHE:CZ	0.420
7	C:56:ILE:O	C:231:ARG:CG	0.420
7	C:234:TRP:CE3	D:117:LEU:HD12	0.420
7	C:363:PHE:C	C:363:PHE:CD1	0.420
7	D:282:GLY:C	D:284:LEU:N	0.420
7	E:11:GLN:HG2	E:15:LEU:HD12	0.420
7	F:96:TYR:CD2	F:120:GLY:N	0.420
7	F:112:THR:HG21	F:114:THR:HG22	0.420
7	A:404:ILE:N	A:412:PRO:CA	0.420
7	C:358:TYR:CG	C:359:CYS:N	0.420
7	A:140:SER:O	A:144:LEU:HB2	0.419
7	A:182:TYR:CE1	B:14:LEU:CB	0.419
7	A:222:LEU:HA	A:297:ASN:OD1	0.419
7	A:390:PHE:HB3	A:394:TRP:CE2	0.419
7	C:110:MET:CE	C:119:LEU:CD1	0.419
7	C:142:PHE:CE2	D:332:TRP:CG	0.419
7	C:191:VAL:HG22	C:227:GLN:N	0.419
7	C:188:ALA:O	C:234:TRP:CE3	0.419
7	C:250:SER:HB2	C:291:LEU:HD23	0.419
7	C:251:SER:C	C:253:TYR:N	0.419
7	C:338:LYS:HD2	C:363:PHE:CD2	0.419
7	C:361:PRO:O	C:362:HIS:CD2	0.419
7	A:391:ARG:NE	C:390:GLN:CD	0.419

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:183:ASP:OD1	D:274:THR:HG21	0.419
7	C:302:LEU:O	F:48:TRP:CE2	0.419
7	C:174:CYS:C	F:107:ASP:HB3	0.419
7	C:53:LYS:N	D:117:LEU:CD2	0.419
7	C:144:PRO:CB	D:334:SER:H	0.419
7	A:205:LEU:C	A:205:LEU:CD2	0.418
7	A:388:LEU:HA	A:388:LEU:HD13	0.418
7	A:411:LYS:CG	A:412:PRO:CD	0.418
7	C:44:LEU:CG	C:58:LYS:CD	0.418
7	C:75:GLU:N	C:81:ARG:HB2	0.418
7	C:147:TYR:CD1	D:313:ASN:OD1	0.418
7	C:234:TRP:CZ3	D:145:TYR:CE2	0.418
7	C:308:ILE:CG1	C:309:GLU:N	0.418
7	C:131:ILE:CA	C:356:ARG:CZ	0.418
7	C:389:ARG:NE	C:392:GLU:CD	0.418
7	D:285:LEU:HD13	D:286:LEU:N	0.418
7	A:397:TRP:HD1	C:38:ARG:CB	0.418
7	C:54:ASN:N	C:227:GLN:OE1	0.418
7	C:58:LYS:CB	C:58:LYS:NZ	0.418
7	C:83:ASN:CB	C:83:ASN:N	0.418
7	C:85:ASP:H	D:40:VAL:HG13	0.418
7	C:96:LYS:NZ	C:236:GLN:NE2	0.418
7	D:34:THR:CB	D:34:THR:N	0.418

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:126:THR:CB	A:129:TYR:CE2	0.417
7	A:133:PHE:CE1	A:165:ILE:HG12	0.417
7	A:302:VAL:HG13	A:303:ARG:N	0.417
7	A:394:TRP:HB3	A:398:ARG:NH2	0.417
7	A:406:ARG:C	A:416:PRO:HD3	0.417
7	C:45:LEU:HD21	C:245:ILE:H	0.417
7	C:52:GLY:C	D:117:LEU:CD2	0.417
7	C:74:GLU:CA	C:84:SER:N	0.417
7	C:142:PHE:CD2	C:142:PHE:O	0.417
7	C:154:TRP:CZ2	F:104:PHE:O	0.417
7	C:207:ILE:HD11	C:210:THR:HG1	0.417
7	C:74:GLU:CG	C:208:PHE:CE1	0.417
7	C:230:GLU:C	F:109:PHE:HZ	0.417
7	C:252:SER:HB2	C:365:CYS:SG	0.417
7	C:305:LYS:CA	F:109:PHE:CA	0.417
7	D:54:HIS:CE1	D:78:LYS:HB2	0.417
7	D:69:LEU:HD21	D:105:TYR:CZ	0.417
7	D:188:MET:HG2	D:188:MET:O	0.417
7	D:198:LEU:N	D:198:LEU:HD13	0.417
7	D:61:MET:HE1	D:336:LEU:HG	0.417
7	F:73:ARG:CB	F:80:LEU:CD2	0.417
7	C:222:PHE:HE1	D:41:GLY:O	0.417
7	A:189:HIS:ND1	A:190:GLN:N	0.417

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:47:GLY:N	C:223:ASP:OD1	0.417
7	D:48:ARG:CG	D:49:ARG:N	0.417
7	A:253:VAL:CB	A:254:PRO:CD	0.416
7	A:283:TRP:HD1	A:287:ARG:HB2	0.416
7	A:401:HIS:C	A:401:HIS:CD2	0.416
7	C:7:SER:CA	C:24:LYS:CG	0.416
7	C:45:LEU:C	C:58:LYS:CB	0.416
7	C:55:THR:HG23	C:56:ILE:HG12	0.416
7	C:60:MET:HE1	C:253:TYR:N	0.416
7	C:85:ASP:CB	D:39:PRO:O	0.416
7	C:92:VAL:HG11	D:75:GLN:NE2	0.416
7	C:147:TYR:CZ	C:185:ILE:HG21	0.416
7	C:190:TYR:CA	C:228:ARG:H	0.416
7	C:50:GLU:CG	C:208:PHE:HA	0.416
7	C:238:PHE:CE1	C:239:ASN:O	0.416
7	C:269:ALA:O	C:273:PHE:CD2	0.416
7	C:280:LYS:HE2	C:345:PHE:HD1	0.416
7	C:289:LEU:CD2	C:289:LEU:N	0.416
7	C:305:LYS:CE	F:110:ASP:HA	0.416
7	C:346:LEU:HD23	C:358:TYR:OH	0.416
7	D:70:LEU:C	D:70:LEU:CD2	0.416
7	D:117:LEU:CD1	D:145:TYR:CB	0.416
7	D:126:LEU:C	D:126:LEU:CD2	0.416

