

# Integrative Structure Validation Report

July 22, 2024 - 05:32 PM 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	9A43
PDB-Dev ID	PDBDEV_00000224
Structure Title	Man5 fully-glycosylated model of mouse N-cadherin EC4-EC5
Structure Authors	Tsai, Y.-X.; Chang, H.-T.; Wang, Y.-S.; Hsu, M.-F.; Hanus, C.; Sikora, M.; Hsu, S.-T.D.

*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](mailto:pdb-dev@mail.wwpdb.org)*

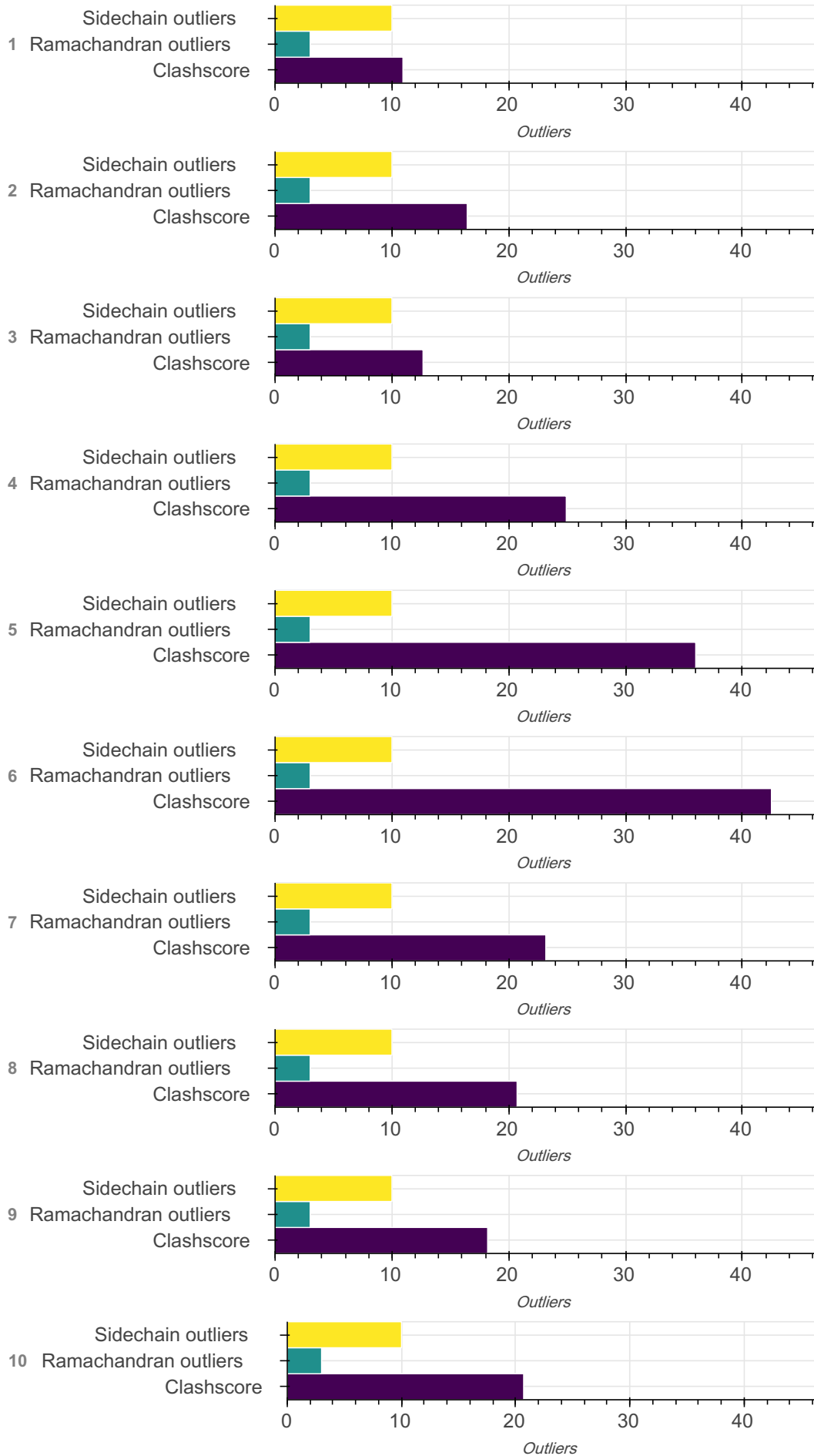
*A user guide is available at [https://pdb-dev.wwpdb.org/validation\\_help.html](https://pdb-dev.wwpdb.org/validation_help.html) with specific help available everywhere you see the  symbol.*

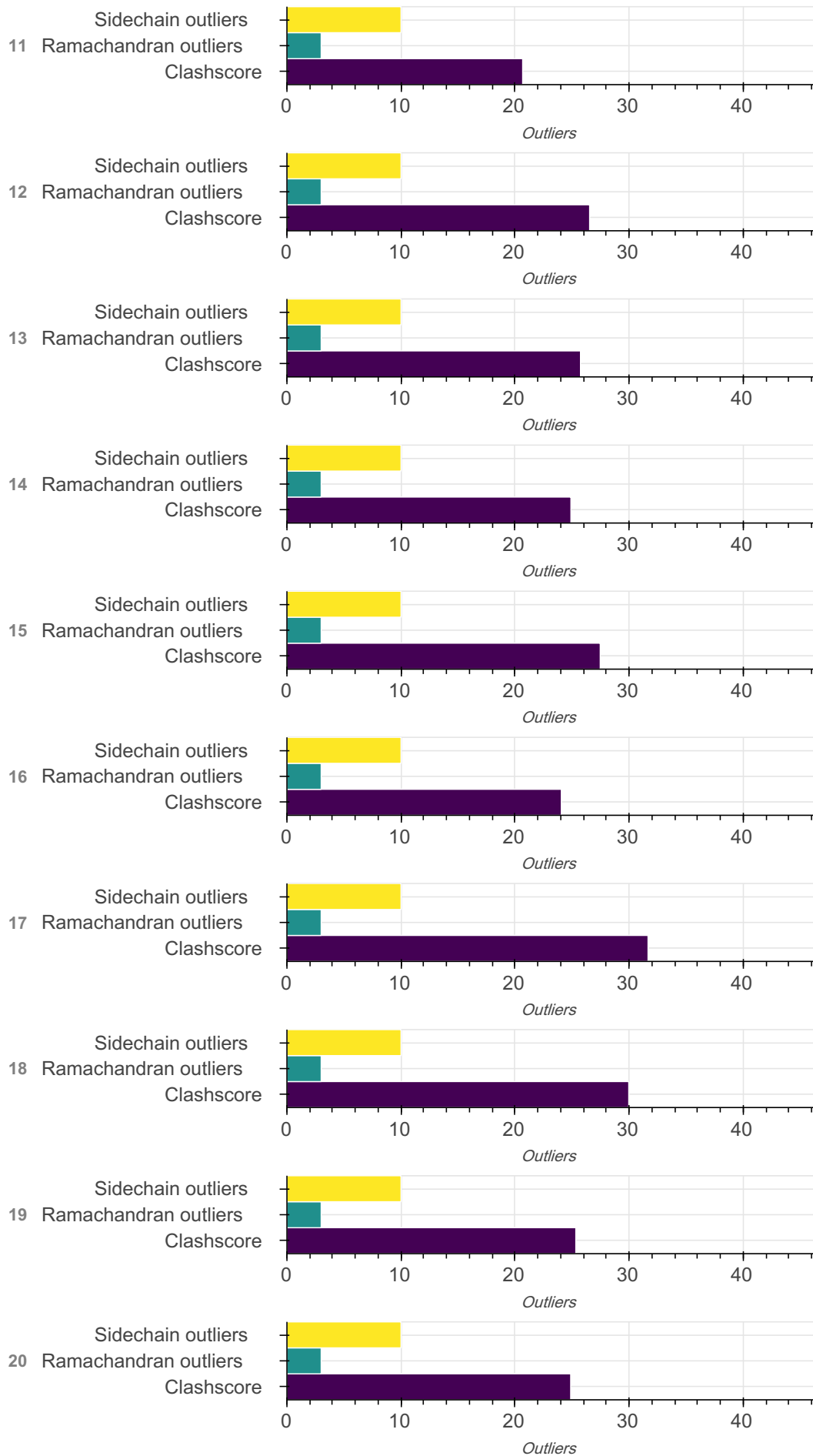
*List of references used to build this report is available [here](#).*

## 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 20 unique models, with 5 subunits in each model. A total of 2 datasets or restraints were used to build this entry. Each model is represented by 0 rigid bodies and 5 flexible or non-rigid units.*

## Entry composition

*There are 20 unique types of models in this entry. These models are titled None, None, None, None, None, None, None, None, None, None, None, None, None, 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	Cadherin-2	A	A	211
1	2	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	7
1	3	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	7
1	4	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	7

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
1	5	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	7
2	1	1	Cadherin-2	A	A	211
2	2	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	7
2	3	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	7
2	4	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	7
2	5	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	7
3	1	1	Cadherin-2	A	A	211

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
3	2	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	7
3	3	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	7
3	4	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	7
3	5	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	7
4	1	1	Cadherin-2	A	A	211
4	2	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	7

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	3	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	7
4	4	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	7
4	5	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	7
5	1	1	Cadherin-2	A	A	211
5	2	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	7
5	3	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	7

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	4	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	7
5	5	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	7
6	1	1	Cadherin-2	A	A	211
6	2	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	7
6	3	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	7
6	4	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	7



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	5	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	7
7	1	1	Cadherin-2	A	A	211
7	2	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	7
7	3	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	7
7	4	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	7
7	5	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	7
8	1	1	Cadherin-2	A	A	211

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
8	2	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	7
8	3	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	7
8	4	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	7
8	5	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	7
9	1	1	Cadherin-2	A	A	211
9	2	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	7

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
9	3	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	7
9	4	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	7
9	5	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	7
10	1	1	Cadherin-2	A	A	211
10	2	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	7
10	3	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	7

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
10	4	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	7
10	5	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	7
11	1	1	Cadherin-2	A	A	211
11	2	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	7
11	3	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	7
11	4	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	7

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
11	5	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	7
12	1	1	Cadherin-2	A	A	211
12	2	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	7
12	3	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	7
12	4	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	7
12	5	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	7
13	1	1	Cadherin-2	A	A	211

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
13	2	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	7
13	3	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	7
13	4	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	7
13	5	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	7
14	1	1	Cadherin-2	A	A	211
14	2	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	7

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
14	3	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	7
14	4	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	7
14	5	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	7
15	1	1	Cadherin-2	A	A	211
15	2	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	7
15	3	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	7

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
15	4	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	7
15	5	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	7
16	1	1	Cadherin-2	A	A	211
16	2	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	7
16	3	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	7
16	4	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	7



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
16	5	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	7
17	1	1	Cadherin-2	A	A	211
17	2	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	7
17	3	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	7
17	4	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	7
17	5	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	7
18	1	1	Cadherin-2	A	A	211

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
18	2	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	7
18	3	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	7
18	4	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	7
18	5	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	7
19	1	1	Cadherin-2	A	A	211
19	2	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	7

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
19	3	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	7
19	4	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	7
19	5	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	7
20	1	1	Cadherin-2	A	A	211
20	2	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	7
20	3	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	7

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
20	4	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	7
20	5	2	alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	7

### Datasets used for modeling

There are 2 unique datasets used to build the models in this entry.

ID	Dataset type	Database name	Data access code
1	SAS data	SASBDB	SASDT45
2	Other	PDB	3Q2W

### Representation

This entry has only one representation and includes 0 rigid bodies and 5 flexible units

Chain ID	Rigid bodies	Non-rigid segments
A	-	1-211
B	-	1-7
C	-	1-7
D	-	1-7

Chain ID	Rigid bodies	Non-rigid segments
E	-	1-7

## 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	Use GlycoSHIELD, the tool we have developed, to graft MD-simulated glycan ensemble onto the ectodomains 4 to 5 of x-ray protein structure (PDB ID: 3Q2W).	None	None	20	False	False

*There are 3 software packages reported in this entry.*

ID	Software name	Software version	Software classification	Software location
1	<a href="#">GlycoSHIELD</a>	Not available	model building	<a href="https://github.com/GlycoSHIELD-MD/GlycoSHIELD-MD">https://github.com/GlycoSHIELD-MD/GlycoSHIELD-MD</a>
2	<a href="#">GASBOR</a>	Not available	model building	<a href="https://www.embl-hamburg.de/biosaxs/gasbor.html">https://www.embl-hamburg.de/biosaxs/gasbor.html</a>
3	<a href="#">FoXSDock</a>	Not available	data analysis	<a href="https://modbase.compbio.ucsf.edu/foxsdock/">https://modbase.compbio.ucsf.edu/foxsdock/</a>

## Data quality ?

### SAS:Scattering profile

SAS data used in this integrative model could not be validated as the sascif file is currently unavailable.

