

# Integrative Structure Validation Report

July 22, 2024 - 05:34 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	9A46
PDB-Dev ID	PDBDEV_00000227
Structure Title	F1N6 fully-glycosylated model of mouse N-cadherin EC1-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)*

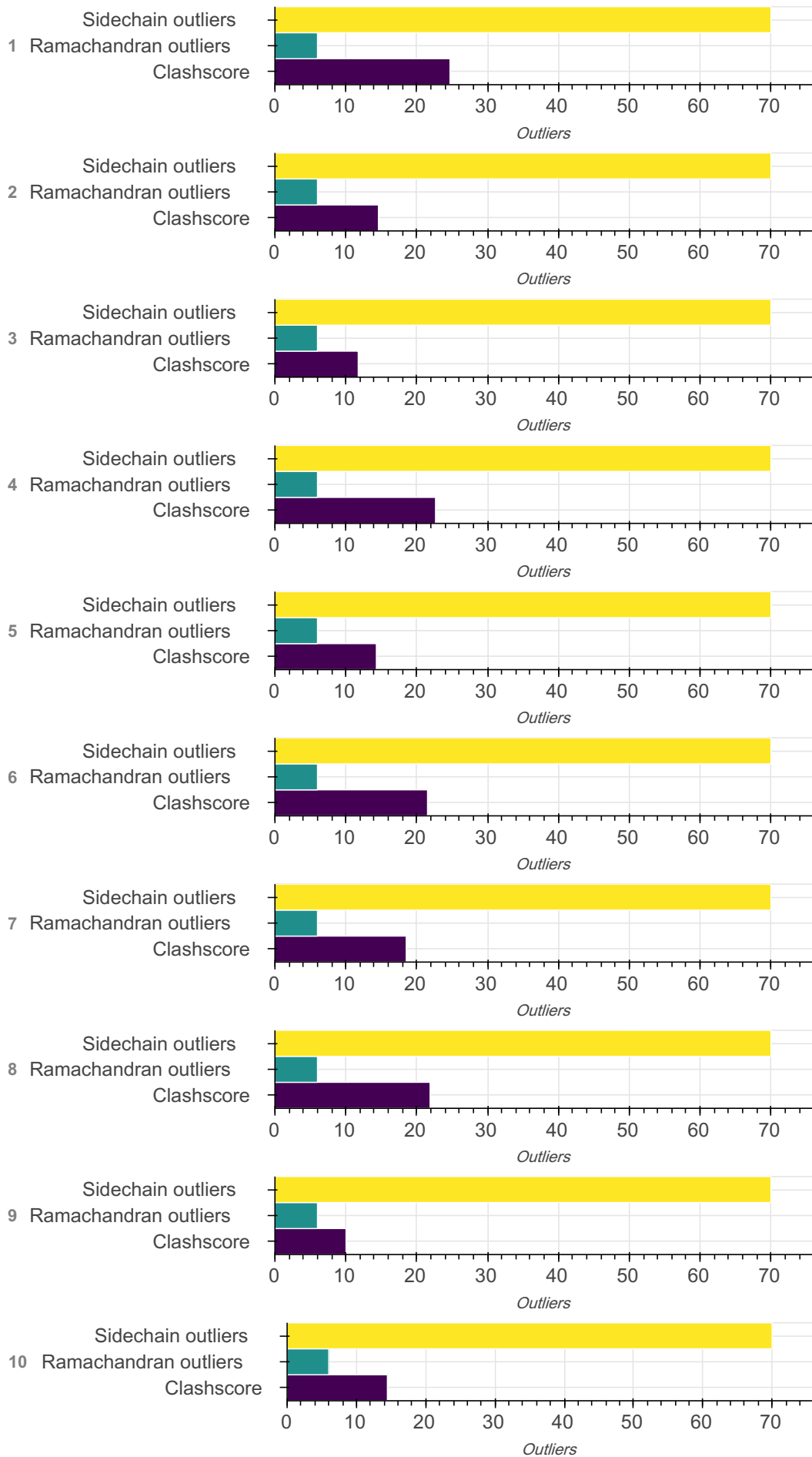
*A user guide is available at [https://pdb-dev.wwpdb.org/validation\\_help.html](https://pdb-dev.wwpdb.org/validation_help.html) with specific help available everywhere you see the  symbol.*

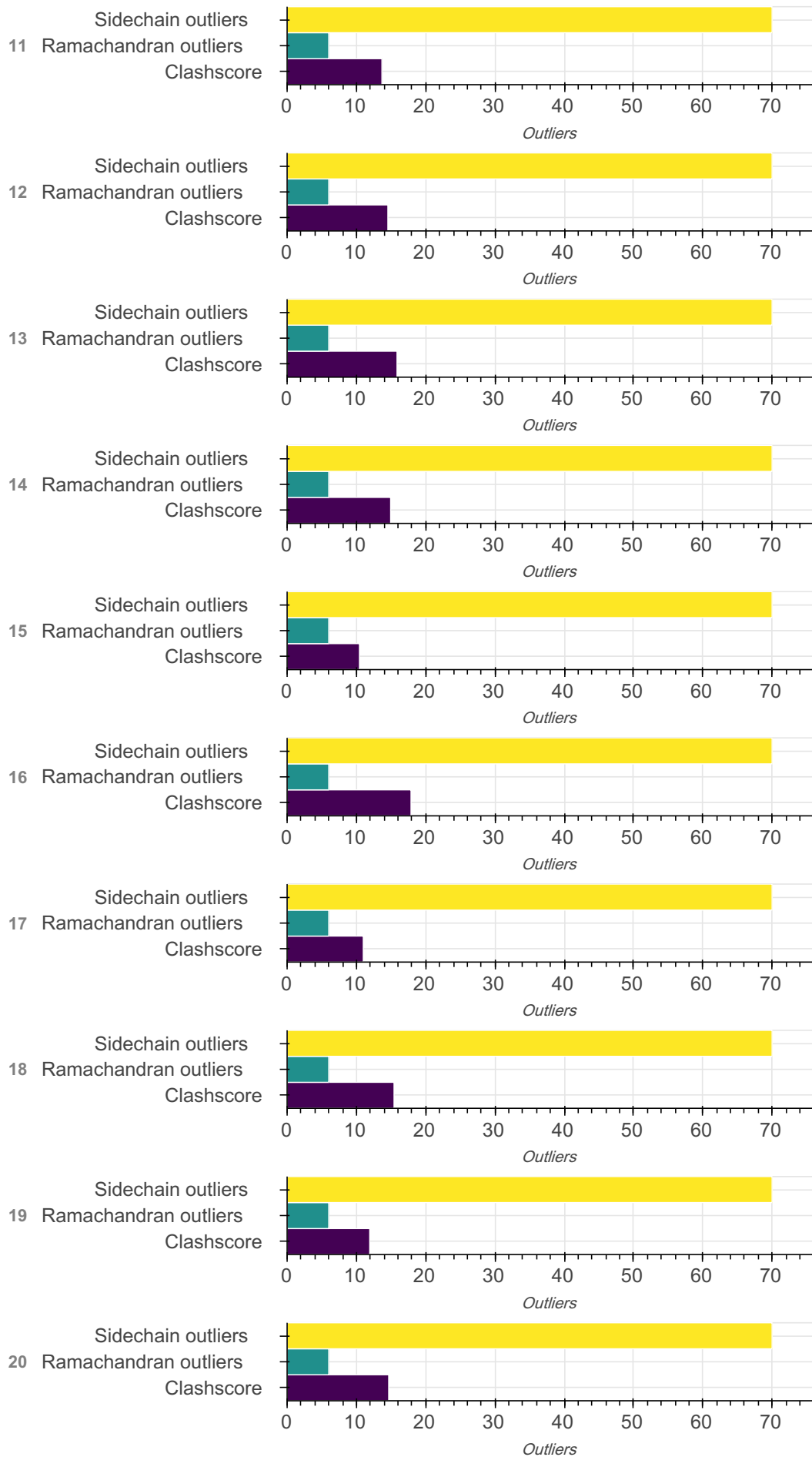
*List of references used to build this report is available [here](#).*

## 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 18 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 18 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	541
1	2	1	Cadherin-2	B	B	541
1	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
1	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18
1	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
1	6	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	F	F	18
1	7	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	G	G	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
1	8	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	H	H	18
1	9	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	I	I	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
1	10	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	J	J	18
1	11	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	K	K	18



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
1	12	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	L	L	18
1	13	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	M	M	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
1	14	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	N	N	18
1	15	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	O	O	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
1	16	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	P	P	18
1	17	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	Q	Q	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
1	18	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	R	R	18
2	1	1	Cadherin-2	A	A	541
2	2	1	Cadherin-2	B	B	541
2	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
2	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18
2	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
2	6	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	F	F	18
2	7	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	G	G	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
2	8	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	H	H	18
2	9	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	I	I	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
2	10	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	J	J	18
2	11	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	K	K	18



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
2	12	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	L	L	18
2	13	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	M	M	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
2	14	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	N	N	18
2	15	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	O	O	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
2	16	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	P	P	18
2	17	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	Q	Q	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
2	18	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	R	R	18
3	1	1	Cadherin-2	A	A	541
3	2	1	Cadherin-2	B	B	541
3	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
3	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18
3	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
3	6	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	F	F	18
3	7	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	G	G	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
3	8	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	H	H	18
3	9	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	I	I	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
3	10	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	J	J	18
3	11	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	K	K	18



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
3	12	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	L	L	18
3	13	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	M	M	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
3	14	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	N	N	18
3	15	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	O	O	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
3	16	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	P	P	18
3	17	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	Q	Q	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
3	18	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	R	R	18
4	1	1	Cadherin-2	A	A	541
4	2	1	Cadherin-2	B	B	541
4	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18
4	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	6	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	F	F	18
4	7	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	G	G	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	8	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	H	H	18
4	9	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	I	I	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	10	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	J	J	18
4	11	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	K	K	18



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	12	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	L	L	18
4	13	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	M	M	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	14	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	N	N	18
4	15	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	O	O	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	16	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	P	P	18
4	17	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	Q	Q	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	18	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	R	R	18
5	1	1	Cadherin-2	A	A	541
5	2	1	Cadherin-2	B	B	541
5	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18
5	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	6	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	F	F	18
5	7	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	G	G	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	8	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	H	H	18
5	9	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	I	I	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	10	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	J	J	18
5	11	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	K	K	18



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	12	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	L	L	18
5	13	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	M	M	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	14	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	N	N	18
5	15	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	O	O	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	16	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	P	P	18
5	17	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	Q	Q	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	18	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	R	R	18
6	1	1	Cadherin-2	A	A	541
6	2	1	Cadherin-2	B	B	541
6	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18
6	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	6	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	F	F	18
6	7	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	G	G	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	8	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	H	H	18
6	9	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	I	I	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	10	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	J	J	18
6	11	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	K	K	18



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	12	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	L	L	18
6	13	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	M	M	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	14	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	N	N	18
6	15	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	O	O	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	16	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	P	P	18
6	17	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	Q	Q	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	18	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	R	R	18
7	1	1	Cadherin-2	A	A	541
7	2	1	Cadherin-2	B	B	541
7	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
7	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18
7	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
7	6	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	F	F	18
7	7	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	G	G	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
7	8	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	H	H	18
7	9	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	I	I	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
7	10	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	J	J	18
7	11	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	K	K	18



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
7	12	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	L	L	18
7	13	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	M	M	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
7	14	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	N	N	18
7	15	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	O	O	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
7	16	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	P	P	18
7	17	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	Q	Q	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
7	18	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	R	R	18
8	1	1	Cadherin-2	A	A	541
8	2	1	Cadherin-2	B	B	541
8	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
8	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18
8	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
8	6	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	F	F	18
8	7	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	G	G	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
8	8	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	H	H	18
8	9	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	I	I	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
8	10	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	J	J	18
8	11	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	K	K	18



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
8	12	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	L	L	18
8	13	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	M	M	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
8	14	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	N	N	18
8	15	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	O	O	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
8	16	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	P	P	18
8	17	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	Q	Q	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
8	18	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	R	R	18
9	1	1	Cadherin-2	A	A	541
9	2	1	Cadherin-2	B	B	541
9	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
9	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18
9	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
9	6	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	F	F	18
9	7	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	G	G	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
9	8	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	H	H	18
9	9	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	I	I	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
9	10	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	J	J	18
9	11	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	K	K	18



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
9	12	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	L	L	18
9	13	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	M	M	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
9	14	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	N	N	18
9	15	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	O	O	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
9	16	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	P	P	18
9	17	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	Q	Q	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
9	18	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	R	R	18
10	1	1	Cadherin-2	A	A	541
10	2	1	Cadherin-2	B	B	541
10	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
10	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18
10	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
10	6	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	F	F	18
10	7	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	G	G	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
10	8	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	H	H	18
10	9	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	I	I	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
10	10	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	J	J	18
10	11	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	K	K	18



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
10	12	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	L	L	18
10	13	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	M	M	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
10	14	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	N	N	18
10	15	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	O	O	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
10	16	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	P	P	18
10	17	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	Q	Q	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
10	18	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	R	R	18
11	1	1	Cadherin-2	A	A	541
11	2	1	Cadherin-2	B	B	541
11	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
11	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18
11	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
11	6	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	F	F	18
11	7	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	G	G	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
11	8	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	H	H	18
11	9	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	I	I	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
11	10	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	J	J	18
11	11	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	K	K	18



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
11	12	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	L	L	18
11	13	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	M	M	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
11	14	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	N	N	18
11	15	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	O	O	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
11	16	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	P	P	18
11	17	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	Q	Q	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
11	18	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	R	R	18
12	1	1	Cadherin-2	A	A	541
12	2	1	Cadherin-2	B	B	541
12	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
12	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18
12	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
12	6	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	F	F	18
12	7	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	G	G	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
12	8	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	H	H	18
12	9	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	I	I	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
12	10	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	J	J	18
12	11	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	K	K	18



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
12	12	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	L	L	18
12	13	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	M	M	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
12	14	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	N	N	18
12	15	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	O	O	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
12	16	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	P	P	18
12	17	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	Q	Q	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
12	18	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	R	R	18
13	1	1	Cadherin-2	A	A	541
13	2	1	Cadherin-2	B	B	541
13	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
13	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18
13	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
13	6	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	F	F	18
13	7	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	G	G	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
13	8	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	H	H	18
13	9	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	I	I	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
13	10	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	J	J	18
13	11	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	K	K	18



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
13	12	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	L	L	18
13	13	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	M	M	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
13	14	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	N	N	18
13	15	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	O	O	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
13	16	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	P	P	18
13	17	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	Q	Q	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
13	18	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	R	R	18
14	1	1	Cadherin-2	A	A	541
14	2	1	Cadherin-2	B	B	541
14	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
14	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18
14	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
14	6	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	F	F	18
14	7	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	G	G	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
14	8	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	H	H	18
14	9	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	I	I	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
14	10	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	J	J	18
14	11	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	K	K	18



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
14	12	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	L	L	18
14	13	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	M	M	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
14	14	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	N	N	18
14	15	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	O	O	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
14	16	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	P	P	18
14	17	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	Q	Q	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
14	18	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	R	R	18
15	1	1	Cadherin-2	A	A	541
15	2	1	Cadherin-2	B	B	541
15	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
15	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18
15	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
15	6	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	F	F	18
15	7	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	G	G	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
15	8	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	H	H	18
15	9	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	I	I	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
15	10	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	J	J	18
15	11	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	K	K	18



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
15	12	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	L	L	18
15	13	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	M	M	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
15	14	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	N	N	18
15	15	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	O	O	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
15	16	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	P	P	18
15	17	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	Q	Q	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
15	18	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	R	R	18
16	1	1	Cadherin-2	A	A	541
16	2	1	Cadherin-2	B	B	541
16	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
16	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18
16	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
16	6	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	F	F	18
16	7	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	G	G	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
16	8	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	H	H	18
16	9	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	I	I	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
16	10	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	J	J	18
16	11	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	K	K	18



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
16	12	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	L	L	18
16	13	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	M	M	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
16	14	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	N	N	18
16	15	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	O	O	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
16	16	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	P	P	18
16	17	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	Q	Q	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
16	18	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	R	R	18
17	1	1	Cadherin-2	A	A	541
17	2	1	Cadherin-2	B	B	541
17	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
17	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18
17	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
17	6	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	F	F	18
17	7	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	G	G	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
17	8	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	H	H	18
17	9	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	I	I	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
17	10	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	J	J	18
17	11	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	K	K	18



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
17	12	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	L	L	18
17	13	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	M	M	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
17	14	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	N	N	18
17	15	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	O	O	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
17	16	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	P	P	18
17	17	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	Q	Q	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
17	18	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	R	R	18
18	1	1	Cadherin-2	A	A	541
18	2	1	Cadherin-2	B	B	541
18	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
18	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18
18	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
18	6	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	F	F	18
18	7	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	G	G	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
18	8	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	H	H	18
18	9	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	I	I	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
18	10	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	J	J	18
18	11	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	K	K	18



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
18	12	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	L	L	18
18	13	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	M	M	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
18	14	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	N	N	18
18	15	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	O	O	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
18	16	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	P	P	18
18	17	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	Q	Q	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
18	18	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	R	R	18
19	1	1	Cadherin-2	A	A	541
19	2	1	Cadherin-2	B	B	541
19	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
19	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18
19	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
19	6	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	F	F	18
19	7	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	G	G	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
19	8	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	H	H	18
19	9	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	I	I	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
19	10	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	J	J	18
19	11	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	K	K	18



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
19	12	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	L	L	18
19	13	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	M	M	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
19	14	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	N	N	18
19	15	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	O	O	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
19	16	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	P	P	18
19	17	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	Q	Q	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
19	18	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	R	R	18
20	1	1	Cadherin-2	A	A	541
20	2	1	Cadherin-2	B	B	541
20	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
20	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18
20	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
20	6	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	F	F	18
20	7	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	G	G	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
20	8	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	H	H	18
20	9	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	I	I	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
20	10	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	J	J	18
20	11	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	K	K	18



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
20	12	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	L	L	18
20	13	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	M	M	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
20	14	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	N	N	18
20	15	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	O	O	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
20	16	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	P	P	18
20	17	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	Q	Q	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
20	18	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	R	R	18

### 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	SASDT35
2	Other	PDB	3Q2W

### Representation

This entry has only one representation and includes 0 rigid bodies and 18 flexible units

Chain ID	Rigid bodies	Non-rigid segments
A	-	1-541
B	-	1-541
C	-	1-18

Chain ID	Rigid bodies	Non-rigid segments
D	-	1-18
E	-	1-18
F	-	1-18
G	-	1-18
H	-	1-18
I	-	1-18
J	-	1-18
K	-	1-18
L	-	1-18
M	-	1-18
N	-	1-18
O	-	1-18
P	-	1-18
Q	-	1-18
R	-	1-18

### 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
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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 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, 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 390 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
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Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	90.63	40
N-CA-C	111.00	133.93	40
C1-C2-O2	106.80	124.19	2
C1-C2-O2	106.80	123.64	4
C1-C2-O2	106.80	123.46	2
C7-C8-C9	111.05	127.69	2
C1-C2-O2	106.80	123.21	2
C2-C3-O3	106.67	122.33	2
C3-C4-O4	107.06	122.64	2
C3-C4-O4	107.06	122.59	2
C3-C4-O4	107.06	122.49	2
C3-C4-O4	107.06	122.38	2
C2-C1-O5	111.45	96.38	2
C1-C2-O2	108.40	123.45	2
C1-C2-O2	108.40	123.42	2
C2-C3-O3	106.67	121.63	2
C3-C4-O4	107.06	121.88	2
C2-C3-O3	106.67	121.40	2
C3-C4-O4	107.29	121.98	2
C2-C3-O3	106.67	121.33	2
C1-C2-O2	108.40	123.00	2
C3-C4-O4	107.06	121.60	2
C2-C3-O3	106.67	121.20	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C5-C6-O6	109.08	123.61	2
C3-C4-O4	107.06	121.57	2
C2-C3-O3	106.67	121.15	2
C3-C4-O4	107.06	121.43	2
C2-C3-O3	106.67	121.02	2
C3-C4-O4	107.06	121.38	2
C3-C4-O4	107.06	121.37	2
C3-C4-O4	107.06	121.32	2
C2-C3-O3	106.67	120.91	2
C2-C3-O3	106.67	120.89	2
C3-C2-O2	111.77	97.55	2
C3-C4-O4	107.06	121.22	2
C3-C2-O2	111.77	97.64	2
C7-C6-O6	103.71	117.75	2
C1-C2-O2	106.80	120.81	2
C7-C6-O6	103.71	117.71	2
C7-C6-O6	103.71	117.63	2
C7-C6-O6	103.71	117.60	2
C2-C3-O3	106.67	120.54	2
C3-C4-O4	105.79	119.55	2
C3-C4-O4	107.06	120.79	2
C7-C6-O6	103.71	117.44	2
C3-C4-O4	111.75	98.13	2



Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C3-C4-O4	107.29	120.83	2
C3-C4-O4	111.75	98.22	2
C2-C1-O5	111.45	97.95	2
C1-C2-O2	106.80	120.29	2
C3-C4-O4	111.75	98.27	2
C3-C4-O4	107.29	120.72	2
C4-C3-O3	113.26	99.84	2
C3-C4-O4	111.75	98.33	2
C3-C4-O4	107.29	120.71	2
C5-C4-O4	106.87	120.29	2
C3-C4-O4	107.29	120.68	2
C3-C4-O4	111.75	98.39	2
C5-C6-C7	110.56	123.88	2
C3-C4-O4	111.75	98.44	2
C1-C2-O2	106.80	120.10	2
C1-C2-O2	108.24	121.53	2
C1-C2-O2	106.80	120.09	2
C3-C4-O4	111.75	98.47	2
C3-C4-O4	107.29	120.56	2
C3-C4-O4	107.06	120.31	2
C5-C4-O4	106.87	120.03	2
C3-C4-O4	105.79	118.93	2
N-CA-CB	110.50	117.92	40

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C1-C2-O2	108.24	121.31	4
C7-C6-O6	103.71	116.77	2
C7-C8-O8	110.06	123.11	2
C3-C2-O2	111.77	124.81	2
C1-C2-O2	108.24	121.26	2
C7-C6-O6	103.71	116.73	2
C5-C4-O4	106.87	119.86	2
C7-C6-O6	103.71	116.62	2
C3-C2-O2	111.77	124.67	2
C7-C6-O6	103.71	116.60	2
C7-C6-O6	103.71	116.57	2
C3-C4-O4	107.06	119.90	2
C7-C6-O6	103.71	116.54	2
C3-C4-O4	111.75	98.93	2
C3-C4-O4	108.61	121.39	2
C7-C6-O6	103.71	116.48	2
C3-C2-O2	111.77	124.54	2
C3-C4-O4	111.75	99.01	2
C3-C4-O4	108.61	121.35	2
C2-C3-O3	107.49	120.20	2
C3-C4-O4	111.75	99.11	2
C1-C2-C3	108.75	121.37	2
C4-C5-O5	113.24	100.67	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C4-C5-C6	113.05	100.51	2
C5-C4-O4	106.87	119.39	2
C3-C4-O4	108.61	121.13	2
C7-C6-O6	103.71	116.20	2
C1-C2-O6	109.00	121.48	2
C1-C2-O6	109.00	121.47	2
C2-C3-O3	107.49	119.96	4
C4-C5-C6	113.05	100.58	2
C1-C2-O2	108.40	120.87	2
C1-C2-O2	106.80	119.23	2
C3-C4-O4	107.29	119.71	2
C4-C5-O5	113.24	100.86	2
C7-C8-O8	110.06	122.43	2
C2-C3-O3	107.49	119.86	2
C3-C4-O4	111.75	99.39	2
C3-C4-O4	108.61	120.95	2
C7-C6-O6	103.71	116.03	2
C4-C5-O5	113.24	100.93	2
C1-C2-O6	109.00	121.30	2
C2-C3-O3	107.49	119.76	2
C5-C4-O4	111.79	99.52	2
C3-C4-O4	105.79	118.06	2
C7-C8-O8	110.06	122.31	2

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C2-C3-O3	107.49	119.73	2
C4-C5-O5	113.24	101.01	2
C2-C3-O3	107.58	119.81	2
C1-C2-O6	109.00	121.23	2
C2-C3-O3	107.47	119.69	2
C1-C2-C3	108.75	120.96	2
C6-C5-O5	108.73	120.94	2
C5-C4-O4	106.87	119.07	2
C1-C2-O2	108.08	120.26	2
C1-C2-C3	108.75	120.92	2
C7-C8-O8	110.06	122.19	2
C8-C9-O9	109.54	121.64	2
C4-C3-O3	113.26	101.16	2
C1-C2-O2	108.40	120.48	2
C2-C3-C4	113.26	101.19	2
C7-C8-O8	110.06	122.10	2
C1-C2-O2	108.08	120.12	2
C1-C2-C3	108.75	120.78	2
C1-C2-O6	109.00	121.03	2
C7-C6-O6	103.71	115.71	2

### 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	24.70	356
2	14.60	211
3	11.75	170
4	22.66	327
5	14.31	207
6	21.53	311
7	18.52	268
8	21.89	316
9	10.03	145
10	14.47	209
11	13.68	198
12	14.54	210
13	15.86	229
14	14.94	216
15	10.44	151
16	17.88	258
17	10.99	159
18	15.43	223
19	11.92	172
20	14.66	212

*All 4548 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:488:THR:CB	I:1:NAG:H4	1.588

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	B:488:THR:CB	Q:1:NAG:H4	1.581
1	B:488:THR:CG2	Q:2:NAG:C1	1.562
1	A:488:THR:CG2	I:2:NAG:C1	1.558
1	A:445:GLN:HG2	J:1:NAG:C2	1.514
1	B:445:GLN:HG2	R:1:NAG:C2	1.511
1	A:174:VAL:HA	E:8:NAG:CT	1.412
1	B:174:VAL:HA	M:8:NAG:CT	1.410
1	B:488:THR:HB	Q:1:NAG:C4	1.384
1	A:488:THR:HB	I:1:NAG:C4	1.381
1	B:488:THR:HG21	Q:2:NAG:C1	1.340
1	A:488:THR:HG21	I:2:NAG:C1	1.338
1	A:445:GLN:HG2	J:1:NAG:C3	1.305
1	B:445:GLN:HG2	R:1:NAG:C3	1.304
1	A:445:GLN:CG	J:1:NAG:C2	1.255
1	B:445:GLN:CG	R:1:NAG:C2	1.254
1	B:382:ALA:HB3	R:14:SIA:O12	1.246
1	A:382:ALA:HB3	J:14:SIA:O12	1.243
1	A:486:PRO:HB2	I:18:FUC:O3	1.209
1	B:486:PRO:HB2	Q:18:FUC:O3	1.208
1	A:399:VAL:O	J:13:GAL:C5	1.199
1	B:399:VAL:O	R:13:GAL:C5	1.197
1	A:456:THR:OG1	H:8:NAG:CT	1.152
1	B:456:THR:OG1	P:8:NAG:CT	1.152

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:45:GLN:NE2	K:9:GAL:O6	1.145
1	B:45:GLN:NE2	C:9:GAL:O6	1.144
1	A:486:PRO:HB2	I:18:FUC:C3	1.127
1	B:382:ALA:CB	R:14:SIA:O12	1.125
1	A:382:ALA:CB	J:14:SIA:O12	1.123
1	A:384:TRP:CD1	J:13:GAL:HO4	1.121
1	A:110:HIS:ND1	D:2:NAG:H5	1.121
1	B:384:TRP:CD1	R:13:GAL:HO4	1.119
1	B:110:HIS:ND1	L:2:NAG:H5	1.118
1	A:399:VAL:O	J:13:GAL:C6	1.113
1	A:488:THR:CG2	I:1:NAG:H4	1.112
1	B:488:THR:CG2	Q:1:NAG:H4	1.112
1	B:399:VAL:O	R:13:GAL:C6	1.112
1	B:488:THR:OG1	Q:18:FUC:C3	1.102
1	A:488:THR:OG1	I:18:FUC:C3	1.097
1	A:384:TRP:CH2	J:14:SIA:H31	1.059
1	B:384:TRP:CH2	R:14:SIA:H31	1.056
1	B:488:THR:CG2	Q:2:NAG:O5	1.055
1	B:384:TRP:CD1	R:13:GAL:O4	1.054
1	A:488:THR:CG2	I:2:NAG:O5	1.052
1	A:384:TRP:CD1	J:13:GAL:O4	1.047
1	A:399:VAL:O	J:13:GAL:H5	1.046
1	B:399:VAL:O	R:13:GAL:H5	1.042

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	B:110:HIS:HD1	L:2:NAG:H5	1.041
1	A:174:VAL:CA	E:8:NAG:CT	1.040
1	B:174:VAL:CA	M:8:NAG:CT	1.039
1	A:110:HIS:HD1	D:2:NAG:H5	1.036
1	B:384:TRP:CH2	R:14:SIA:C3	1.034
1	A:384:TRP:CH2	J:14:SIA:C3	1.030
1	B:488:THR:CB	Q:1:NAG:C4	1.014
1	B:486:PRO:HB2	Q:18:FUC:C3	1.013
1	B:445:GLN:O	R:1:NAG:O	1.009
1	A:445:GLN:O	J:1:NAG:O	1.006
1	B:382:ALA:CB	R:14:SIA:H32	0.999
1	A:382:ALA:CB	J:14:SIA:H32	0.998
1	A:469:TYR:HD1	J:2:NAG:C	0.996
1	B:469:TYR:HD1	R:2:NAG:C	0.993
1	A:110:HIS:HD1	D:2:NAG:C5	0.985
1	B:110:HIS:HD1	L:2:NAG:C5	0.985
1	B:467:LEU:O	R:1:NAG:O3	0.969
1	A:467:LEU:O	J:1:NAG:O3	0.967
1	A:469:TYR:HD1	J:2:NAG:O	0.965
1	B:469:TYR:HD1	R:2:NAG:O	0.962
1	B:31:ASN:OD1	K:1:NAG:O5	0.953
1	A:31:ASN:OD1	C:1:NAG:O5	0.952
1	A:445:GLN:HG2	J:1:NAG:C4	0.936



Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	B:445:GLN:HG2	R:1:NAG:C4	0.934
1	B:469:TYR:CD1	R:2:NAG:O	0.934
1	A:469:TYR:CD1	J:2:NAG:O	0.933
1	A:463:ASN:HD21	H:1:NAG:CT	0.922
1	B:463:ASN:HD21	P:1:NAG:CT	0.922
1	B:176:ALA:N	M:8:NAG:H3	0.921
1	A:469:TYR:CD1	J:2:NAG:C	0.919
1	B:469:TYR:CD1	R:2:NAG:C	0.919
1	A:176:ALA:N	E:8:NAG:H3	0.918
1	A:174:VAL:O	E:4:MAN:H62	0.916
1	B:174:VAL:O	M:4:MAN:H62	0.914
1	A:31:ASN:OD1	C:1:NAG:C1	0.901
1	B:31:ASN:OD1	K:1:NAG:C1	0.899
1	A:488:THR:CB	I:1:NAG:C4	0.896
1	B:488:THR:HG22	Q:2:NAG:O5	0.892
1	A:399:VAL:N	J:13:GAL:H62	0.892
1	B:399:VAL:N	R:13:GAL:H62	0.892
1	A:488:THR:HG22	I:2:NAG:O5	0.889
1	A:488:THR:HG21	I:2:NAG:O5	0.887
1	A:174:VAL:C	E:8:NAG:N	0.886
1	B:488:THR:HG21	Q:2:NAG:O5	0.886
1	B:174:VAL:C	M:8:NAG:N	0.885
1	A:174:VAL:O	E:8:NAG:N	0.877

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	B:174:VAL:O	M:8:NAG:N	0.877
1	B:486:PRO:CB	Q:18:FUC:O3	0.870
1	A:486:PRO:CB	I:18:FUC:O3	0.868
1	A:112:VAL:O	D:1:NAG:O	0.858
1	B:112:VAL:O	L:1:NAG:O	0.858
1	B:382:ALA:HB3	R:14:SIA:C1	0.847
1	A:491:ARG:NH1	I:2:NAG:O6	0.847
1	B:491:ARG:NH1	Q:2:NAG:O6	0.846
1	A:382:ALA:HB3	J:14:SIA:C1	0.845
1	A:501:ASP:OD2	A:502:PHE:HD2	0.837
1	B:501:ASP:OD2	B:502:PHE:HD2	0.835
1	A:404:SER:HB2	J:12:NAG:O6	0.826
1	B:445:GLN:CG	R:1:NAG:H4	0.823
1	A:445:GLN:CG	J:1:NAG:H4	0.822
1	A:45:GLN:HE22	K:9:GAL:HO6	0.811
1	A:488:THR:CG2	I:1:NAG:C4	0.807
1	B:488:THR:CG2	Q:1:NAG:C4	0.807
1	B:45:GLN:HE22	C:9:GAL:HO6	0.796
1	A:488:THR:H	I:18:FUC:C3	0.784
1	B:488:THR:H	Q:18:FUC:C3	0.783
1	A:491:ARG:HG2	I:1:NAG:C	0.777
1	B:488:THR:CB	Q:18:FUC:C3	0.775
1	A:488:THR:CB	I:18:FUC:C3	0.774

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	B:491:ARG:HG2	Q:1:NAG:C	0.774
1	A:399:VAL:O	J:13:GAL:H62	0.774
1	B:399:VAL:O	R:13:GAL:H62	0.774
1	A:463:ASN:ND2	H:1:NAG:C	0.769
1	B:463:ASN:ND2	P:1:NAG:C	0.767
1	A:499:ASN:H	A:499:ASN:HD22	0.765
1	B:499:ASN:HD21	B:502:PHE:HB2	0.764
1	A:499:ASN:HD21	A:502:PHE:HB2	0.763
1	B:499:ASN:H	B:499:ASN:HD22	0.762
1	A:486:PRO:HB2	I:18:FUC:C2	0.760
1	B:486:PRO:HB2	Q:18:FUC:C2	0.760
1	A:501:ASP:OD2	A:502:PHE:CD2	0.756
1	B:488:THR:HG21	Q:1:NAG:O4	0.755
1	B:501:ASP:OD2	B:502:PHE:CD2	0.754
1	A:382:ALA:HB2	J:14:SIA:H32	0.753
1	A:488:THR:HG21	I:1:NAG:O4	0.753
1	B:382:ALA:HB2	R:14:SIA:H32	0.752
1	A:399:VAL:O	J:13:GAL:C4	0.750
1	A:166:ASN:ND2	E:1:NAG:C1	0.748
1	B:166:ASN:ND2	M:1:NAG:C1	0.748
1	B:399:VAL:O	R:13:GAL:C4	0.748
1	A:110:HIS:CE1	D:2:NAG:H5	0.738
1	B:110:HIS:CE1	L:2:NAG:H5	0.738

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:463:ASN:ND2	H:1:NAG:CT	0.736
1	B:110:HIS:CE1	L:2:NAG:C1	0.735
1	B:463:ASN:ND2	P:1:NAG:CT	0.735
1	A:110:HIS:CE1	D:2:NAG:C1	0.734
1	A:384:TRP:HB3	J:14:SIA:O8	0.729
1	B:384:TRP:HB3	R:14:SIA:O8	0.729
1	B:30:LYS:HB3	K:1:NAG:O	0.723
1	A:30:LYS:HB3	C:1:NAG:O	0.722
1	B:382:ALA:CB	R:14:SIA:C3	0.716
1	A:382:ALA:CB	J:14:SIA:C3	0.714
1	B:445:GLN:CG	R:1:NAG:C4	0.714
1	A:445:GLN:CG	J:1:NAG:C4	0.712
1	B:488:THR:CG2	Q:2:NAG:C5	0.706
1	A:488:THR:CG2	I:2:NAG:C5	0.705
1	A:404:SER:CB	J:12:NAG:O6	0.704
1	A:382:ALA:HB1	J:13:GAL:O3	0.700
1	B:382:ALA:HB1	R:13:GAL:O3	0.700
1	B:133:ILE:HG21	L:16:GAL:O4	0.695
1	A:133:ILE:HG21	D:16:GAL:O4	0.693
1	A:498:LEU:HB2	A:502:PHE:O	0.691
1	A:445:GLN:CG	J:1:NAG:C3	0.691
1	B:498:LEU:HB2	B:502:PHE:O	0.690
1	B:445:GLN:CG	R:1:NAG:C3	0.689

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	B:110:HIS:ND1	L:2:NAG:C5	0.688
1	A:110:HIS:ND1	D:2:NAG:C5	0.683
1	A:488:THR:HB	I:1:NAG:H4	0.679
1	B:488:THR:HB	Q:1:NAG:H4	0.679
1	B:499:ASN:N	B:499:ASN:ND2	0.675
1	A:499:ASN:N	A:499:ASN:ND2	0.674
1	A:499:ASN:H	A:499:ASN:ND2	0.671
1	B:499:ASN:H	B:499:ASN:ND2	0.669
1	A:445:GLN:HG3	J:1:NAG:H4	0.668
1	B:445:GLN:HG3	R:1:NAG:H4	0.667
1	A:382:ALA:CB	J:14:SIA:C1	0.665
1	B:382:ALA:CB	R:14:SIA:C1	0.665
1	A:486:PRO:C	I:18:FUC:O3	0.663
1	B:486:PRO:C	Q:18:FUC:O3	0.661
1	B:109:LEU:HD21	L:16:GAL:H62	0.656
1	A:109:LEU:HD21	D:16:GAL:H62	0.655
1	A:488:THR:N	I:18:FUC:C3	0.652
1	B:488:THR:N	Q:18:FUC:C3	0.651
1	A:491:ARG:HH12	I:2:NAG:HO6	0.650
1	B:491:ARG:HH12	Q:2:NAG:HO6	0.646
1	A:445:GLN:CB	J:1:NAG:C2	0.642
1	A:486:PRO:CB	I:18:FUC:C3	0.641
1	B:486:PRO:CB	Q:18:FUC:C3	0.641

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	B:445:GLN:CB	R:1:NAG:C2	0.640
1	B:463:ASN:ND2	P:1:NAG:N	0.634
1	A:463:ASN:ND2	H:1:NAG:N	0.633
1	A:30:LYS:O	C:1:NAG:C	0.630
1	A:488:THR:HG21	I:1:NAG:C4	0.629
1	B:30:LYS:O	K:1:NAG:C	0.629
1	B:488:THR:HG21	Q:1:NAG:C4	0.627
1	A:460:ASN:O	H:1:NAG:O	0.627
1	B:460:ASN:O	P:1:NAG:O	0.627
1	A:488:THR:HB	I:1:NAG:C5	0.626
1	B:488:THR:HB	Q:1:NAG:C5	0.625
1	B:28:ARG:CG	B:28:ARG:HH11	0.614
1	A:28:ARG:CG	A:28:ARG:HH11	0.612
1	B:486:PRO:O	Q:18:FUC:H4	0.611
1	A:341:ASN:HB3	A:342:PRO:HD3	0.610
1	B:341:ASN:HB3	B:342:PRO:HD3	0.610
1	A:486:PRO:O	I:18:FUC:H4	0.609
1	A:382:ALA:HB3	J:14:SIA:H32	0.609
1	B:382:ALA:HB3	R:14:SIA:H32	0.609
1	A:174:VAL:O	E:4:MAN:C6	0.598
1	A:486:PRO:O	I:18:FUC:O4	0.598
1	B:486:PRO:O	Q:18:FUC:O4	0.598
1	B:174:VAL:O	M:4:MAN:C6	0.596

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:174:VAL:O	E:8:NAG:C1	0.595
1	A:486:PRO:O	I:18:FUC:C4	0.595
1	B:174:VAL:O	M:8:NAG:C1	0.595
1	B:486:PRO:O	Q:18:FUC:C4	0.595
1	B:491:ARG:HB3	Q:1:NAG:O	0.592
1	A:409:ASN:HD22	A:410:ASN:H	0.592
1	A:447:LEU:HB3	A:448:PRO:HD3	0.591
1	A:491:ARG:HB3	I:1:NAG:O	0.591
1	B:409:ASN:HD22	B:410:ASN:H	0.591
1	A:486:PRO:CB	I:18:FUC:H2	0.586
1	A:404:SER:HB2	J:12:NAG:C6	0.585
1	B:486:PRO:CB	Q:18:FUC:H2	0.585
1	B:469:TYR:CE2	R:2:NAG:H61	0.584
1	A:486:PRO:CG	I:18:FUC:H2	0.582
1	B:486:PRO:CG	Q:18:FUC:H2	0.582
1	A:486:PRO:HB2	I:18:FUC:H2	0.574
1	A:399:VAL:O	J:13:GAL:H4	0.574
1	B:399:VAL:O	R:13:GAL:H4	0.573
1	A:41:PRO:CG	K:9:GAL:O4	0.571
1	B:486:PRO:HB2	Q:18:FUC:H2	0.571
1	B:384:TRP:H	R:14:SIA:C1	0.569
1	A:384:TRP:H	J:14:SIA:C1	0.567
1	B:467:LEU:O	R:1:NAG:C	0.567

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:467:LEU:O	J:1:NAG:C	0.566
1	B:491:ARG:HG2	Q:1:NAG:CT	0.563
1	A:174:VAL:C	E:8:NAG:CT	0.561
1	A:491:ARG:HG2	I:1:NAG:CT	0.561
1	A:45:GLN:NE2	K:9:GAL:HO6	0.561
1	A:391:ASN:HB3	A:393:GLN:HG3	0.560
1	B:391:ASN:HB3	B:393:GLN:HG3	0.560
1	A:174:VAL:HB	E:4:MAN:H62	0.559
1	B:174:VAL:C	M:8:NAG:CT	0.559
1	B:45:GLN:NE2	C:9:GAL:HO6	0.559
1	B:174:VAL:HB	M:4:MAN:H62	0.558
1	A:486:PRO:C	I:18:FUC:O4	0.554
1	B:486:PRO:C	Q:18:FUC:O4	0.554
1	A:445:GLN:CD	J:1:NAG:C2	0.553
1	B:28:ARG:HG2	B:28:ARG:HH11	0.552
1	A:28:ARG:HG2	A:28:ARG:HH11	0.551
1	A:456:THR:HG1	H:8:NAG:CT	0.550
1	B:445:GLN:CD	R:1:NAG:C2	0.550
1	B:445:GLN:HG2	R:1:NAG:H4	0.548
1	B:488:THR:HG22	B:491:ARG:NH2	0.548
1	A:487:VAL:N	I:18:FUC:O3	0.548
1	B:487:VAL:N	Q:18:FUC:O3	0.548
1	A:488:THR:HG22	A:491:ARG:NH2	0.547



Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:109:LEU:H	A:109:LEU:HD12	0.545
1	B:109:LEU:H	B:109:LEU:HD12	0.545
1	A:445:GLN:HG2	J:1:NAG:H4	0.541
1	B:105:ARG:HG2	B:203:LEU:HB3	0.540
1	A:469:TYR:CE2	J:2:NAG:H61	0.537
1	A:359:THR:HG22	A:393:GLN:HG2	0.536
1	B:359:THR:HG22	B:393:GLN:HG2	0.536
1	A:31:ASN:HB3	C:1:NAG:C1	0.526
1	A:382:ALA:HB1	J:14:SIA:C2	0.525
1	B:382:ALA:HB1	R:14:SIA:C2	0.525
1	A:488:THR:HG22	I:2:NAG:C5	0.524
1	B:31:ASN:HB3	K:1:NAG:C1	0.524
1	A:382:ALA:CB	J:14:SIA:C2	0.523
1	B:382:ALA:CB	R:14:SIA:C2	0.522
1	B:399:VAL:C	R:13:GAL:C6	0.522
1	B:488:THR:HG22	Q:2:NAG:C5	0.521
1	A:467:LEU:HD13	J:2:NAG:O6	0.520
1	B:467:LEU:HD13	R:2:NAG:O6	0.520
1	A:399:VAL:C	J:13:GAL:C6	0.520
1	B:409:ASN:HB2	O:1:NAG:O3	0.516
1	A:409:ASN:HB2	G:1:NAG:O3	0.515
1	A:109:LEU:HD21	D:16:GAL:C6	0.512
1	B:109:LEU:HD21	L:16:GAL:C6	0.512