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:145:TYR:CZ	D:146:LEU:C	0.416
7	D:161:SER:HB3	D:165:THR:O	0.416
7	D:199:PHE:C	D:199:PHE:CD1	0.416
7	D:300:LEU:CD1	E:38:MET:CB	0.416
7	C:147:TYR:CE1	D:332:TRP:HB2	0.416
7	D:61:MET:CE	D:336:LEU:CD2	0.416
7	D:246:ASP:OD1	F:102:ALA:HA	0.416
7	C:269:ALA:O	C:273:PHE:HD2	0.416
7	A:143:LEU:HD23	A:154:ASN:HD21	0.416
7	D:56:ALA:C	D:332:TRP:NE1	0.416
7	A:38:PHE:CE2	A:39:CYS:O	0.415
7	A:46:TYR:O	A:47:ALA:HB2	0.415
7	A:274:TRP:NE1	A:282:TYR:CE2	0.415
7	A:291:LEU:C	A:291:LEU:CD2	0.415
7	C:45:LEU:HB3	C:82:SER:CB	0.415
7	C:60:MET:HG3	C:252:SER:OG	0.415
7	C:76:ASP:CG	C:77:PRO:CD	0.415
7	C:92:VAL:HG22	C:234:TRP:NE1	0.415
7	C:132:LEU:C	C:132:LEU:HD13	0.415
7	C:176:GLN:HB3	F:107:ASP:O	0.415
7	C:182:ILE:C	D:314:ARG:CZ	0.415
7	C:94:ASP:OD2	C:244:ILE:CG2	0.415
7	A:398:ARG:CB	C:383:ILE:CG1	0.415

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:58:ILE:HG23	D:331:SER:H	0.415
7	F:46:LEU:O	F:111:VAL:HG11	0.415
7	D:337:LYS:CD	D:339:TRP:N	0.415
7	C:123:GLU:O	C:126:PHE:CD2	0.415
7	D:293:ASN:HB2	D:308:LEU:O	0.415
7	D:15:LYS:CB	E:1:MET:SD	0.415
7	A:133:PHE:CZ	A:165:ILE:HD13	0.414
7	A:167:ARG:HA	A:213:CYS:HB3	0.414
7	A:215:ALA:CB	A:254:PRO:HB3	0.414
7	C:32:LYS:HA	C:35:GLN:NE2	0.414
7	C:74:GLU:HB3	C:83:ASN:H	0.414
7	C:173:ASP:CG	C:300:LYS:HD3	0.414
7	C:219:PHE:C	C:221:MET:HG3	0.414
7	C:362:HIS:NE2	C:378:ASP:CG	0.414
7	C:186:LYS:O	D:59:TYR:CG	0.414
7	D:151:PHE:CE2	D:153:ASP:CA	0.414
7	D:200:VAL:CG2	D:234:PHE:CZ	0.414
7	D:292:PHE:CD2	D:293:ASN:HB3	0.414
7	F:6:GLN:CG	F:7:GLU:N	0.414
7	F:36:ASN:HB3	F:48:TRP:HZ2	0.414
7	F:88:LYS:HE3	F:91:ASP:CB	0.414
7	C:40:THR:HG23	C:220:HIS:ND1	0.414
7	C:235:ILE:O	C:236:GLN:CB	0.414

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:41:ARG:HG3	A:49:TRP:O	0.413
7	B:14:LEU:HD22	B:15:GLU:H	0.413
7	C:94:ASP:CB	C:244:ILE:HG12	0.413
7	C:192:PRO:HB2	D:36:ASN:HB3	0.413
7	C:194:ASP:CG	C:195:GLN:N	0.413
7	C:233:LYS:CE	D:204:CYS:CB	0.413
7	C:42:ARG:CB	C:241:VAL:CG2	0.413
7	C:279:ASN:HB3	C:280:LYS:O	0.413
7	C:137:VAL:CG1	C:386:MET:HB2	0.413
7	D:104:ALA:HB2	D:149:CYS:SG	0.413
7	D:158:VAL:HG11	D:199:PHE:CE2	0.413
7	D:280:LYS:C	D:280:LYS:CD	0.413
7	F:37:TRP:HB3	F:95:TYR:CE2	0.413
7	F:41:ALA:H	F:44:LYS:CG	0.413
7	F:41:ALA:CA	F:93:ALA:HB2	0.413
7	A:46:TYR:HE1	A:66:LEU:HD12	0.413
7	A:317:MET:HB3	A:318:CYS:H	0.413
7	A:381:PHE:C	A:382:VAL:HG13	0.412
7	A:403:HIS:CE1	A:411:LYS:O	0.412
7	B:12:SER:O	B:13:TYR:HB3	0.412
7	C:75:GLU:HG2	C:84:SER:CA	0.412
7	C:92:VAL:HG13	C:237:CYS:CA	0.412
7	C:134:VAL:HG21	C:146:PHE:HE2	0.412