## Model quality ?

For models with atomic structures, molprobit 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 71 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
N-CA-CB	110.50	90.63	20
N-CA-C	111.00	133.93	20
C3-C4-O4	107.29	125.39	1
C3-C4-O4	107.29	125.01	1
C3-C4-O4	107.29	124.85	1
C3-C4-O4	107.29	124.74	1
C5-C4-O4	111.70	95.21	1
C5-C4-O4	111.70	95.46	1
C5-C4-O4	111.70	95.49	1
C3-C4-O4	107.29	121.78	1
C3-C4-O4	107.29	121.32	1
C3-C4-O4	107.29	121.30	1
C5-C4-O4	111.70	98.43	1
C5-C4-O4	111.70	98.51	1
C5-C4-O4	111.70	98.63	1
C3-C4-O4	107.29	120.24	1
C5-C4-O4	111.70	98.76	1
C2-C3-O3	107.58	120.49	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C2-C3-O3	107.58	120.46	1
C2-C3-O3	107.58	120.40	1
C3-C4-O4	107.29	119.94	1
C2-C3-O3	107.58	120.11	1
C3-C4-O4	107.29	119.80	1
C5-C4-O4	111.70	99.22	1
C3-C4-O4	107.29	119.74	1
C5-C4-O4	111.70	99.32	2
C1-O5-C5	118.82	106.47	1
C1-O5-C5	118.82	106.54	1
C1-O5-C5	118.82	106.64	1
C6-C5-O5	108.73	96.64	1
C1-O5-C5	118.82	106.80	1
C1-O5-C5	118.82	106.81	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	10.94	26
2	16.44	39
3	12.66	30
4	24.92	59
5	36.00	85

Model ID	Clash score	Number of clashes
6	42.48	100
7	23.17	55
8	20.71	49
9	18.19	43
10	20.69	49
11	20.66	49
12	26.53	63
13	25.73	61
14	24.89	59
15	27.46	65
16	24.05	57
17	31.65	75
18	29.96	71
19	25.32	60
20	24.87	59

All 1154 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	A:133:ASN:ND2	C:1:NAG:C1	1.266
1	A:133:ASN:HD22	C:1:NAG:C1	1.081
1	A:171:ASP:OD2	A:172:PHE:HD2	0.833
1	A:169:ASN:H	A:169:ASN:HD22	0.765
1	A:169:ASN:HD21	A:172:PHE:HB2	0.763
1	A:171:ASP:OD2	A:172:PHE:CD2	0.756



Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:168:LEU:HB2	A:172:PHE:O	0.691
1	A:169:ASN:N	A:169:ASN:ND2	0.674
1	A:169:ASN:H	A:169:ASN:ND2	0.671
1	A:11:ASN:HB3	A:12:PRO:HD3	0.610
1	A:79:ASN:HD22	A:80:ASN:H	0.592
1	A:117:LEU:HB3	A:118:PRO:HD3	0.591
1	A:61:ASN:HB3	A:63:GLN:HG3	0.560
1	A:181:PHE:CB	D:1:NAG:O6	0.552
1	A:158:THR:HG22	A:161:ARG:NH2	0.547
1	A:29:THR:HG22	A:63:GLN:HG2	0.536
1	A:169:ASN:N	A:169:ASN:HD22	0.499
1	A:93:ILE:HB	A:94:PRO:HD3	0.477
1	A:198:PRO:HA	A:199:PRO:HD3	0.457
1	A:11:ASN:CB	A:12:PRO:HD3	0.441
1	A:155:SER:HA	A:156:PRO:C	0.435
1	A:56:LYS:HD2	A:67:ILE:HD11	0.433
1	A:197:ASN:HA	A:198:PRO:C	0.427
1	A:48:LEU:HD12	A:87:LEU:HG	0.421
1	A:93:ILE:O	A:95:PRO:HD3	0.411
1	A:133:ASN:HD21	C:1:NAG:C1	0.407
2	A:133:ASN:ND2	C:1:NAG:C1	1.444
2	A:79:ASN:OD1	B:2:NAG:CT	1.338
2	A:133:ASN:ND2	C:1:NAG:O5	1.257

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:181:PHE:O	D:1:NAG:CT	1.054
2	A:133:ASN:CG	C:1:NAG:C1	0.907
2	A:133:ASN:HD21	C:1:NAG:C1	0.874
2	A:130:ASN:OD1	C:1:NAG:O5	0.835
2	A:171:ASP:OD2	A:172:PHE:HD2	0.833
2	A:151:ASP:OD2	E:1:NAG:O	0.766
2	A:169:ASN:H	A:169:ASN:HD22	0.765
2	A:169:ASN:HD21	A:172:PHE:HB2	0.763
2	A:171:ASP:OD2	A:172:PHE:CD2	0.756
2	A:79:ASN:OD1	B:2:NAG:C	0.749
2	A:168:LEU:HD21	C:1:NAG:C2	0.728
2	A:83:ASN:CG	B:1:NAG:C1	0.725
2	A:168:LEU:HB2	A:172:PHE:O	0.691
2	A:83:ASN:ND2	B:1:NAG:O5	0.685
2	A:169:ASN:N	A:169:ASN:ND2	0.674
2	A:169:ASN:H	A:169:ASN:ND2	0.671
2	A:130:ASN:OD1	C:1:NAG:H4	0.666
2	A:130:ASN:OD1	C:1:NAG:C4	0.645
2	A:11:ASN:HB3	A:12:PRO:HD3	0.610
2	A:79:ASN:HD22	A:80:ASN:H	0.592
2	A:117:LEU:HB3	A:118:PRO:HD3	0.591
2	A:61:ASN:HB3	A:63:GLN:HG3	0.560
2	A:158:THR:HG22	A:161:ARG:NH2	0.547

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:29:THR:HG22	A:63:GLN:HG2	0.536
2	A:169:ASN:N	A:169:ASN:HD22	0.499
2	A:83:ASN:ND2	B:1:NAG:C1	0.495
2	A:93:ILE:HB	A:94:PRO:HD3	0.477
2	A:83:ASN:OD1	B:1:NAG:C1	0.459
2	A:198:PRO:HA	A:199:PRO:HD3	0.457
2	A:11:ASN:CB	A:12:PRO:HD3	0.441
2	A:155:SER:HA	A:156:PRO:C	0.435
2	A:56:LYS:HD2	A:67:ILE:HD11	0.433
2	A:181:PHE:N	D:1:NAG:CT	0.430
2	A:197:ASN:HA	A:198:PRO:C	0.427
2	A:48:LEU:HD12	A:87:LEU:HG	0.421
2	A:93:ILE:O	A:95:PRO:HD3	0.411
3	A:182:GLU:OE1	D:7:MAN:H5	1.033
3	A:181:PHE:CB	D:1:NAG:O6	0.857
3	A:171:ASP:OD2	A:172:PHE:HD2	0.833
3	A:169:ASN:H	A:169:ASN:HD22	0.765
3	A:169:ASN:HD21	A:172:PHE:HB2	0.763
3	A:171:ASP:OD2	A:172:PHE:CD2	0.756
3	A:181:PHE:N	D:1:NAG:O6	0.697
3	A:168:LEU:HB2	A:172:PHE:O	0.691
3	A:182:GLU:OE1	D:7:MAN:C5	0.679
3	A:169:ASN:N	A:169:ASN:ND2	0.674

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:169:ASN:H	A:169:ASN:ND2	0.671
3	A:11:ASN:HB3	A:12:PRO:HD3	0.610
3	A:79:ASN:HD22	A:80:ASN:H	0.592
3	A:117:LEU:HB3	A:118:PRO:HD3	0.591
3	A:133:ASN:ND2	C:1:NAG:C1	0.563
3	A:61:ASN:HB3	A:63:GLN:HG3	0.560
3	A:158:THR:HG22	A:161:ARG:NH2	0.547
3	A:29:THR:HG22	A:63:GLN:HG2	0.536
3	A:182:GLU:OE1	D:7:MAN:C6	0.510
3	A:169:ASN:N	A:169:ASN:HD22	0.499
3	A:93:ILE:HB	A:94:PRO:HD3	0.477
3	A:181:PHE:CA	D:1:NAG:O6	0.466
3	A:198:PRO:HA	A:199:PRO:HD3	0.457
3	A:181:PHE:CB	D:2:NAG:C1	0.443
3	A:11:ASN:CB	A:12:PRO:HD3	0.441
3	A:155:SER:HA	A:156:PRO:C	0.435
3	A:56:LYS:HD2	A:67:ILE:HD11	0.433
3	A:197:ASN:HA	A:198:PRO:C	0.427
3	A:48:LEU:HD12	A:87:LEU:HG	0.421
3	A:93:ILE:O	A:95:PRO:HD3	0.411
4	A:155:SER:OG	E:3:BMA:C1	1.370
4	A:155:SER:CB	E:3:BMA:H5	1.352
4	A:155:SER:HB2	E:3:BMA:C5	1.142

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:156:PRO:N	E:3:BMA:H62	0.925
4	A:156:PRO:CD	E:3:BMA:H62	0.861
4	A:155:SER:CB	E:3:BMA:C5	0.846
4	A:172:PHE:CG	C:1:NAG:H3	0.836
4	A:171:ASP:OD2	A:172:PHE:HD2	0.833
4	A:155:SER:HB2	E:3:BMA:H5	0.812
4	A:169:ASN:H	A:169:ASN:HD22	0.765
4	A:169:ASN:HD21	A:172:PHE:HB2	0.763
4	A:171:ASP:OD2	A:172:PHE:CD2	0.756
4	A:85:THR:HG21	B:1:NAG:C6	0.735
4	A:156:PRO:HD3	E:3:BMA:H62	0.726
4	A:85:THR:CG2	B:1:NAG:C6	0.710
4	A:168:LEU:HB2	A:172:PHE:O	0.691
4	A:85:THR:CG2	B:1:NAG:H62	0.685
4	A:85:THR:CG2	B:1:NAG:H5	0.680
4	A:169:ASN:N	A:169:ASN:ND2	0.674
4	A:169:ASN:H	A:169:ASN:ND2	0.671
4	A:85:THR:HG21	B:1:NAG:H5	0.658
4	A:156:PRO:N	E:3:BMA:C6	0.652
4	A:11:ASN:HB3	A:12:PRO:HD3	0.610
4	A:85:THR:HG21	B:1:NAG:C5	0.605
4	A:85:THR:CG2	B:1:NAG:C5	0.595
4	A:79:ASN:HD22	A:80:ASN:H	0.592

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:117:LEU:HB3	A:118:PRO:HD3	0.591
4	A:156:PRO:CA	E:3:BMA:C6	0.585
4	A:48:LEU:HD11	B:2:NAG:CT	0.565
4	A:61:ASN:HB3	A:63:GLN:HG3	0.560
4	A:172:PHE:CD2	C:1:NAG:H3	0.553
4	A:158:THR:HG22	A:161:ARG:NH2	0.547
4	A:85:THR:HG23	B:1:NAG:H62	0.545
4	A:29:THR:HG22	A:63:GLN:HG2	0.536
4	A:156:PRO:CA	E:3:BMA:H62	0.521
4	A:155:SER:CA	E:3:BMA:H5	0.510
4	A:155:SER:OG	E:3:BMA:H5	0.503
4	A:169:ASN:N	A:169:ASN:HD22	0.499
4	A:156:PRO:HA	E:3:BMA:H61	0.497
4	A:155:SER:HB2	E:3:BMA:C4	0.496
4	A:156:PRO:CA	E:3:BMA:H61	0.489
4	A:155:SER:OG	E:3:BMA:C5	0.478
4	A:93:ILE:HB	A:94:PRO:HD3	0.477
4	A:155:SER:C	E:3:BMA:C5	0.462
4	A:85:THR:HG23	B:1:NAG:C5	0.461
4	A:198:PRO:HA	A:199:PRO:HD3	0.457
4	A:155:SER:C	E:3:BMA:H5	0.449
4	A:85:THR:OG1	B:1:NAG:H62	0.448
4	A:11:ASN:CB	A:12:PRO:HD3	0.441

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:155:SER:HA	A:156:PRO:C	0.435
4	A:171:ASP:HB2	C:2:NAG:CT	0.434
4	A:171:ASP:OD1	C:2:NAG:O	0.434
4	A:56:LYS:HD2	A:67:ILE:HD11	0.433
4	A:197:ASN:HA	A:198:PRO:C	0.427
4	A:48:LEU:HD12	A:87:LEU:HG	0.421
4	A:156:PRO:HA	E:3:BMA:C6	0.419
4	A:85:THR:HG21	B:1:NAG:H61	0.414
4	A:93:ILE:O	A:95:PRO:HD3	0.411
4	A:203:ILE:HG21	E:2:NAG:CT	0.403
5	A:87:LEU:HD21	B:5:MAN:C5	1.568
5	A:87:LEU:HD22	B:5:MAN:C3	1.464
5	A:5:ASN:OD1	B:6:MAN:H2	1.289
5	A:87:LEU:HD21	B:5:MAN:C6	1.262
5	A:174:GLN:HE21	C:1:NAG:C6	1.239
5	A:87:LEU:CG	B:5:MAN:O4	1.205
5	A:85:THR:HG22	B:1:NAG:O6	1.173
5	A:5:ASN:OD1	B:6:MAN:C2	1.164
5	A:85:THR:CG2	B:1:NAG:O6	1.149
5	A:99:THR:OG1	B:5:MAN:C6	1.137
5	A:97:SER:O	B:4:MAN:O2	1.128
5	A:87:LEU:CD2	B:5:MAN:C5	1.117
5	A:203:ILE:HD12	E:2:NAG:N	1.105