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	B:384:TRP:N	R:14:SIA:C1	0.511
1	A:399:VAL:O	J:13:GAL:O6	0.508
1	A:384:TRP:N	J:14:SIA:C1	0.507
1	B:399:VAL:O	R:13:GAL:O6	0.507
1	B:488:THR:CG2	Q:2:NAG:H5	0.504
1	A:488:THR:CG2	I:2:NAG:H5	0.503
1	A:488:THR:HB	I:1:NAG:C3	0.503
1	B:488:THR:HB	Q:1:NAG:C3	0.503
1	A:499:ASN:N	A:499:ASN:HD22	0.499
1	B:499:ASN:N	B:499:ASN:HD22	0.497
1	A:486:PRO:C	I:18:FUC:C4	0.480
1	B:486:PRO:C	Q:18:FUC:C4	0.480
1	B:28:ARG:CG	B:28:ARG:NH1	0.479
1	B:423:ILE:HB	B:424:PRO:HD3	0.479
1	A:399:VAL:C	J:13:GAL:H62	0.479
1	A:28:ARG:CG	A:28:ARG:NH1	0.478
1	B:399:VAL:C	R:13:GAL:H62	0.478
1	A:423:ILE:HB	A:424:PRO:HD3	0.477
1	A:384:TRP:CZ3	J:14:SIA:O7	0.472
1	B:384:TRP:CZ3	R:14:SIA:O7	0.472
1	A:174:VAL:HB	E:4:MAN:C6	0.465
1	B:174:VAL:HB	M:4:MAN:C6	0.465
1	O:17:SIA:H6	O:17:SIA:O12	0.465

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	G:17:SIA:H6	G:17:SIA:O12	0.464
1	B:399:VAL:N	R:13:GAL:C6	0.464
1	A:166:ASN:HD22	E:1:NAG:C1	0.462
1	A:399:VAL:N	J:13:GAL:C6	0.462
1	A:399:VAL:CA	J:13:GAL:H62	0.461
1	B:399:VAL:CA	R:13:GAL:H62	0.461
1	B:166:ASN:HD22	M:1:NAG:C1	0.459
1	A:528:PRO:HA	A:529:PRO:HD3	0.457
1	B:528:PRO:HA	B:529:PRO:HD3	0.454
1	F:17:SIA:H6	F:17:SIA:O12	0.454
1	N:17:SIA:H6	N:17:SIA:O12	0.454
1	B:488:THR:CA	Q:18:FUC:C3	0.453
1	A:488:THR:CA	I:18:FUC:C3	0.452
1	B:176:ALA:N	M:8:NAG:C3	0.452
1	A:77:ARG:HH21	A:91:PRO:HB2	0.451
1	A:176:ALA:N	E:8:NAG:C3	0.450
1	B:399:VAL:H	R:13:GAL:H62	0.443
1	A:399:VAL:H	J:13:GAL:H62	0.442
1	A:341:ASN:CB	A:342:PRO:HD3	0.441
1	B:341:ASN:CB	B:342:PRO:HD3	0.441
1	B:33:SER:HB3	B:83:ILE:HD12	0.440
1	A:33:SER:HB3	A:83:ILE:HD12	0.439
1	B:110:HIS:CE1	L:2:NAG:C5	0.439

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:110:HIS:CE1	D:2:NAG:C5	0.435
1	A:485:SER:HA	A:486:PRO:C	0.435
1	B:485:SER:HA	B:486:PRO:C	0.435
1	A:386:LYS:HD2	A:397:ILE:HD11	0.433
1	B:382:ALA:HB1	R:14:SIA:C1	0.432
1	B:386:LYS:HD2	B:397:ILE:HD11	0.431
1	A:382:ALA:HB1	J:14:SIA:C1	0.430
1	A:527:ASN:HA	A:528:PRO:C	0.427
1	B:527:ASN:HA	B:528:PRO:C	0.427
1	A:378:LEU:HD12	A:417:LEU:HG	0.421
1	B:378:LEU:HD12	B:417:LEU:HG	0.421
1	B:486:PRO:CA	Q:18:FUC:O3	0.420
1	A:488:THR:HB	I:1:NAG:C2	0.418
1	B:491:ARG:CB	Q:1:NAG:O	0.418
1	A:41:PRO:HG2	K:9:GAL:O4	0.418
1	A:41:PRO:CD	K:9:GAL:O4	0.417
1	B:488:THR:HB	Q:1:NAG:C2	0.417
1	A:491:ARG:CB	I:1:NAG:O	0.416
1	B:176:ALA:HB1	M:9:GAL:H2	0.415
1	B:123:PRO:C	M:8:NAG:CT	0.414
1	B:231:GLU:HA	B:328:THR:O	0.413
1	A:231:GLU:HA	A:328:THR:O	0.412
1	B:423:ILE:O	B:425:PRO:HD3	0.412

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:123:PRO:C	E:8:NAG:CT	0.411
1	A:423:ILE:O	A:425:PRO:HD3	0.411
1	A:176:ALA:HB1	E:9:GAL:H2	0.409
1	B:488:THR:OG1	Q:18:FUC:C4	0.409
1	B:384:TRP:CG	R:13:GAL:C4	0.408
1	A:384:TRP:CG	J:13:GAL:C4	0.406
1	A:488:THR:OG1	I:18:FUC:C4	0.405
1	A:486:PRO:CA	I:18:FUC:O3	0.405
1	A:262:ARG:HH12	A:264:SER:HA	0.401
1	B:262:ARG:HH12	B:264:SER:HA	0.401
2	B:463:ASN:ND2	P:1:NAG:C1	1.516
2	A:463:ASN:ND2	H:1:NAG:C1	1.510
2	A:240:ILE:HG22	F:1:NAG:C	1.329
2	B:240:ILE:HG22	N:1:NAG:C	1.329
2	A:405:PRO:CB	G:8:NAG:CT	1.286
2	B:405:PRO:CB	O:8:NAG:CT	1.285
2	A:409:ASN:O	G:1:NAG:CT	1.281
2	B:409:ASN:O	O:1:NAG:CT	1.279
2	A:461:SER:O	H:1:NAG:CT	1.237
2	A:240:ILE:CB	F:1:NAG:CT	1.201
2	B:240:ILE:CB	N:1:NAG:CT	1.200
2	A:405:PRO:HB3	G:8:NAG:CT	1.180
2	B:405:PRO:CG	O:8:NAG:CT	1.180

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:405:PRO:CG	G:8:NAG:CT	1.179
2	B:405:PRO:HB3	O:8:NAG:CT	1.179
2	A:116:SER:H	D:18:FUC:H62	1.131
2	B:116:SER:H	L:18:FUC:H62	1.125
2	A:409:ASN:C	G:1:NAG:CT	1.089
2	B:409:ASN:C	O:1:NAG:CT	1.087
2	A:328:THR:HG21	F:8:NAG:N	1.069
2	B:328:THR:HG21	N:8:NAG:N	1.062
2	A:116:SER:N	D:18:FUC:C6	1.061
2	B:116:SER:N	L:18:FUC:C6	1.061
2	A:116:SER:O	D:18:FUC:C6	1.033
2	B:116:SER:O	L:18:FUC:C6	1.031
2	B:328:THR:CG2	N:8:NAG:N	1.016
2	A:328:THR:CG2	F:8:NAG:N	1.015
2	A:116:SER:O	D:18:FUC:H63	1.012
2	B:116:SER:O	L:18:FUC:H63	1.010
2	A:330:ILE:HG22	F:5:NAG:CT	1.004
2	A:445:GLN:HE22	J:1:NAG:C1	1.003
2	B:255:PRO:HD3	L:15:NAG:CT	1.002
2	B:445:GLN:HE22	R:1:NAG:C1	1.001
2	A:255:PRO:HD3	D:15:NAG:CT	1.000
2	A:116:SER:C	D:18:FUC:C6	0.998
2	B:116:SER:C	L:18:FUC:C6	0.998

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:537:ARG:NH1	J:4:MAN:O6	0.995
2	B:537:ARG:NH1	R:4:MAN:O6	0.995
2	A:116:SER:H	D:18:FUC:C6	0.991
2	B:116:SER:H	L:18:FUC:C6	0.989
2	A:488:THR:HA	I:1:NAG:CT	0.988
2	B:488:THR:HA	Q:1:NAG:CT	0.988
2	B:240:ILE:HG23	N:1:NAG:CT	0.988
2	A:240:ILE:HG23	F:1:NAG:CT	0.987
2	A:255:PRO:HD3	D:15:NAG:N	0.963
2	B:255:PRO:HD3	L:15:NAG:N	0.963
2	B:116:SER:N	L:18:FUC:H62	0.943
2	A:116:SER:N	D:18:FUC:H62	0.939
2	B:408:LYS:NZ	O:2:NAG:H62	0.909
2	A:408:LYS:NZ	G:2:NAG:H62	0.908
2	B:255:PRO:CD	L:15:NAG:CT	0.888
2	A:255:PRO:CD	D:15:NAG:CT	0.886
2	B:405:PRO:HG2	O:8:NAG:CT	0.875
2	A:405:PRO:HG2	G:8:NAG:CT	0.874
2	B:240:ILE:CG2	N:1:NAG:C	0.853
2	A:240:ILE:CG2	F:1:NAG:C	0.847
2	A:501:ASP:OD2	A:502:PHE:HD2	0.837
2	B:501:ASP:OD2	B:502:PHE:HD2	0.835
2	A:240:ILE:CG2	F:1:NAG:CT	0.830

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	B:240:ILE:CG2	N:1:NAG:CT	0.829
2	B:517:GLU:OE2	R:4:MAN:O6	0.812
2	A:255:PRO:HD3	D:15:NAG:C	0.811
2	B:255:PRO:HD3	L:15:NAG:C	0.811
2	A:517:GLU:OE2	J:4:MAN:O6	0.811
2	A:408:LYS:NZ	G:2:NAG:C6	0.810
2	B:408:LYS:NZ	O:2:NAG:C6	0.810
2	A:537:ARG:NH2	J:2:NAG:O6	0.796
2	B:537:ARG:NH2	R:2:NAG:O6	0.796
2	A:461:SER:C	H:1:NAG:CT	0.787
2	A:537:ARG:NH2	J:3:BMA:H2	0.769
2	B:537:ARG:NH2	R:3:BMA:H2	0.768
2	A:240:ILE:HG22	F:1:NAG:CT	0.765
2	A:491:ARG:HB3	I:1:NAG:CT	0.765
2	A:499:ASN:H	A:499:ASN:HD22	0.765
2	B:491:ARG:HB3	Q:1:NAG:CT	0.764
2	B:499:ASN:HD21	B:502:PHE:HB2	0.764
2	A:499:ASN:HD21	A:502:PHE:HB2	0.763
2	B:240:ILE:HG22	N:1:NAG:CT	0.762
2	B:499:ASN:H	B:499:ASN:HD22	0.762
2	A:501:ASP:OD2	A:502:PHE:CD2	0.756
2	B:501:ASP:OD2	B:502:PHE:CD2	0.754
2	B:455:GLU:OE2	Q:18:FUC:C6	0.708



Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:455:GLU:OE2	I:18:FUC:C6	0.706
2	A:409:ASN:CA	G:1:NAG:CT	0.696
2	B:409:ASN:CA	O:1:NAG:CT	0.694
2	A:498:LEU:HB2	A:502:PHE:O	0.691
2	B:498:LEU:HB2	B:502:PHE:O	0.690
2	B:499:ASN:N	B:499:ASN:ND2	0.675
2	A:499:ASN:N	A:499:ASN:ND2	0.674
2	A:445:GLN:NE2	J:1:NAG:C1	0.671
2	A:499:ASN:H	A:499:ASN:ND2	0.671
2	B:445:GLN:NE2	R:1:NAG:C1	0.670
2	B:499:ASN:H	B:499:ASN:ND2	0.669
2	A:240:ILE:HG21	F:1:NAG:CT	0.662
2	B:240:ILE:HG21	N:1:NAG:CT	0.662
2	A:409:ASN:H	G:1:NAG:C	0.661
2	B:409:ASN:H	O:1:NAG:C	0.661
2	A:537:ARG:HH12	J:4:MAN:HO6	0.635
2	B:537:ARG:HH12	R:4:MAN:HO6	0.631
2	A:255:PRO:N	D:15:NAG:CT	0.618
2	B:255:PRO:N	L:15:NAG:CT	0.617
2	B:28:ARG:CG	B:28:ARG:HH11	0.614
2	A:408:LYS:NZ	G:2:NAG:O6	0.614
2	B:408:LYS:NZ	O:2:NAG:O6	0.614
2	A:28:ARG:CG	A:28:ARG:HH11	0.612

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:341:ASN:HB3	A:342:PRO:HD3	0.610
2	B:341:ASN:HB3	B:342:PRO:HD3	0.610
2	A:455:GLU:OE2	I:18:FUC:H62	0.610
2	B:455:GLU:OE2	Q:18:FUC:H62	0.609
2	A:405:PRO:HG3	G:8:NAG:CT	0.599
2	B:405:PRO:HG3	O:8:NAG:CT	0.595
2	A:409:ASN:HD22	A:410:ASN:H	0.592
2	A:447:LEU:HB3	A:448:PRO:HD3	0.591
2	A:515:ILE:HD13	J:5:NAG:CT	0.591
2	B:515:ILE:HD13	R:5:NAG:CT	0.591
2	B:409:ASN:HD22	B:410:ASN:H	0.591
2	A:391:ASN:HB3	A:393:GLN:HG3	0.560
2	B:391:ASN:HB3	B:393:GLN:HG3	0.560
2	B:405:PRO:HB2	O:8:NAG:CT	0.560
2	B:116:SER:O	L:18:FUC:H62	0.559
2	A:116:SER:O	D:18:FUC:H62	0.558
2	A:405:PRO:HB2	G:8:NAG:CT	0.557
2	B:28:ARG:HG2	B:28:ARG:HH11	0.552
2	A:28:ARG:HG2	A:28:ARG:HH11	0.551
2	B:488:THR:HG22	B:491:ARG:NH2	0.548
2	A:488:THR:HG22	A:491:ARG:NH2	0.547
2	A:109:LEU:H	A:109:LEU:HD12	0.545
2	B:109:LEU:H	B:109:LEU:HD12	0.545

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:515:ILE:HD13	J:5:NAG:C	0.543
2	B:515:ILE:HD13	R:5:NAG:C	0.543
2	A:515:ILE:HG21	J:5:NAG:CT	0.541
2	B:515:ILE:HG21	R:5:NAG:CT	0.541
2	B:105:ARG:HG2	B:203:LEU:HB3	0.540
2	A:488:THR:HB	I:1:NAG:O	0.539
2	B:488:THR:HB	Q:1:NAG:O	0.539
2	A:359:THR:HG22	A:393:GLN:HG2	0.536
2	B:359:THR:HG22	B:393:GLN:HG2	0.536
2	B:231:GLU:OE1	N:2:NAG:C6	0.535
2	A:231:GLU:OE1	F:2:NAG:C6	0.534
2	B:537:ARG:HH22	R:3:BMA:H2	0.533
2	A:537:ARG:HH22	J:3:BMA:H2	0.531
2	A:408:LYS:HB3	G:1:NAG:O3	0.526
2	B:408:LYS:HB3	O:1:NAG:O3	0.525
2	A:512:GLU:N	I:18:FUC:O4	0.524
2	B:512:GLU:N	Q:18:FUC:O4	0.524
2	A:243:ASN:ND2	F:1:NAG:C1	0.518
2	B:243:ASN:ND2	N:1:NAG:C1	0.518
2	A:408:LYS:N	G:1:NAG:O	0.516
2	B:408:LYS:N	O:1:NAG:O	0.515
2	B:491:ARG:CB	Q:1:NAG:CT	0.504
2	A:491:ARG:CB	I:1:NAG:CT	0.502

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	B:409:ASN:N	O:1:NAG:C	0.501
2	A:409:ASN:N	G:1:NAG:C	0.500
2	A:499:ASN:N	A:499:ASN:HD22	0.499
2	B:499:ASN:N	B:499:ASN:HD22	0.497
2	A:369:MET:HE1	F:6:GAL:H62	0.495
2	B:369:MET:HE1	N:6:GAL:H62	0.494
2	B:231:GLU:OE1	N:2:NAG:H61	0.494
2	A:231:GLU:OE1	F:2:NAG:H61	0.493
2	A:255:PRO:CD	D:15:NAG:N	0.490
2	B:255:PRO:CD	L:15:NAG:N	0.490
2	B:28:ARG:CG	B:28:ARG:NH1	0.479
2	B:423:ILE:HB	B:424:PRO:HD3	0.479
2	A:28:ARG:CG	A:28:ARG:NH1	0.478
2	A:423:ILE:HB	A:424:PRO:HD3	0.477
2	A:409:ASN:HB3	G:1:NAG:CT	0.475
2	B:409:ASN:HB3	O:1:NAG:CT	0.475
2	A:455:GLU:OE2	I:18:FUC:H63	0.466
2	B:455:GLU:OE2	Q:18:FUC:H63	0.464
2	A:409:ASN:CB	G:1:NAG:CT	0.462
2	B:409:ASN:CB	O:1:NAG:CT	0.461
2	B:409:ASN:N	O:1:NAG:CT	0.459
2	A:408:LYS:CB	G:1:NAG:O3	0.458
2	B:408:LYS:CB	O:1:NAG:O3	0.458

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:409:ASN:N	G:1:NAG:CT	0.458
2	A:528:PRO:HA	A:529:PRO:HD3	0.457
2	B:528:PRO:HA	B:529:PRO:HD3	0.454
2	A:77:ARG:HH21	A:91:PRO:HB2	0.451
2	A:341:ASN:CB	A:342:PRO:HD3	0.441
2	B:341:ASN:CB	B:342:PRO:HD3	0.441
2	B:33:SER:HB3	B:83:ILE:HD12	0.440
2	A:33:SER:HB3	A:83:ILE:HD12	0.439
2	P:17:SIA:H6	P:17:SIA:O12	0.438
2	H:17:SIA:H6	H:17:SIA:O12	0.437
2	A:485:SER:HA	A:486:PRO:C	0.435
2	B:485:SER:HA	B:486:PRO:C	0.435
2	A:386:LYS:HD2	A:397:ILE:HD11	0.433
2	B:386:LYS:HD2	B:397:ILE:HD11	0.431
2	Q:17:SIA:H6	Q:17:SIA:O12	0.429
2	A:527:ASN:HA	A:528:PRO:C	0.427
2	B:251:GLN:HG2	L:12:NAG:N	0.427
2	B:527:ASN:HA	B:528:PRO:C	0.427
2	A:537:ARG:NH1	J:4:MAN:HO6	0.427
2	I:17:SIA:H6	I:17:SIA:O12	0.427
2	A:251:GLN:HG2	D:12:NAG:N	0.426
2	A:378:LEU:HD12	A:417:LEU:HG	0.421
2	B:378:LEU:HD12	B:417:LEU:HG	0.421

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:463:ASN:ND2	H:1:NAG:C2	0.420
2	B:463:ASN:ND2	P:1:NAG:C2	0.420
2	B:231:GLU:HA	B:328:THR:O	0.413
2	A:231:GLU:HA	A:328:THR:O	0.412
2	B:423:ILE:O	B:425:PRO:HD3	0.412
2	A:423:ILE:O	A:425:PRO:HD3	0.411
2	B:214:THR:HG22	L:2:NAG:CT	0.411
2	B:537:ARG:NH1	R:4:MAN:HO6	0.411
2	A:214:THR:HG22	D:2:NAG:CT	0.410
2	A:488:THR:CB	I:1:NAG:O	0.406
2	A:116:SER:C	D:18:FUC:H63	0.405
2	B:488:THR:CB	Q:1:NAG:O	0.405
2	A:262:ARG:HH12	A:264:SER:HA	0.401
2	B:262:ARG:HH12	B:264:SER:HA	0.401
3	A:469:TYR:HE1	J:2:NAG:C2	1.508
3	B:469:TYR:HE1	R:2:NAG:C2	1.507
3	A:469:TYR:CE1	J:2:NAG:C2	1.410
3	B:469:TYR:CE1	R:2:NAG:C2	1.407
3	A:460:ASN:ND2	H:1:NAG:CT	1.403
3	B:460:ASN:ND2	P:1:NAG:CT	1.401
3	A:408:LYS:CG	J:13:GAL:H62	1.265
3	A:112:VAL:O	D:1:NAG:CT	1.265
3	B:112:VAL:O	L:1:NAG:CT	1.264

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	B:408:LYS:CG	R:13:GAL:H62	1.263
3	A:30:LYS:HB3	C:1:NAG:CT	1.246
3	B:30:LYS:HB3	K:1:NAG:CT	1.246
3	A:243:ASN:ND2	F:1:NAG:C1	1.231
3	B:243:ASN:ND2	N:1:NAG:C1	1.228
3	A:460:ASN:CG	H:1:NAG:CT	1.188
3	B:460:ASN:CG	P:1:NAG:CT	1.188
3	B:408:LYS:O	R:13:GAL:H61	1.140
3	A:408:LYS:O	J:13:GAL:H61	1.138
3	B:408:LYS:CB	R:13:GAL:H62	1.135
3	A:408:LYS:CB	J:13:GAL:H62	1.133
3	B:405:PRO:HG3	R:12:NAG:N	1.112
3	A:405:PRO:HG3	J:12:NAG:N	1.111
3	B:469:TYR:OH	R:2:NAG:H4	1.111
3	A:469:TYR:OH	J:2:NAG:H4	1.110
3	B:405:PRO:CG	R:12:NAG:N	1.108
3	A:405:PRO:CG	J:12:NAG:N	1.102
3	A:408:LYS:HG3	J:13:GAL:H62	1.095
3	B:408:LYS:HG3	R:13:GAL:H62	1.092
3	A:408:LYS:C	J:13:GAL:C6	1.054
3	B:408:LYS:C	R:13:GAL:C6	1.053
3	A:408:LYS:O	J:13:GAL:C6	1.040
3	B:408:LYS:O	R:13:GAL:C6	1.039

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:408:LYS:HG3	J:13:GAL:C6	1.012
3	B:408:LYS:HG3	R:13:GAL:C6	1.012
3	A:408:LYS:CA	J:13:GAL:C6	0.982
3	B:408:LYS:CA	R:13:GAL:C6	0.981
3	A:408:LYS:CA	J:13:GAL:H62	0.944
3	B:408:LYS:CA	R:13:GAL:H62	0.944
3	A:30:LYS:CB	C:1:NAG:CT	0.930
3	B:30:LYS:CB	K:1:NAG:CT	0.929
3	A:460:ASN:HD22	H:1:NAG:CT	0.922
3	A:243:ASN:HD22	F:1:NAG:C1	0.920
3	A:488:THR:HA	I:1:NAG:O	0.918
3	B:243:ASN:HD22	N:1:NAG:C1	0.917
3	B:488:THR:HA	Q:1:NAG:O	0.916
3	B:460:ASN:HD22	P:1:NAG:CT	0.915
3	A:445:GLN:O	J:1:NAG:CT	0.875
3	B:445:GLN:O	R:1:NAG:CT	0.873
3	A:408:LYS:C	J:13:GAL:H61	0.853
3	B:408:LYS:C	R:13:GAL:H61	0.850
3	A:501:ASP:OD2	A:502:PHE:HD2	0.837
3	B:501:ASP:OD2	B:502:PHE:HD2	0.835
3	A:408:LYS:C	J:13:GAL:O6	0.833
3	B:408:LYS:C	R:13:GAL:O6	0.833
3	A:408:LYS:CB	J:13:GAL:C6	0.807



Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	B:408:LYS:CB	R:13:GAL:C6	0.805
3	A:469:TYR:OH	J:2:NAG:C4	0.797
3	B:469:TYR:OH	R:2:NAG:C4	0.797
3	B:469:TYR:HE1	R:2:NAG:N	0.767
3	A:499:ASN:H	A:499:ASN:HD22	0.765
3	B:499:ASN:HD21	B:502:PHE:HB2	0.764
3	A:499:ASN:HD21	A:502:PHE:HB2	0.763
3	B:499:ASN:H	B:499:ASN:HD22	0.762
3	A:469:TYR:HE1	J:2:NAG:N	0.760
3	A:501:ASP:OD2	A:502:PHE:CD2	0.756
3	B:501:ASP:OD2	B:502:PHE:CD2	0.754
3	B:488:THR:CA	Q:1:NAG:O	0.748
3	A:488:THR:CA	I:1:NAG:O	0.747
3	A:408:LYS:HA	J:13:GAL:C6	0.728
3	B:408:LYS:HA	R:13:GAL:C6	0.726
3	A:469:TYR:CZ	J:2:NAG:C2	0.723
3	B:469:TYR:CZ	R:2:NAG:C2	0.722
3	B:408:LYS:O	R:13:GAL:O6	0.722
3	A:408:LYS:O	J:13:GAL:O6	0.720
3	A:408:LYS:CA	J:13:GAL:H61	0.699
3	B:408:LYS:CA	R:13:GAL:H61	0.699
3	A:498:LEU:HB2	A:502:PHE:O	0.691
3	B:498:LEU:HB2	B:502:PHE:O	0.690

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:488:THR:CB	I:1:NAG:O	0.678
3	B:488:THR:CB	Q:1:NAG:O	0.678
3	B:499:ASN:N	B:499:ASN:ND2	0.675
3	A:499:ASN:N	A:499:ASN:ND2	0.674
3	A:499:ASN:H	A:499:ASN:ND2	0.671
3	A:405:PRO:HG3	J:12:NAG:C2	0.669
3	B:499:ASN:H	B:499:ASN:ND2	0.669
3	B:405:PRO:HG3	R:12:NAG:C2	0.668
3	A:408:LYS:HA	J:13:GAL:H61	0.657
3	B:408:LYS:HA	R:13:GAL:H61	0.657
3	A:243:ASN:HD21	F:1:NAG:C1	0.656
3	B:243:ASN:HD21	N:1:NAG:C1	0.653
3	B:488:THR:HG22	Q:1:NAG:O	0.624
3	A:488:THR:HG22	I:1:NAG:O	0.623
3	B:28:ARG:CG	B:28:ARG:HH11	0.614
3	A:28:ARG:CG	A:28:ARG:HH11	0.612
3	A:341:ASN:HB3	A:342:PRO:HD3	0.610
3	B:341:ASN:HB3	B:342:PRO:HD3	0.610
3	A:409:ASN:HD22	A:410:ASN:H	0.592
3	A:447:LEU:HB3	A:448:PRO:HD3	0.591
3	B:409:ASN:HD22	B:410:ASN:H	0.591
3	B:408:LYS:C	R:13:GAL:HO6	0.589
3	A:408:LYS:HG3	J:13:GAL:C5	0.582

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	B:408:LYS:HG3	R:13:GAL:C5	0.580
3	A:30:LYS:CG	C:1:NAG:CT	0.573
3	B:30:LYS:CG	K:1:NAG:CT	0.572
3	B:408:LYS:HA	R:13:GAL:H62	0.567
3	A:408:LYS:HA	J:13:GAL:H62	0.564
3	A:391:ASN:HB3	A:393:GLN:HG3	0.560
3	B:391:ASN:HB3	B:393:GLN:HG3	0.560
3	A:405:PRO:CB	J:12:NAG:N	0.556
3	B:405:PRO:CB	R:12:NAG:N	0.556
3	B:28:ARG:HG2	B:28:ARG:HH11	0.552
3	A:28:ARG:HG2	A:28:ARG:HH11	0.551
3	B:488:THR:HG22	B:491:ARG:NH2	0.548
3	A:488:THR:HG22	A:491:ARG:NH2	0.547
3	A:109:LEU:H	A:109:LEU:HD12	0.545
3	B:109:LEU:H	B:109:LEU:HD12	0.545
3	B:105:ARG:HG2	B:203:LEU:HB3	0.540
3	A:408:LYS:CG	J:13:GAL:C6	0.538
3	A:359:THR:HG22	A:393:GLN:HG2	0.536
3	B:359:THR:HG22	B:393:GLN:HG2	0.536
3	B:408:LYS:CG	R:13:GAL:C6	0.532
3	A:114:ASN:ND2	D:1:NAG:C1	0.528
3	A:463:ASN:HD22	H:1:NAG:C1	0.528
3	B:114:ASN:ND2	L:1:NAG:C1	0.527

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	B:463:ASN:HD22	P:1:NAG:C1	0.527
3	B:488:THR:CG2	Q:1:NAG:O	0.514
3	A:488:THR:CG2	I:1:NAG:O	0.507
3	A:405:PRO:CA	J:12:NAG:N	0.499
3	A:499:ASN:N	A:499:ASN:HD22	0.499
3	B:499:ASN:N	B:499:ASN:HD22	0.497
3	B:405:PRO:CA	R:12:NAG:N	0.495
3	B:28:ARG:CG	B:28:ARG:NH1	0.479
3	B:423:ILE:HB	B:424:PRO:HD3	0.479
3	A:28:ARG:CG	A:28:ARG:NH1	0.478
3	A:423:ILE:HB	A:424:PRO:HD3	0.477
3	C:17:SIA:H6	C:17:SIA:O12	0.465
3	K:17:SIA:H6	K:17:SIA:O12	0.465
3	A:528:PRO:HA	A:529:PRO:HD3	0.457
3	B:528:PRO:HA	B:529:PRO:HD3	0.454
3	A:77:ARG:HH21	A:91:PRO:HB2	0.451
3	A:341:ASN:CB	A:342:PRO:HD3	0.441
3	B:341:ASN:CB	B:342:PRO:HD3	0.441
3	A:469:TYR:OH	J:2:NAG:C3	0.441
3	B:469:TYR:OH	R:2:NAG:C3	0.441
3	B:33:SER:HB3	B:83:ILE:HD12	0.440
3	A:33:SER:HB3	A:83:ILE:HD12	0.439
3	B:469:TYR:OH	R:2:NAG:C2	0.438

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	D:17:SIA:H6	D:17:SIA:O12	0.437
3	A:469:TYR:OH	J:2:NAG:C2	0.437
3	L:17:SIA:H6	L:17:SIA:O12	0.436
3	A:485:SER:HA	A:486:PRO:C	0.435
3	B:485:SER:HA	B:486:PRO:C	0.435
3	A:386:LYS:HD2	A:397:ILE:HD11	0.433
3	B:386:LYS:HD2	B:397:ILE:HD11	0.431
3	A:527:ASN:HA	A:528:PRO:C	0.427
3	B:527:ASN:HA	B:528:PRO:C	0.427
3	A:378:LEU:HD12	A:417:LEU:HG	0.421
3	B:378:LEU:HD12	B:417:LEU:HG	0.421
3	A:404:SER:N	J:12:NAG:O	0.421
3	A:408:LYS:HG3	J:13:GAL:O5	0.414
3	B:408:LYS:HG3	R:13:GAL:O5	0.414
3	B:231:GLU:HA	B:328:THR:O	0.413
3	A:231:GLU:HA	A:328:THR:O	0.412
3	B:423:ILE:O	B:425:PRO:HD3	0.412
3	A:423:ILE:O	A:425:PRO:HD3	0.411
3	A:460:ASN:O	H:1:NAG:N	0.411
3	B:460:ASN:O	P:1:NAG:N	0.405
3	B:488:THR:HB	Q:1:NAG:O	0.402
3	A:262:ARG:HH12	A:264:SER:HA	0.401
3	B:262:ARG:HH12	B:264:SER:HA	0.401

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	B:445:GLN:HB2	R:18:FUC:C6	1.633
4	A:445:GLN:HB2	J:18:FUC:C6	1.628
4	B:445:GLN:HG3	R:18:FUC:C5	1.508
4	A:445:GLN:HG3	J:18:FUC:C5	1.503
4	A:445:GLN:CG	J:18:FUC:H5	1.501
4	B:445:GLN:CG	R:18:FUC:H5	1.501
4	A:138:PRO:HD2	D:10:SIA:C4	1.464
4	A:138:PRO:HD2	D:10:SIA:C5	1.458
4	B:138:PRO:HD2	L:10:SIA:C4	1.456
4	B:138:PRO:HD2	L:10:SIA:C5	1.454
4	A:243:ASN:ND2	F:1:NAG:C1	1.447
4	B:243:ASN:ND2	N:1:NAG:C1	1.443
4	A:488:THR:CG2	I:18:FUC:H4	1.441
4	B:488:THR:CG2	Q:18:FUC:H4	1.440
4	A:445:GLN:CB	J:18:FUC:C6	1.430
4	B:445:GLN:CB	R:18:FUC:C6	1.428
4	A:445:GLN:CB	J:18:FUC:H61	1.346
4	A:463:ASN:HD22	H:1:NAG:C1	1.346
4	B:463:ASN:HD22	P:1:NAG:C1	1.343
4	B:445:GLN:CB	R:18:FUC:H61	1.341
4	A:138:PRO:CD	D:10:SIA:C5	1.330
4	B:138:PRO:CD	L:10:SIA:C5	1.330
4	A:110:HIS:CE1	D:2:NAG:H5	1.317

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	B:110:HIS:CE1	L:2:NAG:H5	1.314
4	B:138:PRO:CD	L:10:SIA:C4	1.309
4	A:138:PRO:CD	D:10:SIA:C4	1.301
4	B:110:HIS:HD1	L:2:NAG:C5	1.260
4	A:110:HIS:HD1	D:2:NAG:C5	1.259
4	A:488:THR:HG21	I:18:FUC:C4	1.257
4	B:488:THR:HG21	Q:18:FUC:C4	1.257
4	A:138:PRO:HD2	D:10:SIA:O4	1.252
4	B:138:PRO:HD2	L:10:SIA:O4	1.249
4	B:110:HIS:ND1	L:2:NAG:C5	1.194
4	A:110:HIS:ND1	D:2:NAG:C5	1.193
4	A:167:GLU:OE2	E:18:FUC:H3	1.189
4	B:167:GLU:OE2	M:18:FUC:H3	1.188
4	A:515:ILE:CG1	J:14:SIA:O4	1.184
4	B:515:ILE:CG1	R:14:SIA:O4	1.182
4	B:109:LEU:HA	L:4:MAN:O6	1.176
4	A:109:LEU:HA	D:4:MAN:O6	1.175
4	A:196:GLU:N	E:2:NAG:CT	1.131
4	A:461:SER:HA	H:1:NAG:CT	1.130
4	B:196:GLU:N	M:2:NAG:CT	1.129
4	A:491:ARG:HD2	I:1:NAG:O3	1.121
4	B:491:ARG:HD2	Q:1:NAG:O3	1.115
4	B:491:ARG:HH22	Q:18:FUC:H3	1.096

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	B:445:GLN:HB2	R:18:FUC:H62	1.092
4	B:463:ASN:ND2	P:1:NAG:C1	1.090
4	A:491:ARG:HH22	I:18:FUC:H3	1.090
4	A:463:ASN:ND2	H:1:NAG:C1	1.087
4	A:445:GLN:HB2	J:18:FUC:H62	1.084
4	B:138:PRO:CD	L:10:SIA:O4	1.067
4	B:445:GLN:CB	R:18:FUC:C5	1.067
4	A:138:PRO:CD	D:10:SIA:O4	1.064
4	A:445:GLN:CB	J:18:FUC:C5	1.063
4	A:167:GLU:OE2	E:18:FUC:C3	1.062
4	B:167:GLU:OE2	M:18:FUC:C3	1.058
4	B:110:HIS:CE1	L:2:NAG:C5	1.047
4	A:110:HIS:CE1	D:2:NAG:C5	1.046
4	B:141:LEU:HB3	M:11:MAN:O3	1.032
4	A:141:LEU:HB3	E:11:MAN:O3	1.031
4	B:138:PRO:HD2	L:10:SIA:HO4	1.022
4	A:138:PRO:HD2	D:10:SIA:HO4	1.018
4	A:515:ILE:HG12	J:14:SIA:O4	0.992
4	B:515:ILE:HG12	R:14:SIA:O4	0.992
4	A:445:GLN:HG3	J:18:FUC:C4	0.980
4	B:445:GLN:HG3	R:18:FUC:C4	0.978
4	B:243:ASN:HD22	N:1:NAG:C1	0.977
4	B:452:GLU:OE2	R:14:SIA:O11	0.977



Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:452:GLU:OE2	J:14:SIA:O11	0.976
4	B:445:GLN:CG	R:18:FUC:C5	0.975
4	A:445:GLN:CG	J:18:FUC:C5	0.968
4	A:491:ARG:CZ	I:1:NAG:H4	0.966
4	B:491:ARG:CZ	Q:1:NAG:H4	0.964
4	B:491:ARG:HG2	Q:1:NAG:C2	0.951
4	A:491:ARG:HG2	I:1:NAG:C2	0.946
4	A:461:SER:CA	H:1:NAG:CT	0.943
4	B:491:ARG:NH2	Q:18:FUC:H3	0.934
4	A:491:ARG:NH2	I:18:FUC:H3	0.933
4	B:110:HIS:ND1	L:2:NAG:C6	0.923
4	A:109:LEU:CA	D:4:MAN:O6	0.921
4	A:110:HIS:ND1	D:2:NAG:C6	0.921
4	B:109:LEU:CA	L:4:MAN:O6	0.920
4	A:110:HIS:ND1	D:2:NAG:H62	0.915
4	B:110:HIS:ND1	L:2:NAG:H62	0.914
4	A:488:THR:CG2	I:18:FUC:C4	0.907
4	B:488:THR:CG2	Q:18:FUC:C4	0.905
4	A:141:LEU:CB	E:11:MAN:O3	0.901
4	B:110:HIS:ND1	L:2:NAG:O5	0.891
4	A:445:GLN:HB3	J:18:FUC:H61	0.890
4	A:110:HIS:ND1	D:2:NAG:O5	0.890
4	B:445:GLN:HB3	R:18:FUC:H61	0.888

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	B:445:GLN:HB2	R:18:FUC:H61	0.885
4	A:445:GLN:HB2	J:18:FUC:H61	0.884
4	B:196:GLU:H	M:2:NAG:CT	0.873
4	A:196:GLU:H	E:2:NAG:CT	0.871
4	A:201:TYR:HA	E:14:SIA:O9	0.869
4	B:201:TYR:HA	M:14:SIA:O9	0.869
4	A:243:ASN:HD22	F:1:NAG:C1	0.868
4	A:110:HIS:HE1	D:2:NAG:H5	0.862
4	B:110:HIS:HE1	L:2:NAG:H5	0.857
4	A:110:HIS:ND1	D:2:NAG:H5	0.847
4	A:501:ASP:OD2	A:502:PHE:HD2	0.837
4	A:110:HIS:HD1	D:2:NAG:C6	0.836
4	A:488:THR:HG21	I:18:FUC:H4	0.835
4	A:491:ARG:CD	I:1:NAG:C2	0.835
4	B:488:THR:HG21	Q:18:FUC:H4	0.835
4	B:110:HIS:HD1	L:2:NAG:C6	0.835
4	B:501:ASP:OD2	B:502:PHE:HD2	0.835
4	B:491:ARG:CD	Q:1:NAG:C2	0.834
4	A:109:LEU:HD21	D:8:NAG:O	0.829
4	A:280:SER:CB	F:18:FUC:C1	0.828
4	B:280:SER:CB	N:18:FUC:C1	0.828
4	B:109:LEU:HD21	L:8:NAG:O	0.827
4	B:488:THR:HG22	Q:18:FUC:H4	0.822

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:488:THR:HG22	I:18:FUC:H4	0.820
4	B:491:ARG:NE	Q:1:NAG:C2	0.818
4	A:491:ARG:NE	I:1:NAG:C2	0.816
4	B:445:GLN:CG	R:18:FUC:C6	0.814
4	A:491:ARG:CG	I:1:NAG:C2	0.799
4	B:491:ARG:CG	Q:1:NAG:C2	0.797
4	A:491:ARG:CD	I:1:NAG:O3	0.795
4	A:109:LEU:HG	D:4:MAN:H62	0.788
4	B:109:LEU:HG	L:4:MAN:H62	0.786
4	B:491:ARG:CD	Q:1:NAG:O3	0.773
4	A:138:PRO:N	D:10:SIA:O4	0.770
4	B:138:PRO:N	L:10:SIA:O4	0.768
4	A:499:ASN:H	A:499:ASN:HD22	0.765
4	A:280:SER:HB2	F:18:FUC:C1	0.764
4	B:499:ASN:HD21	B:502:PHE:HB2	0.764
4	A:499:ASN:HD21	A:502:PHE:HB2	0.763
4	B:280:SER:HB2	N:18:FUC:C1	0.763
4	B:499:ASN:H	B:499:ASN:HD22	0.762
4	B:141:LEU:CB	M:11:MAN:O3	0.761
4	B:532:ASN:HD21	R:1:NAG:C2	0.761
4	A:532:ASN:HD21	J:1:NAG:C2	0.760
4	B:491:ARG:HH22	Q:18:FUC:C3	0.757
4	A:501:ASP:OD2	A:502:PHE:CD2	0.756

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:491:ARG:HH22	I:18:FUC:C3	0.755
4	B:501:ASP:OD2	B:502:PHE:CD2	0.754
4	B:138:PRO:HD3	L:10:SIA:C5	0.728
4	A:138:PRO:HD3	D:10:SIA:C5	0.726
4	B:515:ILE:HG12	R:14:SIA:HO4	0.722
4	B:515:ILE:CD1	R:14:SIA:O4	0.720
4	A:167:GLU:HB3	E:18:FUC:C6	0.719
4	A:515:ILE:CD1	J:14:SIA:O4	0.718
4	A:488:THR:HG21	I:18:FUC:C5	0.717
4	B:167:GLU:HB3	M:18:FUC:C6	0.717
4	B:488:THR:HG21	Q:18:FUC:C5	0.715
4	A:445:GLN:CG	J:18:FUC:C6	0.713
4	B:243:ASN:HD21	N:1:NAG:C1	0.711
4	A:243:ASN:HD21	F:1:NAG:C1	0.709
4	B:445:GLN:CD	R:18:FUC:H5	0.709
4	A:445:GLN:CD	J:18:FUC:H5	0.707
4	A:196:GLU:HB3	E:1:NAG:O4	0.696
4	A:201:TYR:CZ	E:14:SIA:O7	0.696
4	B:201:TYR:CZ	M:14:SIA:O7	0.696
4	B:196:GLU:HB3	M:1:NAG:O4	0.694
4	A:498:LEU:HB2	A:502:PHE:O	0.691
4	A:109:LEU:HA	D:4:MAN:HO6	0.690
4	B:498:LEU:HB2	B:502:PHE:O	0.690