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:377:ASN:C	C:379:CYS:N	0.412
7	D:57:LYS:CA	D:332:TRP:CD2	0.412
7	D:123:ILE:HG22	D:137:ARG:O	0.412
7	D:151:PHE:CE2	D:153:ASP:N	0.412
7	D:272:GLY:H	D:290:ASP:CG	0.412
7	F:20:ARG:HG3	F:81:TYR:HE1	0.412
7	F:30:PHE:CE1	F:80:LEU:HD21	0.412
7	F:96:TYR:CZ	F:97:CYS:O	0.412
7	C:123:GLU:O	C:126:PHE:HD2	0.412
7	A:218:TYR:HH	A:293:ALA:H	0.412
7	A:49:TRP:CD1	A:50:PRO:O	0.411
7	A:153:ARG:HD3	A:153:ARG:O	0.411
7	A:264:VAL:O	A:282:TYR:CE1	0.411
7	A:219:TYR:HE2	A:290:ILE:HD12	0.411
7	A:331:LEU:C	A:331:LEU:CD2	0.411
7	A:334:ILE:CG1	A:335:PRO:CD	0.411
7	A:419:SER:C	A:421:SER:N	0.411
7	C:49:GLY:N	C:87:GLU:CD	0.411
7	C:142:PHE:HE1	C:146:PHE:CD1	0.411
7	C:234:TRP:CE2	C:237:CYS:SG	0.411
7	C:246:PHE:CE1	C:292:ASN:C	0.411
7	C:305:LYS:HA	F:109:PHE:CA	0.411
7	D:6:GLN:HA	D:6:GLN:HE21	0.411

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:77:GLY:CA	D:95:LEU:HB2	0.411
7	D:128:THR:HG21	D:133:VAL:CA	0.411
7	D:122:SER:OG	D:138:GLU:HB3	0.411
7	D:139:LEU:CD2	D:169:TRP:CZ3	0.411
7	D:155:ASN:OD1	D:171:ILE:HD13	0.411
7	D:261:LEU:C	D:261:LEU:CD2	0.411
7	D:226:GLU:OE1	F:28:PHE:CE1	0.411
7	C:177:TYR:CD1	F:101:PRO:HB2	0.411
7	C:56:ILE:O	C:231:ARG:CB	0.411
7	C:141:ASP:O	C:142:PHE:C	0.411
7	C:60:MET:SD	C:252:SER:O	0.411
7	A:38:PHE:CE1	A:52:GLY:O	0.410
7	C:59:GLN:CB	C:82:SER:O	0.410
7	C:88:LYS:CA	C:91:LYS:NZ	0.410
7	C:95:ILE:O	C:96:LYS:CB	0.410
7	C:183:ASP:CG	D:274:THR:CG2	0.410
7	C:217:VAL:HG21	C:376:PHE:CE1	0.410
7	C:178:PHE:HD2	C:235:ILE:HD13	0.410
7	C:302:LEU:HB3	F:51:ASP:CB	0.410
7	D:54:HIS:CG	D:74:SER:OG	0.410
7	D:79:LEU:HB3	D:93:ILE:CD1	0.410
7	D:100:VAL:HA	D:116:GLY:HA2	0.410
7	D:284:LEU:C	D:284:LEU:CD2	0.410

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	E:66:PHE:CE2	E:67:PHE:O	0.410
7	A:402:LEU:N	C:377:ASN:CB	0.410
7	D:89:LYS:HZ1	D:92:ALA:N	0.410
7	A:57:PHE:CG	A:57:PHE:O	0.410
7	C:90:THR:O	C:93:GLN:C	0.410
7	C:142:PHE:CE1	C:143:PRO:O	0.410
7	A:8:SER:OG	A:11:GLU:HG3	0.409
7	A:205:LEU:O	A:205:LEU:HD23	0.409
7	A:269:GLU:O	A:274:TRP:CZ3	0.409
7	C:12:GLN:CG	C:13:ARG:H	0.409
7	A:384:ASN:OD1	C:126:PHE:CD1	0.409
7	C:134:VAL:HG12	C:386:MET:HE2	0.409
7	C:170:GLN:HG2	C:351:ALA:HB2	0.409
7	C:186:LYS:CA	C:186:LYS:O	0.409
7	C:184:VAL:HA	C:186:LYS:C	0.409
7	C:235:ILE:HD13	C:235:ILE:HG21	0.409
7	C:291:LEU:C	C:292:ASN:CG	0.409
7	C:104:GLU:CG	C:356:ARG:C	0.409
7	D:22:ARG:C	D:25:CYS:H	0.409
7	D:47:THR:HG22	D:78:LYS:HB2	0.409
7	D:99:TRP:HE1	D:101:MET:HB2	0.409
7	C:53:LYS:O	D:117:LEU:CD1	0.409
7	D:253:PHE:CE2	D:255:LEU:HA	0.409

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	F:14:GLN:CG	F:15:PRO:CD	0.409
7	F:30:PHE:CZ	F:73:ARG:NE	0.409
7	A:46:TYR:HE2	A:100:LEU:CD2	0.409
7	C:74:GLU:CB	C:83:ASN:N	0.409
7	C:167:ASN:HD22	F:60:SER:N	0.409
7	C:210:THR:CG2	C:211:LYS:H	0.409
7	D:211:TRP:HE1	D:213:VAL:CA	0.409
7	D:292:PHE:CD1	D:292:PHE:O	0.409
7	A:43:PHE:CD1	A:47:ALA:O	0.408
7	A:125:TYR:O	A:129:TYR:CD2	0.408
7	A:131:LEU:CD2	A:373:LEU:HD11	0.408
7	A:143:LEU:O	A:146:PHE:CE2	0.408
7	C:88:LYS:HB2	C:206:GLY:CA	0.408
7	A:390:PHE:HD1	C:145:GLU:HB2	0.408
7	C:190:TYR:CZ	C:191:VAL:O	0.408
7	C:194:ASP:OD2	C:197:LEU:HB2	0.408
7	C:215:ASP:C	C:217:VAL:N	0.408
7	C:220:HIS:CD2	D:42:ARG:O	0.408
7	C:232:ARG:O	C:233:LYS:CG	0.408
7	C:280:LYS:CE	C:293:LYS:HE2	0.408
7	D:62:HIS:CD2	D:104:ALA:O	0.408
7	D:237:ASN:ND2	D:239:ASN:CG	0.408
7	D:289:TYR:CE1	D:293:ASN:O	0.408