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:87:LEU:CG	B:5:MAN:C4	1.093
5	A:99:THR:OG1	B:5:MAN:O6	1.074
5	A:174:GLN:NE2	C:1:NAG:C6	1.029
5	A:5:ASN:OD1	B:6:MAN:C3	0.998
5	A:130:ASN:ND2	C:1:NAG:C6	0.970
5	A:161:ARG:CD	D:1:NAG:H62	0.936
5	A:96:MET:CE	B:6:MAN:O3	0.935
5	A:87:LEU:CD2	B:5:MAN:C4	0.928
5	A:87:LEU:HD22	B:5:MAN:C4	0.925
5	A:205:ILE:HD12	E:6:MAN:O2	0.910
5	A:161:ARG:HD2	D:1:NAG:H62	0.899
5	A:99:THR:OG1	B:5:MAN:H62	0.882
5	A:99:THR:HG1	B:5:MAN:C6	0.851
5	A:11:ASN:HD21	B:2:NAG:CT	0.846
5	A:133:ASN:OD1	C:1:NAG:O5	0.846
5	A:174:GLN:NE2	C:1:NAG:O6	0.842
5	A:171:ASP:OD2	A:172:PHE:HD2	0.833
5	A:161:ARG:NE	D:1:NAG:H62	0.802
5	A:96:MET:HE2	B:6:MAN:O3	0.792
5	A:5:ASN:CG	B:6:MAN:H3	0.784
5	A:5:ASN:OD1	B:6:MAN:H3	0.769
5	A:97:SER:O	B:4:MAN:O3	0.766
5	A:169:ASN:H	A:169:ASN:HD22	0.765



Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:169:ASN:HD21	A:172:PHE:HB2	0.763
5	A:171:ASP:OD2	A:172:PHE:CD2	0.756
5	A:87:LEU:CD2	B:5:MAN:O4	0.751
5	A:85:THR:HG22	B:1:NAG:C6	0.745
5	A:97:SER:O	B:4:MAN:C3	0.731
5	A:5:ASN:ND2	B:6:MAN:H3	0.704
5	A:168:LEU:HB2	A:172:PHE:O	0.691
5	A:87:LEU:HD21	B:5:MAN:H62	0.688
5	A:169:ASN:N	A:169:ASN:ND2	0.674
5	A:169:ASN:H	A:169:ASN:ND2	0.671
5	A:87:LEU:CB	B:5:MAN:O4	0.667
5	A:97:SER:O	B:4:MAN:C2	0.666
5	A:203:ILE:HD12	E:2:NAG:C	0.648
5	A:87:LEU:HD22	B:5:MAN:O3	0.635
5	A:97:SER:C	B:4:MAN:O3	0.634
5	A:87:LEU:CD2	B:5:MAN:H62	0.630
5	A:87:LEU:CD2	B:5:MAN:C6	0.625
5	A:87:LEU:HD21	B:5:MAN:C4	0.619
5	A:11:ASN:HB3	A:12:PRO:HD3	0.610
5	A:203:ILE:HD12	E:2:NAG:C2	0.597
5	A:79:ASN:HD22	A:80:ASN:H	0.592
5	A:117:LEU:HB3	A:118:PRO:HD3	0.591
5	A:174:GLN:NE2	C:1:NAG:H61	0.574

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:61:ASN:HB3	A:63:GLN:HG3	0.560
5	A:168:LEU:HD11	C:1:NAG:O6	0.549
5	A:158:THR:HG22	A:161:ARG:NH2	0.547
5	A:29:THR:HG22	A:63:GLN:HG2	0.536
5	A:168:LEU:HD21	C:1:NAG:H4	0.509
5	A:87:LEU:CD1	B:5:MAN:C4	0.507
5	A:161:ARG:HD2	D:1:NAG:C6	0.505
5	A:169:ASN:N	A:169:ASN:HD22	0.499
5	A:5:ASN:HD21	B:6:MAN:H3	0.495
5	A:93:ILE:HB	A:94:PRO:HD3	0.477
5	A:198:PRO:HA	A:199:PRO:HD3	0.457
5	A:203:ILE:CD1	E:2:NAG:C2	0.448
5	A:11:ASN:CB	A:12:PRO:HD3	0.441
5	A:155:SER:HA	A:156:PRO:C	0.435
5	A:97:SER:C	B:4:MAN:O2	0.434
5	A:56:LYS:HD2	A:67:ILE:HD11	0.433
5	A:197:ASN:HA	A:198:PRO:C	0.427
5	A:96:MET:HE3	B:6:MAN:H3	0.427
5	A:99:THR:HG21	B:2:NAG:H3	0.425
5	A:48:LEU:HD12	A:87:LEU:HG	0.421
5	A:87:LEU:HD23	B:5:MAN:O4	0.420
5	A:5:ASN:CG	B:6:MAN:C3	0.419
5	A:130:ASN:HD21	C:1:NAG:C6	0.419

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:174:GLN:HB3	C:1:NAG:O6	0.414
5	A:87:LEU:HA	B:5:MAN:O4	0.414
5	A:93:ILE:O	A:95:PRO:HD3	0.411
6	A:187:GLU:OE2	E:5:MAN:C5	1.412
6	A:207:ARG:NH1	E:5:MAN:C6	1.352
6	A:187:GLU:HB2	E:5:MAN:O6	1.343
6	A:207:ARG:NH1	E:5:MAN:H62	1.209
6	A:187:GLU:CB	E:5:MAN:O6	1.183
6	A:85:THR:C	B:2:NAG:CT	1.160
6	A:87:LEU:HB3	B:5:MAN:H61	1.110
6	A:49:SER:HB3	B:1:NAG:H4	1.084
6	A:207:ARG:HH22	E:5:MAN:H4	1.082
6	A:87:LEU:HB3	B:5:MAN:C6	1.071
6	A:207:ARG:NH2	E:5:MAN:H4	1.060
6	A:187:GLU:OE2	E:5:MAN:C6	1.041
6	A:207:ARG:HH22	E:5:MAN:C4	1.034
6	A:187:GLU:CD	E:5:MAN:O6	1.026
6	A:46:THR:OG1	B:5:MAN:H4	1.018
6	A:49:SER:CB	B:1:NAG:H4	1.003
6	A:207:ARG:NH2	E:5:MAN:C4	0.999
6	A:46:THR:HB	B:5:MAN:O2	0.982
6	A:207:ARG:HH11	E:5:MAN:H62	0.978
6	A:49:SER:HB3	B:1:NAG:C4	0.965

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:46:THR:CB	B:5:MAN:O2	0.946
6	A:46:THR:HG21	B:5:MAN:O3	0.944
6	A:203:ILE:CG2	E:1:NAG:O4	0.940
6	A:205:ILE:HG21	E:5:MAN:C6	0.936
6	A:205:ILE:HG21	E:5:MAN:H61	0.930
6	A:130:ASN:OD1	C:1:NAG:C4	0.922
6	A:187:GLU:HB2	E:5:MAN:C6	0.905
6	A:187:GLU:CG	E:5:MAN:O6	0.890
6	A:129:PRO:HB2	C:2:NAG:CT	0.871
6	A:171:ASP:OD2	A:172:PHE:HD2	0.833
6	A:44:ARG:HG2	B:5:MAN:O4	0.828
6	A:187:GLU:CD	E:5:MAN:C5	0.808
6	A:130:ASN:OD1	C:1:NAG:H4	0.804
6	A:187:GLU:CD	E:5:MAN:C6	0.786
6	A:187:GLU:CB	E:5:MAN:C6	0.776
6	A:87:LEU:HD13	B:5:MAN:O6	0.774
6	A:203:ILE:HG21	E:1:NAG:O4	0.765
6	A:169:ASN:H	A:169:ASN:HD22	0.765
6	A:169:ASN:HD21	A:172:PHE:HB2	0.763
6	A:207:ARG:NH1	E:5:MAN:H61	0.760
6	A:87:LEU:CD1	B:4:MAN:H2	0.758
6	A:87:LEU:HB3	B:5:MAN:O6	0.758
6	A:171:ASP:OD2	A:172:PHE:CD2	0.756

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:205:ILE:HG21	E:5:MAN:O6	0.748
6	A:161:ARG:NH2	D:1:NAG:CT	0.744
6	A:85:THR:OG1	B:2:NAG:C	0.723
6	A:168:LEU:HB2	A:172:PHE:O	0.691
6	A:49:SER:HB3	B:2:NAG:C1	0.688
6	A:46:THR:OG1	B:5:MAN:O2	0.678
6	A:46:THR:CB	B:5:MAN:HO2	0.677
6	A:169:ASN:N	A:169:ASN:ND2	0.674
6	A:169:ASN:H	A:169:ASN:ND2	0.671
6	A:49:SER:CB	B:2:NAG:C1	0.670
6	A:130:ASN:OD1	C:1:NAG:O5	0.661
6	A:49:SER:N	B:2:NAG:O	0.655
6	A:46:THR:OG1	B:5:MAN:C4	0.651
6	A:85:THR:OG1	B:1:NAG:O4	0.644
6	A:85:THR:O	B:2:NAG:CT	0.643
6	A:87:LEU:CB	B:5:MAN:H61	0.636
6	A:205:ILE:HG13	E:2:NAG:CT	0.627
6	A:87:LEU:HD13	B:4:MAN:H2	0.614
6	A:11:ASN:HB3	A:12:PRO:HD3	0.610
6	A:205:ILE:CG2	E:5:MAN:H61	0.607
6	A:87:LEU:HD22	B:5:MAN:O6	0.601
6	A:205:ILE:HD13	E:5:MAN:O5	0.592
6	A:79:ASN:HD22	A:80:ASN:H	0.592

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:117:LEU:HB3	A:118:PRO:HD3	0.591
6	A:187:GLU:CD	E:5:MAN:HO6	0.589
6	A:187:GLU:CB	E:5:MAN:H62	0.583
6	A:85:THR:OG1	B:2:NAG:N	0.583
6	A:130:ASN:O	C:1:NAG:C6	0.563
6	A:61:ASN:HB3	A:63:GLN:HG3	0.560
6	A:46:THR:HG21	B:5:MAN:C3	0.556
6	A:49:SER:HB2	B:2:NAG:C1	0.553
6	A:187:GLU:HB3	E:5:MAN:H62	0.551
6	A:158:THR:HG22	A:161:ARG:NH2	0.547
6	A:87:LEU:CB	B:5:MAN:C6	0.546
6	A:87:LEU:CD1	B:5:MAN:O6	0.541
6	A:49:SER:O	B:1:NAG:H61	0.539
6	A:29:THR:HG22	A:63:GLN:HG2	0.536
6	A:203:ILE:HB	E:2:NAG:O	0.518
6	A:87:LEU:CB	B:5:MAN:O6	0.510
6	A:161:ARG:HH21	D:1:NAG:CT	0.503
6	A:169:ASN:N	A:169:ASN:HD22	0.499
6	A:44:ARG:HG2	B:5:MAN:HO4	0.480
6	A:87:LEU:CG	B:5:MAN:O6	0.478
6	A:93:ILE:HB	A:94:PRO:HD3	0.477
6	A:205:ILE:CG2	E:5:MAN:O6	0.461
6	A:198:PRO:HA	A:199:PRO:HD3	0.457

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:85:THR:CB	B:2:NAG:C	0.448
6	A:11:ASN:CB	A:12:PRO:HD3	0.441
6	A:155:SER:HA	A:156:PRO:C	0.435
6	A:46:THR:HG21	B:5:MAN:HO3	0.434
6	A:56:LYS:HD2	A:67:ILE:HD11	0.433
6	A:87:LEU:HD13	B:5:MAN:O5	0.429
6	A:87:LEU:CD1	B:5:MAN:O5	0.428
6	A:197:ASN:HA	A:198:PRO:C	0.427
6	A:48:LEU:HD12	A:87:LEU:HG	0.421
6	A:93:ILE:O	A:95:PRO:HD3	0.411
6	A:87:LEU:CD2	B:5:MAN:O6	0.409
7	A:167:ARG:CD	E:5:MAN:C4	1.385
7	A:167:ARG:HD3	E:5:MAN:C4	1.351
7	A:161:ARG:HG2	D:1:NAG:O	1.254
7	A:103:GLN:OE1	B:1:NAG:O6	1.143
7	A:167:ARG:CG	E:5:MAN:O4	1.113
7	A:167:ARG:HD3	E:5:MAN:C3	1.068
7	A:83:ASN:ND2	B:1:NAG:O5	1.032
7	A:161:ARG:NH1	D:2:NAG:O6	1.023
7	A:167:ARG:NE	E:5:MAN:O4	0.991
7	A:167:ARG:CD	E:5:MAN:O4	0.989
7	A:83:ASN:CG	B:1:NAG:O5	0.972
7	A:167:ARG:HD2	E:5:MAN:C4	0.950