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:243:ASN:CG	F:1:NAG:C1	0.690
4	B:243:ASN:CG	N:1:NAG:C1	0.689
4	B:109:LEU:HA	L:4:MAN:HO6	0.687
4	B:532:ASN:ND2	R:1:NAG:C1	0.687
4	A:532:ASN:ND2	J:1:NAG:C1	0.686
4	A:532:ASN:ND2	J:1:NAG:C2	0.686
4	B:532:ASN:ND2	R:1:NAG:C2	0.686
4	A:133:ILE:HG12	D:8:NAG:N	0.675
4	B:133:ILE:HG12	L:8:NAG:N	0.675
4	B:499:ASN:N	B:499:ASN:ND2	0.675
4	A:499:ASN:N	A:499:ASN:ND2	0.674
4	A:499:ASN:H	A:499:ASN:ND2	0.671
4	B:499:ASN:H	B:499:ASN:ND2	0.669
4	A:109:LEU:HA	D:4:MAN:C6	0.661
4	B:133:ILE:CG1	L:8:NAG:N	0.661
4	A:133:ILE:CG1	D:8:NAG:N	0.660
4	B:109:LEU:HA	L:4:MAN:C6	0.659
4	A:491:ARG:HE	I:1:NAG:C2	0.642
4	B:491:ARG:HE	Q:1:NAG:C2	0.640
4	B:109:LEU:CB	L:4:MAN:O6	0.637
4	A:109:LEU:CB	D:4:MAN:O6	0.636
4	A:139:ASN:N	D:10:SIA:O4	0.633
4	B:139:ASN:N	L:10:SIA:O4	0.631

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	B:280:SER:HB2	N:18:FUC:H2	0.625
4	A:280:SER:HB2	F:18:FUC:H2	0.624
4	B:532:ASN:HD22	R:1:NAG:C1	0.621
4	A:532:ASN:HD22	J:1:NAG:C1	0.620
4	B:109:LEU:CD2	L:8:NAG:O	0.620
4	A:141:LEU:HD21	E:3:BMA:O6	0.619
4	B:467:LEU:HB2	R:18:FUC:C6	0.616
4	A:467:LEU:HB2	J:18:FUC:C6	0.615
4	B:28:ARG:CG	B:28:ARG:HH11	0.614
4	A:28:ARG:CG	A:28:ARG:HH11	0.612
4	B:138:PRO:CD	L:10:SIA:HO4	0.612
4	A:341:ASN:HB3	A:342:PRO:HD3	0.610
4	B:144:MET:HB2	M:2:NAG:CT	0.610
4	B:341:ASN:HB3	B:342:PRO:HD3	0.610
4	A:491:ARG:NE	I:1:NAG:H4	0.606
4	A:491:ARG:NH2	I:1:NAG:H4	0.606
4	B:491:ARG:NE	Q:1:NAG:H4	0.606
4	B:491:ARG:NH2	Q:1:NAG:H4	0.605
4	A:138:PRO:CD	D:10:SIA:HO4	0.598
4	A:409:ASN:HD22	A:410:ASN:H	0.592
4	A:447:LEU:HB3	A:448:PRO:HD3	0.591
4	B:409:ASN:HD22	B:410:ASN:H	0.591
4	B:141:LEU:HD21	M:3:BMA:O6	0.584

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:141:LEU:HB2	E:11:MAN:O2	0.574
4	B:141:LEU:HB2	M:11:MAN:O2	0.574
4	A:167:GLU:OE2	E:1:NAG:O6	0.572
4	B:167:GLU:OE2	M:1:NAG:O6	0.572
4	A:30:LYS:HB3	C:1:NAG:C	0.568
4	B:30:LYS:HB3	K:1:NAG:C	0.568
4	A:109:LEU:HG	D:4:MAN:C6	0.564
4	B:109:LEU:HG	L:4:MAN:C6	0.563
4	A:391:ASN:HB3	A:393:GLN:HG3	0.560
4	B:391:ASN:HB3	B:393:GLN:HG3	0.560
4	B:167:GLU:OE2	M:18:FUC:C1	0.559
4	A:167:GLU:OE2	E:18:FUC:C1	0.557
4	B:28:ARG:HG2	B:28:ARG:HH11	0.552
4	A:28:ARG:HG2	A:28:ARG:HH11	0.551
4	A:280:SER:HB2	F:18:FUC:C2	0.549
4	B:280:SER:HB2	N:18:FUC:C2	0.549
4	B:488:THR:HG22	B:491:ARG:NH2	0.548
4	A:467:LEU:CB	J:18:FUC:C6	0.547
4	A:488:THR:HG22	A:491:ARG:NH2	0.547
4	B:141:LEU:CB	M:11:MAN:O2	0.547
4	A:201:TYR:HE2	E:14:SIA:O6	0.547
4	A:141:LEU:CB	E:11:MAN:O2	0.546
4	B:467:LEU:CB	R:18:FUC:C6	0.546

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:109:LEU:H	A:109:LEU:HD12	0.545
4	B:109:LEU:H	B:109:LEU:HD12	0.545
4	B:201:TYR:HE2	M:14:SIA:O6	0.543
4	A:109:LEU:C	D:2:NAG:H62	0.541
4	B:109:LEU:C	L:2:NAG:H62	0.541
4	B:488:THR:CG2	Q:18:FUC:C5	0.541
4	A:461:SER:C	H:1:NAG:CT	0.540
4	B:105:ARG:HG2	B:203:LEU:HB3	0.540
4	A:488:THR:CG2	I:18:FUC:C5	0.539
4	A:359:THR:HG22	A:393:GLN:HG2	0.536
4	B:359:THR:HG22	B:393:GLN:HG2	0.536
4	A:491:ARG:NE	I:1:NAG:C3	0.525
4	B:491:ARG:NE	Q:1:NAG:C3	0.523
4	A:491:ARG:NH2	I:1:NAG:O6	0.523
4	B:491:ARG:NH2	Q:1:NAG:O6	0.522
4	B:110:HIS:CG	L:2:NAG:H62	0.509
4	A:491:ARG:HD2	I:1:NAG:C3	0.508
4	A:110:HIS:CG	D:2:NAG:H62	0.507
4	B:491:ARG:HD2	Q:1:NAG:C3	0.506
4	A:499:ASN:N	A:499:ASN:HD22	0.499
4	B:499:ASN:N	B:499:ASN:HD22	0.497
4	B:144:MET:CB	M:2:NAG:CT	0.495
4	A:109:LEU:CD2	D:8:NAG:O	0.495



Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:491:ARG:CD	I:1:NAG:C3	0.488
4	B:491:ARG:CD	Q:1:NAG:C3	0.488
4	B:445:GLN:HB3	R:18:FUC:C5	0.488
4	A:445:GLN:HB3	J:18:FUC:C5	0.487
4	A:280:SER:HB3	F:18:FUC:C1	0.484
4	B:280:SER:HB3	N:18:FUC:C1	0.482
4	A:167:GLU:OE2	E:18:FUC:C2	0.481
4	B:167:GLU:OE2	M:18:FUC:C2	0.480
4	B:28:ARG:CG	B:28:ARG:NH1	0.479
4	B:423:ILE:HB	B:424:PRO:HD3	0.479
4	A:28:ARG:CG	A:28:ARG:NH1	0.478
4	A:423:ILE:HB	A:424:PRO:HD3	0.477
4	B:138:PRO:CG	L:10:SIA:C5	0.477
4	A:491:ARG:HD2	I:1:NAG:HO3	0.474
4	A:138:PRO:CG	D:10:SIA:C5	0.474
4	A:201:TYR:CE2	E:14:SIA:O6	0.473
4	B:491:ARG:HD2	Q:1:NAG:HO3	0.472
4	B:201:TYR:CE2	M:14:SIA:O6	0.471
4	B:515:ILE:HD11	R:14:SIA:O4	0.470
4	A:515:ILE:HD11	J:14:SIA:O4	0.468
4	A:488:THR:HG22	I:18:FUC:C4	0.467
4	B:488:THR:HG22	Q:18:FUC:C4	0.467
4	B:201:TYR:HA	M:14:SIA:HO9	0.465

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	B:167:GLU:CB	M:18:FUC:C6	0.462
4	A:528:PRO:HA	A:529:PRO:HD3	0.457
4	B:528:PRO:HA	B:529:PRO:HD3	0.454
4	A:77:ARG:HH21	A:91:PRO:HB2	0.451
4	B:109:LEU:C	L:2:NAG:C6	0.447
4	B:280:SER:HB2	N:18:FUC:O5	0.446
4	A:109:LEU:C	D:2:NAG:C6	0.445
4	A:280:SER:HB2	F:18:FUC:O5	0.445
4	A:450:GLU:CD	J:13:GAL:H5	0.444
4	B:450:GLU:CD	R:13:GAL:H5	0.444
4	A:537:ARG:CD	J:14:SIA:H8	0.443
4	B:537:ARG:CD	R:14:SIA:H8	0.443
4	B:109:LEU:O	L:2:NAG:O6	0.443
4	A:341:ASN:CB	A:342:PRO:HD3	0.441
4	B:341:ASN:CB	B:342:PRO:HD3	0.441
4	B:33:SER:HB3	B:83:ILE:HD12	0.440
4	A:33:SER:HB3	A:83:ILE:HD12	0.439
4	B:31:ASN:HB3	K:1:NAG:C1	0.438
4	A:31:ASN:HB3	C:1:NAG:C1	0.437
4	A:491:ARG:NE	I:1:NAG:C4	0.437
4	B:491:ARG:NE	Q:1:NAG:C4	0.437
4	A:110:HIS:CE1	D:2:NAG:C6	0.436
4	B:110:HIS:CE1	L:2:NAG:C6	0.436

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:485:SER:HA	A:486:PRO:C	0.435
4	B:485:SER:HA	B:486:PRO:C	0.435
4	A:386:LYS:HD2	A:397:ILE:HD11	0.433
4	B:386:LYS:HD2	B:397:ILE:HD11	0.431
4	A:280:SER:CB	F:18:FUC:O5	0.428
4	B:280:SER:CB	N:18:FUC:O5	0.428
4	A:527:ASN:HA	A:528:PRO:C	0.427
4	B:527:ASN:HA	B:528:PRO:C	0.427
4	A:378:LEU:HD12	A:417:LEU:HG	0.421
4	B:378:LEU:HD12	B:417:LEU:HG	0.421
4	A:467:LEU:HB3	J:18:FUC:C6	0.420
4	B:467:LEU:HB3	R:18:FUC:C6	0.420
4	A:141:LEU:HA	E:11:MAN:O4	0.420
4	A:461:SER:O	H:1:NAG:C	0.419
4	B:141:LEU:HA	M:11:MAN:O4	0.419
4	B:109:LEU:O	L:2:NAG:C6	0.416
4	B:515:ILE:CG1	R:14:SIA:HO4	0.415
4	A:109:LEU:O	D:2:NAG:C6	0.415
4	B:537:ARG:HA	R:14:SIA:H8	0.415
4	B:231:GLU:HA	B:328:THR:O	0.413
4	A:231:GLU:HA	A:328:THR:O	0.412
4	B:423:ILE:O	B:425:PRO:HD3	0.412
4	A:423:ILE:O	A:425:PRO:HD3	0.411

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:537:ARG:HA	J:14:SIA:H8	0.409
4	B:138:PRO:CA	L:10:SIA:O4	0.407
4	A:138:PRO:CA	D:10:SIA:O4	0.406
4	A:262:ARG:HH12	A:264:SER:HA	0.401
4	B:262:ARG:HH12	B:264:SER:HA	0.401
5	A:511:PHE:CB	I:18:FUC:H61	1.588
5	B:511:PHE:CB	Q:18:FUC:H61	1.582
5	B:148:ARG:HH21	M:2:NAG:CT	1.427
5	A:148:ARG:HH21	E:2:NAG:CT	1.423
5	B:243:ASN:ND2	N:1:NAG:C1	1.397
5	A:243:ASN:ND2	F:1:NAG:C1	1.395
5	A:447:LEU:HD21	J:10:SIA:O9	1.375
5	B:447:LEU:HD21	R:10:SIA:O9	1.372
5	A:504:GLN:NE2	H:1:NAG:CT	1.344
5	B:277:ASP:HB3	N:18:FUC:C6	1.329
5	A:277:ASP:HB3	F:18:FUC:C6	1.326
5	I:17:SIA:CT	J:17:SIA:O9	1.298
5	Q:17:SIA:CT	R:17:SIA:O9	1.296
5	A:511:PHE:CB	I:18:FUC:C6	1.295
5	B:511:PHE:CB	Q:18:FUC:C6	1.292
5	B:148:ARG:NH2	M:2:NAG:CT	1.279
5	A:148:ARG:NH2	E:2:NAG:CT	1.275
5	B:447:LEU:CD1	R:10:SIA:H92	1.229

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:447:LEU:CD1	J:10:SIA:H92	1.226
5	A:445:GLN:HE22	J:1:NAG:C1	1.212
5	B:445:GLN:HE22	R:1:NAG:C1	1.210
5	A:277:ASP:CB	F:18:FUC:C6	1.177
5	B:277:ASP:CB	N:18:FUC:C6	1.177
5	A:112:VAL:O	D:1:NAG:CT	1.153
5	B:112:VAL:O	L:1:NAG:CT	1.150
5	A:277:ASP:CB	F:18:FUC:H61	1.145
5	B:277:ASP:CB	N:18:FUC:H61	1.145
5	B:447:LEU:HD11	R:10:SIA:H92	1.135
5	A:447:LEU:HD11	J:10:SIA:H92	1.133
5	A:447:LEU:CD1	J:10:SIA:C9	1.124
5	B:447:LEU:CD1	R:10:SIA:C9	1.123
5	B:243:ASN:HD21	N:1:NAG:C1	1.087
5	A:243:ASN:HD21	F:1:NAG:C1	1.083
5	A:447:LEU:CD2	J:10:SIA:C9	1.062
5	B:447:LEU:CD2	R:10:SIA:C9	1.062
5	A:447:LEU:CD2	J:10:SIA:H91	1.055
5	B:447:LEU:CD2	R:10:SIA:H91	1.054
5	A:447:LEU:CD2	J:10:SIA:O9	1.037
5	B:447:LEU:CD2	R:10:SIA:O9	1.036
5	B:460:ASN:HB3	P:1:NAG:O3	1.029
5	B:447:LEU:HD22	R:10:SIA:H91	1.028

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:460:ASN:HB3	H:1:NAG:O3	1.024
5	A:447:LEU:HD22	J:10:SIA:H91	1.022
5	A:277:ASP:HB3	F:18:FUC:H63	1.016
5	B:277:ASP:HB3	N:18:FUC:H63	1.014
5	A:455:GLU:OE2	I:18:FUC:H62	0.992
5	B:455:GLU:OE2	Q:18:FUC:H62	0.992
5	A:445:GLN:NE2	J:1:NAG:C1	0.972
5	B:445:GLN:NE2	R:1:NAG:C1	0.967
5	A:532:ASN:ND2	J:1:NAG:C1	0.966
5	B:532:ASN:ND2	R:1:NAG:C1	0.966
5	B:447:LEU:HD11	R:10:SIA:C9	0.957
5	A:447:LEU:HD11	J:10:SIA:C9	0.956
5	B:277:ASP:HB2	N:18:FUC:H61	0.939
5	A:277:ASP:HB2	F:18:FUC:H61	0.935
5	A:163:THR:OG1	E:1:NAG:CT	0.933
5	B:447:LEU:HD13	R:10:SIA:H92	0.923
5	A:243:ASN:CG	F:1:NAG:C1	0.922
5	B:243:ASN:CG	N:1:NAG:C1	0.922
5	A:447:LEU:HD13	J:10:SIA:H92	0.921
5	A:504:GLN:HE21	H:1:NAG:CT	0.920
5	A:277:ASP:CB	F:18:FUC:H63	0.917
5	B:277:ASP:CB	N:18:FUC:H63	0.913
5	A:447:LEU:HD21	J:10:SIA:C9	0.896

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	B:447:LEU:HD21	R:10:SIA:C9	0.893
5	A:458:GLU:HG2	H:2:NAG:O6	0.873
5	B:458:GLU:HG2	P:2:NAG:O6	0.873
5	B:460:ASN:CB	P:1:NAG:O3	0.840
5	A:460:ASN:CB	H:1:NAG:O3	0.838
5	B:532:ASN:HD22	R:1:NAG:C1	0.838
5	A:501:ASP:OD2	A:502:PHE:HD2	0.837
5	A:532:ASN:HD22	J:1:NAG:C1	0.835
5	B:501:ASP:OD2	B:502:PHE:HD2	0.835
5	A:431:THR:OG1	G:18:FUC:H62	0.822
5	B:447:LEU:HD13	R:10:SIA:C9	0.820
5	A:447:LEU:HD13	J:10:SIA:C9	0.815
5	B:445:GLN:HB3	R:1:NAG:CT	0.813
5	A:445:GLN:HB3	J:1:NAG:CT	0.812
5	B:460:ASN:HB3	P:1:NAG:C3	0.777
5	A:460:ASN:HB3	H:1:NAG:C3	0.776
5	A:499:ASN:H	A:499:ASN:HD22	0.765
5	B:499:ASN:HD21	B:502:PHE:HB2	0.764
5	A:499:ASN:HD21	A:502:PHE:HB2	0.763
5	B:499:ASN:H	B:499:ASN:HD22	0.762
5	A:501:ASP:OD2	A:502:PHE:CD2	0.756
5	B:501:ASP:OD2	B:502:PHE:CD2	0.754
5	A:277:ASP:CG	F:18:FUC:O5	0.749

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	B:277:ASP:CG	N:18:FUC:O5	0.749
5	A:431:THR:OG1	G:18:FUC:C6	0.712
5	A:447:LEU:CD1	J:10:SIA:H91	0.702
5	A:458:GLU:HB2	H:8:NAG:CT	0.701
5	B:458:GLU:HB2	P:8:NAG:CT	0.700
5	B:447:LEU:CD1	R:10:SIA:H91	0.699
5	A:498:LEU:HB2	A:502:PHE:O	0.691
5	B:498:LEU:HB2	B:502:PHE:O	0.690
5	B:243:ASN:HD21	N:1:NAG:C2	0.688
5	A:243:ASN:HD21	F:1:NAG:C2	0.686
5	B:499:ASN:N	B:499:ASN:ND2	0.675
5	A:499:ASN:N	A:499:ASN:ND2	0.674
5	A:499:ASN:H	A:499:ASN:ND2	0.671
5	B:499:ASN:H	B:499:ASN:ND2	0.669
5	A:243:ASN:ND2	F:1:NAG:C2	0.665
5	B:243:ASN:ND2	N:1:NAG:C2	0.665
5	B:460:ASN:HA	P:1:NAG:CT	0.660
5	A:445:GLN:CB	J:1:NAG:CT	0.655
5	A:460:ASN:HA	H:1:NAG:CT	0.655
5	B:445:GLN:CB	R:1:NAG:CT	0.653
5	A:512:GLU:HG3	I:18:FUC:O4	0.652
5	B:512:GLU:HG3	Q:18:FUC:O4	0.652
5	A:511:PHE:CA	I:18:FUC:H61	0.652



Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:504:GLN:HB2	H:1:NAG:CT	0.651
5	B:511:PHE:CA	Q:18:FUC:H61	0.648
5	A:447:LEU:HD22	J:10:SIA:C9	0.636
5	B:447:LEU:HD22	R:10:SIA:C9	0.631
5	A:447:LEU:CG	J:10:SIA:C9	0.615
5	B:28:ARG:CG	B:28:ARG:HH11	0.614
5	B:447:LEU:CG	R:10:SIA:C9	0.614
5	A:28:ARG:CG	A:28:ARG:HH11	0.612
5	A:341:ASN:HB3	A:342:PRO:HD3	0.610
5	B:341:ASN:HB3	B:342:PRO:HD3	0.610
5	B:112:VAL:O	L:1:NAG:C	0.602
5	A:112:VAL:O	D:1:NAG:C	0.600
5	A:413:ASN:CG	G:1:NAG:C1	0.597
5	A:409:ASN:HD22	A:410:ASN:H	0.592
5	A:447:LEU:HB3	A:448:PRO:HD3	0.591
5	B:409:ASN:HD22	B:410:ASN:H	0.591
5	B:532:ASN:HD21	R:1:NAG:C1	0.588
5	A:532:ASN:HD21	J:1:NAG:C1	0.585
5	B:459:PRO:CD	P:4:MAN:O6	0.584
5	A:459:PRO:CD	H:4:MAN:O6	0.583
5	A:458:GLU:OE2	H:2:NAG:H5	0.580
5	B:458:GLU:OE2	P:2:NAG:H5	0.580
5	B:447:LEU:HD13	R:10:SIA:H91	0.574

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:447:LEU:CG	J:10:SIA:H91	0.573
5	B:447:LEU:CG	R:10:SIA:H91	0.573
5	A:391:ASN:HB3	A:393:GLN:HG3	0.560
5	A:460:ASN:CB	H:1:NAG:C3	0.560
5	B:391:ASN:HB3	B:393:GLN:HG3	0.560
5	A:504:GLN:HE22	H:1:NAG:CT	0.559
5	B:28:ARG:HG2	B:28:ARG:HH11	0.552
5	A:28:ARG:HG2	A:28:ARG:HH11	0.551
5	B:488:THR:HG22	B:491:ARG:NH2	0.548
5	A:488:THR:HG22	A:491:ARG:NH2	0.547
5	A:109:LEU:H	A:109:LEU:HD12	0.545
5	B:109:LEU:H	B:109:LEU:HD12	0.545
5	B:105:ARG:HG2	B:203:LEU:HB3	0.540
5	B:532:ASN:ND2	R:1:NAG:O5	0.537
5	A:359:THR:HG22	A:393:GLN:HG2	0.536
5	B:359:THR:HG22	B:393:GLN:HG2	0.536
5	A:532:ASN:ND2	J:1:NAG:O5	0.533
5	A:504:GLN:CD	H:1:NAG:CT	0.532
5	A:445:GLN:CB	J:1:NAG:N	0.525
5	B:445:GLN:CB	R:1:NAG:N	0.525
5	A:277:ASP:CG	F:18:FUC:C6	0.524
5	B:277:ASP:CG	N:18:FUC:C6	0.523
5	A:511:PHE:CB	I:18:FUC:C5	0.511

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	B:511:PHE:CB	Q:18:FUC:C5	0.509
5	B:460:ASN:OD1	P:1:NAG:H3	0.509
5	A:460:ASN:OD1	H:1:NAG:H3	0.507
5	A:431:THR:HG21	G:18:FUC:C6	0.501
5	A:447:LEU:HD13	J:10:SIA:H91	0.499
5	A:499:ASN:N	A:499:ASN:HD22	0.499
5	A:431:THR:HG21	G:18:FUC:H61	0.498
5	A:445:GLN:HB3	J:1:NAG:C	0.497
5	B:445:GLN:HB3	R:1:NAG:C	0.497
5	B:499:ASN:N	B:499:ASN:HD22	0.497
5	B:199:PRO:HG3	M:18:FUC:H63	0.491
5	A:199:PRO:HG3	E:18:FUC:H63	0.490
5	A:459:PRO:HD2	H:4:MAN:O6	0.490
5	B:459:PRO:HD2	P:4:MAN:O6	0.488
5	B:28:ARG:CG	B:28:ARG:NH1	0.479
5	B:423:ILE:HB	B:424:PRO:HD3	0.479
5	A:28:ARG:CG	A:28:ARG:NH1	0.478
5	A:423:ILE:HB	A:424:PRO:HD3	0.477
5	B:445:GLN:HA	R:1:NAG:N	0.471
5	A:445:GLN:HA	J:1:NAG:N	0.470
5	A:459:PRO:HD3	H:4:MAN:O6	0.467
5	B:459:PRO:HD3	P:4:MAN:O6	0.466
5	A:413:ASN:OD1	G:1:NAG:C1	0.462

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:528:PRO:HA	A:529:PRO:HD3	0.457
5	A:504:GLN:CB	H:1:NAG:CT	0.457
5	B:528:PRO:HA	B:529:PRO:HD3	0.454
5	A:148:ARG:HH22	E:2:NAG:CT	0.454
5	A:77:ARG:HH21	A:91:PRO:HB2	0.451
5	B:148:ARG:HH22	M:2:NAG:CT	0.450
5	A:341:ASN:CB	A:342:PRO:HD3	0.441
5	B:341:ASN:CB	B:342:PRO:HD3	0.441
5	B:33:SER:HB3	B:83:ILE:HD12	0.440
5	A:33:SER:HB3	A:83:ILE:HD12	0.439
5	A:485:SER:HA	A:486:PRO:C	0.435
5	B:485:SER:HA	B:486:PRO:C	0.435
5	A:386:LYS:HD2	A:397:ILE:HD11	0.433
5	B:386:LYS:HD2	B:397:ILE:HD11	0.431
5	A:527:ASN:HA	A:528:PRO:C	0.427
5	B:527:ASN:HA	B:528:PRO:C	0.427
5	A:511:PHE:C	I:18:FUC:H61	0.427
5	B:511:PHE:C	Q:18:FUC:H61	0.425
5	A:378:LEU:HD12	A:417:LEU:HG	0.421
5	B:378:LEU:HD12	B:417:LEU:HG	0.421
5	B:231:GLU:HA	B:328:THR:O	0.413
5	A:231:GLU:HA	A:328:THR:O	0.412
5	B:423:ILE:O	B:425:PRO:HD3	0.412

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:423:ILE:O	A:425:PRO:HD3	0.411
5	B:166:ASN:HB3	M:1:NAG:C1	0.411
5	A:166:ASN:HB3	E:1:NAG:C1	0.410
5	A:262:ARG:HH12	A:264:SER:HA	0.401
5	B:262:ARG:HH12	B:264:SER:HA	0.401
6	A:488:THR:HA	J:1:NAG:CT	1.581
6	B:488:THR:HA	R:1:NAG:CT	1.581
6	A:488:THR:CA	J:1:NAG:CT	1.571
6	B:488:THR:CA	R:1:NAG:CT	1.568
6	A:110:HIS:CE1	D:18:FUC:H4	1.485
6	B:110:HIS:CE1	L:18:FUC:H4	1.484
6	A:488:THR:CB	J:1:NAG:CT	1.469
6	B:488:THR:CB	R:1:NAG:CT	1.467
6	G:8:NAG:O	H:9:GAL:C6	1.425
6	O:8:NAG:O	P:9:GAL:C6	1.423
6	A:491:ARG:HH21	J:1:NAG:C	1.419
6	B:491:ARG:HH21	R:1:NAG:C	1.411
6	G:2:NAG:O4	H:10:SIA:C4	1.301
6	O:2:NAG:O4	P:10:SIA:C4	1.297
6	A:405:PRO:HG2	H:4:MAN:O2	1.270
6	B:405:PRO:CG	P:4:MAN:H4	1.267
6	A:405:PRO:CG	H:4:MAN:H4	1.265
6	B:405:PRO:HG2	P:4:MAN:O2	1.265

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:151:SER:HB2	E:14:SIA:O9	1.249
6	B:151:SER:HB2	M:14:SIA:O9	1.248
6	A:148:ARG:HE	E:18:FUC:C1	1.230
6	B:148:ARG:HE	M:18:FUC:C1	1.229
6	B:488:THR:CG2	R:1:NAG:CT	1.174
6	A:488:THR:CG2	J:1:NAG:CT	1.172
6	G:2:NAG:C3	H:10:SIA:C	1.161
6	A:491:ARG:NH2	J:1:NAG:CT	1.160
6	O:2:NAG:C3	P:10:SIA:C	1.160
6	B:240:ILE:HG22	N:1:NAG:CT	1.159
6	B:491:ARG:NH2	R:1:NAG:CT	1.159
6	A:240:ILE:HG22	F:1:NAG:CT	1.158
6	G:2:NAG:H3	H:10:SIA:O	1.158
6	O:2:NAG:H3	P:10:SIA:O	1.158
6	O:2:NAG:C4	P:10:SIA:O4	1.148
6	G:2:NAG:O4	H:10:SIA:O4	1.144
6	O:2:NAG:O4	P:10:SIA:O4	1.144
6	G:2:NAG:C4	H:10:SIA:O4	1.142
6	A:491:ARG:NH2	J:1:NAG:C	1.133
6	B:406:ASN:HD21	P:6:GAL:C6	1.131
6	B:405:PRO:HG3	P:4:MAN:H4	1.130
6	G:8:NAG:O	H:9:GAL:O6	1.128
6	O:8:NAG:O	P:9:GAL:O6	1.128

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	B:491:ARG:NH2	R:1:NAG:C	1.127
6	A:445:GLN:OE1	H:1:NAG:O6	1.126
6	B:445:GLN:OE1	P:1:NAG:O6	1.126
6	A:405:PRO:HG3	H:4:MAN:H4	1.123
6	G:2:NAG:O4	H:10:SIA:H4	1.117
6	O:2:NAG:O4	P:10:SIA:H4	1.115
6	B:406:ASN:ND2	P:6:GAL:O5	1.114
6	A:488:THR:HG22	J:1:NAG:CT	1.109
6	B:488:THR:HG22	R:1:NAG:CT	1.108
6	B:405:PRO:CD	P:5:NAG:N	1.094
6	B:445:GLN:CD	P:1:NAG:O6	1.089
6	A:405:PRO:CD	H:5:NAG:N	1.088
6	A:445:GLN:CD	H:1:NAG:O6	1.088
6	A:405:PRO:HD2	H:5:NAG:N	1.065
6	B:405:PRO:HD2	P:5:NAG:N	1.062
6	A:148:ARG:NE	E:18:FUC:C1	1.061
6	B:148:ARG:NE	M:18:FUC:C1	1.060
6	A:488:THR:HB	J:1:NAG:CT	1.052
6	B:488:THR:HB	R:1:NAG:CT	1.050
6	G:2:NAG:H3	H:10:SIA:C	1.043
6	O:2:NAG:H3	P:10:SIA:C	1.043
6	A:110:HIS:HE1	D:18:FUC:H4	1.028
6	G:8:NAG:C	H:9:GAL:C6	1.023

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	B:110:HIS:HE1	L:18:FUC:H4	1.023
6	O:8:NAG:C	P:9:GAL:C6	1.023
6	A:240:ILE:HG21	F:1:NAG:O	1.015
6	B:240:ILE:HG21	N:1:NAG:O	1.012
6	B:151:SER:CB	M:14:SIA:O9	1.007
6	A:151:SER:CB	E:14:SIA:O9	1.005
6	A:449:GLN:OE1	H:18:FUC:O4	1.003
6	B:449:GLN:OE1	P:18:FUC:O4	1.003
6	B:110:HIS:CE1	L:18:FUC:C4	0.983
6	B:469:TYR:OH	P:2:NAG:H5	0.983
6	A:110:HIS:CE1	D:18:FUC:C4	0.982
6	A:469:TYR:OH	H:2:NAG:H5	0.980
6	A:405:PRO:CG	H:4:MAN:O2	0.975
6	B:405:PRO:CG	P:4:MAN:O2	0.975
6	A:405:PRO:HG3	H:4:MAN:H61	0.970
6	B:405:PRO:HG3	P:4:MAN:H61	0.969
6	A:405:PRO:HG3	H:4:MAN:C4	0.963
6	B:405:PRO:HG3	P:4:MAN:C4	0.963
6	B:405:PRO:CG	P:4:MAN:C4	0.957
6	A:405:PRO:CG	H:4:MAN:C4	0.955
6	A:111:GLN:HB2	D:8:NAG:CT	0.920
6	B:111:GLN:HB2	L:8:NAG:CT	0.920
6	B:406:ASN:HD21	P:6:GAL:C5	0.915



Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	B:491:ARG:CZ	R:1:NAG:CT	0.908
6	A:491:ARG:CZ	J:1:NAG:CT	0.906
6	B:502:PHE:CB	Q:18:FUC:O5	0.904
6	A:502:PHE:CB	I:18:FUC:O5	0.903
6	B:405:PRO:HG2	P:4:MAN:C2	0.896
6	A:405:PRO:HG2	H:4:MAN:C2	0.895
6	B:405:PRO:HG3	P:4:MAN:C6	0.895
6	A:405:PRO:HG3	H:4:MAN:C6	0.893
6	B:406:ASN:ND2	P:6:GAL:C6	0.885
6	A:498:LEU:HD23	I:1:NAG:H62	0.884
6	B:498:LEU:HD23	Q:1:NAG:H62	0.884
6	A:405:PRO:CG	H:4:MAN:H61	0.864
6	A:405:PRO:HB2	H:5:NAG:C2	0.864
6	B:405:PRO:CG	P:4:MAN:H61	0.863
6	B:405:PRO:HB2	P:5:NAG:C2	0.863
6	A:512:GLU:CD	J:15:NAG:O6	0.860
6	B:512:GLU:CD	R:15:NAG:O6	0.858
6	B:405:PRO:HG2	P:4:MAN:H4	0.853
6	A:502:PHE:CG	I:18:FUC:O5	0.851
6	A:405:PRO:HG2	H:4:MAN:H4	0.850
6	B:502:PHE:CG	Q:18:FUC:O5	0.848
6	A:501:ASP:OD2	A:502:PHE:HD2	0.837
6	B:501:ASP:OD2	B:502:PHE:HD2	0.835

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:148:ARG:HB3	E:1:NAG:H62	0.819
6	B:148:ARG:HB3	M:1:NAG:H62	0.817
6	A:498:LEU:CD2	I:1:NAG:H62	0.814
6	B:498:LEU:CD2	Q:1:NAG:H62	0.814
6	B:488:THR:HB	R:1:NAG:N	0.807
6	A:405:PRO:HG2	H:4:MAN:C4	0.806
6	A:488:THR:HB	J:1:NAG:N	0.806
6	B:405:PRO:HG2	P:4:MAN:C4	0.804
6	A:240:ILE:CG2	F:1:NAG:CT	0.802
6	B:240:ILE:CG2	N:1:NAG:CT	0.801
6	A:405:PRO:HG3	H:4:MAN:C5	0.795
6	B:405:PRO:HG3	P:4:MAN:C5	0.794
6	B:110:HIS:ND1	L:18:FUC:H4	0.789
6	A:110:HIS:ND1	D:18:FUC:H4	0.787
6	B:511:PHE:C	R:18:FUC:H63	0.784
6	A:511:PHE:C	J:18:FUC:H63	0.783
6	A:405:PRO:CG	H:4:MAN:C5	0.775
6	B:405:PRO:CG	P:4:MAN:C5	0.775
6	B:511:PHE:CB	R:18:FUC:O4	0.770
6	A:511:PHE:CB	J:18:FUC:O4	0.769
6	A:499:ASN:H	A:499:ASN:HD22	0.765
6	B:499:ASN:HD21	B:502:PHE:HB2	0.764
6	A:499:ASN:HD21	A:502:PHE:HB2	0.763

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	B:488:THR:HB	R:1:NAG:C	0.762
6	B:499:ASN:H	B:499:ASN:HD22	0.762
6	A:488:THR:HB	J:1:NAG:C	0.761
6	B:405:PRO:CD	P:4:MAN:H61	0.761
6	A:405:PRO:CD	H:4:MAN:H61	0.760
6	A:501:ASP:OD2	A:502:PHE:CD2	0.756
6	B:501:ASP:OD2	B:502:PHE:CD2	0.754
6	G:2:NAG:H4	H:10:SIA:O4	0.754
6	O:2:NAG:H4	P:10:SIA:O4	0.754
6	B:406:ASN:OD1	P:6:GAL:H61	0.751
6	B:511:PHE:O	R:18:FUC:H63	0.744
6	A:408:LYS:HB3	H:10:SIA:O7	0.743
6	B:408:LYS:HB3	P:10:SIA:O7	0.743
6	A:511:PHE:O	J:18:FUC:H63	0.743
6	B:512:GLU:CD	R:15:NAG:HO6	0.738
6	A:512:GLU:CD	J:15:NAG:HO6	0.735
6	B:463:ASN:ND2	Q:1:NAG:C1	0.735
6	A:463:ASN:ND2	I:1:NAG:C1	0.734
6	B:406:ASN:HB2	P:5:NAG:O3	0.721
6	A:240:ILE:CG2	F:1:NAG:O	0.705
6	A:405:PRO:HD3	H:4:MAN:H61	0.700
6	B:405:PRO:HD3	P:4:MAN:H61	0.697
6	A:502:PHE:HB3	I:18:FUC:O5	0.695

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:498:LEU:HD23	I:1:NAG:C6	0.693
6	B:498:LEU:HD23	Q:1:NAG:C6	0.693
6	B:502:PHE:HB3	Q:18:FUC:O5	0.693
6	A:498:LEU:HB2	A:502:PHE:O	0.691
6	B:498:LEU:HB2	B:502:PHE:O	0.690
6	B:240:ILE:CG2	N:1:NAG:O	0.689
6	A:405:PRO:HG2	H:4:MAN:O5	0.682
6	B:405:PRO:CG	P:4:MAN:O5	0.681
6	B:405:PRO:HG2	P:4:MAN:O5	0.681
6	A:405:PRO:CG	H:4:MAN:O5	0.680
6	B:499:ASN:N	B:499:ASN:ND2	0.675
6	A:499:ASN:N	A:499:ASN:ND2	0.674
6	A:445:GLN:HG2	H:1:NAG:C2	0.673
6	B:445:GLN:HG2	P:1:NAG:C2	0.673
6	A:499:ASN:H	A:499:ASN:ND2	0.671
6	B:499:ASN:H	B:499:ASN:ND2	0.669
6	B:406:ASN:CG	P:6:GAL:H61	0.664
6	B:406:ASN:ND2	P:6:GAL:H61	0.657
6	A:408:LYS:CB	H:10:SIA:O7	0.644
6	B:408:LYS:CB	P:10:SIA:O7	0.644
6	B:445:GLN:HG3	P:1:NAG:H4	0.635
6	A:445:GLN:HG3	H:1:NAG:H4	0.634
6	B:405:PRO:CG	P:5:NAG:N	0.634

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:511:PHE:CB	J:18:FUC:O5	0.631
6	A:166:ASN:HB3	E:1:NAG:C1	0.630
6	B:166:ASN:HB3	M:1:NAG:C1	0.630
6	B:511:PHE:CB	R:18:FUC:O5	0.630
6	A:405:PRO:CG	H:5:NAG:N	0.628
6	B:199:PRO:HG3	M:18:FUC:O4	0.625
6	B:406:ASN:CB	P:5:NAG:O3	0.625
6	A:199:PRO:HG3	E:18:FUC:O4	0.624
6	B:28:ARG:CG	B:28:ARG:HH11	0.614
6	A:28:ARG:CG	A:28:ARG:HH11	0.612
6	A:341:ASN:HB3	A:342:PRO:HD3	0.610
6	B:341:ASN:HB3	B:342:PRO:HD3	0.610
6	A:110:HIS:HE1	D:18:FUC:C4	0.597
6	B:110:HIS:HE1	L:18:FUC:C4	0.592
6	A:409:ASN:HD22	A:410:ASN:H	0.592
6	A:240:ILE:CG2	F:1:NAG:C	0.591
6	A:447:LEU:HB3	A:448:PRO:HD3	0.591
6	B:409:ASN:HD22	B:410:ASN:H	0.591
6	B:240:ILE:CG2	N:1:NAG:C	0.590
6	A:455:GLU:OE2	J:18:FUC:C6	0.588
6	B:455:GLU:OE2	R:18:FUC:C6	0.588
6	A:148:ARG:HH21	E:18:FUC:C2	0.585
6	B:148:ARG:HH21	M:18:FUC:C2	0.585

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	B:405:PRO:CG	P:4:MAN:C6	0.574
6	G:3:BMA:C1	H:10:SIA:O4	0.574
6	O:3:BMA:C1	P:10:SIA:O4	0.574
6	A:405:PRO:CG	H:4:MAN:C6	0.569
6	A:512:GLU:OE1	J:15:NAG:O6	0.567
6	B:512:GLU:OE1	R:15:NAG:O6	0.566
6	B:111:GLN:CB	L:8:NAG:CT	0.564
6	A:455:GLU:OE2	J:18:FUC:H62	0.562
6	B:455:GLU:OE2	R:18:FUC:H62	0.562
6	A:111:GLN:CB	D:8:NAG:CT	0.561
6	A:391:ASN:HB3	A:393:GLN:HG3	0.560
6	B:391:ASN:HB3	B:393:GLN:HG3	0.560
6	A:413:ASN:ND2	G:1:NAG:C1	0.558
6	G:2:NAG:C4	H:10:SIA:O	0.558
6	B:28:ARG:HG2	B:28:ARG:HH11	0.552
6	A:28:ARG:HG2	A:28:ARG:HH11	0.551
6	B:488:THR:HG22	B:491:ARG:NH2	0.548
6	A:488:THR:HG22	A:491:ARG:NH2	0.547
6	A:109:LEU:H	A:109:LEU:HD12	0.545
6	B:109:LEU:H	B:109:LEU:HD12	0.545
6	B:105:ARG:HG2	B:203:LEU:HB3	0.540
6	B:240:ILE:HG21	N:1:NAG:C	0.540
6	A:359:THR:HG22	A:393:GLN:HG2	0.536

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	B:359:THR:HG22	B:393:GLN:HG2	0.536
6	G:2:NAG:C3	H:10:SIA:O	0.524
6	O:2:NAG:C3	P:10:SIA:O	0.522
6	A:148:ARG:NH2	E:18:FUC:H2	0.521
6	B:148:ARG:NH2	M:18:FUC:H2	0.521
6	B:405:PRO:CB	P:4:MAN:O2	0.517
6	A:405:PRO:CB	H:4:MAN:O2	0.516
6	B:406:ASN:OD1	P:6:GAL:C6	0.515
6	G:2:NAG:C4	H:10:SIA:C	0.514
6	A:148:ARG:HB3	E:1:NAG:C6	0.508
6	B:148:ARG:HB3	M:1:NAG:C6	0.508
6	A:408:LYS:HG2	H:10:SIA:O7	0.507
6	B:408:LYS:HG2	P:10:SIA:O7	0.507
6	O:2:NAG:C4	P:10:SIA:C	0.507
6	A:405:PRO:HG2	H:4:MAN:C1	0.506
6	B:405:PRO:HG2	P:4:MAN:C1	0.505
6	B:406:ASN:CG	P:6:GAL:C6	0.501
6	A:148:ARG:NH2	E:18:FUC:C2	0.499
6	B:148:ARG:NH2	M:18:FUC:C2	0.499
6	A:499:ASN:N	A:499:ASN:HD22	0.499
6	A:445:GLN:CG	H:1:NAG:H4	0.498
6	B:445:GLN:CG	P:1:NAG:H4	0.498
6	B:499:ASN:N	B:499:ASN:HD22	0.497

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	B:445:GLN:HG3	P:18:FUC:C1	0.496
6	A:445:GLN:HG3	H:18:FUC:C1	0.495
6	B:405:PRO:HD3	P:4:MAN:C6	0.486
6	A:405:PRO:HD3	H:4:MAN:C6	0.484
6	A:413:ASN:ND2	G:1:NAG:O	0.481
6	B:28:ARG:CG	B:28:ARG:NH1	0.479
6	B:423:ILE:HB	B:424:PRO:HD3	0.479
6	A:28:ARG:CG	A:28:ARG:NH1	0.478
6	A:423:ILE:HB	A:424:PRO:HD3	0.477
6	A:445:GLN:CG	H:1:NAG:O6	0.476
6	B:445:GLN:CG	P:1:NAG:O6	0.476
6	O:2:NAG:C4	P:10:SIA:O	0.475
6	A:405:PRO:HG2	H:4:MAN:C3	0.468
6	B:405:PRO:HG2	P:4:MAN:C3	0.468
6	A:413:ASN:ND2	G:1:NAG:C	0.462
6	A:528:PRO:HA	A:529:PRO:HD3	0.457
6	B:528:PRO:HA	B:529:PRO:HD3	0.454
6	A:77:ARG:HH21	A:91:PRO:HB2	0.451
6	B:406:ASN:ND2	P:5:NAG:O3	0.448
6	B:405:PRO:CB	P:4:MAN:H4	0.442
6	A:341:ASN:CB	A:342:PRO:HD3	0.441
6	B:341:ASN:CB	B:342:PRO:HD3	0.441
6	B:33:SER:HB3	B:83:ILE:HD12	0.440



Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:33:SER:HB3	A:83:ILE:HD12	0.439
6	A:405:PRO:CB	H:4:MAN:H4	0.439
6	B:381:PRO:HB2	P:6:GAL:H61	0.439
6	B:405:PRO:HG2	P:4:MAN:C5	0.437
6	A:405:PRO:HG2	H:4:MAN:C5	0.435
6	A:485:SER:HA	A:486:PRO:C	0.435
6	B:485:SER:HA	B:486:PRO:C	0.435
6	A:386:LYS:HD2	A:397:ILE:HD11	0.433
6	A:151:SER:CB	E:14:SIA:HO9	0.432
6	A:381:PRO:HB2	H:6:GAL:H61	0.432
6	B:386:LYS:HD2	B:397:ILE:HD11	0.431
6	A:527:ASN:HA	A:528:PRO:C	0.427
6	B:527:ASN:HA	B:528:PRO:C	0.427
6	A:378:LEU:HD12	A:417:LEU:HG	0.421
6	B:378:LEU:HD12	B:417:LEU:HG	0.421
6	A:408:LYS:CG	H:10:SIA:O7	0.418
6	A:511:PHE:CB	J:18:FUC:C5	0.418
6	B:408:LYS:CG	P:10:SIA:O7	0.418
6	B:511:PHE:CB	R:18:FUC:C5	0.418
6	A:502:PHE:HB2	I:18:FUC:O5	0.417
6	B:148:ARG:CB	M:1:NAG:C6	0.416
6	B:502:PHE:HB2	Q:18:FUC:O5	0.416
6	A:148:ARG:CB	E:1:NAG:C6	0.415

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:445:GLN:CG	H:1:NAG:C4	0.413
6	B:231:GLU:HA	B:328:THR:O	0.413
6	B:445:GLN:CG	P:1:NAG:C4	0.413
6	G:3:BMA:O2	H:10:SIA:H32	0.413
6	A:231:GLU:HA	A:328:THR:O	0.412
6	B:423:ILE:O	B:425:PRO:HD3	0.412
6	O:3:BMA:O2	P:10:SIA:H32	0.412
6	A:423:ILE:O	A:425:PRO:HD3	0.411
6	D:9:GAL:H4	D:10:SIA:C1	0.403
6	L:9:GAL:H4	L:10:SIA:C1	0.403
6	B:148:ARG:CZ	M:18:FUC:C1	0.402
6	A:110:HIS:ND1	D:18:FUC:C4	0.402
6	A:262:ARG:HH12	A:264:SER:HA	0.401
6	B:151:SER:CB	M:14:SIA:HO9	0.401
6	A:148:ARG:CZ	E:18:FUC:C1	0.401
6	B:110:HIS:ND1	L:18:FUC:C4	0.401
6	B:262:ARG:HH12	B:264:SER:HA	0.401
7	B:488:THR:HA	Q:1:NAG:CT	1.577
7	A:488:THR:HA	I:1:NAG:CT	1.574
7	A:498:LEU:CD2	H:1:NAG:H62	1.540
7	B:498:LEU:CD2	P:1:NAG:H62	1.537
7	B:502:PHE:C	P:18:FUC:H62	1.527
7	A:502:PHE:C	H:18:FUC:H62	1.525

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:498:LEU:HB2	H:18:FUC:C6	1.486
7	B:498:LEU:HB2	P:18:FUC:C6	1.482
7	B:488:THR:CB	Q:1:NAG:N	1.438
7	A:488:THR:CB	I:1:NAG:N	1.437
7	A:498:LEU:CB	H:18:FUC:H61	1.427
7	B:498:LEU:CB	P:18:FUC:H61	1.426
7	A:488:THR:HB	I:1:NAG:N	1.417
7	B:488:THR:HB	Q:1:NAG:N	1.411
7	A:488:THR:HB	I:1:NAG:C2	1.400
7	B:488:THR:HB	Q:1:NAG:C2	1.398
7	B:502:PHE:O	P:18:FUC:C6	1.310
7	A:502:PHE:O	H:18:FUC:C6	1.309
7	B:498:LEU:HD23	P:1:NAG:C6	1.300
7	A:463:ASN:ND2	H:1:NAG:C1	1.299
7	A:498:LEU:HD23	H:1:NAG:C6	1.298
7	B:463:ASN:ND2	P:1:NAG:C1	1.297
7	B:488:THR:CA	Q:1:NAG:CT	1.285
7	A:488:THR:CA	I:1:NAG:CT	1.284
7	A:502:PHE:C	H:18:FUC:C6	1.252
7	B:502:PHE:C	P:18:FUC:C6	1.252
7	A:166:ASN:ND2	E:18:FUC:C6	1.221
7	A:166:ASN:ND2	E:18:FUC:H62	1.220
7	B:166:ASN:ND2	M:18:FUC:H62	1.220

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	B:166:ASN:ND2	M:18:FUC:C6	1.219
7	A:488:THR:CA	I:1:NAG:N	1.217
7	B:488:THR:CA	Q:1:NAG:N	1.217
7	A:499:ASN:ND2	H:18:FUC:O4	1.217
7	B:499:ASN:ND2	P:18:FUC:O4	1.216
7	A:488:THR:HA	I:1:NAG:C	1.187
7	B:488:THR:HA	Q:1:NAG:C	1.187
7	A:498:LEU:CB	H:18:FUC:C6	1.177
7	B:498:LEU:CB	P:18:FUC:C6	1.171
7	B:441:ASP:OD1	R:13:GAL:H61	1.152
7	A:114:ASN:HD22	D:1:NAG:C1	1.142
7	B:114:ASN:HD22	L:1:NAG:C1	1.141
7	B:498:LEU:CD2	P:1:NAG:C6	1.100
7	A:498:LEU:CD2	H:1:NAG:C6	1.099
7	A:502:PHE:O	H:18:FUC:H63	1.098
7	B:502:PHE:O	P:18:FUC:H63	1.098
7	B:441:ASP:O	R:14:SIA:H92	1.094
7	A:499:ASN:CG	H:18:FUC:O4	1.084
7	B:499:ASN:CG	P:18:FUC:O4	1.084
7	B:441:ASP:OD1	R:13:GAL:C6	1.070
7	A:166:ASN:HD21	E:18:FUC:H62	1.044
7	B:166:ASN:HD21	M:18:FUC:H62	1.043
7	B:35:ARG:HH22	K:17:SIA:C9	1.040

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:35:ARG:HH22	C:17:SIA:C9	1.039
7	A:498:LEU:HD21	H:1:NAG:H62	1.032
7	B:498:LEU:HD21	P:1:NAG:H62	1.031
7	B:166:ASN:HD21	M:18:FUC:C6	1.009
7	A:166:ASN:HD21	E:18:FUC:C6	1.008
7	B:441:ASP:O	R:14:SIA:C9	1.002
7	A:530:LYS:NZ	J:12:NAG:O6	1.002
7	B:530:LYS:NZ	R:12:NAG:O6	1.002
7	B:441:ASP:C	R:14:SIA:C9	0.982
7	A:499:ASN:OD1	H:18:FUC:H2	0.978
7	B:499:ASN:OD1	P:18:FUC:H2	0.978
7	A:498:LEU:HB2	H:18:FUC:H63	0.969
7	B:498:LEU:HB2	P:18:FUC:H63	0.968
7	B:499:ASN:OD1	P:18:FUC:O4	0.968
7	A:499:ASN:OD1	H:18:FUC:O4	0.965
7	B:441:ASP:C	R:14:SIA:H91	0.955
7	B:166:ASN:ND2	M:18:FUC:H61	0.949
7	A:166:ASN:ND2	E:18:FUC:H61	0.948
7	A:114:ASN:ND2	D:1:NAG:C1	0.936
7	B:114:ASN:ND2	L:1:NAG:C1	0.936
7	A:413:ASN:ND2	G:1:NAG:C1	0.934
7	A:463:ASN:HD21	H:1:NAG:C1	0.934
7	B:463:ASN:HD21	P:1:NAG:C1	0.932

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:498:LEU:HB3	H:18:FUC:O5	0.919
7	B:498:LEU:HB3	P:18:FUC:O5	0.918
7	A:498:LEU:CG	H:18:FUC:H61	0.913
7	B:498:LEU:CG	P:18:FUC:H61	0.912
7	B:498:LEU:HD23	P:1:NAG:H62	0.905
7	A:498:LEU:HD23	H:1:NAG:H62	0.902
7	B:488:THR:HA	Q:1:NAG:N	0.851
7	A:488:THR:HA	I:1:NAG:N	0.847
7	A:35:ARG:NH2	C:17:SIA:C9	0.843
7	B:35:ARG:NH2	K:17:SIA:C9	0.841
7	A:498:LEU:HB2	H:18:FUC:H61	0.839
7	A:502:PHE:CD2	H:18:FUC:O3	0.839
7	B:498:LEU:HB2	P:18:FUC:H61	0.839
7	B:502:PHE:CD2	P:18:FUC:O3	0.839
7	A:501:ASP:OD2	A:502:PHE:HD2	0.837
7	B:501:ASP:OD2	B:502:PHE:HD2	0.835
7	B:488:THR:HG21	Q:1:NAG:O3	0.828
7	A:488:THR:HG21	I:1:NAG:O3	0.827
7	A:499:ASN:CG	H:18:FUC:HO4	0.826
7	A:498:LEU:HD23	H:18:FUC:O5	0.823
7	B:499:ASN:CG	P:18:FUC:HO4	0.822
7	B:498:LEU:HD23	P:18:FUC:O5	0.821
7	A:498:LEU:HB3	H:18:FUC:C6	0.819

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:498:LEU:HD23	H:18:FUC:C1	0.819
7	B:498:LEU:HD23	P:18:FUC:C1	0.817
7	B:498:LEU:HB3	P:18:FUC:C6	0.816
7	A:488:THR:CG2	I:1:NAG:O3	0.796
7	B:488:THR:CG2	Q:1:NAG:O3	0.795
7	A:491:ARG:HH21	I:1:NAG:C3	0.793
7	B:491:ARG:HH21	Q:1:NAG:C3	0.793
7	A:35:ARG:NH2	C:17:SIA:O9	0.776
7	B:35:ARG:NH2	K:17:SIA:O9	0.775
7	A:499:ASN:H	A:499:ASN:HD22	0.765
7	B:499:ASN:H	B:499:ASN:HD22	0.762
7	A:501:ASP:OD2	A:502:PHE:CD2	0.756
7	B:501:ASP:OD2	B:502:PHE:CD2	0.754
7	A:499:ASN:ND2	H:18:FUC:H63	0.748
7	B:499:ASN:ND2	P:18:FUC:H63	0.748
7	A:499:ASN:HD21	A:502:PHE:HB2	0.745
7	B:499:ASN:HD21	B:502:PHE:HB2	0.745
7	B:35:ARG:HH22	K:17:SIA:H91	0.718
7	A:35:ARG:HH22	C:17:SIA:H91	0.716
7	B:488:THR:CB	Q:1:NAG:C2	0.709
7	A:488:THR:CB	I:1:NAG:C2	0.707
7	B:491:ARG:HH21	Q:1:NAG:H3	0.694
7	A:491:ARG:HH21	I:1:NAG:H3	0.692

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:498:LEU:HB2	A:502:PHE:O	0.691
7	B:498:LEU:HB2	B:502:PHE:O	0.690
7	A:498:LEU:CD2	H:18:FUC:C5	0.686
7	B:498:LEU:CD2	P:18:FUC:C5	0.686
7	A:166:ASN:HD22	E:18:FUC:H61	0.682
7	B:166:ASN:HD22	M:18:FUC:H61	0.681
7	B:499:ASN:N	B:499:ASN:ND2	0.675
7	A:499:ASN:N	A:499:ASN:ND2	0.674
7	B:499:ASN:HD21	P:18:FUC:C4	0.674
7	A:499:ASN:HD21	H:18:FUC:C4	0.673
7	B:463:ASN:CG	P:1:NAG:C1	0.671
7	A:499:ASN:H	A:499:ASN:ND2	0.671
7	A:463:ASN:CG	H:1:NAG:C1	0.670
7	B:166:ASN:HD22	M:18:FUC:C6	0.669
7	B:499:ASN:H	B:499:ASN:ND2	0.669
7	B:498:LEU:CD2	P:18:FUC:H61	0.668
7	A:498:LEU:CD2	H:18:FUC:H61	0.666
7	A:488:THR:CG2	I:1:NAG:N	0.657
7	B:488:THR:CG2	Q:1:NAG:N	0.657
7	B:441:ASP:CG	R:13:GAL:H5	0.647
7	A:498:LEU:HD21	H:1:NAG:C5	0.640
7	A:498:LEU:HB3	H:18:FUC:C5	0.639
7	B:498:LEU:HB3	P:18:FUC:C5	0.639



Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	B:498:LEU:HD21	P:1:NAG:C5	0.639
7	B:491:ARG:HH21	Q:1:NAG:C2	0.636
7	A:491:ARG:HH21	I:1:NAG:C2	0.635
7	A:498:LEU:HD22	H:18:FUC:C5	0.628
7	B:498:LEU:HD21	P:1:NAG:C6	0.628
7	A:498:LEU:HD21	H:1:NAG:C6	0.627
7	B:498:LEU:HD22	P:18:FUC:C5	0.627
7	A:498:LEU:CD2	H:18:FUC:O5	0.625
7	B:498:LEU:CD2	P:18:FUC:O5	0.624
7	A:498:LEU:HD23	H:1:NAG:O6	0.623
7	B:498:LEU:HD23	P:1:NAG:O6	0.623
7	B:28:ARG:CG	B:28:ARG:HH11	0.614
7	A:28:ARG:CG	A:28:ARG:HH11	0.612
7	A:341:ASN:HB3	A:342:PRO:HD3	0.610
7	B:341:ASN:HB3	B:342:PRO:HD3	0.610
7	A:502:PHE:CA	H:18:FUC:H62	0.603
7	B:502:PHE:CA	P:18:FUC:H62	0.603
7	A:35:ARG:HH22	C:17:SIA:H92	0.595
7	A:488:THR:C	I:1:NAG:N	0.595
7	B:488:THR:C	Q:1:NAG:N	0.595
7	A:409:ASN:HD22	A:410:ASN:H	0.592
7	B:35:ARG:HH22	K:17:SIA:H92	0.592
7	A:447:LEU:HB3	A:448:PRO:HD3	0.591

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	B:409:ASN:HD22	B:410:ASN:H	0.591
7	A:499:ASN:HD21	H:18:FUC:H63	0.587
7	B:499:ASN:HD21	P:18:FUC:H63	0.587
7	A:498:LEU:CB	H:18:FUC:H63	0.586
7	B:498:LEU:CB	P:18:FUC:H63	0.585
7	A:498:LEU:HD22	H:18:FUC:H5	0.581
7	B:498:LEU:HD22	P:18:FUC:H5	0.581
7	A:532:ASN:OD1	J:1:NAG:C1	0.581
7	B:532:ASN:OD1	R:1:NAG:C1	0.580
7	A:166:ASN:HD22	E:18:FUC:C6	0.579
7	B:491:ARG:NH2	Q:1:NAG:C3	0.573
7	A:491:ARG:NH2	I:1:NAG:C3	0.572
7	A:498:LEU:HD22	H:18:FUC:C6	0.571
7	B:498:LEU:HD22	P:18:FUC:C6	0.569
7	B:491:ARG:HB3	Q:1:NAG:CT	0.566
7	B:498:LEU:HD22	P:18:FUC:H61	0.566
7	A:498:LEU:HD22	H:18:FUC:H61	0.565
7	A:491:ARG:HB3	I:1:NAG:CT	0.564
7	A:491:ARG:NH2	I:1:NAG:H3	0.563
7	B:491:ARG:NH2	Q:1:NAG:H3	0.563
7	A:391:ASN:HB3	A:393:GLN:HG3	0.560
7	B:391:ASN:HB3	B:393:GLN:HG3	0.560
7	B:498:LEU:CB	P:18:FUC:C5	0.558

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:498:LEU:CB	H:18:FUC:C5	0.556
7	B:28:ARG:HG2	B:28:ARG:HH11	0.552
7	A:28:ARG:HG2	A:28:ARG:HH11	0.551
7	B:488:THR:HG22	B:491:ARG:NH2	0.548
7	A:488:THR:HG22	A:491:ARG:NH2	0.547
7	B:441:ASP:C	R:14:SIA:H92	0.546
7	A:109:LEU:H	A:109:LEU:HD12	0.545
7	B:109:LEU:H	B:109:LEU:HD12	0.545
7	B:105:ARG:HG2	B:203:LEU:HB3	0.540
7	A:359:THR:HG22	A:393:GLN:HG2	0.536
7	B:359:THR:HG22	B:393:GLN:HG2	0.536
7	A:498:LEU:CD2	H:18:FUC:C6	0.531
7	B:498:LEU:CD2	P:18:FUC:C6	0.530
7	B:498:LEU:CB	P:18:FUC:O5	0.525
7	A:498:LEU:CB	H:18:FUC:O5	0.524
7	A:409:ASN:H	G:1:NAG:CT	0.523
7	B:409:ASN:H	O:1:NAG:CT	0.522
7	A:413:ASN:CG	G:1:NAG:C1	0.515
7	A:163:THR:CG2	E:1:NAG:CT	0.513
7	A:499:ASN:N	A:499:ASN:HD22	0.499
7	B:441:ASP:OD1	R:13:GAL:O6	0.499
7	B:499:ASN:N	B:499:ASN:HD22	0.497
7	A:408:LYS:N	G:1:NAG:CT	0.495

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	B:408:LYS:N	O:1:NAG:CT	0.495
7	A:499:ASN:HD21	H:18:FUC:C6	0.489
7	B:499:ASN:HD21	P:18:FUC:C6	0.488
7	A:488:THR:N	I:1:NAG:CT	0.481
7	A:499:ASN:OD1	H:18:FUC:C4	0.480
7	B:28:ARG:CG	B:28:ARG:NH1	0.479
7	B:423:ILE:HB	B:424:PRO:HD3	0.479
7	A:28:ARG:CG	A:28:ARG:NH1	0.478
7	B:488:THR:N	Q:1:NAG:CT	0.478
7	B:499:ASN:OD1	P:18:FUC:C4	0.478
7	A:423:ILE:HB	A:424:PRO:HD3	0.477
7	A:502:PHE:CD2	H:18:FUC:O4	0.477
7	B:502:PHE:CD2	P:18:FUC:O4	0.474
7	A:163:THR:OG1	E:1:NAG:CT	0.462
7	A:528:PRO:HA	A:529:PRO:HD3	0.457
7	B:441:ASP:O	R:14:SIA:O9	0.456
7	B:469:TYR:HD1	R:14:SIA:H4	0.455
7	B:528:PRO:HA	B:529:PRO:HD3	0.454
7	A:469:TYR:HD1	J:14:SIA:H4	0.454
7	B:498:LEU:CD2	P:18:FUC:H5	0.453
7	A:498:LEU:CD2	H:18:FUC:H5	0.452
7	A:77:ARG:HH21	A:91:PRO:HB2	0.451
7	A:502:PHE:CD2	H:18:FUC:C3	0.451

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	B:502:PHE:CD2	P:18:FUC:C3	0.446
7	A:341:ASN:CB	A:342:PRO:HD3	0.441
7	B:341:ASN:CB	B:342:PRO:HD3	0.441
7	B:33:SER:HB3	B:83:ILE:HD12	0.440
7	A:33:SER:HB3	A:83:ILE:HD12	0.439
7	B:502:PHE:HD2	P:18:FUC:O4	0.439
7	A:502:PHE:HD2	H:18:FUC:O4	0.437
7	A:485:SER:HA	A:486:PRO:C	0.435
7	B:485:SER:HA	B:486:PRO:C	0.435
7	A:386:LYS:HD2	A:397:ILE:HD11	0.433
7	B:386:LYS:HD2	B:397:ILE:HD11	0.431
7	A:499:ASN:ND2	H:18:FUC:C6	0.429
7	B:499:ASN:ND2	P:18:FUC:C6	0.429
7	A:527:ASN:HA	A:528:PRO:C	0.427
7	B:527:ASN:HA	B:528:PRO:C	0.427
7	A:501:ASP:OD2	H:18:FUC:O4	0.427
7	B:501:ASP:OD2	P:18:FUC:O4	0.427
7	B:498:LEU:HD23	P:18:FUC:C5	0.426
7	A:498:LEU:HD23	H:18:FUC:C5	0.422
7	A:378:LEU:HD12	A:417:LEU:HG	0.421
7	B:378:LEU:HD12	B:417:LEU:HG	0.421
7	A:488:THR:O	I:1:NAG:N	0.417
7	B:488:THR:O	Q:1:NAG:N	0.417

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	B:231:GLU:HA	B:328:THR:O	0.413
7	A:231:GLU:HA	A:328:THR:O	0.412
7	B:423:ILE:O	B:425:PRO:HD3	0.412
7	A:423:ILE:O	A:425:PRO:HD3	0.411
7	B:441:ASP:OD1	R:13:GAL:C5	0.408
7	A:499:ASN:HD21	H:18:FUC:C5	0.405
7	B:499:ASN:HD21	P:18:FUC:C5	0.404
7	A:262:ARG:HH12	A:264:SER:HA	0.401
7	B:262:ARG:HH12	B:264:SER:HA	0.401
8	O:7:SIA:CT	P:17:SIA:CT	1.568
8	G:7:SIA:CT	H:17:SIA:CT	1.561
8	B:352:HIS:HB3	R:17:SIA:CT	1.516
8	A:352:HIS:HB3	J:17:SIA:CT	1.512
8	B:408:LYS:CG	O:2:NAG:H62	1.503
8	A:408:LYS:CG	G:2:NAG:H62	1.498
8	A:469:TYR:CD1	J:14:SIA:C9	1.467
8	B:469:TYR:CD1	R:14:SIA:C9	1.465
8	B:408:LYS:HG2	O:2:NAG:C6	1.448
8	A:408:LYS:HG2	G:2:NAG:C6	1.444
8	B:32:LEU:HG	K:18:FUC:C6	1.412
8	A:32:LEU:HG	C:18:FUC:C6	1.411
8	B:352:HIS:CB	R:17:SIA:CT	1.393
8	A:352:HIS:CB	J:17:SIA:CT	1.392

Model ID	Atom-1	Atom-2	Clash overlap (Å)
8	B:445:GLN:CD	R:14:SIA:O	1.370
8	A:445:GLN:CD	J:14:SIA:O	1.367
8	A:32:LEU:CG	C:18:FUC:H62	1.359
8	B:32:LEU:CG	K:18:FUC:H62	1.359
8	A:243:ASN:ND2	F:1:NAG:C1	1.323
8	B:243:ASN:ND2	N:1:NAG:C1	1.320
8	A:32:LEU:CD2	C:18:FUC:H62	1.250
8	B:32:LEU:CD2	K:18:FUC:H62	1.250
8	B:166:ASN:HD22	M:1:NAG:C1	1.243
8	A:166:ASN:HD22	E:1:NAG:C1	1.242
8	B:160:ASN:HB2	M:14:SIA:O7	1.236
8	A:160:ASN:HB2	E:14:SIA:O7	1.234
8	B:469:TYR:OH	R:13:GAL:H4	1.185
8	B:166:ASN:ND2	M:1:NAG:C1	1.184
8	A:166:ASN:ND2	E:1:NAG:C1	1.183
8	A:469:TYR:OH	J:13:GAL:H4	1.180
8	B:469:TYR:CE1	R:14:SIA:H92	1.164
8	A:469:TYR:CE1	J:14:SIA:H92	1.161
8	A:469:TYR:CD1	J:14:SIA:H91	1.160
8	B:469:TYR:CD1	R:14:SIA:H91	1.158
8	A:85:GLY:O	C:17:SIA:CT	1.138
8	B:85:GLY:O	K:17:SIA:CT	1.137
8	B:200:THR:HA	M:17:SIA:O9	1.113

Model ID	Atom-1	Atom-2	Clash overlap (Å)
8	A:200:THR:HA	E:17:SIA:O9	1.111
8	A:469:TYR:CE1	J:14:SIA:C9	1.099
8	B:469:TYR:CE1	R:14:SIA:C9	1.097
8	B:488:THR:OG1	Q:1:NAG:CT	1.087
8	A:488:THR:OG1	I:1:NAG:CT	1.086
8	B:530:LYS:HD3	R:18:FUC:H61	1.077
8	A:530:LYS:HD3	J:18:FUC:H61	1.070
8	A:32:LEU:CD1	C:18:FUC:H5	1.061
8	B:32:LEU:CD1	K:18:FUC:H5	1.060
8	B:32:LEU:HD11	K:18:FUC:C5	1.040
8	A:32:LEU:HD11	C:18:FUC:C5	1.039
8	A:469:TYR:OH	J:13:GAL:C4	1.033
8	A:445:GLN:NE2	J:1:NAG:N	1.032
8	B:469:TYR:OH	R:13:GAL:C4	1.031
8	B:445:GLN:NE2	R:1:NAG:N	1.031
8	B:469:TYR:CZ	R:14:SIA:O11	1.024
8	A:469:TYR:CZ	J:14:SIA:O11	1.023
8	B:32:LEU:HD11	K:18:FUC:H5	1.011
8	A:32:LEU:HD11	C:18:FUC:H5	1.010
8	A:32:LEU:HG	C:18:FUC:H62	1.007
8	B:32:LEU:HG	K:18:FUC:H62	1.002
8	B:455:GLU:OE2	Q:18:FUC:H2	0.998
8	B:159:PRO:HD2	M:14:SIA:H6	0.997



Model ID	Atom-1	Atom-2	Clash overlap (Å)
8	A:409:ASN:O	G:1:NAG:CT	0.996
8	A:455:GLU:OE2	I:18:FUC:H2	0.996
8	B:409:ASN:O	O:1:NAG:CT	0.996
8	A:159:PRO:HD2	E:14:SIA:H6	0.994
8	A:160:ASN:H	E:14:SIA:H7	0.983
8	B:160:ASN:H	M:14:SIA:H7	0.979
8	B:469:TYR:CD1	R:14:SIA:O9	0.970
8	A:469:TYR:CD1	J:14:SIA:O9	0.968
8	A:469:TYR:CG	J:14:SIA:H91	0.962
8	B:469:TYR:CG	R:14:SIA:H91	0.961
8	B:32:LEU:HG	K:18:FUC:H61	0.957
8	A:32:LEU:HG	C:18:FUC:H61	0.953
8	B:32:LEU:CG	K:18:FUC:C6	0.950
8	A:408:LYS:CB	G:2:NAG:H62	0.946
8	B:408:LYS:CB	O:2:NAG:H62	0.945
8	A:32:LEU:CG	C:18:FUC:C6	0.944
8	A:513:ALA:CB	I:8:NAG:N	0.942
8	B:513:ALA:CB	Q:8:NAG:N	0.942
8	A:352:HIS:CG	J:17:SIA:CT	0.940
8	B:352:HIS:CG	R:17:SIA:CT	0.939
8	B:513:ALA:HB3	Q:8:NAG:N	0.936
8	A:513:ALA:HB3	I:8:NAG:N	0.932
8	A:530:LYS:CD	J:18:FUC:H61	0.931

Model ID	Atom-1	Atom-2	Clash overlap (Å)
8	B:530:LYS:CD	R:18:FUC:H61	0.931
8	B:469:TYR:CE2	R:14:SIA:O11	0.923
8	A:469:TYR:CE2	J:14:SIA:O11	0.922
8	B:467:LEU:HD13	R:14:SIA:O12	0.922
8	A:467:LEU:HD13	J:14:SIA:O12	0.921
8	A:512:GLU:N	I:18:FUC:HO2	0.921
8	B:512:GLU:N	Q:18:FUC:HO2	0.921
8	A:352:HIS:CA	J:17:SIA:CT	0.910
8	A:469:TYR:OH	J:13:GAL:C3	0.910
8	B:352:HIS:CA	R:17:SIA:CT	0.909
8	B:469:TYR:OH	R:13:GAL:C3	0.909
8	A:512:GLU:HB3	I:8:NAG:O	0.901
8	B:512:GLU:HB3	Q:8:NAG:O	0.901
8	B:445:GLN:NE2	R:14:SIA:O	0.898
8	A:445:GLN:NE2	J:14:SIA:O	0.897
8	B:243:ASN:HD21	N:1:NAG:C1	0.894
8	B:530:LYS:HD3	R:18:FUC:C6	0.892
8	A:530:LYS:HD3	J:18:FUC:C6	0.891
8	A:243:ASN:HD21	F:1:NAG:C1	0.891
8	A:408:LYS:HG2	G:2:NAG:H61	0.883
8	B:408:LYS:HG2	O:2:NAG:H61	0.883
8	O:7:SIA:C	P:17:SIA:CT	0.875
8	A:461:SER:CA	H:1:NAG:CT	0.874

Model ID	Atom-1	Atom-2	Clash overlap (Å)
8	G:7:SIA:C	H:17:SIA:CT	0.874
8	B:469:TYR:CE1	R:13:GAL:H3	0.843
8	A:469:TYR:CE1	J:13:GAL:H3	0.842
8	A:445:GLN:CG	J:14:SIA:O	0.840
8	A:501:ASP:OD2	A:502:PHE:HD2	0.837
8	B:196:GLU:O	M:18:FUC:O4	0.836
8	B:501:ASP:OD2	B:502:PHE:HD2	0.835
8	A:196:GLU:O	E:18:FUC:O4	0.835
8	B:445:GLN:CG	R:14:SIA:O	0.835
8	B:243:ASN:HD22	N:1:NAG:C1	0.833
8	A:469:TYR:OH	J:14:SIA:C1	0.832
8	B:469:TYR:OH	R:14:SIA:C1	0.831
8	A:243:ASN:HD22	F:1:NAG:C1	0.829
8	B:243:ASN:ND2	N:1:NAG:O5	0.827
8	A:243:ASN:ND2	F:1:NAG:O5	0.826
8	A:469:TYR:CD1	J:14:SIA:H92	0.824
8	B:469:TYR:CD1	R:14:SIA:H92	0.820
8	A:469:TYR:CE1	J:14:SIA:O9	0.812
8	B:469:TYR:CE1	R:14:SIA:O9	0.811
8	A:445:GLN:CD	J:1:NAG:CT	0.803
8	B:445:GLN:CD	R:1:NAG:CT	0.803
8	B:32:LEU:HD21	K:18:FUC:H4	0.800
8	A:32:LEU:HD21	C:18:FUC:H4	0.799

Model ID	Atom-1	Atom-2	Clash overlap (Å)
8	A:32:LEU:HD21	C:18:FUC:H62	0.795
8	B:32:LEU:HD21	K:18:FUC:H62	0.795
8	A:461:SER:C	H:1:NAG:CT	0.789
8	A:512:GLU:HB3	I:8:NAG:C	0.782
8	B:512:GLU:HB3	Q:8:NAG:C	0.782
8	A:160:ASN:HB2	E:14:SIA:C7	0.772
8	B:160:ASN:HB2	M:14:SIA:C7	0.769
8	A:499:ASN:H	A:499:ASN:HD22	0.765
8	B:499:ASN:HD21	B:502:PHE:HB2	0.764
8	A:499:ASN:HD21	A:502:PHE:HB2	0.763
8	B:499:ASN:H	B:499:ASN:HD22	0.762
8	A:160:ASN:N	E:14:SIA:C9	0.760
8	A:160:ASN:N	E:14:SIA:H7	0.759
8	B:160:ASN:N	M:14:SIA:H7	0.758
8	A:501:ASP:OD2	A:502:PHE:CD2	0.756
8	B:160:ASN:N	M:14:SIA:C9	0.756
8	B:501:ASP:OD2	B:502:PHE:CD2	0.754
8	A:352:HIS:ND1	J:17:SIA:CT	0.749
8	B:352:HIS:ND1	R:17:SIA:CT	0.747
8	B:408:LYS:CG	O:2:NAG:C6	0.720
8	A:469:TYR:CZ	J:13:GAL:H3	0.719
8	B:469:TYR:CZ	R:13:GAL:H3	0.718
8	A:408:LYS:CG	G:2:NAG:C6	0.712

Model ID	Atom-1	Atom-2	Clash overlap (Å)
8	B:32:LEU:CD2	K:18:FUC:C6	0.710
8	A:32:LEU:CD2	C:18:FUC:C6	0.705
8	A:408:LYS:HG2	G:2:NAG:H62	0.705
8	B:408:LYS:HG2	O:2:NAG:H62	0.705
8	B:251:GLN:NE2	L:16:GAL:C4	0.697
8	A:251:GLN:NE2	D:16:GAL:C4	0.696
8	A:469:TYR:OH	J:13:GAL:H3	0.695
8	B:469:TYR:OH	R:13:GAL:H3	0.693
8	A:498:LEU:HB2	A:502:PHE:O	0.691
8	B:498:LEU:HB2	B:502:PHE:O	0.690
8	A:353:ALA:HB3	J:17:SIA:C5	0.682
8	B:353:ALA:HB3	R:17:SIA:C5	0.682
8	B:512:GLU:CB	Q:8:NAG:O	0.682
8	B:32:LEU:CD1	K:18:FUC:C5	0.677
8	A:32:LEU:CD1	C:18:FUC:C5	0.676
8	B:499:ASN:N	B:499:ASN:ND2	0.675
8	A:499:ASN:N	A:499:ASN:ND2	0.674
8	A:499:ASN:H	A:499:ASN:ND2	0.671
8	A:512:GLU:CB	I:8:NAG:O	0.670
8	B:499:ASN:H	B:499:ASN:ND2	0.669
8	B:488:THR:CB	Q:1:NAG:CT	0.667
8	A:488:THR:CB	I:1:NAG:CT	0.666
8	B:352:HIS:C	R:17:SIA:CT	0.666

Model ID	Atom-1	Atom-2	Clash overlap (Å)
8	B:513:ALA:HB2	Q:8:NAG:N	0.664
8	B:469:TYR:HH	R:13:GAL:H4	0.664
8	A:513:ALA:HB2	I:8:NAG:N	0.662
8	A:352:HIS:C	J:17:SIA:CT	0.660
8	A:469:TYR:HH	J:13:GAL:H4	0.658
8	B:184:GLN:HA	L:17:SIA:CT	0.655
8	A:184:GLN:HA	D:17:SIA:CT	0.654
8	A:469:TYR:CZ	J:14:SIA:C1	0.645
8	B:251:GLN:NE2	L:16:GAL:H4	0.642
8	A:251:GLN:NE2	D:16:GAL:H4	0.641
8	B:469:TYR:CZ	R:14:SIA:H92	0.638
8	A:469:TYR:CZ	J:14:SIA:H92	0.636
8	A:160:ASN:HB2	E:14:SIA:HO7	0.627
8	B:160:ASN:HB2	M:14:SIA:HO7	0.626
8	B:200:THR:HA	M:17:SIA:HO9	0.623
8	A:200:THR:HA	E:17:SIA:HO9	0.620
8	B:28:ARG:CG	B:28:ARG:HH11	0.614
8	A:28:ARG:CG	A:28:ARG:HH11	0.612
8	A:341:ASN:HB3	A:342:PRO:HD3	0.610
8	B:341:ASN:HB3	B:342:PRO:HD3	0.610
8	A:461:SER:HA	H:1:NAG:CT	0.598
8	A:160:ASN:CB	E:14:SIA:C7	0.595
8	B:160:ASN:CB	M:14:SIA:C7	0.595

Model ID	Atom-1	Atom-2	Clash overlap (Å)
8	A:445:GLN:OE1	J:1:NAG:CT	0.594
8	B:469:TYR:CG	R:14:SIA:C9	0.594
8	B:445:GLN:OE1	R:1:NAG:CT	0.593
8	A:409:ASN:HD22	A:410:ASN:H	0.592
8	A:447:LEU:HB3	A:448:PRO:HD3	0.591
8	A:469:TYR:CG	J:14:SIA:C9	0.591
8	B:85:GLY:C	K:17:SIA:CT	0.591
8	B:409:ASN:HD22	B:410:ASN:H	0.591
8	B:469:TYR:HD1	R:14:SIA:O9	0.589
8	B:469:TYR:CZ	R:14:SIA:C1	0.588
8	A:408:LYS:HB3	G:2:NAG:H62	0.586
8	B:408:LYS:HB3	O:2:NAG:H62	0.585
8	A:469:TYR:HD1	J:14:SIA:HO9	0.585
8	B:32:LEU:HD21	K:18:FUC:C4	0.583
8	A:32:LEU:HD21	C:18:FUC:C4	0.582
8	A:530:LYS:CD	J:18:FUC:C6	0.582
8	B:530:LYS:CD	R:18:FUC:C6	0.582
8	A:184:GLN:CB	D:17:SIA:CT	0.576
8	B:184:GLN:CB	L:17:SIA:CT	0.576
8	B:32:LEU:CG	K:18:FUC:C5	0.561
8	A:32:LEU:CG	C:18:FUC:C5	0.560
8	A:391:ASN:HB3	A:393:GLN:HG3	0.560
8	B:391:ASN:HB3	B:393:GLN:HG3	0.560

Model ID	Atom-1	Atom-2	Clash overlap (Å)
8	B:469:TYR:HE1	R:14:SIA:HO9	0.560
8	B:251:GLN:NE2	L:16:GAL:C3	0.558
8	B:469:TYR:HD1	R:14:SIA:HO9	0.558
8	A:251:GLN:NE2	D:16:GAL:C3	0.553
8	B:28:ARG:HG2	B:28:ARG:HH11	0.552
8	A:28:ARG:HG2	A:28:ARG:HH11	0.551
8	B:488:THR:HG22	B:491:ARG:NH2	0.548
8	A:488:THR:HG22	A:491:ARG:NH2	0.547
8	B:32:LEU:HD21	K:18:FUC:C6	0.547
8	A:109:LEU:H	A:109:LEU:HD12	0.545
8	B:109:LEU:H	B:109:LEU:HD12	0.545
8	A:32:LEU:HD21	C:18:FUC:C6	0.544
8	A:160:ASN:N	E:14:SIA:C8	0.541
8	B:105:ARG:HG2	B:203:LEU:HB3	0.540
8	B:160:ASN:N	M:14:SIA:C8	0.540
8	A:469:TYR:HE1	J:14:SIA:HO9	0.538
8	A:359:THR:HG22	A:393:GLN:HG2	0.536
8	B:359:THR:HG22	B:393:GLN:HG2	0.536
8	A:85:GLY:C	C:17:SIA:CT	0.530
8	B:353:ALA:O	R:17:SIA:C	0.528
8	A:353:ALA:O	J:17:SIA:C	0.524
8	A:469:TYR:HE1	J:13:GAL:H3	0.521
8	B:469:TYR:HE1	R:13:GAL:H3	0.520



Model ID	Atom-1	Atom-2	Clash overlap (Å)
8	A:160:ASN:N	E:14:SIA:C7	0.513
8	B:160:ASN:N	M:14:SIA:C7	0.512
8	A:467:LEU:HB2	J:14:SIA:H4	0.509
8	B:467:LEU:HB2	R:14:SIA:H4	0.508
8	B:32:LEU:CD1	K:18:FUC:C6	0.507
8	A:32:LEU:CD1	C:18:FUC:C6	0.506
8	B:530:LYS:CG	R:18:FUC:H61	0.503
8	A:530:LYS:CG	J:18:FUC:H61	0.501
8	A:499:ASN:N	A:499:ASN:HD22	0.499
8	B:499:ASN:N	B:499:ASN:HD22	0.497
8	A:408:LYS:CB	G:1:NAG:O3	0.493
8	B:408:LYS:CB	O:1:NAG:O3	0.492
8	A:445:GLN:OE1	J:14:SIA:O	0.489
8	B:445:GLN:OE1	R:14:SIA:O	0.489
8	A:469:TYR:HD1	J:14:SIA:O9	0.484
8	B:512:GLU:N	Q:18:FUC:O2	0.483
8	A:166:ASN:ND2	E:1:NAG:O5	0.480
8	B:28:ARG:CG	B:28:ARG:NH1	0.479
8	B:423:ILE:HB	B:424:PRO:HD3	0.479
8	A:28:ARG:CG	A:28:ARG:NH1	0.478
8	A:184:GLN:HB2	D:17:SIA:CT	0.477
8	A:423:ILE:HB	A:424:PRO:HD3	0.477
8	B:184:GLN:HB2	L:17:SIA:CT	0.476

Model ID	Atom-1	Atom-2	Clash overlap (Å)
8	A:445:GLN:NE2	J:1:NAG:CT	0.475
8	B:445:GLN:NE2	R:1:NAG:C	0.475
8	A:512:GLU:OE1	I:4:MAN:H5	0.474
8	B:512:GLU:OE1	Q:4:MAN:H5	0.474
8	B:166:ASN:ND2	M:1:NAG:O5	0.474
8	B:445:GLN:NE2	R:1:NAG:CT	0.473
8	A:445:GLN:NE2	J:1:NAG:C	0.473
8	A:114:ASN:HD22	D:1:NAG:C1	0.468
8	B:114:ASN:HD22	L:1:NAG:C1	0.468
8	A:251:GLN:HG3	D:17:SIA:H32	0.466
8	B:251:GLN:HG3	L:17:SIA:H32	0.466
8	B:84:ASN:O	K:17:SIA:H7	0.459
8	A:84:ASN:O	C:17:SIA:H7	0.458
8	A:528:PRO:HA	A:529:PRO:HD3	0.457
8	B:528:PRO:HA	B:529:PRO:HD3	0.454
8	A:77:ARG:HH21	A:91:PRO:HB2	0.451
8	A:159:PRO:HD2	E:14:SIA:C6	0.450
8	B:159:PRO:HD2	M:14:SIA:C6	0.450
8	A:84:ASN:O	C:17:SIA:C7	0.444
8	B:84:ASN:O	K:17:SIA:C7	0.443
8	A:341:ASN:CB	A:342:PRO:HD3	0.441
8	A:408:LYS:HB3	G:1:NAG:O3	0.441
8	B:341:ASN:CB	B:342:PRO:HD3	0.441

Model ID	Atom-1	Atom-2	Clash overlap (Å)
8	B:33:SER:HB3	B:83:ILE:HD12	0.440
8	A:33:SER:HB3	A:83:ILE:HD12	0.439
8	B:408:LYS:HB3	O:1:NAG:O3	0.439
8	A:485:SER:HA	A:486:PRO:C	0.435
8	B:485:SER:HA	B:486:PRO:C	0.435
8	B:184:GLN:CA	L:17:SIA:CT	0.434
8	A:386:LYS:HD2	A:397:ILE:HD11	0.433
8	B:85:GLY:CA	K:17:SIA:CT	0.431
8	B:386:LYS:HD2	B:397:ILE:HD11	0.431
8	A:85:GLY:CA	C:17:SIA:CT	0.430
8	A:527:ASN:HA	A:528:PRO:C	0.427
8	B:527:ASN:HA	B:528:PRO:C	0.427
8	A:488:THR:HB	I:1:NAG:CT	0.426
8	B:488:THR:HB	Q:1:NAG:CT	0.425
8	A:184:GLN:CA	D:17:SIA:CT	0.424
8	A:469:TYR:HH	J:14:SIA:C1	0.422
8	A:378:LEU:HD12	A:417:LEU:HG	0.421
8	B:378:LEU:HD12	B:417:LEU:HG	0.421
8	B:231:GLU:HA	B:328:THR:O	0.413
8	A:231:GLU:HA	A:328:THR:O	0.412
8	B:423:ILE:O	B:425:PRO:HD3	0.412
8	A:461:SER:O	H:1:NAG:CT	0.412
8	A:423:ILE:O	A:425:PRO:HD3	0.411