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:292:PHE:CD2	D:311:HIS:O	0.408
7	D:292:PHE:CZ	D:311:HIS:HD2	0.408
7	C:281:TRP:HD1	C:283:ARG:N	0.408
7	C:59:GLN:NE2	C:82:SER:O	0.408
7	C:44:LEU:HD13	C:231:ARG:HH22	0.408
7	A:43:PHE:CZ	A:45:GLU:O	0.407
7	A:157:HIS:HA	A:160:LEU:HG	0.407
7	A:249:ILE:HA	A:249:ILE:HD12	0.407
7	A:288:LEU:C	A:288:LEU:CD2	0.407
7	A:319:LYS:NZ	A:322:ILE:HD11	0.407
7	C:12:GLN:C	C:14:ASN:H	0.407
7	C:51:SER:CB	C:91:LYS:HZ3	0.407
7	C:51:SER:H	C:87:GLU:C	0.407
7	C:214:VAL:CG1	C:373:ARG:CG	0.407
7	A:408:SER:N	C:370:GLU:CD	0.407
7	C:389:ARG:C	C:391:TYR:N	0.407
7	D:62:HIS:HD2	D:105:TYR:HB3	0.407
7	D:180:PHE:CD2	D:180:PHE:O	0.407
7	D:207:SER:HB3	F:1:MET:CE	0.407
7	F:20:ARG:C	F:21:LEU:HD23	0.407
7	F:37:TRP:CZ3	F:71:ILE:CG2	0.407
7	F:41:ALA:C	F:44:LYS:HG2	0.407
7	C:54:ASN:N	C:224:VAL:CG1	0.407

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:54:HIS:CE1	D:74:SER:OG	0.407
7	C:44:LEU:HD23	C:222:PHE:O	0.406
7	A:384:ASN:OD1	C:126:PHE:CG	0.406
7	C:183:ASP:CG	D:274:THR:CB	0.406
7	D:54:HIS:CD2	D:74:SER:OG	0.406
7	D:85:TYR:C	D:85:TYR:CD2	0.406
7	D:253:PHE:CZ	D:254:ASP:O	0.406
7	D:252:LEU:CD1	D:262:MET:HG3	0.406
7	D:286:LEU:C	D:286:LEU:CD2	0.406
7	D:50:THR:O	D:335:PHE:CZ	0.406
7	C:230:GLU:OE1	F:116:TYR:HD1	0.406
7	C:73:GLY:O	C:82:SER:N	0.406
7	C:74:GLU:HB2	C:84:SER:N	0.406
7	C:248:VAL:H	C:292:ASN:CB	0.406
7	C:308:ILE:O	F:47:GLU:HB3	0.406
7	D:261:LEU:O	D:261:LEU:HD22	0.406
7	A:18:GLU:C	A:20:ARG:N	0.405
7	A:160:LEU:C	A:160:LEU:HD12	0.405
7	A:207:PHE:CD1	A:210:MET:HE1	0.405
7	A:246:TYR:C	A:246:TYR:CD1	0.405
7	A:277:ASN:CG	A:283:TRP:HE3	0.405
7	A:331:LEU:O	A:334:ILE:HG12	0.405
7	C:38:ARG:C	C:38:ARG:CD	0.405

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:63:LEU:HD13	C:65:VAL:CG1	0.405
7	C:179:LEU:C	C:182:ILE:CG2	0.405
7	C:147:TYR:CZ	C:185:ILE:CG2	0.405
7	C:279:ASN:CB	C:280:LYS:O	0.405
7	C:280:LYS:HE2	C:293:LYS:CE	0.405
7	C:247:VAL:CB	C:292:ASN:HB3	0.405
7	D:314:ARG:CB	D:314:ARG:CZ	0.405
7	D:321:THR:HG23	D:323:ASP:H	0.405
7	F:14:GLN:HA	F:14:GLN:OE1	0.405
7	A:357:ARG:NH2	B:6:PHE:HD1	0.405
7	A:436:GLN:HE21	C:69:ASN:HD21	0.405
7	C:58:LYS:HB3	C:58:LYS:NZ	0.405
7	A:8:SER:CB	A:11:GLU:HG3	0.404
7	A:119:LEU:C	A:119:LEU:CD1	0.404
7	A:122:TYR:CE1	A:175:ASP:OD2	0.404
7	B:30:ARG:HA	B:30:ARG:HD2	0.404
7	C:58:LYS:HA	C:94:ASP:CG	0.404
7	C:96:LYS:HG3	C:99:LEU:HB3	0.404
7	C:99:LEU:HD11	C:179:LEU:CD2	0.404
7	C:131:ILE:HG12	C:354:ASP:OD2	0.404
7	C:137:VAL:HA	C:382:ILE:CA	0.404
7	C:138:PRO:CD	C:382:ILE:CG2	0.404
7	C:138:PRO:HB2	C:379:CYS:O	0.404