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:83:ASN:OD1	B:1:NAG:O5	0.903
7	A:83:ASN:ND2	B:1:NAG:C1	0.894
7	A:161:ARG:O	D:1:NAG:O	0.894
7	A:103:GLN:CD	B:1:NAG:O6	0.886
7	A:133:ASN:HD22	C:1:NAG:C1	0.884
7	A:83:ASN:CG	B:1:NAG:C1	0.877
7	A:161:ARG:NH2	D:1:NAG:H4	0.841
7	A:133:ASN:ND2	C:1:NAG:C1	0.833
7	A:171:ASP:OD2	A:172:PHE:HD2	0.833
7	A:161:ARG:HH21	D:1:NAG:H4	0.811
7	A:161:ARG:CG	D:1:NAG:O	0.797
7	A:169:ASN:H	A:169:ASN:HD22	0.765
7	A:169:ASN:HD21	A:172:PHE:HB2	0.763
7	A:171:ASP:OD2	A:172:PHE:CD2	0.756
7	A:167:ARG:HD3	E:5:MAN:O4	0.722
7	A:161:ARG:CZ	D:2:NAG:O6	0.702
7	A:149:ALA:HB3	E:1:NAG:O6	0.694
7	A:168:LEU:HB2	A:172:PHE:O	0.691
7	A:169:ASN:N	A:169:ASN:ND2	0.674
7	A:169:ASN:H	A:169:ASN:ND2	0.671
7	A:161:ARG:C	D:1:NAG:O	0.664
7	A:11:ASN:HB3	A:12:PRO:HD3	0.610
7	A:79:ASN:HD22	A:80:ASN:H	0.592



Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:117:LEU:HB3	A:118:PRO:HD3	0.591
7	A:61:ASN:HB3	A:63:GLN:HG3	0.560
7	A:158:THR:HG22	A:161:ARG:NH2	0.547
7	A:167:ARG:HD3	E:5:MAN:O3	0.540
7	A:167:ARG:CD	E:5:MAN:HO4	0.540
7	A:29:THR:HG22	A:63:GLN:HG2	0.536
7	A:161:ARG:O	D:1:NAG:C	0.510
7	A:169:ASN:N	A:169:ASN:HD22	0.499
7	A:93:ILE:HB	A:94:PRO:HD3	0.477
7	A:198:PRO:HA	A:199:PRO:HD3	0.457
7	A:83:ASN:OD1	B:1:NAG:C1	0.452
7	A:167:ARG:CG	E:5:MAN:C4	0.447
7	A:83:ASN:HD21	B:1:NAG:C5	0.442
7	A:11:ASN:CB	A:12:PRO:HD3	0.441
7	A:155:SER:HA	A:156:PRO:C	0.435
7	A:56:LYS:HD2	A:67:ILE:HD11	0.433
7	A:161:ARG:CZ	D:2:NAG:HO6	0.432
7	A:197:ASN:HA	A:198:PRO:C	0.427
7	A:48:LEU:HD12	A:87:LEU:HG	0.421
7	A:93:ILE:O	A:95:PRO:HD3	0.411
8	A:133:ASN:OD1	C:1:NAG:C	1.179
8	A:129:PRO:CG	C:7:MAN:O6	0.998
8	A:129:PRO:CD	C:7:MAN:O6	0.929

Model ID	Atom-1	Atom-2	Clash overlap (Å)
8	A:133:ASN:OD1	C:1:NAG:N	0.887
8	A:129:PRO:HG2	C:7:MAN:O6	0.869
8	A:171:ASP:OD2	A:172:PHE:HD2	0.833
8	A:199:PRO:HB2	E:1:NAG:H62	0.800
8	A:169:ASN:H	A:169:ASN:HD22	0.765
8	A:169:ASN:HD21	A:172:PHE:HB2	0.763
8	A:171:ASP:OD2	A:172:PHE:CD2	0.756
8	A:133:ASN:OD1	C:1:NAG:CT	0.716
8	A:133:ASN:CG	C:1:NAG:C	0.701
8	A:174:GLN:HE21	C:1:NAG:CT	0.693
8	A:168:LEU:HB2	A:172:PHE:O	0.691
8	A:83:ASN:ND2	B:1:NAG:O5	0.685
8	A:169:ASN:N	A:169:ASN:ND2	0.674
8	A:169:ASN:H	A:169:ASN:ND2	0.671
8	A:130:ASN:CA	C:2:NAG:O6	0.647
8	A:130:ASN:C	C:2:NAG:O6	0.620
8	A:130:ASN:N	C:2:NAG:O6	0.611
8	A:11:ASN:HB3	A:12:PRO:HD3	0.610
8	A:130:ASN:O	C:2:NAG:O6	0.594
8	A:199:PRO:CB	E:1:NAG:H62	0.592
8	A:79:ASN:HD22	A:80:ASN:H	0.592
8	A:117:LEU:HB3	A:118:PRO:HD3	0.591
8	A:130:ASN:HB3	C:2:NAG:O6	0.589

Model ID	Atom-1	Atom-2	Clash overlap (Å)
8	A:129:PRO:HD3	C:7:MAN:O6	0.570
8	A:61:ASN:HB3	A:63:GLN:HG3	0.560
8	A:174:GLN:NE2	C:1:NAG:CT	0.560
8	A:158:THR:HG22	A:161:ARG:NH2	0.547
8	A:79:ASN:HB3	B:1:NAG:C6	0.540
8	A:29:THR:HG22	A:63:GLN:HG2	0.536
8	A:133:ASN:CG	C:1:NAG:N	0.536
8	A:169:ASN:N	A:169:ASN:HD22	0.499
8	A:83:ASN:ND2	B:1:NAG:C1	0.490
8	A:79:ASN:HB3	B:1:NAG:H61	0.489
8	A:129:PRO:HG2	C:7:MAN:HO6	0.487
8	A:130:ASN:CB	C:2:NAG:O6	0.486
8	A:93:ILE:HB	A:94:PRO:HD3	0.477
8	A:198:PRO:HA	A:199:PRO:HD3	0.457
8	A:11:ASN:CB	A:12:PRO:HD3	0.441
8	A:199:PRO:HG2	E:1:NAG:H62	0.440
8	A:155:SER:HA	A:156:PRO:C	0.435
8	A:56:LYS:HD2	A:67:ILE:HD11	0.433
8	A:197:ASN:HA	A:198:PRO:C	0.427
8	A:199:PRO:HG2	E:1:NAG:C6	0.425
8	A:48:LEU:HD12	A:87:LEU:HG	0.421
8	A:93:ILE:O	A:95:PRO:HD3	0.411
8	A:79:ASN:ND2	B:2:NAG:CT	0.404

Model ID	Atom-1	Atom-2	Clash overlap (Å)
9	A:168:LEU:CD2	C:1:NAG:O	1.382
9	A:129:PRO:CB	C:2:NAG:O3	1.368
9	A:129:PRO:HB3	C:2:NAG:O3	1.083
9	A:168:LEU:HD21	C:1:NAG:O	1.068
9	A:129:PRO:HB2	C:2:NAG:C2	0.997
9	A:78:LYS:N	B:1:NAG:CT	0.974
9	A:129:PRO:CB	C:2:NAG:C3	0.855
9	A:78:LYS:H	B:1:NAG:CT	0.839
9	A:171:ASP:OD2	A:172:PHE:HD2	0.833
9	A:129:PRO:CB	C:2:NAG:C2	0.813
9	A:161:ARG:HE	D:1:NAG:C1	0.809
9	A:169:ASN:H	A:169:ASN:HD22	0.765
9	A:169:ASN:HD21	A:172:PHE:HB2	0.763
9	A:171:ASP:OD2	A:172:PHE:CD2	0.756
9	A:129:PRO:HB3	C:2:NAG:C3	0.746
9	A:129:PRO:CB	C:2:NAG:HO3	0.725
9	A:168:LEU:HB2	A:172:PHE:O	0.691
9	A:168:LEU:HD23	C:1:NAG:O	0.678
9	A:169:ASN:N	A:169:ASN:ND2	0.674
9	A:129:PRO:HB3	C:2:NAG:HO3	0.673
9	A:169:ASN:H	A:169:ASN:ND2	0.671
9	A:161:ARG:CZ	D:1:NAG:N	0.654
9	A:129:PRO:HB2	C:2:NAG:C3	0.611

Model ID	Atom-1	Atom-2	Clash overlap (Å)
9	A:11:ASN:HB3	A:12:PRO:HD3	0.610
9	A:79:ASN:HD22	A:80:ASN:H	0.592
9	A:117:LEU:HB3	A:118:PRO:HD3	0.591
9	A:61:ASN:HB3	A:63:GLN:HG3	0.560
9	A:129:PRO:CA	C:2:NAG:O3	0.560
9	A:158:THR:HG22	A:161:ARG:NH2	0.547
9	A:29:THR:HG22	A:63:GLN:HG2	0.536
9	A:79:ASN:H	B:1:NAG:CT	0.525
9	A:169:ASN:N	A:169:ASN:HD22	0.499
9	A:93:ILE:HB	A:94:PRO:HD3	0.477
9	A:168:LEU:CD2	C:1:NAG:C	0.469
9	A:161:ARG:NE	D:1:NAG:N	0.467
9	A:161:ARG:NE	D:1:NAG:C1	0.464
9	A:198:PRO:HA	A:199:PRO:HD3	0.457
9	A:11:ASN:CB	A:12:PRO:HD3	0.441
9	A:155:SER:HA	A:156:PRO:C	0.435
9	A:56:LYS:HD2	A:67:ILE:HD11	0.433
9	A:197:ASN:HA	A:198:PRO:C	0.427
9	A:48:LEU:HD12	A:87:LEU:HG	0.421
9	A:93:ILE:O	A:95:PRO:HD3	0.411
10	A:83:ASN:HD21	B:1:NAG:C2	1.354
10	A:83:ASN:HD21	B:1:NAG:C	1.348
10	A:83:ASN:ND2	B:1:NAG:C2	1.329

Model ID	Atom-1	Atom-2	Clash overlap (Å)
10	A:83:ASN:ND2	B:1:NAG:C	1.327
10	A:133:ASN:ND2	C:1:NAG:C1	1.234
10	A:83:ASN:ND2	B:1:NAG:O	1.074
10	A:83:ASN:ND2	B:1:NAG:C1	1.035
10	A:83:ASN:ND2	B:1:NAG:N	1.035
10	A:130:ASN:OD1	C:1:NAG:H5	1.011
10	A:83:ASN:CG	B:1:NAG:C	0.963
10	A:133:ASN:HD21	C:1:NAG:C1	0.917
10	A:79:ASN:HB3	B:2:NAG:O6	0.903
10	A:133:ASN:HD22	C:1:NAG:C1	0.882
10	A:80:ASN:OD1	B:2:NAG:O6	0.873
10	A:133:ASN:ND2	C:1:NAG:O5	0.866
10	A:171:ASP:OD2	A:172:PHE:HD2	0.833
10	A:83:ASN:CG	B:1:NAG:N	0.828
10	A:130:ASN:OD1	C:1:NAG:C5	0.825
10	A:83:ASN:CG	B:1:NAG:C1	0.783
10	A:169:ASN:H	A:169:ASN:HD22	0.765
10	A:169:ASN:HD21	A:172:PHE:HB2	0.763
10	A:171:ASP:OD2	A:172:PHE:CD2	0.756
10	A:80:ASN:OD1	B:2:NAG:C6	0.748
10	A:168:LEU:HB2	A:172:PHE:O	0.691
10	A:83:ASN:OD1	B:1:NAG:N	0.677
10	A:79:ASN:CB	B:2:NAG:O6	0.676

Model ID	Atom-1	Atom-2	Clash overlap (Å)
10	A:169:ASN:N	A:169:ASN:ND2	0.674
10	A:169:ASN:H	A:169:ASN:ND2	0.671
10	A:83:ASN:OD1	B:1:NAG:C	0.668
10	A:79:ASN:HB2	B:2:NAG:C1	0.623
10	A:11:ASN:HB3	A:12:PRO:HD3	0.610
10	A:79:ASN:CB	B:2:NAG:C1	0.595
10	A:117:LEU:HB3	A:118:PRO:HD3	0.591
10	A:61:ASN:HB3	A:63:GLN:HG3	0.560
10	A:158:THR:HG22	A:161:ARG:NH2	0.547
10	A:29:THR:HG22	A:63:GLN:HG2	0.536
10	A:169:ASN:N	A:169:ASN:HD22	0.499
10	A:83:ASN:OD1	B:1:NAG:CT	0.489
10	A:131:SER:O	C:1:NAG:CT	0.486
10	A:93:ILE:HB	A:94:PRO:HD3	0.477
10	A:130:ASN:O	C:1:NAG:H3	0.473
10	A:198:PRO:HA	A:199:PRO:HD3	0.457
10	A:11:ASN:CB	A:12:PRO:HD3	0.441
10	A:155:SER:HA	A:156:PRO:C	0.435
10	A:56:LYS:HD2	A:67:ILE:HD11	0.433
10	A:197:ASN:HA	A:198:PRO:C	0.427
10	A:48:LEU:HD12	A:87:LEU:HG	0.421
10	A:197:ASN:ND2	E:7:MAN:H62	0.419
10	A:93:ILE:O	A:95:PRO:HD3	0.411