Model ID	Atom-1	Atom-2	Clash overlap (Å)
8	A:512:GLU:N	I:18:FUC:O2	0.402
8	A:262:ARG:HH12	A:264:SER:HA	0.401
8	B:262:ARG:HH12	B:264:SER:HA	0.401
9	B:253:HIS:O	L:13:GAL:H5	1.200
9	A:253:HIS:O	D:13:GAL:H5	1.199
9	B:530:LYS:CE	R:18:FUC:H61	1.172
9	A:530:LYS:CE	J:18:FUC:H61	1.169
9	A:404:SER:OG	J:13:GAL:C6	1.139
9	A:253:HIS:O	D:13:GAL:C5	1.109
9	B:253:HIS:O	L:13:GAL:C5	1.109
9	B:530:LYS:HE2	R:18:FUC:H61	1.036
9	A:530:LYS:HE2	J:18:FUC:H61	1.033
9	A:404:SER:OG	J:13:GAL:H62	1.026
9	A:243:ASN:HD22	F:1:NAG:C1	1.023
9	B:243:ASN:HD22	N:1:NAG:C1	1.021
9	A:116:SER:H	D:18:FUC:H61	0.996
9	B:116:SER:H	L:18:FUC:H61	0.992
9	A:125:THR:HG23	D:17:SIA:N	0.982
9	A:530:LYS:HE2	J:18:FUC:C6	0.968
9	B:530:LYS:HE2	R:18:FUC:C6	0.966
9	B:445:GLN:CD	R:1:NAG:CT	0.951
9	A:255:PRO:HD3	D:13:GAL:O5	0.950
9	A:445:GLN:CD	J:1:NAG:CT	0.950

Model ID	Atom-1	Atom-2	Clash overlap (Å)
9	B:255:PRO:HD3	L:13:GAL:O5	0.949
9	A:404:SER:OG	J:13:GAL:H61	0.948
9	B:445:GLN:OE1	R:1:NAG:CT	0.933
9	A:445:GLN:OE1	J:1:NAG:CT	0.932
9	A:488:THR:HA	I:1:NAG:CT	0.927
9	B:488:THR:HA	Q:1:NAG:CT	0.927
9	B:445:GLN:NE2	R:1:NAG:CT	0.898
9	A:445:GLN:NE2	J:1:NAG:CT	0.897
9	A:501:ASP:OD2	A:502:PHE:HD2	0.837
9	B:501:ASP:OD2	B:502:PHE:HD2	0.835
9	A:243:ASN:ND2	F:1:NAG:C1	0.830
9	B:243:ASN:ND2	N:1:NAG:C1	0.830
9	A:253:HIS:C	D:13:GAL:H5	0.804
9	B:253:HIS:C	L:13:GAL:H5	0.801
9	A:116:SER:N	D:18:FUC:H61	0.797
9	B:116:SER:N	L:18:FUC:H61	0.797
9	A:125:THR:CG2	D:17:SIA:N	0.787
9	A:499:ASN:H	A:499:ASN:HD22	0.765
9	B:499:ASN:HD21	B:502:PHE:HB2	0.764
9	A:499:ASN:HD21	A:502:PHE:HB2	0.763
9	B:499:ASN:H	B:499:ASN:HD22	0.762
9	A:501:ASP:OD2	A:502:PHE:CD2	0.756
9	B:501:ASP:OD2	B:502:PHE:CD2	0.754

Model ID	Atom-1	Atom-2	Clash overlap (Å)
9	A:488:THR:HB	I:1:NAG:O	0.712
9	B:488:THR:HB	Q:1:NAG:O	0.711
9	B:445:GLN:HE22	R:1:NAG:CT	0.696
9	A:445:GLN:NE2	J:1:NAG:N	0.696
9	B:445:GLN:NE2	R:1:NAG:N	0.696
9	A:445:GLN:HE22	J:1:NAG:CT	0.694
9	A:498:LEU:HB2	A:502:PHE:O	0.691
9	B:498:LEU:HB2	B:502:PHE:O	0.690
9	B:399:VAL:HG11	R:15:NAG:O6	0.676
9	A:399:VAL:HG11	J:15:NAG:O6	0.675
9	B:499:ASN:N	B:499:ASN:ND2	0.675
9	A:499:ASN:N	A:499:ASN:ND2	0.674
9	A:499:ASN:H	A:499:ASN:ND2	0.671
9	B:499:ASN:H	B:499:ASN:ND2	0.669
9	A:214:THR:HG21	D:2:NAG:CT	0.658
9	B:214:THR:HG21	L:2:NAG:CT	0.658
9	B:445:GLN:HE22	R:1:NAG:C	0.650
9	A:445:GLN:HE22	J:1:NAG:C	0.648
9	A:404:SER:HG	J:13:GAL:H62	0.644
9	A:461:SER:O	H:1:NAG:CT	0.623
9	B:28:ARG:CG	B:28:ARG:HH11	0.614
9	A:28:ARG:CG	A:28:ARG:HH11	0.612
9	A:341:ASN:HB3	A:342:PRO:HD3	0.610

Model ID	Atom-1	Atom-2	Clash overlap (Å)
9	B:341:ASN:HB3	B:342:PRO:HD3	0.610
9	A:488:THR:CA	I:1:NAG:CT	0.600
9	B:488:THR:CA	Q:1:NAG:CT	0.600
9	A:409:ASN:HD22	A:410:ASN:H	0.592
9	A:447:LEU:HB3	A:448:PRO:HD3	0.591
9	B:409:ASN:HD22	B:410:ASN:H	0.591
9	A:125:THR:HG23	D:17:SIA:H7	0.572
9	A:404:SER:CB	J:13:GAL:H61	0.571
9	B:530:LYS:NZ	R:18:FUC:H61	0.561
9	A:391:ASN:HB3	A:393:GLN:HG3	0.560
9	B:391:ASN:HB3	B:393:GLN:HG3	0.560
9	A:530:LYS:NZ	J:18:FUC:H61	0.560
9	B:28:ARG:HG2	B:28:ARG:HH11	0.552
9	A:28:ARG:HG2	A:28:ARG:HH11	0.551
9	B:488:THR:HG22	Q:1:NAG:CT	0.549
9	A:488:THR:HG22	I:1:NAG:CT	0.548
9	B:488:THR:HG22	B:491:ARG:NH2	0.548
9	A:488:THR:HG22	A:491:ARG:NH2	0.547
9	A:109:LEU:H	A:109:LEU:HD12	0.545
9	B:109:LEU:H	B:109:LEU:HD12	0.545
9	B:105:ARG:HG2	B:203:LEU:HB3	0.540
9	A:359:THR:HG22	A:393:GLN:HG2	0.536
9	B:359:THR:HG22	B:393:GLN:HG2	0.536

Model ID	Atom-1	Atom-2	Clash overlap (Å)
9	A:404:SER:CA	J:13:GAL:H61	0.531
9	A:122:LYS:HE3	D:17:SIA:O4	0.519
9	A:166:ASN:HB3	E:1:NAG:C1	0.519
9	B:166:ASN:HB3	M:1:NAG:C1	0.519
9	B:122:LYS:HE3	L:17:SIA:O4	0.517
9	A:214:THR:CG2	D:2:NAG:CT	0.516
9	B:214:THR:CG2	L:2:NAG:CT	0.515
9	A:499:ASN:N	A:499:ASN:HD22	0.499
9	B:499:ASN:N	B:499:ASN:HD22	0.497
9	A:352:HIS:HB3	J:17:SIA:O	0.491
9	B:352:HIS:HB3	R:17:SIA:O	0.491
9	A:253:HIS:HB3	D:14:SIA:O12	0.488
9	B:253:HIS:HB3	L:14:SIA:O12	0.487
9	B:488:THR:HB	Q:1:NAG:C	0.486
9	A:488:THR:HB	I:1:NAG:C	0.484
9	B:253:HIS:O	L:13:GAL:C4	0.480
9	B:28:ARG:CG	B:28:ARG:NH1	0.479
9	B:423:ILE:HB	B:424:PRO:HD3	0.479
9	A:253:HIS:O	D:13:GAL:C4	0.479
9	A:28:ARG:CG	A:28:ARG:NH1	0.478
9	A:423:ILE:HB	A:424:PRO:HD3	0.477
9	A:404:SER:HA	J:13:GAL:H61	0.470
9	A:532:ASN:CG	J:1:NAG:C1	0.469



Model ID	Atom-1	Atom-2	Clash overlap (Å)
9	B:532:ASN:CG	R:1:NAG:C1	0.468
9	A:532:ASN:HD21	J:1:NAG:C	0.462
9	A:243:ASN:ND2	F:1:NAG:O5	0.462
9	B:532:ASN:HD21	R:1:NAG:C	0.461
9	B:243:ASN:ND2	N:1:NAG:O5	0.458
9	A:528:PRO:HA	A:529:PRO:HD3	0.457
9	B:528:PRO:HA	B:529:PRO:HD3	0.454
9	A:77:ARG:HH21	A:91:PRO:HB2	0.451
9	B:445:GLN:NE2	R:1:NAG:C	0.444
9	A:445:GLN:NE2	J:1:NAG:C	0.442
9	A:341:ASN:CB	A:342:PRO:HD3	0.441
9	B:341:ASN:CB	B:342:PRO:HD3	0.441
9	B:33:SER:HB3	B:83:ILE:HD12	0.440
9	A:33:SER:HB3	A:83:ILE:HD12	0.439
9	A:485:SER:HA	A:486:PRO:C	0.435
9	B:485:SER:HA	B:486:PRO:C	0.435
9	A:386:LYS:HD2	A:397:ILE:HD11	0.433
9	B:386:LYS:HD2	B:397:ILE:HD11	0.431
9	A:527:ASN:HA	A:528:PRO:C	0.427
9	B:527:ASN:HA	B:528:PRO:C	0.427
9	A:378:LEU:HD12	A:417:LEU:HG	0.421
9	B:378:LEU:HD12	B:417:LEU:HG	0.421
9	A:405:PRO:HG2	J:13:GAL:H4	0.417

Model ID	Atom-1	Atom-2	Clash overlap (Å)
9	B:405:PRO:HG2	R:13:GAL:H4	0.416
9	B:231:GLU:HA	B:328:THR:O	0.413
9	A:231:GLU:HA	A:328:THR:O	0.412
9	B:423:ILE:O	B:425:PRO:HD3	0.412
9	A:423:ILE:O	A:425:PRO:HD3	0.411
9	B:406:ASN:N	R:13:GAL:O6	0.406
9	A:262:ARG:HH12	A:264:SER:HA	0.401
9	B:262:ARG:HH12	B:264:SER:HA	0.401
9	C:9:GAL:H3	C:10:SIA:O12	0.400
9	K:9:GAL:H3	K:10:SIA:O12	0.400
10	A:510:LYS:CB	I:2:NAG:H61	1.549
10	B:510:LYS:CB	Q:2:NAG:H61	1.549
10	B:510:LYS:CA	Q:2:NAG:H62	1.512
10	A:510:LYS:CA	I:2:NAG:H62	1.508
10	A:510:LYS:CB	I:2:NAG:C6	1.475
10	B:510:LYS:CB	Q:2:NAG:C6	1.471
10	B:510:LYS:C	Q:2:NAG:H62	1.470
10	A:510:LYS:C	I:2:NAG:H62	1.465
10	B:148:ARG:HB3	M:1:NAG:C5	1.435
10	A:148:ARG:HB3	E:1:NAG:C5	1.433
10	A:148:ARG:CB	E:1:NAG:H5	1.392
10	B:148:ARG:CB	M:1:NAG:H5	1.392
10	A:510:LYS:HB2	I:2:NAG:C6	1.381

Model ID	Atom-1	Atom-2	Clash overlap (Å)
10	B:510:LYS:HB2	Q:2:NAG:C6	1.377
10	A:511:PHE:N	I:2:NAG:C6	1.373
10	B:511:PHE:N	Q:2:NAG:C6	1.369
10	B:511:PHE:N	Q:2:NAG:H62	1.335
10	A:511:PHE:N	I:2:NAG:H62	1.329
10	B:510:LYS:HB2	Q:2:NAG:C5	1.320
10	A:510:LYS:HB2	I:2:NAG:C5	1.317
10	A:510:LYS:C	I:2:NAG:C6	1.300
10	B:510:LYS:C	Q:2:NAG:C6	1.294
10	A:463:ASN:HD22	H:1:NAG:C1	1.189
10	B:463:ASN:HD22	P:1:NAG:C1	1.188
10	A:510:LYS:HB2	I:2:NAG:H5	1.187
10	B:510:LYS:HB2	Q:2:NAG:H5	1.183
10	B:511:PHE:N	Q:2:NAG:O6	1.165
10	A:511:PHE:N	I:2:NAG:O6	1.160
10	B:159:PRO:CG	M:14:SIA:H7	1.138
10	A:159:PRO:CG	E:14:SIA:H7	1.131
10	B:508:LYS:HB3	Q:18:FUC:H4	1.129
10	A:508:LYS:HB3	I:18:FUC:H4	1.124
10	B:510:LYS:HB3	Q:2:NAG:H61	1.124
10	A:510:LYS:HB3	I:2:NAG:H61	1.123
10	B:510:LYS:CA	Q:2:NAG:C6	1.111
10	A:510:LYS:CA	I:2:NAG:C6	1.109

Model ID	Atom-1	Atom-2	Clash overlap (Å)
10	A:159:PRO:HG2	E:14:SIA:H7	1.092
10	B:159:PRO:HG2	M:14:SIA:H7	1.088
10	A:405:PRO:HB3	J:14:SIA:CT	1.069
10	B:252:PRO:HB2	N:14:SIA:N	1.069
10	A:252:PRO:HB2	F:14:SIA:N	1.067
10	B:405:PRO:HB3	R:14:SIA:CT	1.066
10	A:148:ARG:CD	E:18:FUC:C1	1.026
10	B:148:ARG:CD	M:18:FUC:C1	1.024
10	A:148:ARG:HD3	E:18:FUC:C1	1.005
10	B:148:ARG:HD3	M:18:FUC:C1	1.003
10	A:148:ARG:HB2	E:1:NAG:H5	0.961
10	B:148:ARG:HB2	M:1:NAG:H5	0.959
10	A:511:PHE:H	I:2:NAG:C6	0.939
10	B:148:ARG:HB3	M:1:NAG:H5	0.938
10	B:511:PHE:H	Q:2:NAG:C6	0.935
10	A:148:ARG:HB3	E:1:NAG:H5	0.934
10	A:463:ASN:ND2	H:1:NAG:C1	0.921
10	A:511:PHE:CA	I:2:NAG:O6	0.920
10	B:511:PHE:CA	Q:2:NAG:O6	0.919
10	B:463:ASN:ND2	P:1:NAG:C1	0.919
10	A:148:ARG:CB	E:1:NAG:C5	0.913
10	A:535:ILE:N	J:1:NAG:O	0.911
10	B:535:ILE:N	R:1:NAG:O	0.910

Model ID	Atom-1	Atom-2	Clash overlap (Å)
10	B:148:ARG:CB	M:1:NAG:C5	0.908
10	B:460:ASN:O	P:1:NAG:O	0.899
10	A:460:ASN:O	H:1:NAG:O	0.898
10	A:200:THR:O	E:17:SIA:O9	0.895
10	B:200:THR:O	M:17:SIA:O9	0.895
10	A:405:PRO:CB	J:14:SIA:CT	0.878
10	B:405:PRO:CB	R:14:SIA:CT	0.877
10	A:501:ASP:OD2	A:502:PHE:HD2	0.837
10	B:501:ASP:OD2	B:502:PHE:HD2	0.835
10	A:159:PRO:CG	E:14:SIA:C7	0.808
10	B:159:PRO:CG	M:14:SIA:C7	0.807
10	B:148:ARG:NE	M:1:NAG:O4	0.801
10	B:510:LYS:CB	Q:2:NAG:H5	0.799
10	A:148:ARG:NE	E:1:NAG:O4	0.799
10	A:510:LYS:CB	I:2:NAG:H5	0.797
10	B:405:PRO:HG2	R:14:SIA:H7	0.793
10	A:405:PRO:HG2	J:14:SIA:H7	0.792
10	A:508:LYS:CB	I:18:FUC:H4	0.791
10	B:508:LYS:CB	Q:18:FUC:H4	0.790
10	A:510:LYS:N	I:2:NAG:H62	0.787
10	B:510:LYS:N	Q:2:NAG:H62	0.785
10	A:499:ASN:H	A:499:ASN:HD22	0.765
10	B:499:ASN:HD21	B:502:PHE:HB2	0.764

Model ID	Atom-1	Atom-2	Clash overlap (Å)
10	A:499:ASN:HD21	A:502:PHE:HB2	0.763
10	B:499:ASN:H	B:499:ASN:HD22	0.762
10	A:199:PRO:CA	E:18:FUC:O3	0.761
10	B:199:PRO:CA	M:18:FUC:O3	0.761
10	B:252:PRO:O	N:14:SIA:CT	0.760
10	A:252:PRO:O	F:14:SIA:CT	0.759
10	A:501:ASP:OD2	A:502:PHE:CD2	0.756
10	B:501:ASP:OD2	B:502:PHE:CD2	0.754
10	B:159:PRO:HG3	M:14:SIA:H7	0.749
10	A:159:PRO:HG3	E:14:SIA:H7	0.747
10	A:508:LYS:HB3	I:18:FUC:C4	0.731
10	B:508:LYS:HB3	Q:18:FUC:C4	0.728
10	A:199:PRO:N	E:18:FUC:O3	0.724
10	B:199:PRO:N	M:18:FUC:O3	0.724
10	B:148:ARG:HE	M:2:NAG:C1	0.722
10	A:148:ARG:HE	E:2:NAG:C1	0.720
10	B:150:LEU:HD21	M:2:NAG:CT	0.706
10	A:150:LEU:HD21	E:2:NAG:CT	0.705
10	A:498:LEU:HB2	A:502:PHE:O	0.691
10	B:498:LEU:HB2	B:502:PHE:O	0.690
10	B:499:ASN:N	B:499:ASN:ND2	0.675
10	A:499:ASN:N	A:499:ASN:ND2	0.674
10	A:499:ASN:H	A:499:ASN:ND2	0.671

Model ID	Atom-1	Atom-2	Clash overlap (Å)
10	B:499:ASN:H	B:499:ASN:ND2	0.669
10	A:148:ARG:CZ	E:18:FUC:C1	0.645
10	A:252:PRO:HB2	F:14:SIA:C	0.645
10	B:252:PRO:HB2	N:14:SIA:C	0.644
10	B:148:ARG:CZ	M:18:FUC:C1	0.643
10	A:511:PHE:HA	I:2:NAG:O6	0.632
10	B:511:PHE:HA	Q:2:NAG:O6	0.632
10	A:199:PRO:HA	E:18:FUC:O3	0.630
10	B:199:PRO:HA	M:18:FUC:O3	0.628
10	A:535:ILE:N	J:1:NAG:CT	0.625
10	B:535:ILE:N	R:1:NAG:CT	0.624
10	A:251:GLN:HG2	F:14:SIA:CT	0.622
10	B:251:GLN:HG2	N:14:SIA:CT	0.620
10	B:28:ARG:CG	B:28:ARG:HH11	0.614
10	A:28:ARG:CG	A:28:ARG:HH11	0.612
10	A:199:PRO:CA	E:18:FUC:HO3	0.612
10	A:341:ASN:HB3	A:342:PRO:HD3	0.610
10	B:341:ASN:HB3	B:342:PRO:HD3	0.610
10	B:199:PRO:CA	M:18:FUC:HO3	0.604
10	A:409:ASN:HD22	A:410:ASN:H	0.592
10	A:447:LEU:HB3	A:448:PRO:HD3	0.591
10	B:409:ASN:HD22	B:410:ASN:H	0.591
10	A:252:PRO:HB2	F:14:SIA:CT	0.570

Model ID	Atom-1	Atom-2	Clash overlap (Å)
10	B:252:PRO:HB2	N:14:SIA:CT	0.570
10	A:405:PRO:HD2	J:14:SIA:O8	0.567
10	B:405:PRO:HD2	R:14:SIA:O8	0.566
10	A:491:ARG:O	I:18:FUC:C6	0.561
10	B:491:ARG:O	Q:18:FUC:C6	0.561
10	A:391:ASN:HB3	A:393:GLN:HG3	0.560
10	B:391:ASN:HB3	B:393:GLN:HG3	0.560
10	A:511:PHE:H	I:2:NAG:H62	0.560
10	A:148:ARG:HB3	E:1:NAG:O5	0.559
10	B:511:PHE:H	Q:2:NAG:H62	0.559
10	A:30:LYS:HB3	C:1:NAG:CT	0.558
10	B:30:LYS:HB3	K:1:NAG:CT	0.558
10	A:532:ASN:HD22	J:1:NAG:C1	0.555
10	B:148:ARG:HB3	M:1:NAG:O5	0.554
10	B:532:ASN:HD22	R:1:NAG:C1	0.554
10	B:28:ARG:HG2	B:28:ARG:HH11	0.552
10	A:28:ARG:HG2	A:28:ARG:HH11	0.551
10	A:405:PRO:HB2	J:14:SIA:CT	0.550
10	B:405:PRO:HB2	R:14:SIA:CT	0.550
10	B:488:THR:HG22	B:491:ARG:NH2	0.548
10	A:488:THR:HG22	A:491:ARG:NH2	0.547
10	A:109:LEU:H	A:109:LEU:HD12	0.545
10	B:109:LEU:H	B:109:LEU:HD12	0.545



Model ID	Atom-1	Atom-2	Clash overlap (Å)
10	B:105:ARG:HG2	B:203:LEU:HB3	0.540
10	A:359:THR:HG22	A:393:GLN:HG2	0.536
10	B:359:THR:HG22	B:393:GLN:HG2	0.536
10	A:510:LYS:HB2	I:2:NAG:H61	0.514
10	B:148:ARG:NE	M:2:NAG:C1	0.513
10	B:510:LYS:HB2	Q:2:NAG:H61	0.510
10	A:148:ARG:NE	E:2:NAG:C1	0.509
10	A:499:ASN:N	A:499:ASN:HD22	0.499
10	B:499:ASN:N	B:499:ASN:HD22	0.497
10	A:148:ARG:CZ	E:18:FUC:O2	0.480
10	B:28:ARG:CG	B:28:ARG:NH1	0.479
10	B:148:ARG:CZ	M:18:FUC:O2	0.479
10	B:423:ILE:HB	B:424:PRO:HD3	0.479
10	A:28:ARG:CG	A:28:ARG:NH1	0.478
10	A:405:PRO:CD	J:14:SIA:O8	0.477
10	A:423:ILE:HB	A:424:PRO:HD3	0.477
10	B:405:PRO:CD	R:14:SIA:O8	0.476
10	B:537:ARG:NH2	R:17:SIA:H91	0.469
10	A:537:ARG:NH2	J:17:SIA:H91	0.468
10	A:148:ARG:HB3	E:1:NAG:C6	0.467
10	B:148:ARG:HB3	M:1:NAG:C6	0.460
10	A:528:PRO:HA	A:529:PRO:HD3	0.457
10	B:528:PRO:HA	B:529:PRO:HD3	0.454

Model ID	Atom-1	Atom-2	Clash overlap (Å)
10	B:511:PHE:CB	Q:1:NAG:O3	0.452
10	A:77:ARG:HH21	A:91:PRO:HB2	0.451
10	A:511:PHE:CB	I:1:NAG:O3	0.451
10	A:155:SER:HB2	E:14:SIA:O9	0.450
10	B:155:SER:HB2	M:14:SIA:O9	0.450
10	A:508:LYS:HG2	I:18:FUC:O3	0.444
10	B:508:LYS:HG2	Q:18:FUC:O3	0.443
10	A:341:ASN:CB	A:342:PRO:HD3	0.441
10	B:341:ASN:CB	B:342:PRO:HD3	0.441
10	B:33:SER:HB3	B:83:ILE:HD12	0.440
10	A:33:SER:HB3	A:83:ILE:HD12	0.439
10	B:199:PRO:CB	M:18:FUC:HO3	0.438
10	A:485:SER:HA	A:486:PRO:C	0.435
10	B:485:SER:HA	B:486:PRO:C	0.435
10	A:199:PRO:HA	E:18:FUC:HO3	0.435
10	A:199:PRO:CB	E:18:FUC:HO3	0.433
10	A:386:LYS:HD2	A:397:ILE:HD11	0.433
10	B:386:LYS:HD2	B:397:ILE:HD11	0.431
10	A:527:ASN:HA	A:528:PRO:C	0.427
10	B:527:ASN:HA	B:528:PRO:C	0.427
10	B:510:LYS:H	Q:2:NAG:C5	0.427
10	B:159:PRO:HG2	M:14:SIA:C7	0.426
10	A:510:LYS:H	I:2:NAG:C5	0.426

Model ID	Atom-1	Atom-2	Clash overlap (Å)
10	A:159:PRO:HG2	E:14:SIA:C7	0.422
10	A:378:LEU:HD12	A:417:LEU:HG	0.421
10	B:378:LEU:HD12	B:417:LEU:HG	0.421
10	B:199:PRO:HA	M:18:FUC:HO3	0.419
10	B:231:GLU:HA	B:328:THR:O	0.413
10	A:231:GLU:HA	A:328:THR:O	0.412
10	B:423:ILE:O	B:425:PRO:HD3	0.412
10	A:423:ILE:O	A:425:PRO:HD3	0.411
10	A:408:LYS:HE3	J:14:SIA:CT	0.408
10	B:408:LYS:HE3	R:14:SIA:CT	0.407
10	A:262:ARG:HH12	A:264:SER:HA	0.401
10	B:262:ARG:HH12	B:264:SER:HA	0.401
11	B:502:PHE:CD1	P:18:FUC:H62	1.383
11	A:502:PHE:CD1	H:18:FUC:H62	1.381
11	A:112:VAL:O	D:1:NAG:CT	1.365
11	B:112:VAL:O	L:1:NAG:CT	1.365
11	B:502:PHE:CD1	P:18:FUC:C6	1.298
11	A:502:PHE:CD1	H:18:FUC:C6	1.296
11	A:488:THR:CA	I:1:NAG:O	1.266
11	B:488:THR:CA	Q:1:NAG:O	1.265
11	B:502:PHE:CG	P:18:FUC:H63	1.241
11	A:502:PHE:CG	H:18:FUC:H63	1.240
11	A:488:THR:HA	I:1:NAG:O	1.198

Model ID	Atom-1	Atom-2	Clash overlap (Å)
11	B:488:THR:HA	Q:1:NAG:O	1.196
11	A:530:LYS:HD3	J:1:NAG:C6	1.124
11	B:530:LYS:HD3	R:1:NAG:C6	1.124
11	A:530:LYS:NZ	J:2:NAG:O	1.106
11	B:530:LYS:NZ	R:2:NAG:O	1.104
11	A:532:ASN:OD1	J:1:NAG:C1	1.096
11	B:532:ASN:OD1	R:1:NAG:C1	1.096
11	A:530:LYS:HD3	J:1:NAG:H62	1.040
11	B:530:LYS:HD3	R:1:NAG:H62	1.039
11	A:502:PHE:CB	H:18:FUC:H63	1.011
11	B:502:PHE:CB	P:18:FUC:H63	1.009
11	A:491:ARG:NH2	I:1:NAG:O3	0.991
11	B:491:ARG:NH2	Q:1:NAG:O3	0.990
11	B:441:ASP:HB2	R:2:NAG:CT	0.980
11	B:502:PHE:CG	P:18:FUC:C6	0.930
11	A:502:PHE:CG	H:18:FUC:C6	0.929
11	A:530:LYS:NZ	J:2:NAG:C	0.924
11	B:530:LYS:NZ	R:2:NAG:C	0.922
11	A:163:THR:OG1	E:1:NAG:CT	0.900
11	B:463:ASN:HD22	P:1:NAG:C1	0.893
11	A:463:ASN:HD22	H:1:NAG:C1	0.892
11	A:112:VAL:C	D:1:NAG:CT	0.868
11	B:112:VAL:C	L:1:NAG:CT	0.867

Model ID	Atom-1	Atom-2	Clash overlap (Å)
11	A:502:PHE:HD1	H:18:FUC:H62	0.849
11	A:502:PHE:HB3	H:18:FUC:C6	0.847
11	B:502:PHE:HB3	P:18:FUC:C6	0.846
11	B:502:PHE:HD1	P:18:FUC:H62	0.845
11	A:488:THR:CG2	I:1:NAG:O3	0.840
11	B:488:THR:CG2	Q:1:NAG:O3	0.839
11	A:501:ASP:OD2	A:502:PHE:HD2	0.837
11	B:501:ASP:OD2	B:502:PHE:HD2	0.835
11	B:502:PHE:HB3	P:18:FUC:H63	0.831
11	A:502:PHE:HB3	H:18:FUC:H63	0.829
11	A:114:ASN:ND2	D:1:NAG:C1	0.812
11	B:114:ASN:ND2	L:1:NAG:C1	0.811
11	B:488:THR:HB	Q:1:NAG:C2	0.808
11	A:488:THR:HB	I:1:NAG:C2	0.807
11	A:491:ARG:HH21	I:1:NAG:C3	0.807
11	B:491:ARG:HH21	Q:1:NAG:C3	0.805
11	A:499:ASN:H	A:499:ASN:HD22	0.765
11	B:441:ASP:CB	R:2:NAG:CT	0.764
11	B:499:ASN:HD21	B:502:PHE:HB2	0.764
11	A:499:ASN:HD21	A:502:PHE:HB2	0.763
11	B:530:LYS:HD3	R:1:NAG:H61	0.762
11	B:499:ASN:H	B:499:ASN:HD22	0.762
11	A:530:LYS:HD3	J:1:NAG:H61	0.761

Model ID	Atom-1	Atom-2	Clash overlap (Å)
11	A:530:LYS:HZ2	J:2:NAG:C	0.757
11	A:501:ASP:OD2	A:502:PHE:CD2	0.756
11	B:530:LYS:HZ2	R:2:NAG:C	0.755
11	B:501:ASP:OD2	B:502:PHE:CD2	0.754
11	A:532:ASN:CG	J:1:NAG:C1	0.748
11	B:532:ASN:CG	R:1:NAG:C1	0.747
11	A:166:ASN:ND2	E:1:NAG:C1	0.745
11	B:166:ASN:ND2	M:1:NAG:C1	0.744
11	A:491:ARG:HB3	I:1:NAG:C	0.735
11	B:491:ARG:HB3	Q:1:NAG:C	0.733
11	A:488:THR:CG2	I:2:NAG:O6	0.700
11	B:488:THR:CG2	Q:2:NAG:O6	0.699
11	B:530:LYS:HZ1	R:2:NAG:C	0.698
11	A:530:LYS:HZ1	J:2:NAG:C	0.697
11	B:112:VAL:HB	L:1:NAG:CT	0.692
11	A:112:VAL:HB	D:1:NAG:CT	0.691
11	A:498:LEU:HB2	A:502:PHE:O	0.691
11	B:498:LEU:HB2	B:502:PHE:O	0.690
11	A:488:THR:HG22	I:1:NAG:O3	0.675
11	B:499:ASN:N	B:499:ASN:ND2	0.675
11	A:499:ASN:N	A:499:ASN:ND2	0.674
11	B:488:THR:HG22	Q:1:NAG:O3	0.673
11	A:463:ASN:ND2	H:1:NAG:C1	0.673

Model ID	Atom-1	Atom-2	Clash overlap (Å)
11	B:463:ASN:ND2	P:1:NAG:C1	0.673
11	A:499:ASN:H	A:499:ASN:ND2	0.671
11	A:488:THR:HG23	I:2:NAG:O6	0.669
11	B:488:THR:HG23	Q:2:NAG:O6	0.669
11	B:499:ASN:H	B:499:ASN:ND2	0.669
11	A:488:THR:HG21	I:2:NAG:C6	0.658
11	B:488:THR:HG21	Q:2:NAG:C6	0.658
11	B:441:ASP:CA	R:2:NAG:CT	0.651
11	A:409:ASN:H	G:1:NAG:CT	0.632
11	B:409:ASN:H	O:1:NAG:CT	0.630
11	B:502:PHE:CB	P:18:FUC:C6	0.625
11	A:502:PHE:CB	H:18:FUC:C6	0.624
11	A:491:ARG:HH21	I:1:NAG:C2	0.616
11	B:491:ARG:HH21	Q:1:NAG:C2	0.616
11	B:28:ARG:CG	B:28:ARG:HH11	0.614
11	A:488:THR:C	I:1:NAG:O	0.613
11	B:488:THR:C	Q:1:NAG:O	0.613
11	A:28:ARG:CG	A:28:ARG:HH11	0.612
11	A:341:ASN:HB3	A:342:PRO:HD3	0.610
11	A:488:THR:HG21	I:2:NAG:O5	0.610
11	B:341:ASN:HB3	B:342:PRO:HD3	0.610
11	B:488:THR:HG21	Q:2:NAG:O5	0.609
11	A:413:ASN:ND2	G:1:NAG:C1	0.609

Model ID	Atom-1	Atom-2	Clash overlap (Å)
11	B:502:PHE:CE1	P:18:FUC:H4	0.606
11	A:502:PHE:CE1	H:18:FUC:H4	0.605
11	A:409:ASN:HD22	A:410:ASN:H	0.592
11	A:447:LEU:HB3	A:448:PRO:HD3	0.591
11	B:409:ASN:HD22	B:410:ASN:H	0.591
11	A:112:VAL:CB	D:1:NAG:CT	0.584
11	B:112:VAL:CB	L:1:NAG:CT	0.584
11	A:530:LYS:NZ	J:1:NAG:H61	0.580
11	B:530:LYS:NZ	R:1:NAG:H61	0.579
11	A:391:ASN:HB3	A:393:GLN:HG3	0.560
11	B:391:ASN:HB3	B:393:GLN:HG3	0.560
11	B:28:ARG:HG2	B:28:ARG:HH11	0.552
11	A:409:ASN:N	G:1:NAG:CT	0.552
11	B:409:ASN:N	O:1:NAG:CT	0.552
11	A:28:ARG:HG2	A:28:ARG:HH11	0.551
11	A:488:THR:HG21	I:2:NAG:O6	0.548
11	B:488:THR:HG21	Q:2:NAG:O6	0.548
11	B:488:THR:HG22	B:491:ARG:NH2	0.548
11	A:488:THR:HG22	A:491:ARG:NH2	0.547
11	A:109:LEU:H	A:109:LEU:HD12	0.545
11	B:109:LEU:H	B:109:LEU:HD12	0.545
11	B:105:ARG:HG2	B:203:LEU:HB3	0.540
11	A:359:THR:HG22	A:393:GLN:HG2	0.536



Model ID	Atom-1	Atom-2	Clash overlap (Å)
11	B:359:THR:HG22	B:393:GLN:HG2	0.536
11	A:491:ARG:HB3	I:1:NAG:O	0.532
11	B:491:ARG:HB3	Q:1:NAG:O	0.531
11	A:530:LYS:CD	J:1:NAG:C6	0.531
11	B:530:LYS:CD	R:1:NAG:C6	0.531
11	B:530:LYS:CD	R:1:NAG:H61	0.520
11	A:530:LYS:CD	J:1:NAG:H61	0.518
11	A:488:THR:CG2	I:2:NAG:C6	0.516
11	B:488:THR:CG2	Q:2:NAG:C6	0.516
11	A:166:ASN:HD22	E:1:NAG:C1	0.508
11	B:166:ASN:HD22	M:1:NAG:C1	0.506
11	B:441:ASP:HA	R:2:NAG:CT	0.505
11	A:31:ASN:HB3	C:1:NAG:C1	0.500
11	B:31:ASN:HB3	K:1:NAG:C1	0.499
11	A:499:ASN:N	A:499:ASN:HD22	0.499
11	B:499:ASN:N	B:499:ASN:HD22	0.497
11	B:441:ASP:O	R:2:NAG:CT	0.494
11	A:502:PHE:CE2	H:18:FUC:O4	0.489
11	A:532:ASN:OD1	J:1:NAG:C2	0.484
11	B:532:ASN:OD1	R:1:NAG:C2	0.482
11	B:28:ARG:CG	B:28:ARG:NH1	0.479
11	B:423:ILE:HB	B:424:PRO:HD3	0.479
11	A:488:THR:CB	I:1:NAG:O	0.479

Model ID	Atom-1	Atom-2	Clash overlap (Å)
11	B:488:THR:CB	Q:1:NAG:O	0.479
11	A:28:ARG:CG	A:28:ARG:NH1	0.478
11	A:423:ILE:HB	A:424:PRO:HD3	0.477
11	B:488:THR:HG21	Q:1:NAG:O3	0.473
11	A:488:THR:HG21	I:1:NAG:O3	0.469
11	B:488:THR:HB	Q:1:NAG:C3	0.462
11	A:488:THR:HB	I:1:NAG:C3	0.461
11	A:528:PRO:HA	A:529:PRO:HD3	0.457
11	B:528:PRO:HA	B:529:PRO:HD3	0.454
11	B:530:LYS:HZ2	R:1:NAG:H61	0.453
11	A:77:ARG:HH21	A:91:PRO:HB2	0.451
11	A:530:LYS:HZ2	J:1:NAG:H61	0.450
11	A:341:ASN:CB	A:342:PRO:HD3	0.441
11	B:341:ASN:CB	B:342:PRO:HD3	0.441
11	B:33:SER:HB3	B:83:ILE:HD12	0.440
11	A:33:SER:HB3	A:83:ILE:HD12	0.439
11	A:485:SER:HA	A:486:PRO:C	0.435
11	B:485:SER:HA	B:486:PRO:C	0.435
11	A:408:LYS:N	G:1:NAG:CT	0.434
11	B:408:LYS:N	O:1:NAG:CT	0.434
11	A:386:LYS:HD2	A:397:ILE:HD11	0.433
11	B:502:PHE:HB3	P:18:FUC:H61	0.432
11	A:488:THR:CB	I:1:NAG:O3	0.432

Model ID	Atom-1	Atom-2	Clash overlap (Å)
11	B:488:THR:CB	Q:1:NAG:O3	0.432
11	B:386:LYS:HD2	B:397:ILE:HD11	0.431
11	A:502:PHE:HB3	H:18:FUC:H61	0.429
11	A:527:ASN:HA	A:528:PRO:C	0.427
11	B:527:ASN:HA	B:528:PRO:C	0.427
11	A:502:PHE:CE1	H:18:FUC:C4	0.423
11	A:378:LEU:HD12	A:417:LEU:HG	0.421
11	B:378:LEU:HD12	B:417:LEU:HG	0.421
11	B:502:PHE:CE1	P:18:FUC:C4	0.421
11	B:502:PHE:CE2	P:18:FUC:O4	0.420
11	B:441:ASP:C	R:2:NAG:CT	0.417
11	B:231:GLU:HA	B:328:THR:O	0.413
11	A:231:GLU:HA	A:328:THR:O	0.412
11	B:423:ILE:O	B:425:PRO:HD3	0.412
11	A:423:ILE:O	A:425:PRO:HD3	0.411
11	A:488:THR:HB	I:1:NAG:O3	0.410
11	B:488:THR:HB	Q:1:NAG:O3	0.409
11	B:112:VAL:HG12	L:1:NAG:CT	0.409
11	A:112:VAL:HG12	D:1:NAG:CT	0.408
11	A:488:THR:O	I:1:NAG:O	0.408
11	B:488:THR:O	Q:1:NAG:O	0.408
11	B:530:LYS:NZ	R:2:NAG:CT	0.404
11	A:530:LYS:NZ	J:2:NAG:CT	0.403

Model ID	Atom-1	Atom-2	Clash overlap (Å)
11	A:262:ARG:HH12	A:264:SER:HA	0.401
11	B:262:ARG:HH12	B:264:SER:HA	0.401
11	J:10:SIA:H92	J:10:SIA:O6	0.400
12	A:384:TRP:CZ2	J:13:GAL:H62	1.579
12	B:384:TRP:CZ2	R:13:GAL:H62	1.579
12	B:399:VAL:HG23	R:12:NAG:C	1.565
12	A:399:VAL:HG23	J:12:NAG:C	1.559
12	B:445:GLN:NE2	R:1:NAG:N	1.472
12	A:445:GLN:NE2	J:1:NAG:N	1.468
12	A:384:TRP:CZ2	J:13:GAL:C6	1.340
12	B:384:TRP:CZ2	R:13:GAL:C6	1.340
12	B:406:ASN:ND2	R:13:GAL:O3	1.313
12	B:399:VAL:CB	R:12:NAG:CT	1.298
12	A:399:VAL:CB	J:12:NAG:CT	1.295
12	A:384:TRP:CH2	J:13:GAL:C6	1.273
12	B:384:TRP:CH2	R:13:GAL:C6	1.271
12	B:384:TRP:CH2	R:13:GAL:H62	1.241
12	A:384:TRP:CH2	J:13:GAL:H62	1.240
12	A:404:SER:OG	J:13:GAL:H5	1.237
12	A:30:LYS:CG	C:1:NAG:CT	1.140
12	B:30:LYS:CG	K:1:NAG:CT	1.139
12	A:404:SER:OG	J:13:GAL:C5	1.102
12	A:413:ASN:CG	G:1:NAG:O5	1.061

Model ID	Atom-1	Atom-2	Clash overlap (Å)
12	A:30:LYS:HB3	C:1:NAG:CT	1.055
12	B:30:LYS:HB3	K:1:NAG:CT	1.053
12	A:413:ASN:OD1	G:1:NAG:O5	1.040
12	A:30:LYS:CB	C:1:NAG:CT	1.039
12	B:30:LYS:CB	K:1:NAG:CT	1.039
12	A:404:SER:HG	J:13:GAL:H5	0.964
12	B:342:PRO:CB	O:18:FUC:O3	0.957
12	A:342:PRO:CB	G:18:FUC:O3	0.956
12	B:30:LYS:HB3	K:1:NAG:C	0.947
12	A:30:LYS:HB3	C:1:NAG:C	0.946
12	A:445:GLN:OE1	J:1:NAG:CT	0.941
12	B:445:GLN:OE1	R:1:NAG:CT	0.940
12	A:384:TRP:CZ2	J:13:GAL:H61	0.919
12	B:384:TRP:CZ2	R:13:GAL:H61	0.918
12	A:342:PRO:HB3	G:18:FUC:O3	0.909
12	B:114:ASN:ND2	L:1:NAG:O5	0.909
12	B:342:PRO:HB3	O:18:FUC:O3	0.907
12	A:114:ASN:ND2	D:1:NAG:O5	0.907
12	A:404:SER:CB	J:13:GAL:H5	0.895
12	A:114:ASN:ND2	D:1:NAG:C1	0.893
12	B:114:ASN:ND2	L:1:NAG:C1	0.892
12	B:406:ASN:ND2	R:13:GAL:C3	0.889
12	B:384:TRP:CH2	R:13:GAL:H61	0.878