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:144:PRO:HA	D:333:ASP:N	0.404
7	C:55:THR:CB	C:227:GLN:HB3	0.404
7	C:142:PHE:H	C:240:ASP:HA	0.404
7	C:245:ILE:CD1	C:375:VAL:HA	0.404
7	C:208:PHE:HZ	D:39:PRO:C	0.404
7	C:208:PHE:HZ	D:40:VAL:CB	0.404
7	D:161:SER:HB3	D:165:THR:HG23	0.404
7	D:289:TYR:CD1	D:293:ASN:O	0.404
7	F:71:ILE:HD13	F:82:LEU:HD22	0.404
7	C:54:ASN:CB	C:231:ARG:HH21	0.404
7	C:177:TYR:CE2	C:232:ARG:O	0.404
7	A:126:THR:OG1	A:129:TYR:CE2	0.403
7	C:45:LEU:O	C:58:LYS:CD	0.403
7	C:61:ARG:CB	C:81:ARG:N	0.403
7	C:74:GLU:CB	C:84:SER:C	0.403
7	C:173:ASP:CG	C:300:LYS:HE2	0.403
7	C:345:PHE:CZ	C:349:SER:CB	0.403
7	D:6:GLN:CA	D:6:GLN:NE2	0.403
7	D:119:ASN:ND2	D:144:GLY:C	0.403
7	D:155:ASN:ND2	D:172:GLU:HG2	0.403
7	D:241:PHE:CE1	D:253:PHE:CB	0.403
7	D:57:LYS:CB	D:332:TRP:CE3	0.403
7	E:21:MET:HB3	E:21:MET:HE3	0.403

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:305:LYS:CE	F:110:ASP:C	0.403
7	F:87:LEU:HD12	F:127:VAL:CG2	0.403
7	A:320:THR:CG2	A:321:ASP:N	0.403
7	A:431:TYR:HB2	A:432:THR:H	0.403
7	C:177:TYR:O	C:232:ARG:NE	0.403
7	C:272:LEU:HD13	D:35:ASN:ND2	0.403
7	C:230:GLU:OE1	F:116:TYR:CD1	0.403
7	C:271:LYS:O	C:275:SER:N	0.403
7	A:27:LEU:C	A:27:LEU:CD1	0.402
7	A:121:LEU:C	A:121:LEU:CD2	0.402
7	A:126:THR:HB	A:129:TYR:HE2	0.402
7	A:155:TYR:C	A:155:TYR:CD1	0.402
7	A:325:ARG:C	A:327:ALA:N	0.402
7	A:406:ARG:CA	A:415:CYS:HB3	0.402
7	C:45:LEU:HD13	C:59:GLN:OE1	0.402
7	C:142:PHE:HE1	C:146:PHE:CB	0.402
7	C:147:TYR:CE1	C:186:LYS:HE2	0.402
7	C:170:GLN:HB2	C:347:ARG:C	0.402
7	C:300:LYS:CA	C:300:LYS:CE	0.402
7	C:30:LEU:CD2	D:47:THR:C	0.402
7	E:56:ALA:HB1	E:59:ASN:CA	0.402
7	F:38:VAL:CG2	F:46:LEU:HB3	0.402
7	F:116:TYR:CD2	F:117:ALA:O	0.402

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	C:90:THR:CB	C:222:PHE:N	0.402
7	C:295:ASP:OD1	C:296:LEU:N	0.402
7	C:50:GLU:OE2	D:38:ASP:N	0.402
7	C:23:ASN:HD21	D:48:ARG:HH12	0.402
7	D:304:ARG:HD3	E:56:ALA:N	0.402
7	F:44:LYS:NZ	F:47:GLU:CD	0.402
7	A:222:LEU:HB2	A:297:ASN:OD1	0.402
7	D:145:TYR:CE1	D:146:LEU:O	0.402
7	D:338:ILE:O	D:339:TRP:HB3	0.402
7	D:33:ILE:HB	E:3:SER:OG	0.402
7	A:31:PRO:CB	A:32:PRO:CD	0.401
7	B:22:PHE:CE2	B:26:LEU:CD1	0.401
7	C:24:LYS:HA	C:27:GLU:HB3	0.401
7	C:56:ILE:HA	C:56:ILE:HD13	0.401
7	C:74:GLU:CA	C:81:ARG:C	0.401
7	C:92:VAL:C	C:238:PHE:N	0.401
7	C:136:ASN:C	C:137:VAL:CG2	0.401
7	C:185:ILE:HA	C:236:GLN:CB	0.401
7	D:42:ARG:C	D:43:ILE:HG12	0.401
7	C:23:ASN:OD1	D:89:LYS:HG3	0.401
7	D:151:PHE:CD2	D:152:LEU:N	0.401
7	D:194:PRO:CG	D:195:ASP:N	0.401
7	D:308:LEU:C	D:308:LEU:CD2	0.401

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	E:37:LEU:C	E:37:LEU:CD2	0.401
7	C:163:TYR:HE1	F:106:ARG:CZ	0.401
7	A:13:VAL:HG13	A:14:GLN:N	0.401
7	A:111:ARG:C	A:111:ARG:NE	0.401
7	C:246:PHE:HE1	C:294:GLN:HE21	0.401
7	D:52:ARG:NH1	D:335:PHE:CE2	0.401
7	C:135:MET:O	C:137:VAL:CG2	0.401
7	C:360:TYR:CE2	C:381:ASP:OD2	0.401
7	D:189:SER:OG	D:231:ALA:HA	0.401
7	A:178:LEU:O	A:182:TYR:CE1	0.400
7	A:294:ILE:HG13	A:295:GLY:N	0.400
7	C:50:GLU:CD	C:50:GLU:N	0.400
7	A:320:THR:HA	C:135:MET:HE1	0.400
7	C:207:ILE:HG12	C:208:PHE:O	0.400
7	C:373:ARG:HA	C:376:PHE:CB	0.400
7	D:107:PRO:HG2	D:151:PHE:CD2	0.400
7	D:285:LEU:C	D:285:LEU:CD1	0.400
7	F:7:GLU:CG	F:8:SER:N	0.400
7	F:36:ASN:C	F:36:ASN:ND2	0.400
7	C:47:GLY:O	C:225:GLY:HA3	0.400
7	C:159:VAL:O	C:160:ARG:CG	0.400
7	C:231:ARG:O	C:232:ARG:C	0.400
7	C:246:PHE:CB	C:288:ILE:O	0.400

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	D:145:TYR:CZ	D:146:LEU:O	0.400

Torsion angles: Protein backbone?