Model ID	Atom-1	Atom-2	Clash overlap (Å)
11	A:158:THR:HB	D:1:NAG:CT	1.602
11	A:133:ASN:HD21	C:1:NAG:C1	1.456
11	A:133:ASN:ND2	C:1:NAG:C1	1.397
11	A:158:THR:CB	D:1:NAG:CT	1.373
11	A:168:LEU:HD21	C:1:NAG:C6	1.309
11	A:168:LEU:CD2	C:1:NAG:H62	1.262
11	A:158:THR:CG2	D:1:NAG:CT	1.141
11	A:168:LEU:CD2	C:1:NAG:C6	1.004
11	A:168:LEU:HD21	C:1:NAG:H62	0.935
11	A:168:LEU:HD23	C:1:NAG:O6	0.900
11	A:171:ASP:OD2	A:172:PHE:HD2	0.833
11	A:168:LEU:CD2	C:1:NAG:O6	0.819
11	A:130:ASN:OD1	C:1:NAG:C1	0.819
11	A:161:ARG:HH21	D:1:NAG:CT	0.801
11	A:168:LEU:CG	C:1:NAG:H62	0.794
11	A:169:ASN:H	A:169:ASN:HD22	0.765
11	A:169:ASN:HD21	A:172:PHE:HB2	0.763
11	A:171:ASP:OD2	A:172:PHE:CD2	0.756
11	A:158:THR:HG21	D:1:NAG:CT	0.737
11	A:168:LEU:HB2	A:172:PHE:O	0.691
11	A:169:ASN:N	A:169:ASN:ND2	0.674
11	A:161:ARG:NH2	D:1:NAG:CT	0.673
11	A:169:ASN:H	A:169:ASN:ND2	0.671



Model ID	Atom-1	Atom-2	Clash overlap (Å)
11	A:158:THR:HG22	D:1:NAG:CT	0.654
11	A:133:ASN:CG	C:1:NAG:C1	0.641
11	A:161:ARG:HH21	D:1:NAG:C	0.615
11	A:11:ASN:HB3	A:12:PRO:HD3	0.610
11	A:130:ASN:OD1	C:1:NAG:H5	0.593
11	A:79:ASN:HD22	A:80:ASN:H	0.592
11	A:117:LEU:HB3	A:118:PRO:HD3	0.591
11	A:61:ASN:HB3	A:63:GLN:HG3	0.560
11	A:182:GLU:OE2	D:5:MAN:H62	0.556
11	A:158:THR:HG22	A:161:ARG:NH2	0.547
11	A:29:THR:HG22	A:63:GLN:HG2	0.536
11	A:169:ASN:N	A:169:ASN:HD22	0.499
11	A:168:LEU:HD21	C:1:NAG:C5	0.495
11	A:93:ILE:HB	A:94:PRO:HD3	0.477
11	A:130:ASN:OD1	C:1:NAG:H3	0.462
11	A:198:PRO:HA	A:199:PRO:HD3	0.457
11	A:11:ASN:CB	A:12:PRO:HD3	0.441
11	A:182:GLU:OE2	D:5:MAN:C6	0.439
11	A:155:SER:HA	A:156:PRO:C	0.435
11	A:56:LYS:HD2	A:67:ILE:HD11	0.433
11	A:197:ASN:HA	A:198:PRO:C	0.427
11	A:199:PRO:O	E:1:NAG:N	0.423
11	A:48:LEU:HD12	A:87:LEU:HG	0.421

Model ID	Atom-1	Atom-2	Clash overlap (Å)
11	A:168:LEU:HD21	C:1:NAG:O5	0.417
11	A:93:ILE:O	A:95:PRO:HD3	0.411
11	A:130:ASN:OD1	C:1:NAG:C5	0.411
12	A:79:ASN:HB2	B:1:NAG:C3	1.438
12	A:133:ASN:HD22	C:1:NAG:C1	1.408
12	A:133:ASN:ND2	C:1:NAG:C1	1.380
12	A:79:ASN:HB2	B:1:NAG:O3	1.275
12	A:79:ASN:CB	B:1:NAG:H3	1.261
12	A:79:ASN:CB	B:1:NAG:C3	1.209
12	A:79:ASN:CB	B:1:NAG:O3	1.155
12	A:79:ASN:HB3	B:1:NAG:H3	1.081
12	A:78:LYS:N	B:1:NAG:CT	0.988
12	A:161:ARG:O	D:1:NAG:CT	0.964
12	A:79:ASN:N	B:1:NAG:O3	0.944
12	A:161:ARG:O	D:1:NAG:C	0.891
12	A:79:ASN:HB2	B:1:NAG:HO3	0.887
12	A:78:LYS:HB2	B:1:NAG:O	0.872
12	A:79:ASN:OD1	B:2:NAG:C2	0.869
12	A:161:ARG:HD2	D:1:NAG:O3	0.862
12	A:171:ASP:OD2	A:172:PHE:HD2	0.833
12	A:78:LYS:N	B:1:NAG:C	0.801
12	A:151:ASP:OD2	E:1:NAG:O6	0.796
12	A:83:ASN:ND2	B:1:NAG:C1	0.782

Model ID	Atom-1	Atom-2	Clash overlap (Å)
12	A:169:ASN:H	A:169:ASN:HD22	0.765
12	A:169:ASN:HD21	A:172:PHE:HB2	0.763
12	A:171:ASP:OD2	A:172:PHE:CD2	0.756
12	A:79:ASN:CA	B:1:NAG:O3	0.742
12	A:78:LYS:H	B:1:NAG:CT	0.732
12	A:133:ASN:HD21	C:1:NAG:C1	0.708
12	A:78:LYS:CB	B:1:NAG:O	0.701
12	A:168:LEU:HB2	A:172:PHE:O	0.691
12	A:78:LYS:N	B:1:NAG:O	0.684
12	A:78:LYS:H	B:1:NAG:C	0.678
12	A:169:ASN:N	A:169:ASN:ND2	0.674
12	A:169:ASN:H	A:169:ASN:ND2	0.671
12	A:161:ARG:CD	D:1:NAG:O3	0.622
12	A:11:ASN:HB3	A:12:PRO:HD3	0.610
12	A:79:ASN:HD22	A:80:ASN:H	0.592
12	A:117:LEU:HB3	A:118:PRO:HD3	0.591
12	A:79:ASN:HB2	B:1:NAG:C4	0.584
12	A:161:ARG:C	D:1:NAG:C	0.571
12	A:61:ASN:HB3	A:63:GLN:HG3	0.560
12	A:158:THR:HG22	A:161:ARG:NH2	0.547
12	A:29:THR:HG22	A:63:GLN:HG2	0.536
12	A:149:ALA:HB3	E:1:NAG:H62	0.528
12	A:149:ALA:CB	E:1:NAG:H61	0.526

Model ID	Atom-1	Atom-2	Clash overlap (Å)
12	A:161:ARG:HE	D:1:NAG:C2	0.518
12	A:161:ARG:NE	D:1:NAG:C2	0.504
12	A:169:ASN:N	A:169:ASN:HD22	0.499
12	A:149:ALA:CB	E:1:NAG:C6	0.483
12	A:83:ASN:HD22	B:1:NAG:C1	0.481
12	A:149:ALA:HB1	E:1:NAG:H61	0.478
12	A:93:ILE:HB	A:94:PRO:HD3	0.477
12	A:79:ASN:OD1	B:2:NAG:C1	0.461
12	A:198:PRO:HA	A:199:PRO:HD3	0.457
12	A:79:ASN:H	B:1:NAG:C	0.443
12	A:161:ARG:O	D:1:NAG:N	0.442
12	A:11:ASN:CB	A:12:PRO:HD3	0.441
12	A:149:ALA:HB3	E:1:NAG:C6	0.439
12	A:79:ASN:OD1	B:1:NAG:O4	0.439
12	A:155:SER:HA	A:156:PRO:C	0.435
12	A:56:LYS:HD2	A:67:ILE:HD11	0.433
12	A:78:LYS:CA	B:1:NAG:O	0.432
12	A:197:ASN:HA	A:198:PRO:C	0.427
12	A:48:LEU:HD12	A:87:LEU:HG	0.421
12	A:93:ILE:O	A:95:PRO:HD3	0.411
13	A:174:GLN:HB2	C:1:NAG:CT	1.509
13	A:130:ASN:CB	C:1:NAG:O3	1.392
13	A:161:ARG:CG	D:1:NAG:O	1.292

Model ID	Atom-1	Atom-2	Clash overlap (Å)
13	A:161:ARG:O	D:1:NAG:C	1.270
13	A:130:ASN:HB3	C:1:NAG:O3	1.236
13	A:130:ASN:OD1	C:1:NAG:C3	1.215
13	A:161:ARG:HG3	D:1:NAG:O	1.155
13	A:174:GLN:CB	C:1:NAG:CT	1.107
13	A:130:ASN:C	C:1:NAG:O	1.048
13	A:130:ASN:O	C:1:NAG:O3	1.040
13	A:161:ARG:HG2	D:1:NAG:O	0.943
13	A:130:ASN:CG	C:1:NAG:O3	0.919
13	A:130:ASN:OD1	C:1:NAG:H3	0.906
13	A:131:SER:N	C:1:NAG:O	0.897
13	A:161:ARG:O	D:1:NAG:N	0.843
13	A:171:ASP:OD2	A:172:PHE:HD2	0.833
13	A:130:ASN:CB	C:1:NAG:C3	0.806
13	A:103:GLN:HE22	B:1:NAG:H62	0.790
13	A:169:ASN:H	A:169:ASN:HD22	0.765
13	A:169:ASN:HD21	A:172:PHE:HB2	0.763
13	A:171:ASP:OD2	A:172:PHE:CD2	0.756
13	A:130:ASN:C	C:1:NAG:O3	0.746
13	A:130:ASN:C	C:1:NAG:HO3	0.746
13	A:83:ASN:ND2	B:1:NAG:C1	0.698
13	A:130:ASN:CA	C:1:NAG:O3	0.694
13	A:168:LEU:HB2	A:172:PHE:O	0.691

Model ID	Atom-1	Atom-2	Clash overlap (Å)
13	A:169:ASN:N	A:169:ASN:ND2	0.674
13	A:161:ARG:O	D:1:NAG:O	0.672
13	A:169:ASN:H	A:169:ASN:ND2	0.671
13	A:130:ASN:HB3	C:1:NAG:C3	0.670
13	A:83:ASN:CG	B:1:NAG:C1	0.625
13	A:103:GLN:NE2	B:1:NAG:H62	0.620
13	A:11:ASN:HB3	A:12:PRO:HD3	0.610
13	A:130:ASN:N	C:2:NAG:O6	0.604
13	A:79:ASN:HD22	A:80:ASN:H	0.592
13	A:117:LEU:HB3	A:118:PRO:HD3	0.591
13	A:161:ARG:CA	D:1:NAG:O	0.588
13	A:83:ASN:OD1	B:1:NAG:C1	0.580
13	A:83:ASN:HD21	B:1:NAG:C1	0.571
13	A:61:ASN:HB3	A:63:GLN:HG3	0.560
13	A:161:ARG:CB	D:1:NAG:O	0.551
13	A:158:THR:HG22	A:161:ARG:NH2	0.547
13	A:128:GLU:HG2	C:2:NAG:O6	0.546
13	A:133:ASN:CG	C:1:NAG:N	0.545
13	A:29:THR:HG22	A:63:GLN:HG2	0.536
13	A:161:ARG:C	D:1:NAG:C	0.534
13	A:130:ASN:CA	C:1:NAG:C	0.519
13	A:169:ASN:N	A:169:ASN:HD22	0.499
13	A:93:ILE:HB	A:94:PRO:HD3	0.477

Model ID	Atom-1	Atom-2	Clash overlap (Å)
13	A:161:ARG:C	D:1:NAG:O	0.477
13	A:130:ASN:CA	C:1:NAG:O	0.475
13	A:130:ASN:C	C:1:NAG:C	0.472
13	A:130:ASN:HA	C:1:NAG:C	0.469
13	A:198:PRO:HA	A:199:PRO:HD3	0.457
13	A:11:ASN:CB	A:12:PRO:HD3	0.441
13	A:155:SER:HA	A:156:PRO:C	0.435
13	A:56:LYS:HD2	A:67:ILE:HD11	0.433
13	A:197:ASN:HA	A:198:PRO:C	0.427
13	A:131:SER:C	C:1:NAG:O	0.424
13	A:48:LEU:HD12	A:87:LEU:HG	0.421
13	A:93:ILE:O	A:95:PRO:HD3	0.411
14	A:133:ASN:OD1	C:1:NAG:C1	1.343
14	A:133:ASN:CG	C:1:NAG:C1	1.266
14	A:199:PRO:HB2	E:1:NAG:O	1.260
14	A:199:PRO:CB	E:1:NAG:O	1.217
14	A:133:ASN:HD21	C:1:NAG:C2	1.167
14	A:133:ASN:ND2	C:1:NAG:C1	1.123
14	A:199:PRO:C	E:1:NAG:O	0.992
14	A:130:ASN:HB2	C:2:NAG:O6	0.984
14	A:174:GLN:HB2	C:1:NAG:CT	0.942
14	A:133:ASN:ND2	C:1:NAG:C2	0.930
14	A:78:LYS:H	B:1:NAG:CT	0.895