Model ID	Atom-1	Atom-2	Clash overlap (Å)
12	B:532:ASN:ND2	R:1:NAG:C1	0.877
12	A:532:ASN:ND2	J:1:NAG:C1	0.876
12	B:384:TRP:HH2	R:13:GAL:C6	0.876
12	A:384:TRP:CH2	J:13:GAL:H61	0.874
12	A:413:ASN:CG	G:1:NAG:C1	0.871
12	B:384:TRP:HZ2	R:13:GAL:C6	0.869
12	A:384:TRP:HZ2	J:13:GAL:C6	0.864
12	B:491:ARG:NH2	Q:1:NAG:CT	0.864
12	A:491:ARG:NH2	I:1:NAG:CT	0.863
12	A:240:ILE:HG23	F:18:FUC:H61	0.862
12	B:240:ILE:HG23	N:18:FUC:H61	0.861
12	A:445:GLN:CD	J:1:NAG:N	0.853
12	B:445:GLN:CD	R:1:NAG:N	0.853
12	A:342:PRO:HB3	G:18:FUC:HO3	0.852
12	A:399:VAL:HG22	J:12:NAG:CT	0.848
12	B:399:VAL:HG22	R:12:NAG:CT	0.848
12	B:445:GLN:NE2	R:1:NAG:C2	0.845
12	A:445:GLN:NE2	J:1:NAG:C2	0.844
12	B:406:ASN:HA	R:14:SIA:O11	0.839
12	A:501:ASP:OD2	A:502:PHE:HD2	0.837
12	B:501:ASP:OD2	B:502:PHE:HD2	0.835
12	A:413:ASN:ND2	G:1:NAG:O5	0.829
12	A:384:TRP:HH2	J:13:GAL:C6	0.824

Model ID	Atom-1	Atom-2	Clash overlap (Å)
12	A:445:GLN:CD	J:1:NAG:CT	0.792
12	B:342:PRO:HB2	O:18:FUC:O3	0.792
12	B:445:GLN:CD	R:1:NAG:CT	0.792
12	A:342:PRO:HB2	G:18:FUC:O3	0.789
12	A:445:GLN:NE2	J:1:NAG:C1	0.783
12	B:445:GLN:NE2	R:1:NAG:C1	0.783
12	B:243:ASN:OD1	N:1:NAG:O5	0.780
12	B:277:ASP:HB2	N:18:FUC:O3	0.779
12	A:277:ASP:HB2	F:18:FUC:O3	0.778
12	B:491:ARG:HH21	Q:1:NAG:C	0.778
12	A:491:ARG:HH21	I:1:NAG:C	0.777
12	A:243:ASN:OD1	F:1:NAG:O5	0.776
12	B:406:ASN:ND2	R:13:GAL:O4	0.775
12	A:491:ARG:NH2	I:1:NAG:N	0.766
12	B:491:ARG:NH2	Q:1:NAG:N	0.766
12	A:499:ASN:H	A:499:ASN:HD22	0.765
12	B:499:ASN:HD21	B:502:PHE:HB2	0.764
12	A:499:ASN:HD21	A:502:PHE:HB2	0.763
12	B:532:ASN:CG	R:1:NAG:C1	0.763
12	A:532:ASN:CG	J:1:NAG:C1	0.762
12	B:499:ASN:H	B:499:ASN:HD22	0.762
12	A:501:ASP:OD2	A:502:PHE:CD2	0.756
12	B:501:ASP:OD2	B:502:PHE:CD2	0.754

Model ID	Atom-1	Atom-2	Clash overlap (Å)
12	B:502:PHE:CE1	P:1:NAG:H5	0.733
12	A:502:PHE:CE1	H:1:NAG:H5	0.732
12	B:399:VAL:CG2	R:12:NAG:C	0.731
12	A:399:VAL:CG2	J:12:NAG:C	0.726
12	A:498:LEU:HB2	A:502:PHE:O	0.691
12	B:498:LEU:HB2	B:502:PHE:O	0.690
12	B:399:VAL:CG2	R:12:NAG:CT	0.677
12	A:399:VAL:CG2	J:12:NAG:CT	0.676
12	B:499:ASN:N	B:499:ASN:ND2	0.675
12	A:499:ASN:N	A:499:ASN:ND2	0.674
12	A:499:ASN:H	A:499:ASN:ND2	0.671
12	B:499:ASN:H	B:499:ASN:ND2	0.669
12	A:166:ASN:ND2	E:18:FUC:H5	0.650
12	B:166:ASN:ND2	M:18:FUC:H5	0.649
12	A:413:ASN:OD1	G:1:NAG:C1	0.641
12	A:445:GLN:CD	J:1:NAG:C	0.625
12	B:445:GLN:CD	R:1:NAG:C	0.625
12	B:491:ARG:HH21	Q:1:NAG:CT	0.625
12	B:399:VAL:HG21	R:12:NAG:CT	0.623
12	A:399:VAL:HG21	J:12:NAG:CT	0.622
12	B:28:ARG:CG	B:28:ARG:HH11	0.614
12	A:445:GLN:NE2	J:1:NAG:C	0.613
12	B:445:GLN:NE2	R:1:NAG:C	0.613



Model ID	Atom-1	Atom-2	Clash overlap (Å)
12	A:28:ARG:CG	A:28:ARG:HH11	0.612
12	A:341:ASN:HB3	A:342:PRO:HD3	0.610
12	B:341:ASN:HB3	B:342:PRO:HD3	0.610
12	A:409:ASN:HD22	A:410:ASN:H	0.592
12	A:447:LEU:HB3	A:448:PRO:HD3	0.591
12	A:502:PHE:HB3	H:1:NAG:N	0.591
12	B:409:ASN:HD22	B:410:ASN:H	0.591
12	B:502:PHE:HB3	P:1:NAG:N	0.590
12	B:382:ALA:HB2	R:13:GAL:O4	0.584
12	A:382:ALA:HB2	J:13:GAL:O4	0.583
12	A:399:VAL:HG23	J:12:NAG:CT	0.582
12	B:240:ILE:CD1	N:18:FUC:O5	0.582
12	B:399:VAL:HG23	R:12:NAG:CT	0.582
12	A:240:ILE:CD1	F:18:FUC:O5	0.581
12	B:406:ASN:ND2	R:14:SIA:C2	0.566
12	B:406:ASN:CA	R:14:SIA:O11	0.564
12	A:405:PRO:HB2	J:14:SIA:O12	0.562
12	B:405:PRO:HB2	R:14:SIA:O12	0.562
12	A:391:ASN:HB3	A:393:GLN:HG3	0.560
12	B:391:ASN:HB3	B:393:GLN:HG3	0.560
12	B:28:ARG:HG2	B:28:ARG:HH11	0.552
12	A:28:ARG:HG2	A:28:ARG:HH11	0.551
12	A:240:ILE:HD13	F:18:FUC:O5	0.550

Model ID	Atom-1	Atom-2	Clash overlap (Å)
12	B:240:ILE:HD13	N:18:FUC:O5	0.550
12	B:488:THR:HG22	B:491:ARG:NH2	0.548
12	A:488:THR:HG22	A:491:ARG:NH2	0.547
12	B:240:ILE:CG2	N:18:FUC:H61	0.547
12	A:109:LEU:H	A:109:LEU:HD12	0.545
12	B:109:LEU:H	B:109:LEU:HD12	0.545
12	A:240:ILE:CG2	F:18:FUC:H61	0.545
12	B:105:ARG:HG2	B:203:LEU:HB3	0.540
12	A:384:TRP:CH2	J:13:GAL:O6	0.539
12	B:384:TRP:CH2	R:13:GAL:O6	0.538
12	A:359:THR:HG22	A:393:GLN:HG2	0.536
12	B:359:THR:HG22	B:393:GLN:HG2	0.536
12	A:166:ASN:HD21	E:18:FUC:H5	0.527
12	B:166:ASN:HD21	M:18:FUC:H5	0.527
12	A:240:ILE:HD13	F:1:NAG:C6	0.513
12	B:240:ILE:HD13	N:1:NAG:C6	0.513
12	B:445:GLN:OE1	R:1:NAG:C	0.508
12	A:445:GLN:OE1	J:1:NAG:C	0.507
12	A:382:ALA:CB	J:13:GAL:O4	0.505
12	B:382:ALA:CB	R:13:GAL:O4	0.504
12	A:491:ARG:NE	I:1:NAG:N	0.503
12	B:342:PRO:HB3	O:18:FUC:HO3	0.502
12	A:240:ILE:HD13	F:1:NAG:H62	0.500

Model ID	Atom-1	Atom-2	Clash overlap (Å)
12	B:240:ILE:HD13	N:1:NAG:H62	0.499
12	A:491:ARG:HH21	I:1:NAG:CT	0.499
12	A:499:ASN:N	A:499:ASN:HD22	0.499
12	B:499:ASN:N	B:499:ASN:HD22	0.497
12	A:491:ARG:CZ	I:1:NAG:CT	0.494
12	B:491:ARG:CZ	Q:1:NAG:CT	0.494
12	B:491:ARG:NE	Q:1:NAG:N	0.491
12	A:404:SER:HB3	J:13:GAL:O6	0.489
12	B:488:THR:O	Q:1:NAG:C	0.480
12	B:28:ARG:CG	B:28:ARG:NH1	0.479
12	B:423:ILE:HB	B:424:PRO:HD3	0.479
12	A:28:ARG:CG	A:28:ARG:NH1	0.478
12	A:488:THR:O	I:1:NAG:C	0.478
12	A:423:ILE:HB	A:424:PRO:HD3	0.477
12	A:114:ASN:CG	D:1:NAG:C1	0.474
12	B:114:ASN:CG	L:1:NAG:C1	0.473
12	A:404:SER:CB	J:13:GAL:C5	0.461
12	B:502:PHE:CD1	P:1:NAG:C1	0.459
12	A:502:PHE:CD1	H:1:NAG:C1	0.458
12	A:528:PRO:HA	A:529:PRO:HD3	0.457
12	B:528:PRO:HA	B:529:PRO:HD3	0.454
12	A:77:ARG:HH21	A:91:PRO:HB2	0.451
12	A:341:ASN:CB	A:342:PRO:HD3	0.441

Model ID	Atom-1	Atom-2	Clash overlap (Å)
12	B:341:ASN:CB	B:342:PRO:HD3	0.441
12	B:33:SER:HB3	B:83:ILE:HD12	0.440
12	A:33:SER:HB3	A:83:ILE:HD12	0.439
12	A:405:PRO:C	J:14:SIA:O12	0.436
12	B:405:PRO:C	R:14:SIA:O12	0.436
12	A:485:SER:HA	A:486:PRO:C	0.435
12	B:485:SER:HA	B:486:PRO:C	0.435
12	A:386:LYS:HD2	A:397:ILE:HD11	0.433
12	B:386:LYS:HD2	B:397:ILE:HD11	0.431
12	A:384:TRP:HH2	J:13:GAL:H61	0.430
12	B:384:TRP:HH2	R:13:GAL:H61	0.428
12	A:527:ASN:HA	A:528:PRO:C	0.427
12	B:527:ASN:HA	B:528:PRO:C	0.427
12	B:384:TRP:HH2	R:13:GAL:O6	0.424
12	A:491:ARG:CZ	I:1:NAG:N	0.422
12	B:491:ARG:CZ	Q:1:NAG:N	0.422
12	A:378:LEU:HD12	A:417:LEU:HG	0.421
12	B:378:LEU:HD12	B:417:LEU:HG	0.421
12	A:384:TRP:HH2	J:13:GAL:O6	0.421
12	A:240:ILE:HG12	F:18:FUC:C6	0.415
12	B:240:ILE:HG12	N:18:FUC:C6	0.414
12	B:231:GLU:HA	B:328:THR:O	0.413
12	A:231:GLU:HA	A:328:THR:O	0.412

Model ID	Atom-1	Atom-2	Clash overlap (Å)
12	B:423:ILE:O	B:425:PRO:HD3	0.412
12	A:423:ILE:O	A:425:PRO:HD3	0.411
12	A:166:ASN:HD22	E:1:NAG:C1	0.406
12	B:166:ASN:HD22	M:1:NAG:C1	0.405
12	A:262:ARG:HH12	A:264:SER:HA	0.401
12	B:262:ARG:HH12	B:264:SER:HA	0.401
13	B:243:ASN:ND2	N:1:NAG:C1	1.478
13	A:243:ASN:ND2	F:1:NAG:C1	1.474
13	B:148:ARG:HB3	M:1:NAG:C5	1.471
13	A:148:ARG:HB3	E:1:NAG:C5	1.467
13	A:148:ARG:CB	E:1:NAG:H5	1.349
13	B:148:ARG:CB	M:1:NAG:H5	1.344
13	B:445:GLN:HE22	R:1:NAG:C1	1.304
13	A:445:GLN:HE22	J:1:NAG:C1	1.300
13	B:445:GLN:NE2	R:1:NAG:C1	1.198
13	A:445:GLN:NE2	J:1:NAG:C1	1.196
13	A:148:ARG:NE	E:2:NAG:C1	1.191
13	A:191:GLN:OE1	E:2:NAG:CT	1.189
13	B:148:ARG:NE	M:2:NAG:C1	1.188
13	B:148:ARG:NE	M:1:NAG:O4	1.168
13	A:148:ARG:NE	E:1:NAG:O4	1.167
13	A:148:ARG:HE	E:2:NAG:C1	1.146
13	A:532:ASN:ND2	J:1:NAG:C1	1.146

Model ID	Atom-1	Atom-2	Clash overlap (Å)
13	B:148:ARG:HE	M:2:NAG:C1	1.146
13	B:532:ASN:ND2	R:1:NAG:C1	1.146
13	B:148:ARG:NH2	M:2:NAG:H3	1.128
13	A:148:ARG:NH2	E:2:NAG:H3	1.122
13	B:148:ARG:HE	M:1:NAG:C4	1.097
13	A:148:ARG:HE	E:1:NAG:C4	1.095
13	B:199:PRO:HG3	M:18:FUC:O3	1.092
13	A:199:PRO:HG3	E:18:FUC:O3	1.088
13	B:148:ARG:NH2	M:2:NAG:C3	1.087
13	A:148:ARG:NH2	E:2:NAG:C3	1.082
13	A:511:PHE:CB	I:18:FUC:O2	1.060
13	B:511:PHE:CB	Q:18:FUC:O2	1.060
13	B:148:ARG:HH21	M:2:NAG:C1	1.058
13	A:148:ARG:HH21	E:2:NAG:C1	1.056
13	A:148:ARG:NH2	E:2:NAG:C1	1.010
13	B:148:ARG:NH2	M:2:NAG:C1	1.003
13	A:243:ASN:HD21	F:1:NAG:C1	0.999
13	B:243:ASN:HD21	N:1:NAG:C1	0.998
13	B:148:ARG:HH22	M:2:NAG:H3	0.995
13	A:280:SER:HB3	F:18:FUC:O4	0.987
13	A:148:ARG:HH22	E:2:NAG:H3	0.987
13	B:280:SER:HB3	N:18:FUC:O4	0.985
13	A:445:GLN:CD	J:1:NAG:C1	0.982

Model ID	Atom-1	Atom-2	Clash overlap (Å)
13	B:445:GLN:CD	R:1:NAG:C1	0.981
13	A:280:SER:CB	F:18:FUC:O4	0.967
13	A:191:GLN:CD	E:2:NAG:CT	0.965
13	B:280:SER:CB	N:18:FUC:O4	0.965
13	A:445:GLN:OE1	J:1:NAG:C1	0.962
13	B:445:GLN:OE1	R:1:NAG:C1	0.961
13	A:148:ARG:NE	E:1:NAG:C4	0.933
13	B:148:ARG:NE	M:1:NAG:C4	0.933
13	A:206:THR:HG23	E:14:SIA:O7	0.930
13	B:206:THR:HG23	M:14:SIA:O7	0.927
13	A:532:ASN:HD22	J:1:NAG:C1	0.912
13	B:532:ASN:HD22	R:1:NAG:C1	0.912
13	B:148:ARG:HH22	M:2:NAG:C3	0.874
13	A:148:ARG:HH22	E:2:NAG:C3	0.869
13	A:243:ASN:CG	F:1:NAG:C1	0.851
13	B:243:ASN:CG	N:1:NAG:C1	0.850
13	A:501:ASP:OD2	A:502:PHE:HD2	0.837
13	B:501:ASP:OD2	B:502:PHE:HD2	0.835
13	A:148:ARG:CB	E:1:NAG:C5	0.823
13	B:148:ARG:CB	M:1:NAG:C5	0.816
13	A:532:ASN:HD21	J:1:NAG:C1	0.814
13	B:532:ASN:HD21	R:1:NAG:C1	0.810
13	A:148:ARG:CB	E:1:NAG:C4	0.804

Model ID	Atom-1	Atom-2	Clash overlap (Å)
13	B:148:ARG:CB	M:1:NAG:C4	0.804
13	B:199:PRO:CG	M:18:FUC:O3	0.789
13	A:199:PRO:CG	E:18:FUC:O3	0.787
13	B:200:THR:HG21	M:17:SIA:H8	0.787
13	A:200:THR:HG21	E:17:SIA:H8	0.786
13	B:148:ARG:HG3	M:2:NAG:C	0.782
13	A:148:ARG:HG3	E:2:NAG:C	0.781
13	A:499:ASN:H	A:499:ASN:HD22	0.765
13	B:499:ASN:HD21	B:502:PHE:HB2	0.764
13	A:499:ASN:HD21	A:502:PHE:HB2	0.763
13	A:200:THR:CG2	E:17:SIA:H8	0.762
13	B:110:HIS:HB3	L:1:NAG:CT	0.762
13	B:499:ASN:H	B:499:ASN:HD22	0.762
13	B:200:THR:CG2	M:17:SIA:H8	0.761
13	A:110:HIS:HB3	D:1:NAG:CT	0.760
13	A:501:ASP:OD2	A:502:PHE:CD2	0.756
13	B:501:ASP:OD2	B:502:PHE:CD2	0.754
13	A:160:ASN:N	E:7:SIA:H7	0.752
13	B:160:ASN:N	M:7:SIA:H7	0.751
13	A:148:ARG:HB3	E:1:NAG:C4	0.744
13	B:148:ARG:HB3	M:1:NAG:C4	0.741
13	A:243:ASN:ND2	F:1:NAG:C2	0.710
13	B:148:ARG:HE	M:1:NAG:H4	0.709



Model ID	Atom-1	Atom-2	Clash overlap (Å)
13	A:148:ARG:HE	E:1:NAG:H4	0.708
13	B:243:ASN:ND2	N:1:NAG:C2	0.707
13	A:498:LEU:HB2	A:502:PHE:O	0.691
13	A:461:SER:O	H:1:NAG:CT	0.691
13	B:498:LEU:HB2	B:502:PHE:O	0.690
13	A:243:ASN:ND2	F:1:NAG:N	0.686
13	B:243:ASN:ND2	N:1:NAG:N	0.684
13	A:110:HIS:CB	D:1:NAG:CT	0.678
13	B:110:HIS:CB	L:1:NAG:CT	0.678
13	A:148:ARG:HB3	E:1:NAG:C1	0.676
13	B:148:ARG:HB3	M:1:NAG:C1	0.676
13	B:148:ARG:HB3	M:1:NAG:O5	0.675
13	B:499:ASN:N	B:499:ASN:ND2	0.675
13	A:499:ASN:N	A:499:ASN:ND2	0.674
13	A:148:ARG:HB3	E:1:NAG:O5	0.672
13	A:499:ASN:H	A:499:ASN:ND2	0.671
13	B:499:ASN:H	B:499:ASN:ND2	0.669
13	A:198:ASN:C	E:18:FUC:O4	0.668
13	B:198:ASN:C	M:18:FUC:O4	0.667
13	B:148:ARG:HG3	M:2:NAG:O	0.658
13	A:148:ARG:HG3	E:2:NAG:O	0.657
13	B:280:SER:HB3	N:18:FUC:HO4	0.656
13	A:160:ASN:H	E:7:SIA:H7	0.653

Model ID	Atom-1	Atom-2	Clash overlap (Å)
13	B:160:ASN:H	M:7:SIA:H7	0.651
13	B:532:ASN:ND2	R:1:NAG:O5	0.651
13	A:532:ASN:ND2	J:1:NAG:O5	0.649
13	A:199:PRO:HG3	E:18:FUC:HO3	0.637
13	B:277:ASP:CG	N:18:FUC:H61	0.635
13	A:277:ASP:CG	F:18:FUC:H61	0.634
13	B:243:ASN:HD21	N:1:NAG:C2	0.631
13	A:243:ASN:HD21	F:1:NAG:C2	0.630
13	B:28:ARG:CG	B:28:ARG:HH11	0.614
13	A:28:ARG:CG	A:28:ARG:HH11	0.612
13	A:341:ASN:HB3	A:342:PRO:HD3	0.610
13	B:341:ASN:HB3	B:342:PRO:HD3	0.610
13	A:277:ASP:CG	F:18:FUC:C6	0.604
13	B:277:ASP:CG	N:18:FUC:C6	0.604
13	A:148:ARG:CD	E:1:NAG:O4	0.593
13	B:148:ARG:CD	M:1:NAG:O4	0.593
13	A:409:ASN:HD22	A:410:ASN:H	0.592
13	A:447:LEU:HB3	A:448:PRO:HD3	0.591
13	B:409:ASN:HD22	B:410:ASN:H	0.591
13	A:510:LYS:NZ	I:17:SIA:H8	0.582
13	B:510:LYS:NZ	Q:17:SIA:H8	0.582
13	A:150:LEU:HD21	E:2:NAG:C	0.563
13	B:150:LEU:HD21	M:2:NAG:C	0.562

Model ID	Atom-1	Atom-2	Clash overlap (Å)
13	A:150:LEU:CD2	E:2:NAG:C	0.561
13	B:150:LEU:CD2	M:2:NAG:C	0.561
13	A:391:ASN:HB3	A:393:GLN:HG3	0.560
13	B:391:ASN:HB3	B:393:GLN:HG3	0.560
13	B:28:ARG:HG2	B:28:ARG:HH11	0.552
13	A:510:LYS:HZ1	I:17:SIA:H8	0.552
13	A:28:ARG:HG2	A:28:ARG:HH11	0.551
13	A:159:PRO:HD2	E:7:SIA:H6	0.549
13	B:159:PRO:HD2	M:7:SIA:H6	0.549
13	B:488:THR:HG22	B:491:ARG:NH2	0.548
13	A:488:THR:HG22	A:491:ARG:NH2	0.547
13	A:109:LEU:H	A:109:LEU:HD12	0.545
13	B:109:LEU:H	B:109:LEU:HD12	0.545
13	A:150:LEU:HD21	E:2:NAG:CT	0.543
13	A:277:ASP:OD2	F:18:FUC:C6	0.542
13	B:277:ASP:OD2	N:18:FUC:C6	0.542
13	B:150:LEU:HD21	M:2:NAG:CT	0.541
13	B:105:ARG:HG2	B:203:LEU:HB3	0.540
13	A:359:THR:HG22	A:393:GLN:HG2	0.536
13	B:359:THR:HG22	B:393:GLN:HG2	0.536
13	B:148:ARG:HB2	M:1:NAG:C4	0.528
13	A:148:ARG:HB2	E:1:NAG:C4	0.527
13	A:510:LYS:HE2	I:17:SIA:O9	0.520

Model ID	Atom-1	Atom-2	Clash overlap (Å)
13	B:510:LYS:HE2	Q:17:SIA:O9	0.519
13	A:532:ASN:ND2	J:1:NAG:C2	0.516
13	B:532:ASN:ND2	R:1:NAG:C2	0.515
13	A:148:ARG:CG	E:1:NAG:O4	0.509
13	A:148:ARG:CG	E:2:NAG:C	0.509
13	B:148:ARG:CG	M:1:NAG:O4	0.509
13	B:148:ARG:CG	M:2:NAG:C	0.508
13	A:31:ASN:HB3	C:1:NAG:C1	0.500
13	B:31:ASN:HB3	K:1:NAG:C1	0.500
13	A:499:ASN:N	A:499:ASN:HD22	0.499
13	B:499:ASN:N	B:499:ASN:HD22	0.497
13	A:148:ARG:NE	E:18:FUC:C1	0.496
13	B:148:ARG:NE	M:18:FUC:C1	0.493
13	A:105:ARG:HH12	E:14:SIA:CT	0.482
13	B:105:ARG:HH12	M:14:SIA:CT	0.481
13	B:28:ARG:CG	B:28:ARG:NH1	0.479
13	B:423:ILE:HB	B:424:PRO:HD3	0.479
13	A:28:ARG:CG	A:28:ARG:NH1	0.478
13	A:423:ILE:HB	A:424:PRO:HD3	0.477
13	B:148:ARG:HB3	M:1:NAG:H5	0.470
13	B:532:ASN:OD1	R:18:FUC:H3	0.470
13	A:148:ARG:HB3	E:1:NAG:H5	0.469
13	A:532:ASN:OD1	J:18:FUC:H3	0.469

Model ID	Atom-1	Atom-2	Clash overlap (Å)
13	A:148:ARG:HE	E:1:NAG:O4	0.469
13	B:148:ARG:HE	M:1:NAG:O4	0.468
13	A:148:ARG:HB2	E:1:NAG:H3	0.467
13	B:148:ARG:HB2	M:1:NAG:H3	0.466
13	B:199:PRO:CD	M:18:FUC:O3	0.464
13	A:199:PRO:CD	E:18:FUC:O3	0.463
13	A:528:PRO:HA	A:529:PRO:HD3	0.457
13	A:148:ARG:HH21	E:2:NAG:H3	0.457
13	B:148:ARG:HH21	M:2:NAG:H3	0.456
13	B:528:PRO:HA	B:529:PRO:HD3	0.454
13	B:511:PHE:CB	Q:18:FUC:HO2	0.452
13	A:77:ARG:HH21	A:91:PRO:HB2	0.451
13	B:31:ASN:OD1	K:1:NAG:C1	0.448
13	B:510:LYS:HZ1	Q:17:SIA:H8	0.448
13	A:511:PHE:CB	I:18:FUC:HO2	0.447
13	A:31:ASN:OD1	C:1:NAG:C1	0.447
13	A:341:ASN:CB	A:342:PRO:HD3	0.441
13	B:341:ASN:CB	B:342:PRO:HD3	0.441
13	B:33:SER:HB3	B:83:ILE:HD12	0.440
13	A:33:SER:HB3	A:83:ILE:HD12	0.439
13	B:277:ASP:OD1	N:18:FUC:O5	0.437
13	A:277:ASP:OD1	F:18:FUC:O5	0.436
13	A:485:SER:HA	A:486:PRO:C	0.435

Model ID	Atom-1	Atom-2	Clash overlap (Å)
13	B:485:SER:HA	B:486:PRO:C	0.435
13	A:386:LYS:HD2	A:397:ILE:HD11	0.433
13	B:150:LEU:CD2	M:2:NAG:O	0.433
13	A:150:LEU:CD2	E:2:NAG:O	0.432
13	B:148:ARG:CB	M:1:NAG:O4	0.431
13	B:386:LYS:HD2	B:397:ILE:HD11	0.431
13	A:148:ARG:CB	E:1:NAG:O4	0.429
13	A:527:ASN:HA	A:528:PRO:C	0.427
13	B:527:ASN:HA	B:528:PRO:C	0.427
13	A:413:ASN:CG	G:1:NAG:C1	0.424
13	B:200:THR:HG22	M:17:SIA:H8	0.424
13	A:378:LEU:HD12	A:417:LEU:HG	0.421
13	B:378:LEU:HD12	B:417:LEU:HG	0.421
13	A:200:THR:HG22	E:17:SIA:H8	0.421
13	B:277:ASP:CB	N:18:FUC:H61	0.420
13	A:277:ASP:CB	F:18:FUC:H61	0.419
13	A:280:SER:HB3	F:18:FUC:HO4	0.418
13	B:231:GLU:HA	B:328:THR:O	0.413
13	A:231:GLU:HA	A:328:THR:O	0.412
13	B:423:ILE:O	B:425:PRO:HD3	0.412
13	A:423:ILE:O	A:425:PRO:HD3	0.411
13	A:510:LYS:CG	I:18:FUC:O4	0.408
13	B:199:PRO:HG3	M:18:FUC:HO3	0.404

Model ID	Atom-1	Atom-2	Clash overlap (Å)
13	A:148:ARG:CZ	E:18:FUC:C1	0.402
13	B:510:LYS:CG	Q:18:FUC:O4	0.402
13	A:262:ARG:HH12	A:264:SER:HA	0.401
13	B:148:ARG:CZ	M:18:FUC:C1	0.401
13	B:262:ARG:HH12	B:264:SER:HA	0.401
14	B:499:ASN:CG	P:18:FUC:H63	1.354
14	A:499:ASN:CG	H:18:FUC:H63	1.350
14	B:463:ASN:ND2	P:1:NAG:C1	1.159
14	A:463:ASN:ND2	H:1:NAG:C1	1.158
14	B:499:ASN:OD1	P:18:FUC:O4	1.154
14	A:499:ASN:OD1	H:18:FUC:O4	1.152
14	B:499:ASN:OD1	P:18:FUC:H63	1.139
14	A:383:ASN:HB2	J:6:GAL:H61	1.138
14	A:499:ASN:OD1	H:18:FUC:H63	1.136
14	B:383:ASN:HB2	R:6:GAL:H61	1.131
14	B:383:ASN:HB2	R:6:GAL:C6	1.108
14	A:383:ASN:HB2	J:6:GAL:C6	1.106
14	B:530:LYS:NZ	R:13:GAL:O2	1.096
14	A:530:LYS:NZ	J:13:GAL:O2	1.094
14	A:502:PHE:HB2	H:18:FUC:H62	1.084
14	B:502:PHE:HB2	P:18:FUC:H62	1.081
14	A:488:THR:HA	I:1:NAG:CT	1.029
14	B:488:THR:HA	Q:1:NAG:CT	1.029

Model ID	Atom-1	Atom-2	Clash overlap (Å)
14	A:499:ASN:OD1	H:18:FUC:C6	1.002
14	B:499:ASN:OD1	P:18:FUC:C6	1.000
14	A:499:ASN:CG	H:18:FUC:C6	0.958
14	B:499:ASN:CG	P:18:FUC:C6	0.954
14	A:499:ASN:ND2	H:18:FUC:H63	0.947
14	B:499:ASN:ND2	P:18:FUC:H63	0.945
14	A:502:PHE:HB2	H:18:FUC:C6	0.936
14	A:498:LEU:HB3	H:18:FUC:H61	0.935
14	B:498:LEU:HB3	P:18:FUC:H61	0.935
14	B:502:PHE:HB2	P:18:FUC:C6	0.934
14	A:499:ASN:ND2	H:18:FUC:C6	0.913
14	B:499:ASN:ND2	P:18:FUC:C6	0.913
14	B:528:PRO:HB2	R:14:SIA:O4	0.896
14	A:528:PRO:HB2	J:14:SIA:O4	0.895
14	A:502:PHE:CB	H:18:FUC:H62	0.890
14	B:502:PHE:CB	P:18:FUC:H62	0.890
14	B:530:LYS:HE2	R:14:SIA:O7	0.887
14	A:530:LYS:HE2	J:14:SIA:O7	0.884
14	B:530:LYS:CE	R:13:GAL:HO2	0.857
14	B:441:ASP:CB	R:13:GAL:H2	0.856
14	A:530:LYS:CE	J:13:GAL:HO2	0.849
14	A:530:LYS:CE	J:13:GAL:O2	0.848
14	B:530:LYS:CE	R:13:GAL:O2	0.846



Model ID	Atom-1	Atom-2	Clash overlap (Å)
14	A:501:ASP:OD2	A:502:PHE:HD2	0.837
14	B:501:ASP:OD2	B:502:PHE:HD2	0.835
14	B:441:ASP:HB3	R:13:GAL:H2	0.826
14	B:498:LEU:CD2	P:1:NAG:H62	0.821
14	A:498:LEU:CD2	H:1:NAG:H62	0.820
14	A:530:LYS:NZ	J:13:GAL:HO2	0.804
14	B:498:LEU:HD21	P:1:NAG:H62	0.796
14	A:498:LEU:HD21	H:1:NAG:H62	0.795
14	B:488:THR:HG22	Q:1:NAG:CT	0.782
14	A:488:THR:HG22	I:1:NAG:CT	0.781
14	B:498:LEU:CB	P:18:FUC:H61	0.775
14	A:498:LEU:CB	H:18:FUC:H61	0.773
14	B:530:LYS:NZ	R:13:GAL:HO2	0.769
14	A:499:ASN:H	A:499:ASN:HD22	0.765
14	A:528:PRO:HB2	J:14:SIA:C4	0.764
14	B:499:ASN:HD21	B:502:PHE:HB2	0.764
14	B:530:LYS:HE3	R:13:GAL:HO2	0.764
14	A:499:ASN:HD21	A:502:PHE:HB2	0.763
14	B:528:PRO:HB2	R:14:SIA:C4	0.762
14	B:499:ASN:H	B:499:ASN:HD22	0.762
14	A:501:ASP:OD2	A:502:PHE:CD2	0.756
14	A:498:LEU:HB3	H:18:FUC:C6	0.754
14	A:530:LYS:HE3	J:13:GAL:HO2	0.754

Model ID	Atom-1	Atom-2	Clash overlap (Å)
14	B:501:ASP:OD2	B:502:PHE:CD2	0.754
14	B:498:LEU:HB3	P:18:FUC:C6	0.753
14	B:488:THR:CA	Q:1:NAG:CT	0.741
14	A:488:THR:CA	I:1:NAG:CT	0.740
14	A:463:ASN:HD21	H:1:NAG:C1	0.738
14	B:463:ASN:HD21	P:1:NAG:C1	0.736
14	A:383:ASN:HB2	J:6:GAL:H62	0.735
14	A:383:ASN:CB	J:6:GAL:C6	0.735
14	B:383:ASN:CB	R:6:GAL:C6	0.735
14	B:383:ASN:HB2	R:6:GAL:H62	0.732
14	A:530:LYS:HE3	J:13:GAL:O2	0.719
14	B:530:LYS:HE3	R:13:GAL:O2	0.717
14	A:383:ASN:CB	J:6:GAL:H62	0.715
14	B:383:ASN:CB	R:6:GAL:H62	0.713
14	A:499:ASN:HD21	H:18:FUC:C6	0.713
14	B:499:ASN:HD21	P:18:FUC:C6	0.712
14	B:498:LEU:HD23	P:18:FUC:O5	0.700
14	A:498:LEU:HD23	H:18:FUC:O5	0.699
14	A:498:LEU:HB2	A:502:PHE:O	0.691
14	B:498:LEU:HB2	B:502:PHE:O	0.690
14	A:488:THR:HB	I:1:NAG:O	0.685
14	B:488:THR:HB	Q:1:NAG:O	0.683
14	A:532:ASN:ND2	J:1:NAG:C1	0.680

Model ID	Atom-1	Atom-2	Clash overlap (Å)
14	B:532:ASN:ND2	R:1:NAG:C1	0.680
14	B:499:ASN:N	B:499:ASN:ND2	0.675
14	A:499:ASN:N	A:499:ASN:ND2	0.674
14	A:499:ASN:H	A:499:ASN:ND2	0.671
14	B:499:ASN:H	B:499:ASN:ND2	0.669
14	A:399:VAL:HG21	J:12:NAG:O	0.658
14	B:399:VAL:HG21	R:12:NAG:O	0.656
14	A:280:SER:CB	F:18:FUC:O4	0.641
14	B:280:SER:CB	N:18:FUC:O4	0.641
14	A:148:ARG:HE	E:1:NAG:H61	0.616
14	B:148:ARG:HE	M:1:NAG:H61	0.615
14	B:28:ARG:CG	B:28:ARG:HH11	0.614
14	B:488:THR:HB	Q:1:NAG:C	0.613
14	A:28:ARG:CG	A:28:ARG:HH11	0.612
14	A:488:THR:HB	I:1:NAG:C	0.612
14	A:341:ASN:HB3	A:342:PRO:HD3	0.610
14	B:341:ASN:HB3	B:342:PRO:HD3	0.610
14	A:383:ASN:CG	J:6:GAL:H62	0.607
14	B:383:ASN:CG	R:6:GAL:H62	0.607
14	A:399:VAL:CG2	J:12:NAG:O	0.603
14	B:399:VAL:CG2	R:12:NAG:O	0.602
14	A:499:ASN:OD1	H:18:FUC:C4	0.598
14	B:499:ASN:OD1	P:18:FUC:C4	0.598

Model ID	Atom-1	Atom-2	Clash overlap (Å)
14	A:409:ASN:HD22	A:410:ASN:H	0.592
14	A:447:LEU:HB3	A:448:PRO:HD3	0.591
14	B:409:ASN:HD22	B:410:ASN:H	0.591
14	B:406:ASN:HD22	R:5:NAG:CT	0.584
14	A:532:ASN:OD1	J:18:FUC:H5	0.574
14	B:532:ASN:OD1	R:18:FUC:H5	0.574
14	A:491:ARG:NE	I:1:NAG:N	0.566
14	B:491:ARG:NE	Q:1:NAG:N	0.564
14	E:14:SIA:H91	E:14:SIA:O6	0.562
14	M:14:SIA:H91	M:14:SIA:O6	0.562
14	A:391:ASN:HB3	A:393:GLN:HG3	0.560
14	A:498:LEU:HD23	H:18:FUC:C5	0.560
14	B:391:ASN:HB3	B:393:GLN:HG3	0.560
14	B:383:ASN:OD1	R:6:GAL:H62	0.560
14	B:498:LEU:HD23	P:18:FUC:C5	0.559
14	A:383:ASN:OD1	J:6:GAL:H62	0.559
14	B:498:LEU:HD23	P:1:NAG:H62	0.558
14	A:498:LEU:HD23	H:1:NAG:H62	0.556
14	A:528:PRO:O	J:14:SIA:O4	0.553
14	B:28:ARG:HG2	B:28:ARG:HH11	0.552
14	A:28:ARG:HG2	A:28:ARG:HH11	0.551
14	A:488:THR:CB	I:1:NAG:CT	0.551
14	B:488:THR:CB	Q:1:NAG:CT	0.551

Model ID	Atom-1	Atom-2	Clash overlap (Å)
14	B:528:PRO:O	R:14:SIA:O4	0.551
14	A:109:LEU:H	A:109:LEU:HD12	0.545
14	B:109:LEU:H	B:109:LEU:HD12	0.545
14	B:488:THR:CG2	Q:1:NAG:CT	0.544
14	A:488:THR:CG2	I:1:NAG:CT	0.543
14	A:488:THR:HG22	A:491:ARG:NH2	0.541
14	B:105:ARG:HG2	B:203:LEU:HB3	0.540
14	B:488:THR:HG22	B:491:ARG:NH2	0.540
14	A:359:THR:HG22	A:393:GLN:HG2	0.536
14	B:359:THR:HG22	B:393:GLN:HG2	0.536
14	A:532:ASN:ND2	J:1:NAG:O5	0.533
14	B:532:ASN:ND2	R:1:NAG:O5	0.532
14	A:488:THR:CG2	I:1:NAG:O	0.530
14	B:488:THR:CG2	Q:1:NAG:O	0.530
14	B:528:PRO:HB2	R:14:SIA:H4	0.518
14	A:528:PRO:HB2	J:14:SIA:H4	0.516
14	A:399:VAL:HG23	J:12:NAG:CT	0.501
14	B:399:VAL:HG23	R:12:NAG:CT	0.501
14	A:499:ASN:N	A:499:ASN:HD22	0.499
14	B:499:ASN:N	B:499:ASN:HD22	0.497
14	A:488:THR:CB	I:1:NAG:O	0.496
14	B:488:THR:CB	Q:1:NAG:O	0.495
14	B:399:VAL:HB	R:12:NAG:O	0.492

Model ID	Atom-1	Atom-2	Clash overlap (Å)
14	A:530:LYS:CE	J:14:SIA:O7	0.491
14	A:399:VAL:HB	J:12:NAG:O	0.490
14	A:413:ASN:ND2	G:1:NAG:C1	0.490
14	B:530:LYS:CE	R:14:SIA:O7	0.487
14	B:166:ASN:ND2	M:18:FUC:H62	0.480
14	B:28:ARG:CG	B:28:ARG:NH1	0.479
14	B:423:ILE:HB	B:424:PRO:HD3	0.479
14	A:166:ASN:ND2	E:18:FUC:H62	0.479
14	A:28:ARG:CG	A:28:ARG:NH1	0.478
14	A:423:ILE:HB	A:424:PRO:HD3	0.477
14	A:399:VAL:HG21	J:12:NAG:C	0.474
14	B:399:VAL:HG21	R:12:NAG:C	0.474
14	A:530:LYS:HE3	J:14:SIA:O6	0.473
14	B:530:LYS:HE3	R:14:SIA:O6	0.472
14	B:512:GLU:OE2	Q:11:MAN:O3	0.463
14	A:512:GLU:OE2	I:11:MAN:O3	0.460
14	A:528:PRO:HA	A:529:PRO:HD3	0.457
14	A:280:SER:HB3	F:18:FUC:O4	0.457
14	A:530:LYS:CE	J:14:SIA:O6	0.456
14	B:530:LYS:CE	R:14:SIA:O6	0.455
14	B:280:SER:HB3	N:18:FUC:O4	0.455
14	B:528:PRO:HA	B:529:PRO:HD3	0.454
14	A:499:ASN:HD21	H:18:FUC:H62	0.452

Model ID	Atom-1	Atom-2	Clash overlap (Å)
14	A:77:ARG:HH21	A:91:PRO:HB2	0.451
14	B:499:ASN:HD21	P:18:FUC:H62	0.449
14	B:399:VAL:CB	R:12:NAG:O	0.448
14	A:399:VAL:CB	J:12:NAG:O	0.447
14	A:341:ASN:CB	A:342:PRO:HD3	0.441
14	B:341:ASN:CB	B:342:PRO:HD3	0.441
14	B:33:SER:HB3	B:83:ILE:HD12	0.440
14	A:33:SER:HB3	A:83:ILE:HD12	0.439
14	A:502:PHE:CB	H:18:FUC:C6	0.436
14	A:485:SER:HA	A:486:PRO:C	0.435
14	B:485:SER:HA	B:486:PRO:C	0.435
14	A:386:LYS:HD2	A:397:ILE:HD11	0.433
14	B:502:PHE:CB	P:18:FUC:C6	0.432
14	B:386:LYS:HD2	B:397:ILE:HD11	0.431
14	A:488:THR:CB	I:1:NAG:C	0.429
14	A:463:ASN:CG	H:1:NAG:C1	0.429
14	B:488:THR:CB	Q:1:NAG:C	0.428
14	B:463:ASN:CG	P:1:NAG:C1	0.428
14	A:527:ASN:HA	A:528:PRO:C	0.427
14	B:527:ASN:HA	B:528:PRO:C	0.427
14	B:441:ASP:HB2	R:12:NAG:O4	0.424
14	A:378:LEU:HD12	A:417:LEU:HG	0.421
14	B:378:LEU:HD12	B:417:LEU:HG	0.421

Model ID	Atom-1	Atom-2	Clash overlap (Å)
14	B:441:ASP:CA	R:13:GAL:H2	0.420
14	B:512:GLU:OE2	Q:11:MAN:H4	0.419
14	A:512:GLU:OE2	I:11:MAN:H4	0.418
14	A:528:PRO:C	J:14:SIA:O4	0.417
14	B:528:PRO:C	R:14:SIA:O4	0.417
14	B:231:GLU:HA	B:328:THR:O	0.413
14	A:231:GLU:HA	A:328:THR:O	0.412
14	B:423:ILE:O	B:425:PRO:HD3	0.412
14	A:423:ILE:O	A:425:PRO:HD3	0.411
14	B:463:ASN:HD22	P:1:NAG:C1	0.404
14	A:262:ARG:HH12	A:264:SER:HA	0.401
14	A:399:VAL:CG2	J:12:NAG:CT	0.401
14	B:399:VAL:CG2	R:12:NAG:CT	0.401
14	B:262:ARG:HH12	B:264:SER:HA	0.401
15	B:463:ASN:ND2	P:1:NAG:C1	1.445
15	A:463:ASN:ND2	H:1:NAG:C1	1.443
15	A:498:LEU:HD23	H:18:FUC:O5	1.325
15	B:498:LEU:HD23	P:18:FUC:O5	1.325
15	A:498:LEU:CD2	H:18:FUC:O5	1.162
15	B:498:LEU:CD2	P:18:FUC:O5	1.162
15	A:445:GLN:HE22	J:1:NAG:C1	1.104
15	B:445:GLN:HE22	R:1:NAG:C1	1.102
15	A:510:LYS:HB2	I:2:NAG:H62	1.083