In the following table, Ramachandran outliers are listed. The Analysed column shows the number of residues for which the backbone conformation was analysed.

Model ID	Analyzed	Favored	Allowed	Outliers
1	1393	1090	186	117
2	1393	1059	196	138
3	1393	1075	179	139
4	1393	1105	165	123
5	1393	1018	211	164
6	1393	1085	188	120
7	1393	1033	221	139

Detailed list of outliers are tabulated below.

Torsion angles: Protein sidechains?

In the following table, sidechain outliers are listed. The Analysed column shows the number of residues for which the sidechain conformation was analysed.

Model ID	Analyzed	Favored	Allowed	Outliers
1	1212	1040	98	74
2	1212	1032	86	94
3	1212	1037	115	60
4	1212	1024	99	89
5	1212	993	104	115
6	1212	1035	96	81
7	1212	1025	106	81

Detailed list of outliers are tabulated below.

Model ID	Chain	Residue ID	Residue type
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Model ID	Chain	Residue ID	Residue type
1	A	59	ASN
1	A	66	LEU
1	A	100	LEU
1	A	156	ILE
1	A	160	LEU
1	A	190	GLN
1	A	195	LEU
1	A	209	LEU
1	A	221	LEU
1	A	222	LEU
1	A	290	ILE
1	A	291	LEU
1	A	299	LEU
1	A	311	LYS
1	A	316	LEU
1	A	326	LEU
1	A	333	LEU
1	A	373	LEU
1	A	399	LEU
1	A	417	THR
1	C	8	LYS
1	C	14	ASN
1	C	59	GLN

Model ID	Chain	Residue ID	Residue type
1	C	83	ASN
1	C	88	LYS
1	C	91	LYS
1	C	95	ILE
1	C	99	LEU
1	C	103	ILE
1	C	121	ASN
1	C	163	TYR
1	C	171	LEU
1	C	176	GLN
1	C	179	LEU
1	C	182	ILE
1	C	184	VAL
1	C	198	LEU
1	C	201	ARG
1	C	202	VAL
1	C	207	ILE
1	C	208	PHE
1	C	210	THR
1	C	235	ILE
1	C	247	VAL
1	C	254	ASN
1	C	278	ASN

Model ID	Chain	Residue ID	Residue type
1	C	282	LEU
1	C	293	LYS
1	C	301	VAL
1	C	373	ARG
1	D	7	LEU
1	D	30	LEU
1	D	57	LYS
1	D	69	LEU
1	D	70	LEU
1	D	93	ILE
1	D	139	LEU
1	D	145	TYR
1	D	190	LEU
1	D	192	LEU
1	D	252	LEU
1	D	261	LEU
1	D	284	LEU
1	D	289	TYR
1	D	301	LYS
1	D	318	LEU
1	E	19	LEU
1	E	49	PRO
1	E	50	LEU

Model ID	Chain	Residue ID	Residue type
1	F	71	ILE
1	F	73	ARG
1	F	80	LEU
1	F	87	LEU
1	F	99	ARG
2	A	27	LEU
2	A	37	LEU
2	A	66	LEU
2	A	100	LEU
2	A	108	ARG
2	A	142	ILE
2	A	147	ARG
2	A	195	LEU
2	A	201	LEU
2	A	205	LEU
2	A	208	LEU
2	A	222	LEU
2	A	232	LEU
2	A	267	LEU
2	A	284	LEU
2	A	285	ILE
2	A	291	LEU
2	A	299	LEU

Model ID	Chain	Residue ID	Residue type
2	A	333	LEU
2	A	343	ILE
2	A	357	ARG
2	A	373	LEU
2	A	378	LEU
2	A	399	LEU
2	A	405	GLN
2	A	406	ARG
2	A	431	TYR
2	B	14	LEU
2	B	28	LYS
2	C	36	VAL
2	C	44	LEU
2	C	46	LEU
2	C	50	GLU
2	C	74	GLU
2	C	99	LEU
2	C	103	ILE
2	C	113	LEU
2	C	171	LEU
2	C	172	ILE
2	C	177	TYR
2	C	181	LYS

Model ID	Chain	Residue ID	Residue type
2	C	182	ILE
2	C	184	VAL
2	C	186	LYS
2	C	197	LEU
2	C	200	CYS
2	C	201	ARG
2	C	202	VAL
2	C	223	ASP
2	C	244	ILE
2	C	259	GLU
2	C	265	ARG
2	C	270	LEU
2	C	272	LEU
2	C	288	ILE
2	C	291	LEU
2	C	292	ASN
2	C	293	LYS
2	C	296	LEU
2	C	300	LYS
2	C	330	GLU
2	C	392	GLU
2	C	393	LEU
2	D	6	GLN

Model ID	Chain	Residue ID	Residue type
2	D	51	LEU
2	D	69	LEU
2	D	78	LYS
2	D	79	LEU
2	D	80	ILE
2	D	81	ILE
2	D	117	LEU
2	D	126	LEU
2	D	139	LEU
2	D	146	LEU
2	D	157	ILE
2	D	190	LEU
2	D	197	ARG
2	D	252	LEU
2	D	269	ILE
2	D	284	LEU
2	D	285	LEU
2	D	336	LEU
2	E	15	LEU
2	E	25	ILE
2	E	32	LYS
2	E	37	LEU
2	E	51	LEU