Model ID	Atom-1	Atom-2	Clash overlap (Å)
14	A:199:PRO:HG3	E:2:NAG:O6	0.882
14	A:130:ASN:HA	C:1:NAG:CT	0.879
14	A:199:PRO:HG2	E:1:NAG:O3	0.865
14	A:130:ASN:C	C:1:NAG:O	0.851
14	A:171:ASP:OD2	A:172:PHE:HD2	0.833
14	A:199:PRO:CA	E:1:NAG:O	0.815
14	A:133:ASN:HD21	C:1:NAG:C1	0.811
14	A:199:PRO:HB2	E:1:NAG:C	0.806
14	A:169:ASN:H	A:169:ASN:HD22	0.765
14	A:169:ASN:HD21	A:172:PHE:HB2	0.763
14	A:171:ASP:OD2	A:172:PHE:CD2	0.756
14	A:199:PRO:CG	E:2:NAG:O6	0.756
14	A:168:LEU:HB2	A:172:PHE:O	0.691
14	A:169:ASN:N	A:169:ASN:ND2	0.674
14	A:169:ASN:H	A:169:ASN:ND2	0.671
14	A:78:LYS:HB2	B:1:NAG:CT	0.644
14	A:199:PRO:CG	E:1:NAG:O3	0.640
14	A:133:ASN:OD1	C:1:NAG:C2	0.624
14	A:11:ASN:HB3	A:12:PRO:HD3	0.610
14	A:78:LYS:N	B:1:NAG:CT	0.604
14	A:130:ASN:CA	C:1:NAG:C	0.601
14	A:79:ASN:HD22	A:80:ASN:H	0.592
14	A:117:LEU:HB3	A:118:PRO:HD3	0.591



Model ID	Atom-1	Atom-2	Clash overlap (Å)
14	A:199:PRO:HB2	E:1:NAG:O3	0.562
14	A:61:ASN:HB3	A:63:GLN:HG3	0.560
14	A:199:PRO:HG2	E:1:NAG:HO3	0.556
14	A:133:ASN:CG	C:1:NAG:C2	0.553
14	A:158:THR:HG22	A:161:ARG:NH2	0.547
14	A:130:ASN:HA	C:1:NAG:C	0.546
14	A:29:THR:HG22	A:63:GLN:HG2	0.536
14	A:199:PRO:CB	E:1:NAG:O3	0.532
14	A:133:ASN:OD1	C:1:NAG:N	0.520
14	A:169:ASN:N	A:169:ASN:HD22	0.499
14	A:200:LYS:N	E:1:NAG:O	0.482
14	A:93:ILE:HB	A:94:PRO:HD3	0.477
14	A:133:ASN:ND2	C:1:NAG:O5	0.465
14	A:198:PRO:HA	A:199:PRO:HD3	0.457
14	A:130:ASN:CB	C:2:NAG:O6	0.447
14	A:11:ASN:CB	A:12:PRO:HD3	0.441
14	A:168:LEU:HD21	C:1:NAG:C1	0.436
14	A:155:SER:HA	A:156:PRO:C	0.435
14	A:56:LYS:HD2	A:67:ILE:HD11	0.433
14	A:197:ASN:HA	A:198:PRO:C	0.427
14	A:199:PRO:CB	E:1:NAG:C	0.424
14	A:48:LEU:HD12	A:87:LEU:HG	0.421
14	A:93:ILE:O	A:95:PRO:HD3	0.411

Model ID	Atom-1	Atom-2	Clash overlap (Å)
14	A:199:PRO:HG2	E:2:NAG:O6	0.410
14	A:130:ASN:O	C:1:NAG:O	0.403
15	A:83:ASN:ND2	B:1:NAG:C1	1.526
15	A:161:ARG:NH1	D:2:NAG:H62	1.452
15	A:83:ASN:ND2	B:1:NAG:N	1.336
15	A:83:ASN:ND2	B:1:NAG:C2	1.285
15	A:199:PRO:HB2	E:1:NAG:O	1.245
15	A:161:ARG:HH12	D:2:NAG:C6	1.192
15	A:133:ASN:HD21	C:1:NAG:C2	1.125
15	A:133:ASN:CG	C:1:NAG:C1	1.072
15	A:133:ASN:ND2	C:1:NAG:C2	1.068
15	A:103:GLN:HB3	B:1:NAG:CT	1.023
15	A:161:ARG:NH1	D:2:NAG:C6	1.003
15	A:161:ARG:NE	D:1:NAG:O3	0.963
15	A:83:ASN:CG	B:1:NAG:C1	0.938
15	A:133:ASN:ND2	C:1:NAG:C1	0.909
15	A:161:ARG:CZ	D:1:NAG:O3	0.905
15	A:161:ARG:NE	D:1:NAG:C2	0.846
15	A:161:ARG:HE	D:1:NAG:C2	0.839
15	A:171:ASP:OD2	A:172:PHE:HD2	0.833
15	A:199:PRO:CB	E:1:NAG:O	0.814
15	A:161:ARG:CD	D:1:NAG:O3	0.785
15	A:130:ASN:HB2	C:2:NAG:O6	0.780

Model ID	Atom-1	Atom-2	Clash overlap (Å)
15	A:169:ASN:H	A:169:ASN:HD22	0.765
15	A:169:ASN:HD21	A:172:PHE:HB2	0.763
15	A:171:ASP:OD2	A:172:PHE:CD2	0.756
15	A:161:ARG:HD2	D:1:NAG:O3	0.749
15	A:103:GLN:CB	B:1:NAG:CT	0.733
15	A:199:PRO:HB2	E:1:NAG:C	0.714
15	A:168:LEU:HB2	A:172:PHE:O	0.691
15	A:161:ARG:NE	D:1:NAG:C3	0.689
15	A:169:ASN:N	A:169:ASN:ND2	0.674
15	A:83:ASN:HD22	B:1:NAG:C2	0.671
15	A:169:ASN:H	A:169:ASN:ND2	0.671
15	A:161:ARG:NH2	D:1:NAG:H4	0.659
15	A:83:ASN:ND2	B:1:NAG:C	0.643
15	A:161:ARG:HH11	D:2:NAG:H62	0.633
15	A:161:ARG:HH12	D:2:NAG:H62	0.623
15	A:11:ASN:HB3	A:12:PRO:HD3	0.610
15	A:168:LEU:HD21	C:1:NAG:C1	0.596
15	A:117:LEU:HB3	A:118:PRO:HD3	0.591
15	A:79:ASN:ND2	B:2:NAG:O4	0.566
15	A:61:ASN:HB3	A:63:GLN:HG3	0.560
15	A:158:THR:HG22	A:161:ARG:NH2	0.547
15	A:29:THR:HG22	A:63:GLN:HG2	0.536
15	A:130:ASN:CB	C:2:NAG:O6	0.534

Model ID	Atom-1	Atom-2	Clash overlap (Å)
15	A:169:ASN:N	A:169:ASN:HD22	0.499
15	A:174:GLN:NE2	C:1:NAG:CT	0.498
15	A:130:ASN:CB	C:2:NAG:HO6	0.495
15	A:130:ASN:HB2	C:2:NAG:HO6	0.491
15	A:161:ARG:HH12	D:2:NAG:C5	0.486
15	A:161:ARG:CD	D:1:NAG:C2	0.485
15	A:93:ILE:HB	A:94:PRO:HD3	0.477
15	A:79:ASN:HB2	B:1:NAG:H4	0.465
15	A:79:ASN:HB3	B:1:NAG:O3	0.462
15	A:83:ASN:HD22	B:1:NAG:C1	0.461
15	A:198:PRO:HA	A:199:PRO:HD3	0.457
15	A:168:LEU:CD2	C:1:NAG:C1	0.452
15	A:11:ASN:CB	A:12:PRO:HD3	0.441
15	A:199:PRO:CB	E:1:NAG:C	0.437
15	A:155:SER:HA	A:156:PRO:C	0.435
15	A:56:LYS:HD2	A:67:ILE:HD11	0.433
15	A:197:ASN:HA	A:198:PRO:C	0.427
15	A:161:ARG:NH1	D:2:NAG:C5	0.422
15	A:48:LEU:HD12	A:87:LEU:HG	0.421
15	A:103:GLN:CG	B:1:NAG:CT	0.415
15	A:93:ILE:O	A:95:PRO:HD3	0.411
16	A:130:ASN:CB	C:1:NAG:H61	1.548
16	A:130:ASN:CG	C:1:NAG:H61	1.470

Model ID	Atom-1	Atom-2	Clash overlap (Å)
16	A:130:ASN:HB3	C:1:NAG:C6	1.442
16	A:130:ASN:OD1	C:1:NAG:C4	1.366
16	A:199:PRO:CG	E:2:NAG:H62	1.223
16	A:130:ASN:OD1	C:1:NAG:H4	1.188
16	A:130:ASN:CB	C:1:NAG:C6	1.168
16	A:83:ASN:HD21	B:1:NAG:C2	1.158
16	A:199:PRO:HG2	E:2:NAG:H62	1.151
16	A:130:ASN:CG	C:1:NAG:C6	1.142
16	A:130:ASN:OD1	C:1:NAG:C5	1.105
16	A:199:PRO:HG2	E:2:NAG:C6	1.020
16	A:130:ASN:HB3	C:1:NAG:H62	0.973
16	A:199:PRO:CG	E:2:NAG:C6	0.957
16	A:83:ASN:ND2	B:1:NAG:C2	0.906
16	A:130:ASN:HB3	C:1:NAG:H61	0.901
16	A:199:PRO:HG3	E:2:NAG:H62	0.849
16	A:171:ASP:OD2	A:172:PHE:HD2	0.833
16	A:199:PRO:HG3	E:2:NAG:C6	0.798
16	A:169:ASN:H	A:169:ASN:HD22	0.765
16	A:169:ASN:HD21	A:172:PHE:HB2	0.763
16	A:171:ASP:OD2	A:172:PHE:CD2	0.756
16	A:130:ASN:OD1	C:1:NAG:C6	0.754
16	A:83:ASN:HD21	B:1:NAG:C	0.720
16	A:83:ASN:ND2	B:1:NAG:N	0.713

Model ID	Atom-1	Atom-2	Clash overlap (Å)
16	A:130:ASN:CG	C:1:NAG:C5	0.704
16	A:83:ASN:ND2	B:1:NAG:C	0.693
16	A:168:LEU:HB2	A:172:PHE:O	0.691
16	A:169:ASN:N	A:169:ASN:ND2	0.674
16	A:169:ASN:H	A:169:ASN:ND2	0.671
16	A:130:ASN:OD1	C:1:NAG:H61	0.652
16	A:197:ASN:CG	E:7:MAN:H61	0.649
16	A:11:ASN:HB3	A:12:PRO:HD3	0.610
16	A:79:ASN:HD22	A:80:ASN:H	0.592
16	A:117:LEU:HB3	A:118:PRO:HD3	0.591
16	A:199:PRO:CG	E:2:NAG:H61	0.571
16	A:61:ASN:HB3	A:63:GLN:HG3	0.560
16	A:158:THR:HG22	A:161:ARG:NH2	0.547
16	A:29:THR:HG22	A:63:GLN:HG2	0.536
16	A:197:ASN:CB	E:7:MAN:O6	0.531
16	A:103:GLN:HB3	B:1:NAG:CT	0.511
16	A:130:ASN:OD1	C:1:NAG:O5	0.511
16	A:169:ASN:N	A:169:ASN:HD22	0.499
16	A:168:LEU:CD2	C:1:NAG:O	0.480
16	A:93:ILE:HB	A:94:PRO:HD3	0.477
16	A:83:ASN:ND2	B:1:NAG:O	0.472
16	A:197:ASN:CG	E:7:MAN:C6	0.469
16	A:197:ASN:HB3	E:7:MAN:O6	0.466