Model ID	Atom-1	Atom-2	Clash overlap (Å)
15	B:510:LYS:HB2	Q:2:NAG:H62	1.080
15	B:510:LYS:HZ3	Q:4:MAN:H62	1.076
15	A:510:LYS:HZ3	I:4:MAN:H62	1.060
15	A:445:GLN:NE2	J:1:NAG:C1	1.052
15	B:445:GLN:NE2	R:1:NAG:C1	1.050
15	A:532:ASN:ND2	J:1:NAG:C1	1.047
15	B:532:ASN:ND2	R:1:NAG:C1	1.047
15	A:498:LEU:HD23	H:18:FUC:C1	1.001
15	B:498:LEU:HD23	P:18:FUC:C1	1.001
15	B:463:ASN:HD21	P:1:NAG:C1	0.978
15	A:463:ASN:HD21	H:1:NAG:C1	0.971
15	A:510:LYS:NZ	I:4:MAN:H62	0.955
15	B:510:LYS:NZ	Q:4:MAN:H62	0.953
15	B:510:LYS:HB2	Q:2:NAG:C6	0.938
15	A:510:LYS:HB2	I:2:NAG:C6	0.937
15	A:510:LYS:CB	I:2:NAG:H62	0.880
15	B:510:LYS:CB	Q:2:NAG:H62	0.880
15	B:463:ASN:HD22	P:1:NAG:C1	0.880
15	A:463:ASN:HD22	H:1:NAG:C1	0.876
15	B:406:ASN:HD22	R:13:GAL:H62	0.868
15	A:510:LYS:NZ	I:8:NAG:N	0.849
15	B:510:LYS:NZ	Q:8:NAG:N	0.849
15	A:501:ASP:OD2	A:502:PHE:HD2	0.837

Model ID	Atom-1	Atom-2	Clash overlap (Å)
15	B:501:ASP:OD2	B:502:PHE:HD2	0.835
15	B:408:LYS:N	O:1:NAG:CT	0.774
15	A:408:LYS:N	G:1:NAG:CT	0.773
15	A:499:ASN:H	A:499:ASN:HD22	0.765
15	B:499:ASN:HD21	B:502:PHE:HB2	0.764
15	A:499:ASN:HD21	A:502:PHE:HB2	0.763
15	B:499:ASN:H	B:499:ASN:HD22	0.762
15	A:501:ASP:OD2	A:502:PHE:CD2	0.756
15	A:408:LYS:HG2	G:2:NAG:O6	0.754
15	B:408:LYS:HG2	O:2:NAG:O6	0.754
15	B:501:ASP:OD2	B:502:PHE:CD2	0.754
15	A:532:ASN:CG	J:1:NAG:C1	0.710
15	B:532:ASN:CG	R:1:NAG:C1	0.708
15	A:114:ASN:ND2	D:1:NAG:C1	0.703
15	B:114:ASN:ND2	L:1:NAG:C1	0.703
15	B:408:LYS:HG2	O:2:NAG:C6	0.693
15	A:408:LYS:HG2	G:2:NAG:C6	0.692
15	A:498:LEU:HB2	A:502:PHE:O	0.691
15	B:498:LEU:HB2	B:502:PHE:O	0.690
15	A:498:LEU:CD2	H:18:FUC:C1	0.682
15	B:498:LEU:CD2	P:18:FUC:C1	0.680
15	A:408:LYS:HB2	G:1:NAG:O3	0.678
15	B:408:LYS:HB2	O:1:NAG:O3	0.677

Model ID	Atom-1	Atom-2	Clash overlap (Å)
15	B:499:ASN:N	B:499:ASN:ND2	0.675
15	A:510:LYS:CG	I:2:NAG:H62	0.674
15	A:499:ASN:N	A:499:ASN:ND2	0.674
15	B:510:LYS:CG	Q:2:NAG:H62	0.673
15	A:499:ASN:H	A:499:ASN:ND2	0.671
15	B:499:ASN:H	B:499:ASN:ND2	0.669
15	B:532:ASN:HD21	R:1:NAG:C2	0.647
15	B:406:ASN:ND2	R:13:GAL:H62	0.646
15	A:532:ASN:HD21	J:1:NAG:C2	0.645
15	A:408:LYS:HG2	G:2:NAG:H61	0.641
15	B:408:LYS:HG2	O:2:NAG:H61	0.641
15	B:28:ARG:CG	B:28:ARG:HH11	0.614
15	B:510:LYS:HG3	Q:2:NAG:H62	0.613
15	A:28:ARG:CG	A:28:ARG:HH11	0.612
15	A:510:LYS:HG3	I:2:NAG:H62	0.612
15	A:341:ASN:HB3	A:342:PRO:HD3	0.610
15	B:341:ASN:HB3	B:342:PRO:HD3	0.610
15	B:532:ASN:ND2	R:1:NAG:C2	0.593
15	A:532:ASN:ND2	J:1:NAG:C2	0.592
15	A:409:ASN:HD22	A:410:ASN:H	0.592
15	A:447:LEU:HB3	A:448:PRO:HD3	0.591
15	B:409:ASN:HD22	B:410:ASN:H	0.591
15	A:408:LYS:H	G:1:NAG:CT	0.585

Model ID	Atom-1	Atom-2	Clash overlap (Å)
15	B:408:LYS:H	O:1:NAG:CT	0.583
15	B:445:GLN:HE22	R:1:NAG:C2	0.576
15	A:445:GLN:HE22	J:1:NAG:C2	0.575
15	A:391:ASN:HB3	A:393:GLN:HG3	0.560
15	B:391:ASN:HB3	B:393:GLN:HG3	0.560
15	B:408:LYS:CB	O:1:NAG:O3	0.558
15	A:408:LYS:CB	G:1:NAG:O3	0.557
15	B:240:ILE:HG22	N:1:NAG:CT	0.555
15	A:240:ILE:HG22	F:1:NAG:CT	0.554
15	B:28:ARG:HG2	B:28:ARG:HH11	0.552
15	A:28:ARG:HG2	A:28:ARG:HH11	0.551
15	B:488:THR:HG22	B:491:ARG:NH2	0.548
15	A:460:ASN:OD1	H:1:NAG:H5	0.548
15	B:460:ASN:OD1	P:1:NAG:H5	0.548
15	A:488:THR:HG22	A:491:ARG:NH2	0.547
15	A:112:VAL:O	D:1:NAG:CT	0.547
15	B:112:VAL:O	L:1:NAG:CT	0.546
15	A:109:LEU:H	A:109:LEU:HD12	0.545
15	B:109:LEU:H	B:109:LEU:HD12	0.545
15	B:105:ARG:HG2	B:203:LEU:HB3	0.540
15	A:359:THR:HG22	A:393:GLN:HG2	0.536
15	B:359:THR:HG22	B:393:GLN:HG2	0.536
15	B:408:LYS:CG	O:2:NAG:O6	0.528

Model ID	Atom-1	Atom-2	Clash overlap (Å)
15	A:408:LYS:CG	G:2:NAG:O6	0.527
15	A:243:ASN:HD22	F:1:NAG:C1	0.514
15	B:243:ASN:HD22	N:1:NAG:C1	0.514
15	A:511:PHE:O	I:1:NAG:CT	0.509
15	B:511:PHE:O	Q:1:NAG:CT	0.507
15	A:498:LEU:HD21	H:1:NAG:H62	0.500
15	B:498:LEU:HD21	P:1:NAG:H62	0.499
15	A:499:ASN:N	A:499:ASN:HD22	0.499
15	B:499:ASN:N	B:499:ASN:HD22	0.497
15	B:445:GLN:HE21	R:1:NAG:C1	0.495
15	A:445:GLN:HE21	J:1:NAG:C1	0.493
15	B:28:ARG:CG	B:28:ARG:NH1	0.479
15	B:423:ILE:HB	B:424:PRO:HD3	0.479
15	A:28:ARG:CG	A:28:ARG:NH1	0.478
15	A:423:ILE:HB	A:424:PRO:HD3	0.477
15	A:243:ASN:ND2	F:1:NAG:C1	0.471
15	B:243:ASN:ND2	N:1:NAG:C1	0.471
15	A:528:PRO:HA	A:529:PRO:HD3	0.457
15	B:528:PRO:HA	B:529:PRO:HD3	0.454
15	A:77:ARG:HH21	A:91:PRO:HB2	0.451
15	B:406:ASN:O	O:1:NAG:CT	0.449
15	B:510:LYS:HB2	Q:2:NAG:O6	0.444
15	A:510:LYS:HB2	I:2:NAG:O6	0.443

Model ID	Atom-1	Atom-2	Clash overlap (Å)
15	A:341:ASN:CB	A:342:PRO:HD3	0.441
15	B:341:ASN:CB	B:342:PRO:HD3	0.441
15	B:33:SER:HB3	B:83:ILE:HD12	0.440
15	A:33:SER:HB3	A:83:ILE:HD12	0.439
15	B:110:HIS:HB3	L:1:NAG:CT	0.436
15	A:110:HIS:HB3	D:1:NAG:CT	0.435
15	A:485:SER:HA	A:486:PRO:C	0.435
15	B:485:SER:HA	B:486:PRO:C	0.435
15	A:386:LYS:HD2	A:397:ILE:HD11	0.433
15	B:386:LYS:HD2	B:397:ILE:HD11	0.431
15	A:527:ASN:HA	A:528:PRO:C	0.427
15	B:527:ASN:HA	B:528:PRO:C	0.427
15	A:378:LEU:HD12	A:417:LEU:HG	0.421
15	B:378:LEU:HD12	B:417:LEU:HG	0.421
15	B:502:PHE:HB3	P:18:FUC:H63	0.420
15	A:502:PHE:HB3	H:18:FUC:H63	0.418
15	B:231:GLU:HA	B:328:THR:O	0.413
15	A:231:GLU:HA	A:328:THR:O	0.412
15	B:423:ILE:O	B:425:PRO:HD3	0.412
15	A:423:ILE:O	A:425:PRO:HD3	0.411
15	E:13:GAL:C4	E:14:SIA:C1	0.410
15	M:13:GAL:C4	M:14:SIA:C1	0.410
15	B:510:LYS:NZ	Q:8:NAG:C	0.402

Model ID	Atom-1	Atom-2	Clash overlap (Å)
15	A:262:ARG:HH12	A:264:SER:HA	0.401
15	B:262:ARG:HH12	B:264:SER:HA	0.401
15	I:9:GAL:H4	I:10:SIA:O6	0.401
15	A:510:LYS:NZ	I:8:NAG:C	0.400
16	A:199:PRO:CG	E:2:NAG:O4	1.444
16	B:199:PRO:CG	M:2:NAG:O4	1.440
16	B:243:ASN:ND2	N:1:NAG:C1	1.432
16	A:243:ASN:ND2	F:1:NAG:C1	1.431
16	A:405:PRO:HG2	J:4:MAN:C4	1.363
16	B:405:PRO:HG2	R:4:MAN:C4	1.361
16	A:460:ASN:O	H:1:NAG:CT	1.350
16	B:460:ASN:O	P:1:NAG:CT	1.349
16	B:185:GLN:NE2	L:18:FUC:O3	1.251
16	A:185:GLN:NE2	D:18:FUC:O3	1.249
16	A:445:GLN:HG3	J:1:NAG:O6	1.247
16	B:445:GLN:HG3	R:1:NAG:O6	1.240
16	B:406:ASN:N	R:5:NAG:CT	1.224
16	A:405:PRO:CG	J:8:NAG:C1	1.198
16	B:405:PRO:CG	R:8:NAG:C1	1.197
16	A:461:SER:O	H:1:NAG:O	1.188
16	A:198:ASN:HD21	E:4:MAN:C6	1.116
16	B:198:ASN:HD21	M:4:MAN:C6	1.116
16	B:199:PRO:HG2	M:3:BMA:C1	1.109

Model ID	Atom-1	Atom-2	Clash overlap (Å)
16	A:199:PRO:HG2	E:3:BMA:C1	1.107
16	A:445:GLN:OE1	J:1:NAG:H62	1.106
16	B:445:GLN:OE1	R:1:NAG:H62	1.105
16	A:198:ASN:HD21	E:4:MAN:H62	1.103
16	B:198:ASN:HD21	M:4:MAN:H62	1.095
16	A:405:PRO:CG	J:4:MAN:H4	1.053
16	B:405:PRO:CG	R:4:MAN:H4	1.052
16	A:148:ARG:HD2	E:1:NAG:H62	1.051
16	B:148:ARG:HD2	M:1:NAG:H62	1.046
16	A:404:SER:OG	J:5:NAG:CT	1.030
16	B:405:PRO:CG	R:4:MAN:C4	1.016
16	A:405:PRO:CG	J:4:MAN:C4	1.014
16	B:199:PRO:HG3	M:2:NAG:H5	0.991
16	A:199:PRO:HG3	E:2:NAG:H5	0.986
16	A:445:GLN:CG	J:1:NAG:O6	0.978
16	B:445:GLN:CG	R:1:NAG:O6	0.976
16	B:199:PRO:HG2	M:2:NAG:C4	0.972
16	A:199:PRO:HG2	E:2:NAG:C4	0.971
16	B:406:ASN:H	R:5:NAG:CT	0.959
16	A:199:PRO:CG	E:2:NAG:C4	0.954
16	B:199:PRO:CG	M:2:NAG:C4	0.954
16	A:199:PRO:HG2	E:2:NAG:O4	0.953
16	B:199:PRO:HG2	M:2:NAG:O4	0.952



Model ID	Atom-1	Atom-2	Clash overlap (Å)
16	A:148:ARG:HH21	E:2:NAG:CT	0.950
16	B:148:ARG:HH21	M:2:NAG:CT	0.949
16	B:511:PHE:CB	Q:18:FUC:C1	0.932
16	A:511:PHE:CB	I:18:FUC:C1	0.931
16	A:185:GLN:CD	D:18:FUC:O3	0.929
16	B:185:GLN:CD	L:18:FUC:O3	0.927
16	A:405:PRO:HG3	J:8:NAG:C1	0.924
16	B:405:PRO:HG3	R:8:NAG:C1	0.924
16	A:405:PRO:HG2	J:4:MAN:H4	0.917
16	B:405:PRO:HG2	R:4:MAN:H4	0.917
16	A:243:ASN:HD22	F:1:NAG:C1	0.911
16	B:243:ASN:HD22	N:1:NAG:C1	0.907
16	A:198:ASN:ND2	E:4:MAN:H62	0.895
16	B:198:ASN:ND2	M:4:MAN:H62	0.895
16	B:199:PRO:HG3	M:2:NAG:C5	0.881
16	A:199:PRO:HG3	E:2:NAG:C5	0.880
16	B:445:GLN:OE1	R:1:NAG:C6	0.880
16	A:445:GLN:OE1	J:1:NAG:C6	0.875
16	A:185:GLN:CD	D:18:FUC:HO3	0.873
16	B:185:GLN:CD	L:18:FUC:HO3	0.873
16	B:406:ASN:HB2	R:5:NAG:CT	0.872
16	A:461:SER:O	H:1:NAG:C	0.864
16	B:405:PRO:CB	R:8:NAG:C1	0.862

Model ID	Atom-1	Atom-2	Clash overlap (Å)
16	A:405:PRO:CB	J:8:NAG:C1	0.861
16	B:243:ASN:HD21	N:1:NAG:C1	0.861
16	B:185:GLN:NE2	L:18:FUC:HO3	0.861
16	A:243:ASN:HD21	F:1:NAG:C1	0.860
16	A:185:GLN:NE2	D:18:FUC:HO3	0.856
16	A:445:GLN:HG3	J:18:FUC:C1	0.855
16	B:445:GLN:HG3	R:18:FUC:C1	0.854
16	A:501:ASP:OD2	A:502:PHE:HD2	0.837
16	B:501:ASP:OD2	B:502:PHE:HD2	0.835
16	A:460:ASN:C	H:1:NAG:CT	0.816
16	B:460:ASN:C	P:1:NAG:CT	0.815
16	A:405:PRO:HG2	J:8:NAG:C1	0.812
16	B:405:PRO:HG2	R:8:NAG:C1	0.811
16	A:199:PRO:CG	E:2:NAG:H5	0.810
16	B:199:PRO:CG	M:2:NAG:H5	0.810
16	B:405:PRO:CG	R:4:MAN:O4	0.803
16	A:405:PRO:CG	J:4:MAN:O4	0.802
16	A:199:PRO:HG3	E:2:NAG:C4	0.798
16	B:199:PRO:HG3	M:2:NAG:C4	0.797
16	B:198:ASN:ND2	M:4:MAN:C6	0.797
16	A:198:ASN:ND2	E:4:MAN:C6	0.796
16	A:199:PRO:CG	E:2:NAG:C5	0.790
16	B:199:PRO:CG	M:2:NAG:C5	0.789

Model ID	Atom-1	Atom-2	Clash overlap (Å)
16	A:166:ASN:HD22	E:1:NAG:C1	0.787
16	B:166:ASN:HD22	M:1:NAG:C1	0.786
16	A:405:PRO:HG2	J:4:MAN:O4	0.779
16	B:405:PRO:HG2	R:4:MAN:O4	0.778
16	B:112:VAL:CG1	L:18:FUC:H61	0.773
16	A:112:VAL:CG1	D:18:FUC:H61	0.772
16	A:200:THR:HG21	E:4:MAN:H3	0.768
16	B:200:THR:HG21	M:4:MAN:H3	0.767
16	A:499:ASN:H	A:499:ASN:HD22	0.765
16	B:499:ASN:HD21	B:502:PHE:HB2	0.764
16	A:499:ASN:HD21	A:502:PHE:HB2	0.763
16	B:499:ASN:H	B:499:ASN:HD22	0.762
16	B:112:VAL:HG13	L:18:FUC:H61	0.761
16	B:148:ARG:NH2	M:2:NAG:CT	0.761
16	A:112:VAL:HG13	D:18:FUC:H61	0.760
16	A:148:ARG:NH2	E:2:NAG:CT	0.760
16	A:501:ASP:OD2	A:502:PHE:CD2	0.756
16	B:148:ARG:CD	M:1:NAG:H62	0.755
16	B:501:ASP:OD2	B:502:PHE:CD2	0.754
16	A:148:ARG:CD	E:1:NAG:H62	0.753
16	B:114:ASN:OD1	L:18:FUC:H5	0.751
16	B:198:ASN:CG	M:8:NAG:CT	0.749
16	A:198:ASN:CG	E:8:NAG:CT	0.748

Model ID	Atom-1	Atom-2	Clash overlap (Å)
16	A:405:PRO:HB3	J:8:NAG:C1	0.748
16	B:405:PRO:HB3	R:8:NAG:C1	0.748
16	A:114:ASN:OD1	D:18:FUC:H5	0.748
16	A:405:PRO:HD2	J:5:NAG:CT	0.744
16	B:405:PRO:HD2	R:5:NAG:CT	0.743
16	A:405:PRO:C	J:5:NAG:CT	0.715
16	B:405:PRO:C	R:5:NAG:CT	0.715
16	A:148:ARG:NE	E:1:NAG:H61	0.706
16	A:405:PRO:HG3	J:8:NAG:N	0.704
16	B:405:PRO:HG3	R:8:NAG:N	0.704
16	B:148:ARG:NE	M:1:NAG:H61	0.704
16	A:461:SER:C	H:1:NAG:CT	0.696
16	A:498:LEU:HB2	A:502:PHE:O	0.691
16	B:498:LEU:HB2	B:502:PHE:O	0.690
16	A:445:GLN:HG3	J:1:NAG:C6	0.675
16	B:499:ASN:N	B:499:ASN:ND2	0.675
16	B:445:GLN:HG3	R:1:NAG:C6	0.674
16	A:499:ASN:N	A:499:ASN:ND2	0.674
16	A:499:ASN:H	A:499:ASN:ND2	0.671
16	B:499:ASN:H	B:499:ASN:ND2	0.669
16	B:445:GLN:CG	R:1:NAG:C6	0.667
16	A:445:GLN:CG	J:1:NAG:C6	0.663
16	A:461:SER:CA	H:1:NAG:CT	0.648

Model ID	Atom-1	Atom-2	Clash overlap (Å)
16	A:198:ASN:ND2	E:4:MAN:O6	0.648
16	B:198:ASN:ND2	M:4:MAN:O6	0.648
16	A:532:ASN:ND2	J:1:NAG:C1	0.641
16	B:532:ASN:ND2	R:1:NAG:C1	0.641
16	A:488:THR:HA	I:1:NAG:CT	0.634
16	B:488:THR:HA	Q:1:NAG:CT	0.634
16	B:405:PRO:HG3	R:4:MAN:O4	0.632
16	A:405:PRO:HG3	J:4:MAN:O4	0.629
16	B:28:ARG:CG	B:28:ARG:HH11	0.614
16	A:28:ARG:CG	A:28:ARG:HH11	0.612
16	A:405:PRO:CD	J:5:NAG:CT	0.612
16	B:405:PRO:CD	R:5:NAG:CT	0.612
16	A:491:ARG:NE	I:1:NAG:N	0.612
16	A:341:ASN:HB3	A:342:PRO:HD3	0.610
16	B:341:ASN:HB3	B:342:PRO:HD3	0.610
16	B:491:ARG:NE	Q:1:NAG:N	0.610
16	A:405:PRO:N	J:5:NAG:CT	0.608
16	B:199:PRO:CB	M:2:NAG:O4	0.608
16	B:405:PRO:N	R:5:NAG:CT	0.607
16	B:406:ASN:CB	R:5:NAG:CT	0.605
16	A:461:SER:O	H:1:NAG:CT	0.604
16	B:148:ARG:HE	M:1:NAG:H61	0.604
16	A:148:ARG:HE	E:1:NAG:H61	0.603

Model ID	Atom-1	Atom-2	Clash overlap (Å)
16	A:409:ASN:HD22	A:410:ASN:H	0.592
16	A:447:LEU:HB3	A:448:PRO:HD3	0.591
16	B:409:ASN:HD22	B:410:ASN:H	0.591
16	A:148:ARG:NE	E:1:NAG:C6	0.582
16	B:148:ARG:NE	M:1:NAG:C6	0.582
16	A:391:ASN:HB3	A:393:GLN:HG3	0.560
16	B:391:ASN:HB3	B:393:GLN:HG3	0.560
16	I:14:SIA:H91	I:14:SIA:O6	0.557
16	Q:14:SIA:H91	Q:14:SIA:O6	0.557
16	B:28:ARG:HG2	B:28:ARG:HH11	0.552
16	A:28:ARG:HG2	A:28:ARG:HH11	0.551
16	B:488:THR:HG22	B:491:ARG:NH2	0.548
16	A:488:THR:HG22	A:491:ARG:NH2	0.547
16	A:109:LEU:H	A:109:LEU:HD12	0.545
16	B:109:LEU:H	B:109:LEU:HD12	0.545
16	B:105:ARG:HG2	B:203:LEU:HB3	0.540
16	A:467:LEU:O	J:18:FUC:H4	0.540
16	B:467:LEU:O	R:18:FUC:H4	0.538
16	A:359:THR:HG22	A:393:GLN:HG2	0.536
16	B:359:THR:HG22	B:393:GLN:HG2	0.536
16	A:461:SER:HA	H:1:NAG:CT	0.533
16	A:199:PRO:CB	E:2:NAG:O4	0.533
16	B:243:ASN:ND2	N:1:NAG:O5	0.531

Model ID	Atom-1	Atom-2	Clash overlap (Å)
16	A:243:ASN:ND2	F:1:NAG:O5	0.528
16	B:30:LYS:HB3	K:1:NAG:CT	0.517
16	A:30:LYS:HB3	C:1:NAG:CT	0.516
16	A:199:PRO:HG3	E:2:NAG:H3	0.502
16	B:199:PRO:HG3	M:2:NAG:H3	0.501
16	A:148:ARG:CD	E:1:NAG:C6	0.500
16	A:148:ARG:HD2	E:1:NAG:C6	0.500
16	B:148:ARG:HD2	M:1:NAG:C6	0.500
16	B:148:ARG:CD	M:1:NAG:C6	0.499
16	B:406:ASN:CA	R:5:NAG:CT	0.499
16	A:499:ASN:N	A:499:ASN:HD22	0.499
16	B:499:ASN:N	B:499:ASN:HD22	0.497
16	A:166:ASN:HD21	E:1:NAG:C	0.486
16	B:166:ASN:HD21	M:1:NAG:C	0.486
16	B:166:ASN:ND2	M:1:NAG:C	0.482
16	A:166:ASN:ND2	E:1:NAG:C	0.480
16	B:28:ARG:CG	B:28:ARG:NH1	0.479
16	B:423:ILE:HB	B:424:PRO:HD3	0.479
16	A:28:ARG:CG	A:28:ARG:NH1	0.478
16	A:423:ILE:HB	A:424:PRO:HD3	0.477
16	B:405:PRO:HB3	R:8:NAG:H3	0.477
16	A:405:PRO:HB3	J:8:NAG:H3	0.476
16	A:199:PRO:HG3	E:2:NAG:C3	0.473

Model ID	Atom-1	Atom-2	Clash overlap (Å)
16	B:199:PRO:HG3	M:2:NAG:C3	0.473
16	A:185:GLN:HE22	D:18:FUC:HO3	0.466
16	A:488:THR:CB	I:1:NAG:CT	0.465
16	B:488:THR:CB	Q:1:NAG:CT	0.465
16	A:198:ASN:OD1	E:8:NAG:CT	0.462
16	B:198:ASN:OD1	M:8:NAG:CT	0.461
16	A:148:ARG:HH21	E:2:NAG:C	0.460
16	B:148:ARG:HH21	M:2:NAG:C	0.460
16	A:528:PRO:HA	A:529:PRO:HD3	0.457
16	B:199:PRO:HG2	M:3:BMA:C2	0.457
16	A:199:PRO:HG2	E:3:BMA:C2	0.454
16	B:528:PRO:HA	B:529:PRO:HD3	0.454
16	A:77:ARG:HH21	A:91:PRO:HB2	0.451
16	A:341:ASN:CB	A:342:PRO:HD3	0.441
16	B:341:ASN:CB	B:342:PRO:HD3	0.441
16	A:166:ASN:ND2	E:1:NAG:C1	0.441
16	B:33:SER:HB3	B:83:ILE:HD12	0.440
16	A:33:SER:HB3	A:83:ILE:HD12	0.439
16	B:166:ASN:ND2	M:1:NAG:C1	0.439
16	A:166:ASN:ND2	E:1:NAG:N	0.438
16	B:166:ASN:ND2	M:1:NAG:N	0.438
16	A:485:SER:HA	A:486:PRO:C	0.435
16	B:405:PRO:HG3	R:8:NAG:C2	0.435



Model ID	Atom-1	Atom-2	Clash overlap (Å)
16	B:485:SER:HA	B:486:PRO:C	0.435
16	A:405:PRO:HG3	J:8:NAG:C2	0.434
16	A:386:LYS:HD2	A:397:ILE:HD11	0.433
16	A:488:THR:CA	I:1:NAG:CT	0.432
16	B:386:LYS:HD2	B:397:ILE:HD11	0.431
16	B:488:THR:CA	Q:1:NAG:CT	0.431
16	A:527:ASN:HA	A:528:PRO:C	0.427
16	B:527:ASN:HA	B:528:PRO:C	0.427
16	A:488:THR:HG22	I:1:NAG:CT	0.426
16	B:488:THR:HG22	Q:1:NAG:CT	0.426
16	A:200:THR:CG2	E:4:MAN:H3	0.426
16	A:488:THR:HB	I:1:NAG:CT	0.425
16	B:488:THR:HB	Q:1:NAG:CT	0.424
16	B:199:PRO:CG	M:2:NAG:H3	0.423
16	B:200:THR:CG2	M:4:MAN:H3	0.423
16	A:199:PRO:CG	E:2:NAG:H3	0.422
16	A:378:LEU:HD12	A:417:LEU:HG	0.421
16	B:378:LEU:HD12	B:417:LEU:HG	0.421
16	A:199:PRO:HD3	E:2:NAG:H61	0.414
16	A:199:PRO:CG	E:2:NAG:C3	0.413
16	B:199:PRO:CG	M:2:NAG:C3	0.413
16	B:199:PRO:HD3	M:2:NAG:H61	0.413
16	B:231:GLU:HA	B:328:THR:O	0.413

Model ID	Atom-1	Atom-2	Clash overlap (Å)
16	A:200:THR:CG2	E:3:BMA:O2	0.412
16	A:231:GLU:HA	A:328:THR:O	0.412
16	B:200:THR:CG2	M:3:BMA:O2	0.412
16	B:423:ILE:O	B:425:PRO:HD3	0.412
16	A:423:ILE:O	A:425:PRO:HD3	0.411
16	B:199:PRO:HD2	M:3:BMA:H2	0.409
16	A:199:PRO:HD2	E:3:BMA:H2	0.408
16	A:262:ARG:HH12	A:264:SER:HA	0.401
16	B:262:ARG:HH12	B:264:SER:HA	0.401
17	A:433:GLN:HE22	G:18:FUC:C5	1.480
17	B:433:GLN:HE22	O:18:FUC:C5	1.478
17	A:114:ASN:ND2	D:1:NAG:C1	1.433
17	B:114:ASN:ND2	L:1:NAG:C1	1.433
17	A:243:ASN:ND2	F:1:NAG:C1	1.300
17	B:243:ASN:ND2	N:1:NAG:C1	1.298
17	B:433:GLN:NE2	O:18:FUC:H5	1.288
17	A:433:GLN:NE2	G:18:FUC:H5	1.287
17	B:243:ASN:HD22	N:1:NAG:C1	1.259
17	A:243:ASN:HD22	F:1:NAG:C1	1.230
17	A:445:GLN:HE22	J:1:NAG:C1	1.217
17	B:445:GLN:HE22	R:1:NAG:C1	1.215
17	B:463:ASN:HD22	P:1:NAG:C1	1.171
17	A:463:ASN:HD22	H:1:NAG:C1	1.170

Model ID	Atom-1	Atom-2	Clash overlap (Å)
17	A:433:GLN:NE2	G:18:FUC:C5	1.135
17	B:433:GLN:NE2	O:18:FUC:C5	1.133
17	A:433:GLN:OE1	G:18:FUC:H61	1.123
17	B:433:GLN:OE1	O:18:FUC:H61	1.120
17	B:445:GLN:NE2	R:1:NAG:C1	1.060
17	A:445:GLN:NE2	J:1:NAG:C1	1.058
17	B:433:GLN:HE22	O:18:FUC:H5	1.031
17	B:114:ASN:HD22	L:1:NAG:C1	1.029
17	A:433:GLN:HE22	G:18:FUC:H5	1.028
17	B:532:ASN:ND2	R:1:NAG:C1	1.027
17	A:532:ASN:ND2	J:1:NAG:C1	1.026
17	A:114:ASN:HD22	D:1:NAG:C1	1.023
17	A:511:PHE:CB	I:18:FUC:O4	1.008
17	B:511:PHE:CB	Q:18:FUC:O4	1.008
17	A:433:GLN:NE2	G:18:FUC:C6	0.980
17	B:433:GLN:NE2	O:18:FUC:C6	0.977
17	B:280:SER:HB2	N:18:FUC:H63	0.969
17	B:433:GLN:OE1	O:18:FUC:C6	0.968
17	A:433:GLN:OE1	G:18:FUC:C6	0.967
17	B:114:ASN:HD21	L:1:NAG:C1	0.966
17	A:280:SER:HB2	F:18:FUC:H63	0.965
17	A:114:ASN:HD21	D:1:NAG:C1	0.961
17	B:433:GLN:CD	O:18:FUC:C6	0.957

Model ID	Atom-1	Atom-2	Clash overlap (Å)
17	A:433:GLN:CD	G:18:FUC:C6	0.956
17	A:463:ASN:ND2	H:1:NAG:C1	0.892
17	B:463:ASN:ND2	P:1:NAG:C1	0.891
17	A:433:GLN:NE2	G:18:FUC:H62	0.888
17	B:433:GLN:NE2	O:18:FUC:H62	0.887
17	A:512:GLU:OE1	I:15:NAG:O6	0.877
17	A:433:GLN:HE22	G:18:FUC:C4	0.876
17	B:433:GLN:HE22	O:18:FUC:C4	0.876
17	B:512:GLU:OE1	Q:15:NAG:O6	0.876
17	A:433:GLN:HE22	G:18:FUC:C6	0.854
17	B:433:GLN:HE22	O:18:FUC:C6	0.851
17	A:532:ASN:HD21	J:1:NAG:C1	0.838
17	A:501:ASP:OD2	A:502:PHE:HD2	0.837
17	B:501:ASP:OD2	B:502:PHE:HD2	0.835
17	B:532:ASN:HD21	R:1:NAG:C1	0.835
17	A:445:GLN:CD	J:1:NAG:C1	0.821
17	B:445:GLN:CD	R:1:NAG:C1	0.821
17	A:243:ASN:HD21	F:1:NAG:C1	0.816
17	B:243:ASN:HD21	N:1:NAG:C1	0.812
17	B:433:GLN:CD	O:18:FUC:H62	0.778
17	A:433:GLN:CD	G:18:FUC:H62	0.776
17	A:499:ASN:H	A:499:ASN:HD22	0.765
17	B:499:ASN:HD21	B:502:PHE:HB2	0.764

Model ID	Atom-1	Atom-2	Clash overlap (Å)
17	A:499:ASN:HD21	A:502:PHE:HB2	0.763
17	B:499:ASN:H	B:499:ASN:HD22	0.762
17	A:501:ASP:OD2	A:502:PHE:CD2	0.756
17	B:501:ASP:OD2	B:502:PHE:CD2	0.754
17	B:280:SER:CB	N:18:FUC:H63	0.741
17	A:280:SER:CB	F:18:FUC:H63	0.740
17	B:512:GLU:OE1	Q:15:NAG:C6	0.737
17	A:512:GLU:OE1	I:15:NAG:C6	0.736
17	A:532:ASN:OD1	J:18:FUC:H61	0.720
17	B:532:ASN:OD1	R:18:FUC:H61	0.719
17	A:532:ASN:HD22	J:1:NAG:C1	0.713
17	B:532:ASN:HD22	R:1:NAG:C1	0.711
17	A:433:GLN:CD	G:18:FUC:H5	0.705
17	B:433:GLN:CD	O:18:FUC:H5	0.705
17	A:512:GLU:OE2	I:15:NAG:H62	0.692
17	B:512:GLU:OE2	Q:15:NAG:H62	0.692
17	A:498:LEU:HB2	A:502:PHE:O	0.691
17	B:498:LEU:HB2	B:502:PHE:O	0.690
17	A:532:ASN:OD1	J:18:FUC:C6	0.685
17	B:532:ASN:OD1	R:18:FUC:C6	0.684
17	B:114:ASN:ND2	L:1:NAG:O5	0.684
17	A:114:ASN:ND2	D:1:NAG:O5	0.681
17	B:499:ASN:N	B:499:ASN:ND2	0.675

Model ID	Atom-1	Atom-2	Clash overlap (Å)
17	A:499:ASN:N	A:499:ASN:ND2	0.674
17	A:499:ASN:H	A:499:ASN:ND2	0.671
17	B:499:ASN:H	B:499:ASN:ND2	0.669
17	A:166:ASN:HD22	E:1:NAG:C1	0.662
17	B:166:ASN:HD22	M:1:NAG:C1	0.660
17	A:413:ASN:ND2	G:1:NAG:C1	0.640
17	A:532:ASN:ND2	J:1:NAG:O5	0.635
17	B:532:ASN:ND2	R:1:NAG:O5	0.635
17	B:28:ARG:CG	B:28:ARG:HH11	0.614
17	A:28:ARG:CG	A:28:ARG:HH11	0.612
17	A:341:ASN:HB3	A:342:PRO:HD3	0.610
17	B:341:ASN:HB3	B:342:PRO:HD3	0.610
17	A:413:ASN:CG	G:1:NAG:C1	0.607
17	A:409:ASN:HD22	A:410:ASN:H	0.592
17	A:447:LEU:HB3	A:448:PRO:HD3	0.591
17	B:409:ASN:HD22	B:410:ASN:H	0.591
17	A:243:ASN:ND2	F:1:NAG:O5	0.579
17	B:243:ASN:ND2	N:1:NAG:O5	0.579
17	A:391:ASN:HB3	A:393:GLN:HG3	0.560
17	B:391:ASN:HB3	B:393:GLN:HG3	0.560
17	B:28:ARG:HG2	B:28:ARG:HH11	0.552
17	A:28:ARG:HG2	A:28:ARG:HH11	0.551
17	A:166:ASN:ND2	E:1:NAG:C1	0.551

Model ID	Atom-1	Atom-2	Clash overlap (Å)
17	B:166:ASN:ND2	M:1:NAG:C1	0.550
17	B:488:THR:HG22	B:491:ARG:NH2	0.548
17	A:488:THR:HG22	A:491:ARG:NH2	0.547
17	A:109:LEU:H	A:109:LEU:HD12	0.545
17	B:109:LEU:H	B:109:LEU:HD12	0.545
17	B:105:ARG:HG2	B:203:LEU:HB3	0.540
17	A:359:THR:HG22	A:393:GLN:HG2	0.536
17	B:359:THR:HG22	B:393:GLN:HG2	0.536
17	A:499:ASN:N	A:499:ASN:HD22	0.499
17	B:499:ASN:N	B:499:ASN:HD22	0.497
17	A:433:GLN:HE22	G:18:FUC:H4	0.488
17	B:433:GLN:HE22	O:18:FUC:H4	0.484
17	B:28:ARG:CG	B:28:ARG:NH1	0.479
17	B:423:ILE:HB	B:424:PRO:HD3	0.479
17	A:28:ARG:CG	A:28:ARG:NH1	0.478
17	A:423:ILE:HB	A:424:PRO:HD3	0.477
17	A:433:GLN:NE2	G:18:FUC:H4	0.475
17	B:433:GLN:NE2	O:18:FUC:H4	0.475
17	B:433:GLN:CD	O:18:FUC:C5	0.462
17	A:528:PRO:HA	A:529:PRO:HD3	0.457
17	B:528:PRO:HA	B:529:PRO:HD3	0.454
17	B:512:GLU:CD	Q:15:NAG:H62	0.452
17	A:77:ARG:HH21	A:91:PRO:HB2	0.451

Model ID	Atom-1	Atom-2	Clash overlap (Å)
17	A:433:GLN:CD	G:18:FUC:C5	0.451
17	A:512:GLU:CD	I:15:NAG:H62	0.451
17	A:512:GLU:CD	I:15:NAG:C6	0.447
17	B:512:GLU:CD	Q:15:NAG:C6	0.447
17	B:535:ILE:N	R:1:NAG:O	0.443
17	A:535:ILE:N	J:1:NAG:O	0.442
17	A:341:ASN:CB	A:342:PRO:HD3	0.441
17	B:341:ASN:CB	B:342:PRO:HD3	0.441
17	B:33:SER:HB3	B:83:ILE:HD12	0.440
17	A:33:SER:HB3	A:83:ILE:HD12	0.439
17	A:485:SER:HA	A:486:PRO:C	0.435
17	B:485:SER:HA	B:486:PRO:C	0.435
17	A:386:LYS:HD2	A:397:ILE:HD11	0.433
17	A:488:THR:HB	I:1:NAG:N	0.432
17	B:386:LYS:HD2	B:397:ILE:HD11	0.431
17	B:488:THR:HB	Q:1:NAG:N	0.430
17	A:527:ASN:HA	A:528:PRO:C	0.427
17	B:527:ASN:HA	B:528:PRO:C	0.427
17	A:378:LEU:HD12	A:417:LEU:HG	0.421
17	B:378:LEU:HD12	B:417:LEU:HG	0.421
17	A:461:SER:O	H:1:NAG:CT	0.418
17	B:231:GLU:HA	B:328:THR:O	0.413
17	A:231:GLU:HA	A:328:THR:O	0.412



Model ID	Atom-1	Atom-2	Clash overlap (Å)
17	B:423:ILE:O	B:425:PRO:HD3	0.412
17	A:423:ILE:O	A:425:PRO:HD3	0.411
17	Q:13:GAL:C4	Q:14:SIA:C1	0.408
17	I:13:GAL:C4	I:14:SIA:C1	0.407
17	M:10:SIA:H6	M:10:SIA:O	0.402
17	A:262:ARG:HH12	A:264:SER:HA	0.401
17	B:262:ARG:HH12	B:264:SER:HA	0.401
18	A:199:PRO:HG2	E:2:NAG:C3	1.464
18	B:199:PRO:HG2	M:2:NAG:C3	1.459
18	A:199:PRO:CG	E:2:NAG:C3	1.364
18	B:199:PRO:CG	M:2:NAG:C3	1.363
18	A:199:PRO:CG	E:2:NAG:H4	1.304
18	B:199:PRO:CG	M:2:NAG:H4	1.303
18	A:148:ARG:HB3	E:1:NAG:C	1.277
18	B:148:ARG:HB3	M:1:NAG:C	1.275
18	A:199:PRO:HG2	E:2:NAG:O3	1.262
18	B:199:PRO:HG2	M:2:NAG:O3	1.259
18	B:199:PRO:HD3	M:2:NAG:O	1.231
18	A:199:PRO:CG	E:2:NAG:C2	1.227
18	A:199:PRO:HG3	E:2:NAG:C2	1.226
18	A:199:PRO:HD3	E:2:NAG:O	1.225
18	B:199:PRO:CG	M:2:NAG:C2	1.225
18	B:502:PHE:CG	P:18:FUC:C6	1.205

Model ID	Atom-1	Atom-2	Clash overlap (Å)
18	A:502:PHE:CG	H:18:FUC:C6	1.204
18	B:199:PRO:CG	M:2:NAG:C4	1.201
18	A:199:PRO:CG	E:2:NAG:C4	1.200
18	A:114:ASN:ND2	D:1:NAG:C1	1.199
18	B:114:ASN:ND2	L:1:NAG:C1	1.199
18	A:502:PHE:CB	H:18:FUC:C6	1.180
18	B:199:PRO:HG3	M:2:NAG:C2	1.180
18	B:502:PHE:CB	P:18:FUC:C6	1.180
18	A:502:PHE:CG	H:18:FUC:H62	1.156
18	B:502:PHE:CG	P:18:FUC:H62	1.154
18	B:148:ARG:HB3	M:1:NAG:O	1.135
18	A:148:ARG:HB3	E:1:NAG:O	1.133
18	A:502:PHE:HB2	H:18:FUC:H63	1.070
18	B:502:PHE:HB2	P:18:FUC:H63	1.069
18	B:199:PRO:CB	M:2:NAG:H4	1.030
18	A:199:PRO:CB	E:2:NAG:H4	1.029
18	A:199:PRO:CG	E:2:NAG:O3	0.996
18	B:199:PRO:CG	M:2:NAG:O3	0.992
18	B:502:PHE:HB3	P:18:FUC:H61	0.980
18	A:502:PHE:HB3	H:18:FUC:H61	0.979
18	B:502:PHE:CB	P:18:FUC:H61	0.974
18	A:502:PHE:CB	H:18:FUC:H61	0.973
18	B:199:PRO:HG2	M:2:NAG:C4	0.971