Model ID	Chain	Residue ID	Residue type
2	E	71	LEU
2	F	2	GLN
2	F	5	LEU
2	F	46	LEU
2	F	59	ILE
2	F	73	ARG
2	F	80	LEU
3	A	27	LEU
3	A	66	LEU
3	A	86	LEU
3	A	88	LEU
3	A	95	LEU
3	A	117	GLN
3	A	118	LEU
3	A	144	LEU
3	A	166	LEU
3	A	167	ARG
3	A	222	LEU
3	A	265	LYS
3	A	290	ILE
3	A	311	LYS
3	A	313	LYS
3	A	326	LEU

Model ID	Chain	Residue ID	Residue type
3	A	384	ASN
3	A	392	LYS
3	A	420	LEU
3	C	56	ILE
3	C	82	SER
3	C	91	LYS
3	C	95	ILE
3	C	112	ASN
3	C	119	LEU
3	C	180	ASP
3	C	197	LEU
3	C	201	ARG
3	C	224	VAL
3	C	239	ASN
3	C	270	LEU
3	C	272	LEU
3	C	282	LEU
3	C	296	LEU
3	C	305	LYS
3	C	348	ILE
3	C	382	ILE
3	D	20	ASP
3	D	30	LEU

Model ID	Chain	Residue ID	Residue type
3	D	111	TYR
3	D	123	ILE
3	D	138	GLU
3	D	139	LEU
3	D	198	LEU
3	D	252	LEU
3	D	261	LEU
3	D	285	LEU
3	D	301	LYS
3	D	308	LEU
3	D	318	LEU
3	E	50	LEU
3	E	58	GLU
3	E	64	LYS
3	E	65	LYS
3	F	21	LEU
3	F	59	ILE
3	F	66	LYS
3	F	73	ARG
3	F	80	LEU
3	F	87	LEU
4	A	37	LEU
4	A	41	ARG

Model ID	Chain	Residue ID	Residue type
4	A	66	LEU
4	A	86	LEU
4	A	95	LEU
4	A	117	GLN
4	A	124	ILE
4	A	143	LEU
4	A	169	LEU
4	A	194	LEU
4	A	205	LEU
4	A	221	LEU
4	A	222	LEU
4	A	245	LEU
4	A	299	LEU
4	A	313	LYS
4	A	319	LYS
4	A	325	ARG
4	A	336	LEU
4	A	356	LEU
4	A	361	LEU
4	A	365	LEU
4	A	373	LEU
4	A	392	LYS
4	A	398	ARG

Model ID	Chain	Residue ID	Residue type
4	A	406	ARG
4	B	28	LYS
4	C	25	LYS
4	C	43	LEU
4	C	46	LEU
4	C	54	ASN
4	C	55	THR
4	C	56	ILE
4	C	60	MET
4	C	82	SER
4	C	84	SER
4	C	91	LYS
4	C	94	ASP
4	C	95	ILE
4	C	99	LEU
4	C	115	PRO
4	C	171	LEU
4	C	180	ASP
4	C	181	LYS
4	C	185	ILE
4	C	191	VAL
4	C	198	LEU
4	C	207	ILE

Model ID	Chain	Residue ID	Residue type
4	C	246	PHE
4	C	247	VAL
4	C	254	ASN
4	C	265	ARG
4	C	270	LEU
4	C	271	LYS
4	C	280	LYS
4	C	282	LEU
4	C	288	ILE
4	C	294	GLN
4	C	299	GLU
4	C	302	LEU
4	C	317	ARG
4	C	394	LEU
4	D	79	LEU
4	D	120	ILE
4	D	123	ILE
4	D	186	ASP
4	D	190	LEU
4	D	192	LEU
4	D	197	ARG
4	D	198	LEU
4	D	209	LYS

Model ID	Chain	Residue ID	Residue type
4	D	252	LEU
4	D	270	ILE
4	D	273	ILE
4	D	293	ASN
4	D	325	MET
4	E	9	ILE
4	E	65	LYS
4	F	5	LEU
4	F	12	LEU
4	F	19	LEU
4	F	35	MET
4	F	36	ASN
4	F	46	LEU
4	F	71	ILE
4	F	82	LEU
4	F	88	LYS
4	F	92	THR
4	F	111	VAL
5	A	9	LEU
5	A	15	LYS
5	A	40	ASN
5	A	66	LEU
5	A	74	GLN

Model ID	Chain	Residue ID	Residue type
5	A	100	LEU
5	A	121	LEU
5	A	136	LEU
5	A	156	ILE
5	A	158	LEU
5	A	160	LEU
5	A	181	MET
5	A	182	TYR
5	A	194	LEU
5	A	221	LEU
5	A	312	LEU
5	A	328	LYS
5	A	336	LEU
5	A	356	LEU
5	A	364	GLU
5	A	365	LEU
5	A	373	LEU
5	A	388	LEU
5	A	404	ILE
5	A	413	LEU
5	A	414	LYS
5	A	420	LEU
5	B	3	GLU

Model ID	Chain	Residue ID	Residue type
5	C	30	LEU
5	C	43	LEU
5	C	44	LEU
5	C	51	SER
5	C	57	VAL
5	C	58	LYS
5	C	88	LYS
5	C	90	THR
5	C	91	LYS
5	C	92	VAL
5	C	97	ASN
5	C	99	LEU
5	C	113	LEU
5	C	143	PRO
5	C	147	TYR
5	C	164	GLU
5	C	171	LEU
5	C	181	LYS
5	C	182	ILE
5	C	184	VAL
5	C	197	LEU
5	C	210	THR
5	C	211	LYS

Model ID	Chain	Residue ID	Residue type
5	C	216	LYS
5	C	227	GLN
5	C	230	GLU
5	C	231	ARG
5	C	232	ARG
5	C	235	ILE
5	C	244	ILE
5	C	247	VAL
5	C	257	ILE
5	C	266	LEU
5	C	272	LEU
5	C	282	LEU
5	C	283	ARG
5	C	289	LEU
5	C	291	LEU
5	C	297	LEU
5	C	299	GLU
5	C	300	LYS
5	C	305	LYS
5	C	307	LYS
5	C	348	ILE
5	C	371	ASN
5	C	372	ILE