Model ID	Atom-1	Atom-2	Clash overlap (Å)
16	A:198:PRO:HA	A:199:PRO:HD3	0.457
16	A:11:ASN:CB	A:12:PRO:HD3	0.441
16	A:155:SER:HA	A:156:PRO:C	0.435
16	A:56:LYS:HD2	A:67:ILE:HD11	0.433
16	A:199:PRO:HB2	E:1:NAG:O	0.431
16	A:197:ASN:HA	A:198:PRO:C	0.427
16	A:199:PRO:HG3	E:2:NAG:H61	0.424
16	A:48:LEU:HD12	A:87:LEU:HG	0.421
16	A:93:ILE:O	A:95:PRO:HD3	0.411
17	A:130:ASN:HA	C:1:NAG:CT	1.685
17	A:103:GLN:CB	B:1:NAG:CT	1.607
17	A:103:GLN:HB3	B:1:NAG:CT	1.519
17	A:79:ASN:CG	B:2:NAG:H5	1.448
17	A:83:ASN:HD21	B:1:NAG:C2	1.380
17	A:80:ASN:OD1	B:2:NAG:C6	1.353
17	A:130:ASN:CA	C:1:NAG:CT	1.323
17	A:130:ASN:C	C:1:NAG:C	1.266
17	A:79:ASN:ND2	B:2:NAG:H61	1.211
17	A:80:ASN:OD1	B:2:NAG:H61	1.167
17	A:103:GLN:CA	B:1:NAG:CT	1.088
17	A:79:ASN:CG	B:2:NAG:C5	1.077
17	A:83:ASN:ND2	B:1:NAG:C2	1.074
17	A:130:ASN:CA	C:1:NAG:C	1.053

Model ID	Atom-1	Atom-2	Clash overlap (Å)
17	A:79:ASN:ND2	B:2:NAG:C6	1.022
17	A:79:ASN:OD1	B:2:NAG:H5	0.959
17	A:79:ASN:ND2	B:2:NAG:C5	0.931
17	A:79:ASN:HD22	B:2:NAG:H61	0.911
17	A:103:GLN:CG	B:1:NAG:CT	0.880
17	A:131:SER:C	C:1:NAG:O	0.875
17	A:130:ASN:OD1	C:1:NAG:C1	0.870
17	A:130:ASN:C	C:1:NAG:O	0.865
17	A:80:ASN:OD1	B:2:NAG:H62	0.864
17	A:79:ASN:ND2	B:2:NAG:H5	0.847
17	A:131:SER:N	C:1:NAG:O	0.847
17	A:171:ASP:OD2	A:172:PHE:HD2	0.833
17	A:83:ASN:ND2	B:1:NAG:N	0.811
17	A:169:ASN:H	A:169:ASN:HD22	0.765
17	A:169:ASN:HD21	A:172:PHE:HB2	0.763
17	A:171:ASP:OD2	A:172:PHE:CD2	0.756
17	A:130:ASN:HB3	C:1:NAG:C3	0.742
17	A:80:ASN:OD1	B:2:NAG:O6	0.741
17	A:130:ASN:HB3	C:1:NAG:H3	0.740
17	A:131:SER:N	C:1:NAG:C	0.726
17	A:103:GLN:HG2	B:1:NAG:N	0.710
17	A:168:LEU:HB2	A:172:PHE:O	0.691
17	A:169:ASN:N	A:169:ASN:ND2	0.674



Model ID	Atom-1	Atom-2	Clash overlap (Å)
17	A:169:ASN:H	A:169:ASN:ND2	0.671
17	A:103:GLN:HA	B:1:NAG:CT	0.659
17	A:103:GLN:CG	B:1:NAG:N	0.628
17	A:11:ASN:HB3	A:12:PRO:HD3	0.610
17	A:79:ASN:ND2	B:2:NAG:O4	0.610
17	A:103:GLN:C	B:1:NAG:CT	0.608
17	A:130:ASN:HB3	C:1:NAG:O3	0.602
17	A:79:ASN:HD22	A:80:ASN:H	0.592
17	A:117:LEU:HB3	A:118:PRO:HD3	0.591
17	A:130:ASN:CB	C:1:NAG:C3	0.576
17	A:83:ASN:CG	B:1:NAG:N	0.569
17	A:130:ASN:OD1	C:1:NAG:H3	0.569
17	A:131:SER:CA	C:1:NAG:O	0.561
17	A:61:ASN:HB3	A:63:GLN:HG3	0.560
17	A:103:GLN:CD	B:1:NAG:N	0.557
17	A:79:ASN:CB	B:2:NAG:H5	0.556
17	A:158:THR:HG22	A:161:ARG:NH2	0.547
17	A:103:GLN:HG2	B:1:NAG:CT	0.542
17	A:29:THR:HG22	A:63:GLN:HG2	0.536
17	A:130:ASN:C	C:1:NAG:CT	0.523
17	A:130:ASN:C	C:1:NAG:N	0.513
17	A:169:ASN:N	A:169:ASN:HD22	0.499
17	A:103:GLN:HG2	B:1:NAG:C	0.494

Model ID	Atom-1	Atom-2	Clash overlap (Å)
17	A:83:ASN:ND2	B:1:NAG:C	0.492
17	A:130:ASN:CB	C:1:NAG:H3	0.486
17	A:93:ILE:HB	A:94:PRO:HD3	0.477
17	A:198:PRO:HA	A:199:PRO:HD3	0.457
17	A:11:ASN:CB	A:12:PRO:HD3	0.441
17	A:155:SER:HA	A:156:PRO:C	0.435
17	A:56:LYS:HD2	A:67:ILE:HD11	0.433
17	A:103:GLN:CG	B:1:NAG:C	0.428
17	A:197:ASN:HA	A:198:PRO:C	0.427
17	A:131:SER:N	C:1:NAG:CT	0.425
17	A:130:ASN:O	C:1:NAG:C	0.424
17	A:48:LEU:HD12	A:87:LEU:HG	0.421
17	A:130:ASN:CB	C:1:NAG:CT	0.414
17	A:93:ILE:O	A:95:PRO:HD3	0.411
17	A:80:ASN:HB3	B:7:MAN:O6	0.400
18	A:103:GLN:HB3	B:1:NAG:CT	1.427
18	A:130:ASN:CG	C:1:NAG:H61	1.324
18	A:129:PRO:HB3	C:5:MAN:O4	1.322
18	A:103:GLN:CB	B:1:NAG:CT	1.278
18	A:130:ASN:CB	C:1:NAG:H61	1.276
18	A:103:GLN:CG	B:1:NAG:CT	1.177
18	A:129:PRO:HB2	C:5:MAN:H61	1.171
18	A:83:ASN:ND2	B:1:NAG:C	1.146

Model ID	Atom-1	Atom-2	Clash overlap (Å)
18	A:83:ASN:ND2	B:1:NAG:O	1.073
18	A:83:ASN:HD21	B:1:NAG:C	1.070
18	A:83:ASN:ND2	B:1:NAG:C2	1.050
18	A:129:PRO:CB	C:5:MAN:H61	1.013
18	A:130:ASN:HB3	C:1:NAG:H61	0.996
18	A:129:PRO:CB	C:5:MAN:O4	0.994
18	A:83:ASN:ND2	B:1:NAG:N	0.972
18	A:83:ASN:HD21	B:1:NAG:C2	0.971
18	A:103:GLN:HG2	B:1:NAG:CT	0.969
18	A:130:ASN:OD1	C:1:NAG:H4	0.940
18	A:130:ASN:CG	C:1:NAG:C6	0.896
18	A:130:ASN:CB	C:1:NAG:C6	0.888
18	A:129:PRO:HB3	C:5:MAN:C4	0.880
18	A:129:PRO:HB2	C:5:MAN:C6	0.862
18	A:130:ASN:HB3	C:1:NAG:C6	0.862
18	A:83:ASN:CG	B:1:NAG:N	0.837
18	A:171:ASP:OD2	A:172:PHE:HD2	0.833
18	A:129:PRO:HB3	C:5:MAN:C5	0.789
18	A:169:ASN:H	A:169:ASN:HD22	0.765
18	A:169:ASN:HD21	A:172:PHE:HB2	0.763
18	A:171:ASP:OD2	A:172:PHE:CD2	0.756
18	A:199:PRO:CG	E:1:NAG:O6	0.740
18	A:199:PRO:HG2	E:1:NAG:O6	0.712

Model ID	Atom-1	Atom-2	Clash overlap (Å)
18	A:129:PRO:CB	C:5:MAN:C6	0.696
18	A:168:LEU:HB2	A:172:PHE:O	0.691
18	A:130:ASN:OD1	C:1:NAG:C4	0.690
18	A:199:PRO:HG2	E:1:NAG:C6	0.685
18	A:130:ASN:OD1	C:1:NAG:H61	0.685
18	A:103:GLN:CD	B:1:NAG:CT	0.681
18	A:169:ASN:N	A:169:ASN:ND2	0.674
18	A:169:ASN:H	A:169:ASN:ND2	0.671
18	A:129:PRO:HB3	C:5:MAN:HO4	0.639
18	A:199:PRO:HB2	E:1:NAG:O6	0.633
18	A:11:ASN:HB3	A:12:PRO:HD3	0.610
18	A:103:GLN:CD	B:1:NAG:N	0.609
18	A:103:GLN:HG2	B:1:NAG:C	0.606
18	A:129:PRO:CB	C:5:MAN:C5	0.604
18	A:129:PRO:HB3	C:5:MAN:H5	0.597
18	A:79:ASN:HD22	A:80:ASN:H	0.592
18	A:117:LEU:HB3	A:118:PRO:HD3	0.591
18	A:199:PRO:CB	E:1:NAG:O6	0.588
18	A:129:PRO:CB	C:5:MAN:H5	0.566
18	A:61:ASN:HB3	A:63:GLN:HG3	0.560
18	A:83:ASN:CG	B:1:NAG:C	0.552
18	A:158:THR:HG22	A:161:ARG:NH2	0.547
18	A:103:GLN:OE1	B:1:NAG:CT	0.539

Model ID	Atom-1	Atom-2	Clash overlap (Å)
18	A:29:THR:HG22	A:63:GLN:HG2	0.536
18	A:169:ASN:N	A:169:ASN:HD22	0.499
18	A:129:PRO:HB3	C:5:MAN:C6	0.486
18	A:93:ILE:HB	A:94:PRO:HD3	0.477
18	A:103:GLN:HG2	B:1:NAG:N	0.466
18	A:129:PRO:CA	C:5:MAN:O4	0.466
18	A:198:PRO:HA	A:199:PRO:HD3	0.457
18	A:130:ASN:OD1	C:1:NAG:C5	0.457
18	A:199:PRO:CD	E:1:NAG:O6	0.449
18	A:11:ASN:CB	A:12:PRO:HD3	0.441
18	A:199:PRO:HD2	E:1:NAG:O6	0.440
18	A:155:SER:HA	A:156:PRO:C	0.435
18	A:56:LYS:HD2	A:67:ILE:HD11	0.433
18	A:129:PRO:CB	C:5:MAN:HO4	0.430
18	A:197:ASN:HA	A:198:PRO:C	0.427
18	A:48:LEU:HD12	A:87:LEU:HG	0.421
18	A:93:ILE:O	A:95:PRO:HD3	0.411
19	A:199:PRO:HB2	E:1:NAG:C	1.530
19	A:199:PRO:C	E:1:NAG:O	1.410
19	A:79:ASN:ND2	B:2:NAG:CT	1.370
19	A:199:PRO:CB	E:1:NAG:C	1.331
19	A:199:PRO:HG2	E:1:NAG:O3	1.301
19	A:161:ARG:O	D:1:NAG:CT	1.256

Model ID	Atom-1	Atom-2	Clash overlap (Å)
19	A:161:ARG:HG2	D:1:NAG:O	1.190
19	A:79:ASN:HB3	B:1:NAG:O6	1.145
19	A:199:PRO:HB2	E:1:NAG:O	1.110
19	A:79:ASN:HD21	B:2:NAG:CT	1.107
19	A:199:PRO:CG	E:1:NAG:O3	1.026
19	A:199:PRO:CB	E:1:NAG:O	0.944
19	A:199:PRO:CA	E:1:NAG:O	0.929
19	A:199:PRO:HB3	E:1:NAG:CT	0.916
19	A:79:ASN:HB3	B:1:NAG:C6	0.913
19	A:199:PRO:HB2	E:1:NAG:N	0.890
19	A:199:PRO:CD	E:2:NAG:H62	0.863
19	A:200:LYS:N	E:1:NAG:O	0.838
19	A:171:ASP:OD2	A:172:PHE:HD2	0.833
19	A:199:PRO:HD3	E:2:NAG:H62	0.809
19	A:79:ASN:ND2	B:2:NAG:C	0.800
19	A:161:ARG:O	D:1:NAG:C	0.783
19	A:169:ASN:H	A:169:ASN:HD22	0.765
19	A:169:ASN:HD21	A:172:PHE:HB2	0.763
19	A:171:ASP:OD2	A:172:PHE:CD2	0.756
19	A:79:ASN:CB	B:1:NAG:O6	0.748
19	A:199:PRO:HG2	E:1:NAG:HO3	0.734
19	A:199:PRO:CB	E:1:NAG:CT	0.733
19	A:83:ASN:ND2	B:1:NAG:C1	0.710