Model ID	Chain	Residue ID	Residue type
5	C	388	LEU
5	C	394	LEU
5	D	1	MET
5	D	3	GLU
5	D	4	LEU
5	D	7	LEU
5	D	8	ARG
5	D	23	LYS
5	D	43	ILE
5	D	52	ARG
5	D	61	MET
5	D	69	LEU
5	D	70	LEU
5	D	95	LEU
5	D	99	TRP
5	D	117	LEU
5	D	126	LEU
5	D	145	TYR
5	D	146	LEU
5	D	168	LEU
5	D	192	LEU
5	D	198	LEU
5	D	271	CYS

Model ID	Chain	Residue ID	Residue type
5	D	284	LEU
5	D	285	LEU
5	D	300	LEU
5	E	1	MET
5	E	15	LEU
5	F	4	GLN
5	F	19	LEU
5	F	33	TYR
5	F	38	VAL
5	F	40	GLN
5	F	52	ILE
5	F	71	ILE
5	F	87	LEU
5	F	94	VAL
5	F	99	ARG
5	F	108	CYS
5	F	110	ASP
5	F	116	TYR
6	A	41	ARG
6	A	66	LEU
6	A	90	LYS
6	A	166	LEU
6	A	194	LEU

Model ID	Chain	Residue ID	Residue type
6	A	195	LEU
6	A	201	LEU
6	A	205	LEU
6	A	208	LEU
6	A	209	LEU
6	A	211	GLN
6	A	221	LEU
6	A	222	LEU
6	A	263	ILE
6	A	276	ARG
6	A	288	LEU
6	A	311	LYS
6	A	319	LYS
6	A	326	LEU
6	A	331	LEU
6	A	333	LEU
6	A	334	ILE
6	A	336	LEU
6	A	373	LEU
6	A	374	MET
6	A	399	LEU
6	A	411	LYS
6	A	434	THR

Model ID	Chain	Residue ID	Residue type
6	B	3	GLU
6	C	3	CYS
6	C	16	GLU
6	C	56	ILE
6	C	57	VAL
6	C	59	GLN
6	C	99	LEU
6	C	119	LEU
6	C	127	ARG
6	C	132	LEU
6	C	159	VAL
6	C	181	LYS
6	C	207	ILE
6	C	227	GLN
6	C	232	ARG
6	C	244	ILE
6	C	245	ILE
6	C	265	ARG
6	C	270	LEU
6	C	272	LEU
6	C	291	LEU
6	C	297	LEU
6	C	301	VAL

Model ID	Chain	Residue ID	Residue type
6	C	302	LEU
6	C	385	ARG
6	C	388	LEU
6	C	394	LEU
6	D	4	LEU
6	D	69	LEU
6	D	89	LYS
6	D	101	MET
6	D	146	LEU
6	D	157	ILE
6	D	190	LEU
6	D	210	LEU
6	D	251	ARG
6	D	284	LEU
6	D	285	LEU
6	D	295	ASN
6	D	337	LYS
6	E	9	ILE
6	E	37	LEU
6	E	46	LYS
6	E	58	GLU
6	E	64	LYS
6	F	19	LEU

Model ID	Chain	Residue ID	Residue type
6	F	44	LYS
6	F	59	ILE
6	F	73	ARG
6	F	80	LEU
6	F	82	LEU
6	F	99	ARG
6	F	106	ARG
7	A	66	LEU
7	A	111	ARG
7	A	121	LEU
7	A	131	LEU
7	A	149	LEU
7	A	160	LEU
7	A	195	LEU
7	A	209	LEU
7	A	222	LEU
7	A	226	VAL
7	A	290	ILE
7	A	291	LEU
7	A	331	LEU
7	A	343	ILE
7	A	394	TRP
7	A	401	HIS

Model ID	Chain	Residue ID	Residue type
7	A	436	GLN
7	B	14	LEU
7	B	28	LYS
7	C	30	LEU
7	C	43	LEU
7	C	44	LEU
7	C	46	LEU
7	C	50	GLU
7	C	58	LYS
7	C	60	MET
7	C	69	ASN
7	C	91	LYS
7	C	93	GLN
7	C	94	ASP
7	C	98	ASN
7	C	127	ARG
7	C	138	PRO
7	C	148	GLU
7	C	170	GLN
7	C	181	LYS
7	C	185	ILE
7	C	198	LEU
7	C	222	PHE

Model ID	Chain	Residue ID	Residue type
7	C	224	VAL
7	C	232	ARG
7	C	235	ILE
7	C	238	PHE
7	C	240	ASP
7	C	241	VAL
7	C	247	VAL
7	C	248	VAL
7	C	266	LEU
7	C	270	LEU
7	C	282	LEU
7	C	288	ILE
7	C	289	LEU
7	C	293	LYS
7	C	297	LEU
7	C	300	LYS
7	C	383	ILE
7	D	15	LYS
7	D	44	GLN
7	D	55	LEU
7	D	57	LYS
7	D	69	LEU
7	D	79	LEU

Model ID	Chain	Residue ID	Residue type
7	D	89	LYS
7	D	126	LEU
7	D	139	LEU
7	D	152	LEU
7	D	171	ILE
7	D	190	LEU
7	D	198	LEU
7	D	210	LEU
7	D	252	LEU
7	D	259	GLN
7	D	260	GLU
7	D	261	LEU
7	D	284	LEU
7	D	286	LEU
7	E	11	GLN
7	E	65	LYS
7	F	5	LEU
7	F	78	ASN
7	F	110	ASP

Fit of model to data used for modeling ?

Crosslinking-MS

Validation for this section is under development.

Fit of model to data used for validation

Validation for this section is under development.

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