Model ID	Atom-1	Atom-2	Clash overlap (Å)
19	A:199:PRO:HD2	E:2:NAG:H62	0.697
19	A:168:LEU:HB2	A:172:PHE:O	0.691
19	A:79:ASN:CG	B:2:NAG:CT	0.689
19	A:83:ASN:ND2	B:1:NAG:O5	0.678
19	A:169:ASN:N	A:169:ASN:ND2	0.674
19	A:169:ASN:H	A:169:ASN:ND2	0.671
19	A:199:PRO:HD3	E:2:NAG:C6	0.657
19	A:79:ASN:HB3	B:1:NAG:H62	0.651
19	A:79:ASN:CB	B:1:NAG:C6	0.642
19	A:199:PRO:O	E:1:NAG:O	0.622
19	A:11:ASN:HB3	A:12:PRO:HD3	0.610
19	A:181:PHE:CB	D:2:NAG:CT	0.607
19	A:79:ASN:HD22	A:80:ASN:H	0.592
19	A:117:LEU:HB3	A:118:PRO:HD3	0.591
19	A:61:ASN:HB3	A:63:GLN:HG3	0.560
19	A:79:ASN:CB	B:1:NAG:H62	0.560
19	A:158:THR:HG22	A:161:ARG:NH2	0.547
19	A:29:THR:HG22	A:63:GLN:HG2	0.536
19	A:169:ASN:N	A:169:ASN:HD22	0.499
19	A:174:GLN:NE2	C:1:NAG:C6	0.488
19	A:161:ARG:CG	D:1:NAG:O	0.487
19	A:161:ARG:HG2	D:1:NAG:C	0.485
19	A:93:ILE:HB	A:94:PRO:HD3	0.477

Model ID	Atom-1	Atom-2	Clash overlap (Å)
19	A:198:PRO:HA	A:199:PRO:HD3	0.457
19	A:11:ASN:CB	A:12:PRO:HD3	0.441
19	A:155:SER:HA	A:156:PRO:C	0.435
19	A:56:LYS:HD2	A:67:ILE:HD11	0.433
19	A:197:ASN:HA	A:198:PRO:C	0.427
19	A:48:LEU:HD12	A:87:LEU:HG	0.421
19	A:199:PRO:CB	E:1:NAG:O3	0.418
19	A:93:ILE:O	A:95:PRO:HD3	0.411
20	A:168:LEU:CD2	C:1:NAG:O	1.334
20	A:161:ARG:NE	D:1:NAG:O6	1.215
20	A:161:ARG:CZ	D:1:NAG:O6	1.174
20	A:79:ASN:HB3	B:1:NAG:H62	1.118
20	A:199:PRO:HB2	E:1:NAG:O6	1.063
20	A:80:ASN:OD1	B:2:NAG:CT	1.045
20	A:168:LEU:HD22	C:1:NAG:O	1.044
20	A:79:ASN:HB3	B:1:NAG:C6	1.033
20	A:79:ASN:CB	B:1:NAG:H62	1.028
20	A:199:PRO:CB	E:1:NAG:O6	0.958
20	A:83:ASN:ND2	B:1:NAG:O5	0.947
20	A:168:LEU:HD23	C:1:NAG:O	0.942
20	A:133:ASN:ND2	C:1:NAG:O5	0.886
20	A:172:PHE:CG	C:1:NAG:CT	0.865
20	A:171:ASP:OD2	A:172:PHE:HD2	0.833



Model ID	Atom-1	Atom-2	Clash overlap (Å)
20	A:172:PHE:CD1	C:1:NAG:CT	0.829
20	A:172:PHE:HB3	C:1:NAG:CT	0.785
20	A:169:ASN:H	A:169:ASN:HD22	0.765
20	A:169:ASN:HD21	A:172:PHE:HB2	0.763
20	A:171:ASP:OD2	A:172:PHE:CD2	0.756
20	A:199:PRO:HG2	E:2:NAG:CT	0.756
20	A:161:ARG:CZ	D:1:NAG:HO6	0.752
20	A:172:PHE:CB	C:1:NAG:CT	0.751
20	A:133:ASN:ND2	C:1:NAG:C1	0.740
20	A:168:LEU:HB2	A:172:PHE:O	0.691
20	A:199:PRO:CG	E:2:NAG:CT	0.683
20	A:199:PRO:CG	E:1:NAG:O6	0.682
20	A:199:PRO:HG2	E:1:NAG:C6	0.681
20	A:199:PRO:HB2	E:1:NAG:C6	0.676
20	A:169:ASN:N	A:169:ASN:ND2	0.674
20	A:169:ASN:H	A:169:ASN:ND2	0.671
20	A:11:ASN:HB3	A:12:PRO:HD3	0.610
20	A:117:LEU:HB3	A:118:PRO:HD3	0.591
20	A:181:PHE:CB	D:1:NAG:CT	0.584
20	A:61:ASN:HB3	A:63:GLN:HG3	0.560
20	A:161:ARG:NH2	D:1:NAG:O6	0.557
20	A:199:PRO:HG2	E:1:NAG:H62	0.551
20	A:158:THR:HG22	A:161:ARG:NH2	0.547

Model ID	Atom-1	Atom-2	Clash overlap (Å)
20	A:168:LEU:HD21	C:1:NAG:O	0.540
20	A:29:THR:HG22	A:63:GLN:HG2	0.536
20	A:199:PRO:CG	E:1:NAG:C6	0.532
20	A:161:ARG:NE	D:1:NAG:C6	0.513
20	A:169:ASN:N	A:169:ASN:HD22	0.499
20	A:133:ASN:HD22	C:1:NAG:C1	0.482
20	A:161:ARG:CD	D:1:NAG:O6	0.481
20	A:93:ILE:HB	A:94:PRO:HD3	0.477
20	A:199:PRO:O	E:1:NAG:O6	0.473
20	A:199:PRO:CD	E:1:NAG:O6	0.469
20	A:83:ASN:ND2	B:1:NAG:C1	0.463
20	A:198:PRO:HA	A:199:PRO:HD3	0.457
20	A:161:ARG:HD2	D:1:NAG:H61	0.452
20	A:79:ASN:HB3	B:1:NAG:O6	0.447
20	A:11:ASN:CB	A:12:PRO:HD3	0.441
20	A:155:SER:HA	A:156:PRO:C	0.435
20	A:56:LYS:HD2	A:67:ILE:HD11	0.433
20	A:197:ASN:HA	A:198:PRO:C	0.427
20	A:48:LEU:HD12	A:87:LEU:HG	0.421
20	A:79:ASN:CB	B:1:NAG:C6	0.420
20	A:93:ILE:O	A:95:PRO:HD3	0.411

### 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	207	178	26	3
2	207	178	26	3
3	207	178	26	3
4	207	178	26	3
5	207	178	26	3
6	207	178	26	3
7	207	178	26	3
8	207	178	26	3
9	207	178	26	3
10	207	178	26	3
11	207	178	26	3
12	207	178	26	3
13	207	178	26	3
14	207	178	26	3
15	207	178	26	3
16	207	178	26	3
17	207	178	26	3
18	207	178	26	3
19	207	178	26	3
20	207	178	26	3

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
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Model ID	Analyzed	Favored	Allowed	Outliers
1	185	144	31	10
2	185	144	31	10
3	185	144	31	10
4	185	144	31	10
5	185	144	31	10
6	185	144	31	10
7	185	144	31	10
8	185	144	31	10
9	185	144	31	10
10	185	144	31	10
11	185	144	31	10
12	185	144	31	10
13	185	144	31	10
14	185	144	31	10
15	185	144	31	10
16	185	144	31	10
17	185	144	31	10
18	185	144	31	10
19	185	144	31	10
20	185	144	31	10

*Detailed list of outliers are tabulated below.*

Model ID	Chain	Residue ID	Residue type
1	A	8	PHE

Model ID	Chain	Residue ID	Residue type
1	A	18	GLU
1	A	43	ILE
1	A	73	GLU
1	A	79	ASN
1	A	135	THR
1	A	152	LEU
1	A	169	ASN
1	A	177	LEU
1	A	185	ILE
2	A	8	PHE
2	A	18	GLU
2	A	43	ILE
2	A	73	GLU
2	A	79	ASN
2	A	135	THR
2	A	152	LEU
2	A	169	ASN
2	A	177	LEU
2	A	185	ILE
3	A	8	PHE
3	A	18	GLU
3	A	43	ILE
3	A	73	GLU

Model ID	Chain	Residue ID	Residue type
3	A	79	ASN
3	A	135	THR
3	A	152	LEU
3	A	169	ASN
3	A	177	LEU
3	A	185	ILE
4	A	8	PHE
4	A	18	GLU
4	A	43	ILE
4	A	73	GLU
4	A	79	ASN
4	A	135	THR
4	A	152	LEU
4	A	169	ASN
4	A	177	LEU
4	A	185	ILE
5	A	8	PHE
5	A	18	GLU
5	A	43	ILE
5	A	73	GLU
5	A	79	ASN
5	A	135	THR
5	A	152	LEU

Model ID	Chain	Residue ID	Residue type
5	A	169	ASN
5	A	177	LEU
5	A	185	ILE
6	A	8	PHE
6	A	18	GLU
6	A	43	ILE
6	A	73	GLU
6	A	79	ASN
6	A	135	THR
6	A	152	LEU
6	A	169	ASN
6	A	177	LEU
6	A	185	ILE
7	A	8	PHE
7	A	18	GLU
7	A	43	ILE
7	A	73	GLU
7	A	79	ASN
7	A	135	THR
7	A	152	LEU
7	A	169	ASN
7	A	177	LEU
7	A	185	ILE

Model ID	Chain	Residue ID	Residue type
8	A	8	PHE
8	A	18	GLU
8	A	43	ILE
8	A	73	GLU
8	A	79	ASN
8	A	135	THR
8	A	152	LEU
8	A	169	ASN
8	A	177	LEU
8	A	185	ILE
9	A	8	PHE
9	A	18	GLU
9	A	43	ILE
9	A	73	GLU
9	A	79	ASN
9	A	135	THR
9	A	152	LEU
9	A	169	ASN
9	A	177	LEU
9	A	185	ILE
10	A	8	PHE
10	A	18	GLU
10	A	43	ILE



Model ID	Chain	Residue ID	Residue type
10	A	73	GLU
10	A	79	ASN
10	A	135	THR
10	A	152	LEU
10	A	169	ASN
10	A	177	LEU
10	A	185	ILE
11	A	8	PHE
11	A	18	GLU
11	A	43	ILE
11	A	73	GLU
11	A	79	ASN
11	A	135	THR
11	A	152	LEU
11	A	169	ASN
11	A	177	LEU
11	A	185	ILE
12	A	8	PHE
12	A	18	GLU
12	A	43	ILE
12	A	73	GLU
12	A	79	ASN
12	A	135	THR

Model ID	Chain	Residue ID	Residue type
12	A	152	LEU
12	A	169	ASN
12	A	177	LEU
12	A	185	ILE
13	A	8	PHE
13	A	18	GLU
13	A	43	ILE
13	A	73	GLU
13	A	79	ASN
13	A	135	THR
13	A	152	LEU
13	A	169	ASN
13	A	177	LEU
13	A	185	ILE
14	A	8	PHE
14	A	18	GLU
14	A	43	ILE
14	A	73	GLU
14	A	79	ASN
14	A	135	THR
14	A	152	LEU
14	A	169	ASN
14	A	177	LEU

Model ID	Chain	Residue ID	Residue type
14	A	185	ILE
15	A	8	PHE
15	A	18	GLU
15	A	43	ILE
15	A	73	GLU
15	A	79	ASN
15	A	135	THR
15	A	152	LEU
15	A	169	ASN
15	A	177	LEU
15	A	185	ILE
16	A	8	PHE
16	A	18	GLU
16	A	43	ILE
16	A	73	GLU
16	A	79	ASN
16	A	135	THR
16	A	152	LEU
16	A	169	ASN
16	A	177	LEU
16	A	185	ILE
17	A	8	PHE
17	A	18	GLU

Model ID	Chain	Residue ID	Residue type
17	A	43	ILE
17	A	73	GLU
17	A	79	ASN
17	A	135	THR
17	A	152	LEU
17	A	169	ASN
17	A	177	LEU
17	A	185	ILE
18	A	8	PHE
18	A	18	GLU
18	A	43	ILE
18	A	73	GLU
18	A	79	ASN
18	A	135	THR
18	A	152	LEU
18	A	169	ASN
18	A	177	LEU
18	A	185	ILE
19	A	8	PHE
19	A	18	GLU
19	A	43	ILE
19	A	73	GLU
19	A	79	ASN

Model ID	Chain	Residue ID	Residue type
19	A	135	THR
19	A	152	LEU
19	A	169	ASN
19	A	177	LEU
19	A	185	ILE
20	A	8	PHE
20	A	18	GLU
20	A	43	ILE
20	A	73	GLU
20	A	79	ASN
20	A	135	THR
20	A	152	LEU
20	A	169	ASN
20	A	177	LEU
20	A	185	ILE

### Fit of model to data used for modeling ?

SAS data used in this integrative model could not be validated as the sascif file is currently unavailable.

### Fit of model to data used for validation ?

Validation for this section is under development.

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