Model ID	Atom-1	Atom-2	Clash overlap (Å)
18	A:199:PRO:HG2	E:2:NAG:C4	0.967
18	B:198:ASN:HA	M:2:NAG:O	0.963
18	A:198:ASN:HA	E:2:NAG:O	0.961
18	A:499:ASN:OD1	H:18:FUC:O4	0.961
18	B:499:ASN:OD1	P:18:FUC:O4	0.961
18	A:199:PRO:CD	E:2:NAG:O	0.948
18	B:199:PRO:CD	M:2:NAG:O	0.948
18	A:199:PRO:HG3	E:2:NAG:C4	0.946
18	B:199:PRO:HG3	M:2:NAG:C4	0.942
18	A:199:PRO:CD	E:2:NAG:C2	0.906
18	B:199:PRO:CD	M:2:NAG:C2	0.906
18	B:148:ARG:CB	M:1:NAG:CT	0.880
18	A:148:ARG:CB	E:1:NAG:CT	0.879
18	B:502:PHE:CD2	P:18:FUC:H62	0.868
18	A:502:PHE:CD2	H:18:FUC:H62	0.866
18	A:199:PRO:HD3	E:2:NAG:C2	0.856
18	B:199:PRO:HD3	M:2:NAG:C2	0.856
18	B:199:PRO:HD3	M:2:NAG:C	0.852
18	A:199:PRO:HG3	E:2:NAG:H4	0.850
18	A:199:PRO:HD3	E:2:NAG:C	0.850
18	B:199:PRO:HG3	M:2:NAG:H4	0.845
18	B:114:ASN:ND2	L:1:NAG:O5	0.841
18	A:114:ASN:ND2	D:1:NAG:O5	0.838

Model ID	Atom-1	Atom-2	Clash overlap (Å)
18	A:501:ASP:OD2	A:502:PHE:HD2	0.837
18	B:501:ASP:OD2	B:502:PHE:HD2	0.835
18	B:148:ARG:CB	M:1:NAG:C	0.834
18	A:148:ARG:CB	E:1:NAG:C	0.831
18	A:148:ARG:HB3	E:1:NAG:CT	0.829
18	B:148:ARG:HB3	M:1:NAG:CT	0.829
18	A:199:PRO:HB3	E:2:NAG:H4	0.812
18	B:199:PRO:HB3	M:2:NAG:H4	0.812
18	B:502:PHE:CB	P:18:FUC:H63	0.799
18	A:502:PHE:CB	H:18:FUC:H63	0.798
18	A:199:PRO:HG3	E:2:NAG:C3	0.793
18	B:199:PRO:HG3	M:2:NAG:C3	0.789
18	A:499:ASN:H	A:499:ASN:HD22	0.765
18	B:499:ASN:HD21	B:502:PHE:HB2	0.764
18	A:499:ASN:HD21	A:502:PHE:HB2	0.763
18	B:499:ASN:H	B:499:ASN:HD22	0.762
18	A:501:ASP:OD2	A:502:PHE:CD2	0.756
18	B:501:ASP:OD2	B:502:PHE:CD2	0.754
18	A:463:ASN:ND2	H:1:NAG:C1	0.752
18	B:463:ASN:ND2	P:1:NAG:C1	0.751
18	A:383:ASN:HB3	J:14:SIA:H91	0.739
18	B:383:ASN:HB3	R:14:SIA:H91	0.737
18	A:114:ASN:HD22	D:1:NAG:C1	0.728

Model ID	Atom-1	Atom-2	Clash overlap (Å)
18	B:114:ASN:HD22	L:1:NAG:C1	0.726
18	A:148:ARG:HD2	E:1:NAG:C	0.722
18	B:148:ARG:HD2	M:1:NAG:C	0.720
18	A:498:LEU:HB2	A:502:PHE:O	0.691
18	B:498:LEU:HB2	B:502:PHE:O	0.690
18	A:383:ASN:CB	J:14:SIA:H91	0.689
18	B:383:ASN:CB	R:14:SIA:H91	0.689
18	B:502:PHE:CD2	P:18:FUC:C6	0.684
18	B:499:ASN:N	B:499:ASN:ND2	0.675
18	A:499:ASN:N	A:499:ASN:ND2	0.674
18	A:502:PHE:CG	H:18:FUC:H61	0.672
18	A:409:ASN:H	G:1:NAG:CT	0.672
18	A:499:ASN:H	A:499:ASN:ND2	0.671
18	B:409:ASN:H	O:1:NAG:CT	0.670
18	B:502:PHE:CG	P:18:FUC:H61	0.669
18	B:499:ASN:H	B:499:ASN:ND2	0.669
18	B:114:ASN:HD21	L:1:NAG:C1	0.667
18	A:114:ASN:HD21	D:1:NAG:C1	0.661
18	B:498:LEU:HD23	P:18:FUC:O5	0.643
18	A:397:ILE:HG23	J:14:SIA:O12	0.642
18	A:498:LEU:HD23	H:18:FUC:O5	0.642
18	B:397:ILE:HG23	R:14:SIA:O12	0.642
18	B:409:ASN:N	O:1:NAG:CT	0.638

Model ID	Atom-1	Atom-2	Clash overlap (Å)
18	A:409:ASN:N	G:1:NAG:CT	0.637
18	A:148:ARG:HH21	E:2:NAG:H62	0.628
18	B:148:ARG:HH21	M:2:NAG:H62	0.627
18	B:408:LYS:N	O:1:NAG:CT	0.623
18	A:408:LYS:N	G:1:NAG:CT	0.622
18	B:148:ARG:CB	M:1:NAG:O	0.622
18	A:148:ARG:NH2	E:2:NAG:H62	0.617
18	B:148:ARG:NH2	M:2:NAG:H62	0.617
18	B:28:ARG:CG	B:28:ARG:HH11	0.614
18	A:28:ARG:CG	A:28:ARG:HH11	0.612
18	A:341:ASN:HB3	A:342:PRO:HD3	0.610
18	B:341:ASN:HB3	B:342:PRO:HD3	0.610
18	A:502:PHE:CD2	H:18:FUC:C6	0.592
18	A:409:ASN:HD22	A:410:ASN:H	0.592
18	A:447:LEU:HB3	A:448:PRO:HD3	0.591
18	B:409:ASN:HD22	B:410:ASN:H	0.591
18	B:502:PHE:CD1	P:18:FUC:H62	0.583
18	A:502:PHE:CD1	H:18:FUC:H62	0.581
18	A:391:ASN:HB3	A:393:GLN:HG3	0.560
18	B:391:ASN:HB3	B:393:GLN:HG3	0.560
18	B:397:ILE:CG2	R:14:SIA:O12	0.557
18	B:502:PHE:HB2	P:18:FUC:C6	0.557
18	A:397:ILE:CG2	J:14:SIA:O12	0.555

Model ID	Atom-1	Atom-2	Clash overlap (Å)
18	A:498:LEU:CD2	H:1:NAG:H62	0.554
18	B:498:LEU:CD2	P:1:NAG:H62	0.554
18	B:28:ARG:HG2	B:28:ARG:HH11	0.552
18	A:28:ARG:HG2	A:28:ARG:HH11	0.551
18	A:502:PHE:HB2	H:18:FUC:C6	0.550
18	A:408:LYS:HB2	G:1:NAG:O	0.549
18	B:408:LYS:HB2	O:1:NAG:O	0.549
18	B:488:THR:HG22	B:491:ARG:NH2	0.548
18	A:488:THR:HG22	A:491:ARG:NH2	0.547
18	A:109:LEU:H	A:109:LEU:HD12	0.545
18	B:109:LEU:H	B:109:LEU:HD12	0.545
18	B:105:ARG:HG2	B:203:LEU:HB3	0.540
18	A:383:ASN:HB3	J:14:SIA:C9	0.537
18	B:383:ASN:HB3	R:14:SIA:C9	0.537
18	A:359:THR:HG22	A:393:GLN:HG2	0.536
18	B:359:THR:HG22	B:393:GLN:HG2	0.536
18	B:498:LEU:HD21	P:1:NAG:H62	0.534
18	A:498:LEU:HD21	H:1:NAG:H62	0.533
18	B:279:ASN:CB	N:17:SIA:O9	0.530
18	A:279:ASN:CB	F:17:SIA:O9	0.529
18	E:7:SIA:H91	E:7:SIA:O6	0.521
18	M:7:SIA:H91	M:7:SIA:O6	0.521
18	A:148:ARG:CB	E:1:NAG:O	0.520

Model ID	Atom-1	Atom-2	Clash overlap (Å)
18	A:498:LEU:HD23	H:18:FUC:C1	0.514
18	B:498:LEU:HD23	P:18:FUC:C1	0.514
18	B:199:PRO:HD3	M:2:NAG:N	0.509
18	A:199:PRO:HD3	E:2:NAG:N	0.508
18	A:499:ASN:N	A:499:ASN:HD22	0.499
18	B:199:PRO:HG3	M:2:NAG:O5	0.497
18	B:499:ASN:N	B:499:ASN:HD22	0.497
18	A:199:PRO:HG3	E:2:NAG:O5	0.495
18	A:409:ASN:H	G:1:NAG:C	0.493
18	B:409:ASN:H	O:1:NAG:C	0.491
18	A:199:PRO:CD	E:2:NAG:O3	0.487
18	B:199:PRO:CD	M:2:NAG:O3	0.487
18	B:28:ARG:CG	B:28:ARG:NH1	0.479
18	B:423:ILE:HB	B:424:PRO:HD3	0.479
18	A:28:ARG:CG	A:28:ARG:NH1	0.478
18	A:423:ILE:HB	A:424:PRO:HD3	0.477
18	A:148:ARG:HD2	E:1:NAG:N	0.476
18	B:148:ARG:HD2	M:1:NAG:N	0.476
18	A:409:ASN:O	G:1:NAG:CT	0.474
18	B:409:ASN:O	O:1:NAG:CT	0.474
18	A:383:ASN:CB	J:14:SIA:C9	0.465
18	B:383:ASN:CB	R:14:SIA:C9	0.465
18	A:397:ILE:HG21	J:14:SIA:H92	0.464



Model ID	Atom-1	Atom-2	Clash overlap (Å)
18	B:397:ILE:HG21	R:14:SIA:H92	0.464
18	A:528:PRO:HA	A:529:PRO:HD3	0.457
18	A:463:ASN:HD22	H:1:NAG:C1	0.456
18	B:463:ASN:HD22	P:1:NAG:C1	0.456
18	A:199:PRO:HG3	E:2:NAG:C5	0.454
18	B:528:PRO:HA	B:529:PRO:HD3	0.454
18	B:199:PRO:HG3	M:2:NAG:C5	0.452
18	A:77:ARG:HH21	A:91:PRO:HB2	0.451
18	A:277:ASP:CG	F:18:FUC:O3	0.444
18	B:277:ASP:CG	N:18:FUC:O3	0.442
18	A:341:ASN:CB	A:342:PRO:HD3	0.441
18	B:341:ASN:CB	B:342:PRO:HD3	0.441
18	B:33:SER:HB3	B:83:ILE:HD12	0.440
18	A:33:SER:HB3	A:83:ILE:HD12	0.439
18	A:485:SER:HA	A:486:PRO:C	0.435
18	B:485:SER:HA	B:486:PRO:C	0.435
18	A:502:PHE:CD1	H:18:FUC:C6	0.435
18	B:502:PHE:CD1	P:18:FUC:C6	0.434
18	A:386:LYS:HD2	A:397:ILE:HD11	0.433
18	B:386:LYS:HD2	B:397:ILE:HD11	0.431
18	A:527:ASN:HA	A:528:PRO:C	0.427
18	B:279:ASN:HB2	N:17:SIA:O9	0.427
18	B:527:ASN:HA	B:528:PRO:C	0.427

Model ID	Atom-1	Atom-2	Clash overlap (Å)
18	A:114:ASN:ND2	D:18:FUC:H61	0.427
18	A:199:PRO:HG3	E:2:NAG:C1	0.426
18	A:279:ASN:HB2	F:17:SIA:O9	0.426
18	B:199:PRO:HG3	M:2:NAG:C1	0.426
18	B:114:ASN:ND2	L:18:FUC:H61	0.426
18	A:148:ARG:NH2	E:2:NAG:C6	0.423
18	B:148:ARG:NH2	M:2:NAG:C6	0.423
18	A:378:LEU:HD12	A:417:LEU:HG	0.421
18	B:378:LEU:HD12	B:417:LEU:HG	0.421
18	A:148:ARG:CG	E:1:NAG:CT	0.418
18	B:148:ARG:CG	M:1:NAG:CT	0.417
18	A:114:ASN:HD22	D:18:FUC:H61	0.415
18	B:114:ASN:HD22	L:18:FUC:H61	0.415
18	B:383:ASN:HB2	R:14:SIA:H91	0.414
18	B:231:GLU:HA	B:328:THR:O	0.413
18	A:231:GLU:HA	A:328:THR:O	0.412
18	B:423:ILE:O	B:425:PRO:HD3	0.412
18	A:423:ILE:O	A:425:PRO:HD3	0.411
18	A:383:ASN:HB2	J:14:SIA:H91	0.411
18	A:199:PRO:CD	E:2:NAG:C	0.408
18	B:199:PRO:CD	M:2:NAG:C	0.405
18	A:262:ARG:HH12	A:264:SER:HA	0.401
18	B:262:ARG:HH12	B:264:SER:HA	0.401

Model ID	Atom-1	Atom-2	Clash overlap (Å)
19	B:148:ARG:CA	M:18:FUC:H4	1.540
19	A:148:ARG:CA	E:18:FUC:H4	1.536
19	B:148:ARG:C	M:18:FUC:O4	1.344
19	A:148:ARG:C	E:18:FUC:O4	1.341
19	A:112:VAL:O	D:1:NAG:CT	1.327
19	B:112:VAL:O	L:1:NAG:CT	1.325
19	B:148:ARG:CB	M:18:FUC:H4	1.310
19	A:148:ARG:CB	E:18:FUC:H4	1.309
19	A:460:ASN:OD1	H:1:NAG:H5	1.280
19	B:460:ASN:OD1	P:1:NAG:H5	1.277
19	A:460:ASN:OD1	H:1:NAG:C5	1.263
19	B:460:ASN:OD1	P:1:NAG:C5	1.262
19	A:148:ARG:CA	E:18:FUC:C4	1.234
19	B:148:ARG:CA	M:18:FUC:C4	1.232
19	A:469:TYR:HE1	J:2:NAG:O6	1.177
19	B:469:TYR:HE1	R:2:NAG:O6	1.177
19	A:148:ARG:HA	E:18:FUC:C4	1.151
19	B:148:ARG:HA	M:18:FUC:C4	1.149
19	B:469:TYR:CE1	R:2:NAG:O6	1.091
19	A:469:TYR:CE1	J:2:NAG:O6	1.089
19	B:498:LEU:HA	P:18:FUC:O4	1.075
19	A:148:ARG:HA	E:18:FUC:H4	1.069
19	A:498:LEU:HA	H:18:FUC:O4	1.069

Model ID	Atom-1	Atom-2	Clash overlap (Å)
19	B:148:ARG:HA	M:18:FUC:H4	1.069
19	B:148:ARG:C	M:18:FUC:C4	1.069
19	A:148:ARG:C	E:18:FUC:C4	1.068
19	B:148:ARG:HB2	M:18:FUC:H4	1.034
19	A:148:ARG:HB2	E:18:FUC:H4	1.031
19	B:399:VAL:CG1	R:14:SIA:O6	0.985
19	A:399:VAL:CG1	J:14:SIA:O6	0.984
19	A:148:ARG:HA	E:18:FUC:C5	0.981
19	B:148:ARG:HA	M:18:FUC:C5	0.979
19	A:504:GLN:HG2	H:18:FUC:C6	0.973
19	A:148:ARG:HB2	E:18:FUC:C4	0.864
19	B:148:ARG:HB2	M:18:FUC:C4	0.863
19	B:112:VAL:O	L:1:NAG:C	0.858
19	A:112:VAL:O	D:1:NAG:C	0.856
19	B:353:ALA:N	R:14:SIA:H32	0.846
19	A:353:ALA:N	J:14:SIA:H32	0.844
19	A:504:GLN:HG2	H:18:FUC:H62	0.840
19	A:501:ASP:OD2	A:502:PHE:HD2	0.837
19	A:504:GLN:HG2	H:18:FUC:H61	0.836
19	B:501:ASP:OD2	B:502:PHE:HD2	0.835
19	A:469:TYR:HE1	J:2:NAG:HO6	0.826
19	B:469:TYR:HE1	R:2:NAG:HO6	0.820
19	A:148:ARG:HA	E:18:FUC:C6	0.811

Model ID	Atom-1	Atom-2	Clash overlap (Å)
19	B:148:ARG:HA	M:18:FUC:C6	0.811
19	A:413:ASN:OD1	G:1:NAG:C1	0.800
19	B:399:VAL:HG11	R:14:SIA:O6	0.789
19	A:399:VAL:HG11	J:14:SIA:O6	0.788
19	A:352:HIS:C	J:14:SIA:H32	0.787
19	B:352:HIS:C	R:14:SIA:H32	0.787
19	A:498:LEU:CA	H:18:FUC:O4	0.771
19	A:512:GLU:N	I:18:FUC:O3	0.769
19	B:512:GLU:N	Q:18:FUC:O3	0.769
19	B:498:LEU:CA	P:18:FUC:O4	0.768
19	A:431:THR:OG1	G:18:FUC:H4	0.767
19	A:499:ASN:H	A:499:ASN:HD22	0.765
19	B:499:ASN:HD21	B:502:PHE:HB2	0.764
19	A:499:ASN:HD21	A:502:PHE:HB2	0.763
19	B:499:ASN:H	B:499:ASN:HD22	0.762
19	A:501:ASP:OD2	A:502:PHE:CD2	0.756
19	B:501:ASP:OD2	B:502:PHE:CD2	0.754
19	B:399:VAL:CG2	R:13:GAL:O2	0.732
19	A:148:ARG:C	E:18:FUC:H4	0.732
19	A:399:VAL:CG2	J:13:GAL:O2	0.731
19	B:460:ASN:OD1	P:1:NAG:O5	0.731
19	B:148:ARG:C	M:18:FUC:H4	0.730
19	A:460:ASN:OD1	H:1:NAG:O5	0.730

Model ID	Atom-1	Atom-2	Clash overlap (Å)
19	A:148:ARG:HB2	E:18:FUC:C3	0.728
19	B:148:ARG:HB2	M:18:FUC:C3	0.727
19	A:431:THR:OG1	G:18:FUC:C4	0.697
19	A:504:GLN:CG	H:18:FUC:H61	0.694
19	A:498:LEU:HB2	A:502:PHE:O	0.691
19	B:498:LEU:HB2	B:502:PHE:O	0.690
19	A:399:VAL:HG13	J:13:GAL:O3	0.678
19	B:399:VAL:HG13	R:13:GAL:O3	0.678
19	B:499:ASN:N	B:499:ASN:ND2	0.675
19	A:499:ASN:N	A:499:ASN:ND2	0.674
19	A:499:ASN:H	A:499:ASN:ND2	0.671
19	B:499:ASN:H	B:499:ASN:ND2	0.669
19	A:455:GLU:OE2	I:18:FUC:O4	0.657
19	B:455:GLU:OE2	Q:18:FUC:O4	0.657
19	A:353:ALA:N	J:14:SIA:C3	0.651
19	B:353:ALA:N	R:14:SIA:C3	0.650
19	B:352:HIS:HA	R:14:SIA:H32	0.638
19	A:352:HIS:HA	J:14:SIA:H32	0.637
19	A:352:HIS:CA	J:14:SIA:H32	0.616
19	B:352:HIS:CA	R:14:SIA:H32	0.615
19	B:28:ARG:CG	B:28:ARG:HH11	0.614
19	A:28:ARG:CG	A:28:ARG:HH11	0.612
19	A:341:ASN:HB3	A:342:PRO:HD3	0.610

Model ID	Atom-1	Atom-2	Clash overlap (Å)
19	A:504:GLN:CD	H:18:FUC:H61	0.610
19	B:341:ASN:HB3	B:342:PRO:HD3	0.610
19	A:460:ASN:OD1	H:1:NAG:C6	0.606
19	B:460:ASN:OD1	P:1:NAG:C6	0.605
19	A:148:ARG:CB	E:18:FUC:C4	0.596
19	A:409:ASN:HD22	A:410:ASN:H	0.592
19	A:447:LEU:HB3	A:448:PRO:HD3	0.591
19	B:409:ASN:HD22	B:410:ASN:H	0.591
19	A:399:VAL:HG22	J:13:GAL:O2	0.571
19	A:112:VAL:O	D:1:NAG:O	0.571
19	B:112:VAL:O	L:1:NAG:O	0.571
19	B:399:VAL:HG22	R:13:GAL:O2	0.569
19	A:399:VAL:HG21	J:13:GAL:O2	0.566
19	B:399:VAL:HG21	R:13:GAL:O2	0.564
19	A:391:ASN:HB3	A:393:GLN:HG3	0.560
19	B:391:ASN:HB3	B:393:GLN:HG3	0.560
19	A:163:THR:OG1	E:1:NAG:H62	0.559
19	B:28:ARG:HG2	B:28:ARG:HH11	0.552
19	A:28:ARG:HG2	A:28:ARG:HH11	0.551
19	B:488:THR:HG22	B:491:ARG:NH2	0.548
19	A:488:THR:HG22	A:491:ARG:NH2	0.547
19	A:109:LEU:H	A:109:LEU:HD12	0.545
19	B:109:LEU:H	B:109:LEU:HD12	0.545

Model ID	Atom-1	Atom-2	Clash overlap (Å)
19	B:105:ARG:HG2	B:203:LEU:HB3	0.540
19	A:359:THR:HG22	A:393:GLN:HG2	0.536
19	B:359:THR:HG22	B:393:GLN:HG2	0.536
19	A:433:GLN:NE2	G:1:NAG:H62	0.536
19	B:433:GLN:NE2	O:1:NAG:H62	0.535
19	B:498:LEU:CA	P:18:FUC:O3	0.531
19	A:498:LEU:CA	H:18:FUC:O3	0.527
19	A:353:ALA:HB2	J:14:SIA:H31	0.518
19	B:353:ALA:HB2	R:14:SIA:H31	0.517
19	B:112:VAL:C	L:1:NAG:CT	0.501
19	A:112:VAL:C	D:1:NAG:CT	0.500
19	A:413:ASN:CG	G:1:NAG:C1	0.499
19	A:499:ASN:N	A:499:ASN:HD22	0.499
19	B:499:ASN:N	B:499:ASN:HD22	0.497
19	B:28:ARG:CG	B:28:ARG:NH1	0.479
19	B:423:ILE:HB	B:424:PRO:HD3	0.479
19	A:28:ARG:CG	A:28:ARG:NH1	0.478
19	A:423:ILE:HB	A:424:PRO:HD3	0.477
19	A:399:VAL:HG21	J:13:GAL:HO2	0.473
19	B:399:VAL:HG21	R:13:GAL:HO2	0.472
19	A:353:ALA:H	J:14:SIA:H32	0.462
19	B:353:ALA:H	R:14:SIA:H32	0.459
19	A:469:TYR:CZ	J:2:NAG:O6	0.458



Model ID	Atom-1	Atom-2	Clash overlap (Å)
19	A:528:PRO:HA	A:529:PRO:HD3	0.457
19	B:469:TYR:CZ	R:2:NAG:O6	0.456
19	B:528:PRO:HA	B:529:PRO:HD3	0.454
19	A:148:ARG:HB2	E:18:FUC:H3	0.453
19	B:148:ARG:HB2	M:18:FUC:H3	0.452
19	A:77:ARG:HH21	A:91:PRO:HB2	0.451
19	A:341:ASN:CB	A:342:PRO:HD3	0.441
19	B:341:ASN:CB	B:342:PRO:HD3	0.441
19	B:33:SER:HB3	B:83:ILE:HD12	0.440
19	B:399:VAL:HA	R:14:SIA:H4	0.440
19	A:33:SER:HB3	A:83:ILE:HD12	0.439
19	A:498:LEU:C	H:18:FUC:O3	0.439
19	B:498:LEU:C	P:18:FUC:O3	0.438
19	A:399:VAL:HA	J:14:SIA:H4	0.437
19	A:485:SER:HA	A:486:PRO:C	0.435
19	B:485:SER:HA	B:486:PRO:C	0.435
19	A:386:LYS:HD2	A:397:ILE:HD11	0.433
19	A:498:LEU:HD21	H:1:NAG:O6	0.432
19	B:498:LEU:HD21	P:1:NAG:O6	0.432
19	B:386:LYS:HD2	B:397:ILE:HD11	0.431
19	A:527:ASN:HA	A:528:PRO:C	0.427
19	B:527:ASN:HA	B:528:PRO:C	0.427
19	Q:10:SIA:H6	Q:10:SIA:O	0.425

Model ID	Atom-1	Atom-2	Clash overlap (Å)
19	I:10:SIA:H6	I:10:SIA:O	0.424
19	B:148:ARG:CA	M:18:FUC:C6	0.423
19	A:148:ARG:CA	E:18:FUC:C6	0.422
19	A:378:LEU:HD12	A:417:LEU:HG	0.421
19	B:378:LEU:HD12	B:417:LEU:HG	0.421
19	B:231:GLU:HA	B:328:THR:O	0.413
19	A:231:GLU:HA	A:328:THR:O	0.412
19	B:423:ILE:O	B:425:PRO:HD3	0.412
19	A:423:ILE:O	A:425:PRO:HD3	0.411
19	A:262:ARG:HH12	A:264:SER:HA	0.401
19	B:262:ARG:HH12	B:264:SER:HA	0.401
20	B:463:ASN:ND2	P:1:NAG:C1	1.426
20	A:463:ASN:ND2	H:1:NAG:C1	1.421
20	A:463:ASN:HD22	H:1:NAG:C1	1.420
20	B:90:ASN:ND2	C:9:GAL:H61	1.417
20	A:90:ASN:ND2	K:9:GAL:H61	1.415
20	B:463:ASN:HD22	P:1:NAG:C1	1.414
20	A:90:ASN:HD21	K:9:GAL:C6	1.382
20	B:90:ASN:HD21	C:9:GAL:C6	1.379
20	A:87:GLN:HE22	K:10:SIA:C3	1.291
20	B:87:GLN:HE22	C:10:SIA:C3	1.289
20	B:166:ASN:HD22	M:1:NAG:C1	1.287
20	A:166:ASN:HD22	E:1:NAG:C1	1.285

Model ID	Atom-1	Atom-2	Clash overlap (Å)
20	B:110:HIS:CD2	L:1:NAG:CT	1.268
20	A:110:HIS:CD2	D:1:NAG:CT	1.267
20	A:487:VAL:N	I:14:SIA:CT	1.245
20	B:487:VAL:N	Q:14:SIA:CT	1.238
20	B:243:ASN:ND2	N:1:NAG:C1	1.220
20	A:243:ASN:ND2	F:1:NAG:C1	1.219
20	A:30:LYS:HB3	C:1:NAG:C	1.217
20	B:30:LYS:HB3	K:1:NAG:C	1.217
20	B:532:ASN:HD21	R:1:NAG:C1	1.194
20	A:532:ASN:HD21	J:1:NAG:C1	1.193
20	B:87:GLN:HE22	C:10:SIA:C2	1.191
20	A:87:GLN:HE22	K:10:SIA:C2	1.187
20	B:532:ASN:ND2	R:1:NAG:C1	1.184
20	A:532:ASN:ND2	J:1:NAG:C1	1.183
20	A:87:GLN:CD	K:10:SIA:H32	1.173
20	B:87:GLN:CD	C:10:SIA:H32	1.173
20	B:87:GLN:NE2	C:10:SIA:C3	1.167
20	A:87:GLN:NE2	K:10:SIA:C3	1.167
20	A:533:ILE:O	J:18:FUC:H62	1.134
20	B:533:ILE:O	R:18:FUC:H62	1.133
20	A:87:GLN:NE2	K:10:SIA:H32	1.132
20	B:87:GLN:NE2	C:10:SIA:H32	1.130
20	B:110:HIS:CG	L:1:NAG:CT	1.126

Model ID	Atom-1	Atom-2	Clash overlap (Å)
20	A:110:HIS:CG	D:1:NAG:CT	1.125
20	B:87:GLN:OE1	C:10:SIA:H32	1.124
20	A:87:GLN:OE1	K:10:SIA:H32	1.121
20	A:87:GLN:NE2	K:10:SIA:C2	1.114
20	B:87:GLN:NE2	C:10:SIA:C2	1.110
20	B:201:TYR:OH	M:10:SIA:O9	1.101
20	A:90:ASN:ND2	K:9:GAL:C6	1.078
20	A:30:LYS:HB3	C:1:NAG:O	1.077
20	B:30:LYS:HB3	K:1:NAG:O	1.074
20	B:90:ASN:ND2	C:9:GAL:C6	1.073
20	B:532:ASN:OD1	R:1:NAG:C1	1.073
20	A:532:ASN:OD1	J:1:NAG:C1	1.071
20	A:87:GLN:NE2	K:9:GAL:O3	1.064
20	A:532:ASN:CG	J:1:NAG:C1	1.063
20	B:87:GLN:NE2	C:9:GAL:O3	1.062
20	B:532:ASN:CG	R:1:NAG:C1	1.061
20	A:201:TYR:OH	E:10:SIA:O9	1.043
20	A:90:ASN:CG	K:9:GAL:H61	1.040
20	B:90:ASN:CG	C:9:GAL:H61	1.036
20	B:280:SER:N	N:18:FUC:H63	1.033
20	A:280:SER:N	F:18:FUC:H63	1.027
20	A:243:ASN:HD21	F:1:NAG:C1	0.987
20	B:243:ASN:HD21	N:1:NAG:C1	0.987

Model ID	Atom-1	Atom-2	Clash overlap (Å)
20	B:280:SER:HB3	N:18:FUC:C4	0.985
20	A:280:SER:HB3	F:18:FUC:C4	0.981
20	A:280:SER:H	F:18:FUC:H63	0.972
20	B:280:SER:H	N:18:FUC:H63	0.969
20	A:166:ASN:ND2	E:1:NAG:C1	0.956
20	B:166:ASN:ND2	M:1:NAG:C1	0.955
20	A:30:LYS:CB	C:1:NAG:O	0.932
20	B:30:LYS:CB	K:1:NAG:O	0.932
20	A:487:VAL:HB	I:14:SIA:O	0.914
20	A:533:ILE:O	J:18:FUC:C6	0.914
20	B:533:ILE:O	R:18:FUC:C6	0.913
20	A:243:ASN:CG	F:1:NAG:C1	0.911
20	B:243:ASN:CG	N:1:NAG:C1	0.910
20	B:487:VAL:HB	Q:14:SIA:O	0.907
20	A:148:ARG:HD2	E:18:FUC:C1	0.906
20	B:148:ARG:HD2	M:18:FUC:C1	0.905
20	B:243:ASN:HD21	N:1:NAG:C2	0.886
20	A:243:ASN:HD21	F:1:NAG:C2	0.884
20	A:501:ASP:OD2	A:502:PHE:HD2	0.837
20	B:501:ASP:OD2	B:502:PHE:HD2	0.835
20	A:148:ARG:HD2	E:18:FUC:O5	0.822
20	B:148:ARG:HD2	M:18:FUC:O5	0.822
20	A:243:ASN:ND2	F:1:NAG:N	0.798

Model ID	Atom-1	Atom-2	Clash overlap (Å)
20	B:243:ASN:ND2	N:1:NAG:N	0.798
20	A:30:LYS:HB3	C:1:NAG:CT	0.790
20	A:532:ASN:HD21	J:1:NAG:C2	0.790
20	B:30:LYS:HB3	K:1:NAG:CT	0.788
20	B:532:ASN:HD21	R:1:NAG:C2	0.788
20	B:280:SER:HB3	N:18:FUC:O4	0.779
20	A:280:SER:HB3	F:18:FUC:O4	0.778
20	A:499:ASN:H	A:499:ASN:HD22	0.765
20	B:499:ASN:HD21	B:502:PHE:HB2	0.764
20	A:463:ASN:HD21	H:1:NAG:C1	0.764
20	A:499:ASN:HD21	A:502:PHE:HB2	0.763
20	B:499:ASN:H	B:499:ASN:HD22	0.762
20	A:201:TYR:CZ	E:10:SIA:O9	0.761
20	B:201:TYR:CZ	M:10:SIA:O9	0.761
20	B:463:ASN:HD21	P:1:NAG:C1	0.760
20	A:501:ASP:OD2	A:502:PHE:CD2	0.756
20	B:501:ASP:OD2	B:502:PHE:CD2	0.754
20	A:87:GLN:OE1	K:10:SIA:C3	0.752
20	B:87:GLN:OE1	C:10:SIA:C3	0.752
20	B:532:ASN:ND2	R:1:NAG:C2	0.723
20	A:532:ASN:ND2	J:1:NAG:C2	0.722
20	A:148:ARG:CD	E:18:FUC:C1	0.709
20	B:148:ARG:CD	M:18:FUC:C1	0.708

Model ID	Atom-1	Atom-2	Clash overlap (Å)
20	A:413:ASN:CG	G:1:NAG:C1	0.698
20	A:243:ASN:ND2	F:1:NAG:C2	0.698
20	B:243:ASN:ND2	N:1:NAG:C2	0.697
20	A:413:ASN:OD1	G:1:NAG:C1	0.692
20	A:498:LEU:HB2	A:502:PHE:O	0.691
20	B:498:LEU:HB2	B:502:PHE:O	0.690
20	B:499:ASN:N	B:499:ASN:ND2	0.675
20	A:499:ASN:N	A:499:ASN:ND2	0.674
20	A:499:ASN:H	A:499:ASN:ND2	0.671
20	B:499:ASN:H	B:499:ASN:ND2	0.669
20	A:530:LYS:NZ	J:14:SIA:O9	0.660
20	B:530:LYS:NZ	R:14:SIA:O9	0.658
20	A:110:HIS:NE2	D:1:NAG:CT	0.647
20	B:110:HIS:NE2	L:1:NAG:CT	0.647
20	A:487:VAL:CB	I:14:SIA:O	0.643
20	B:487:VAL:CB	Q:14:SIA:O	0.637
20	A:491:ARG:HD2	I:1:NAG:H62	0.620
20	B:491:ARG:HD2	Q:1:NAG:H62	0.620
20	A:31:ASN:OD1	C:1:NAG:C1	0.619
20	B:31:ASN:OD1	K:1:NAG:C1	0.619
20	B:28:ARG:CG	B:28:ARG:HH11	0.614
20	A:28:ARG:CG	A:28:ARG:HH11	0.612
20	A:341:ASN:HB3	A:342:PRO:HD3	0.610

Model ID	Atom-1	Atom-2	Clash overlap (Å)
20	B:341:ASN:HB3	B:342:PRO:HD3	0.610
20	B:530:LYS:HZ1	R:14:SIA:C9	0.607
20	A:530:LYS:HZ1	J:14:SIA:C9	0.606
20	A:409:ASN:HD22	A:410:ASN:H	0.592
20	A:447:LEU:HB3	A:448:PRO:HD3	0.591
20	B:409:ASN:HD22	B:410:ASN:H	0.591
20	A:90:ASN:CG	K:9:GAL:C6	0.576
20	B:90:ASN:CG	C:9:GAL:C6	0.576
20	A:391:ASN:HB3	A:393:GLN:HG3	0.560
20	B:391:ASN:HB3	B:393:GLN:HG3	0.560
20	B:280:SER:CB	N:18:FUC:C4	0.560
20	A:280:SER:CB	F:18:FUC:C4	0.553
20	B:28:ARG:HG2	B:28:ARG:HH11	0.552
20	A:28:ARG:HG2	A:28:ARG:HH11	0.551
20	B:488:THR:HG22	B:491:ARG:NH2	0.548
20	A:488:THR:HG22	A:491:ARG:NH2	0.547
20	A:109:LEU:H	A:109:LEU:HD12	0.545
20	B:109:LEU:H	B:109:LEU:HD12	0.545
20	A:87:GLN:CD	K:10:SIA:C3	0.544
20	B:87:GLN:CD	C:10:SIA:C3	0.544
20	B:105:ARG:HG2	B:203:LEU:HB3	0.540
20	A:359:THR:HG22	A:393:GLN:HG2	0.536
20	B:359:THR:HG22	B:393:GLN:HG2	0.536



Model ID	Atom-1	Atom-2	Clash overlap (Å)
20	A:491:ARG:O	I:18:FUC:C6	0.536
20	B:491:ARG:O	Q:18:FUC:C6	0.535
20	A:243:ASN:OD1	F:1:NAG:C1	0.534
20	A:461:SER:O	H:1:NAG:CT	0.533
20	B:243:ASN:OD1	N:1:NAG:C1	0.533
20	A:280:SER:H	F:18:FUC:C6	0.524
20	B:280:SER:H	N:18:FUC:C6	0.518
20	B:110:HIS:CE1	L:1:NAG:CT	0.509
20	A:110:HIS:CE1	D:1:NAG:CT	0.508
20	A:499:ASN:N	A:499:ASN:HD22	0.499
20	B:499:ASN:N	B:499:ASN:HD22	0.497
20	A:413:ASN:ND2	G:1:NAG:C1	0.482
20	B:28:ARG:CG	B:28:ARG:NH1	0.479
20	B:423:ILE:HB	B:424:PRO:HD3	0.479
20	A:28:ARG:CG	A:28:ARG:NH1	0.478
20	A:423:ILE:HB	A:424:PRO:HD3	0.477
20	A:530:LYS:NZ	J:14:SIA:C9	0.474
20	A:280:SER:CB	F:18:FUC:H4	0.466
20	B:280:SER:CB	N:18:FUC:H4	0.466
20	B:90:ASN:HD21	C:9:GAL:H61	0.462
20	A:90:ASN:HD21	K:9:GAL:H61	0.462
20	B:530:LYS:NZ	R:14:SIA:C9	0.462
20	A:491:ARG:O	I:18:FUC:H61	0.461

Model ID	Atom-1	Atom-2	Clash overlap (Å)
20	B:110:HIS:ND1	L:1:NAG:CT	0.461
20	A:110:HIS:ND1	D:1:NAG:CT	0.460
20	B:491:ARG:O	Q:18:FUC:H61	0.459
20	B:148:ARG:NE	M:18:FUC:C1	0.458
20	A:528:PRO:HA	A:529:PRO:HD3	0.457
20	A:148:ARG:NE	E:18:FUC:C1	0.456
20	B:528:PRO:HA	B:529:PRO:HD3	0.454
20	A:491:ARG:O	I:18:FUC:H62	0.454
20	A:77:ARG:HH21	A:91:PRO:HB2	0.451
20	B:491:ARG:O	Q:18:FUC:H62	0.451
20	A:341:ASN:CB	A:342:PRO:HD3	0.441
20	B:341:ASN:CB	B:342:PRO:HD3	0.441
20	B:33:SER:HB3	B:83:ILE:HD12	0.440
20	A:33:SER:HB3	A:83:ILE:HD12	0.439
20	A:485:SER:HA	A:486:PRO:C	0.435
20	B:485:SER:HA	B:486:PRO:C	0.435
20	A:386:LYS:HD2	A:397:ILE:HD11	0.433
20	B:386:LYS:HD2	B:397:ILE:HD11	0.431
20	A:280:SER:N	F:18:FUC:C6	0.429
20	A:527:ASN:HA	A:528:PRO:C	0.427
20	B:527:ASN:HA	B:528:PRO:C	0.427
20	A:487:VAL:CA	I:14:SIA:O	0.424
20	B:487:VAL:CA	Q:14:SIA:O	0.424

Model ID	Atom-1	Atom-2	Clash overlap (Å)
20	B:280:SER:N	N:18:FUC:C6	0.422
20	A:378:LEU:HD12	A:417:LEU:HG	0.421
20	B:378:LEU:HD12	B:417:LEU:HG	0.421
20	B:535:ILE:HG13	R:18:FUC:H62	0.418
20	A:535:ILE:HG13	J:18:FUC:H62	0.417
20	A:277:ASP:OD2	F:18:FUC:C6	0.415
20	B:277:ASP:OD2	N:18:FUC:C6	0.415
20	B:231:GLU:HA	B:328:THR:O	0.413
20	A:231:GLU:HA	A:328:THR:O	0.412
20	B:423:ILE:O	B:425:PRO:HD3	0.412
20	A:423:ILE:O	A:425:PRO:HD3	0.411
20	A:488:THR:N	I:14:SIA:O	0.408
20	B:488:THR:N	Q:14:SIA:O	0.408
20	A:262:ARG:HH12	A:264:SER:HA	0.401
20	B:262:ARG:HH12	B:264:SER:HA	0.401
20	A:148:ARG:HE	E:1:NAG:H61	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	Analysed	Favored	Allowed	Outliers
1	1074	982	86	6
2	1074	982	86	6
3	1074	982	86	6
4	1074	982	86	6

Model ID	Analyzed	Favored	Allowed	Outliers
5	1074	982	86	6
6	1074	982	86	6
7	1074	982	86	6
8	1074	982	86	6
9	1074	982	86	6
10	1074	982	86	6
11	1074	982	86	6
12	1074	982	86	6
13	1074	982	86	6
14	1074	982	86	6
15	1074	982	86	6
16	1074	982	86	6
17	1074	982	86	6
18	1074	982	86	6
19	1074	982	86	6
20	1074	982	86	6

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	942	750	122	70
2	942	750	122	70
3	942	750	122	70
4	942	750	122	70

Model ID	Analyzed	Favored	Allowed	Outliers
5	942	750	122	70
6	942	750	122	70
7	942	750	122	70
8	942	750	122	70
9	942	750	122	70
10	942	750	122	70
11	942	750	122	70
12	942	750	122	70
13	942	750	122	70
14	942	750	122	70
15	942	750	122	70
16	942	750	122	70
17	942	750	122	70
18	942	750	122	70
19	942	750	122	70
20	942	750	122	70

*Detailed list of outliers are tabulated below.*

Model ID	Chain	Residue ID	Residue type
1	A	4	ILE
1	A	22	VAL
1	A	24	ILE
1	A	28	ARG
1	A	31	ASN

Model ID	Chain	Residue ID	Residue type
1	A	38	VAL
1	A	60	LEU
1	A	62	VAL
1	A	81	VAL
1	A	83	ILE
1	A	94	ILE
1	A	98	VAL
1	A	131	THR
1	A	145	LEU
1	A	180	ARG
1	A	208	THR
1	A	227	THR
1	A	234	GLU
1	A	237	VAL
1	A	269	THR
1	A	271	ARG
1	A	286	THR
1	A	291	ILE
1	A	301	LEU
1	A	325	VAL
1	A	338	PHE
1	A	348	GLU
1	A	373	ILE

Model ID	Chain	Residue ID	Residue type
1	A	403	GLU
1	A	409	ASN
1	A	465	THR
1	A	482	LEU
1	A	499	ASN
1	A	507	LEU
1	A	515	ILE
1	B	4	ILE
1	B	22	VAL
1	B	24	ILE
1	B	28	ARG
1	B	31	ASN
1	B	38	VAL
1	B	60	LEU
1	B	62	VAL
1	B	81	VAL
1	B	83	ILE
1	B	94	ILE
1	B	98	VAL
1	B	131	THR
1	B	145	LEU
1	B	180	ARG
1	B	208	THR

Model ID	Chain	Residue ID	Residue type
1	B	227	THR
1	B	234	GLU
1	B	237	VAL
1	B	269	THR
1	B	271	ARG
1	B	286	THR
1	B	291	ILE
1	B	301	LEU
1	B	325	VAL
1	B	338	PHE
1	B	348	GLU
1	B	373	ILE
1	B	403	GLU
1	B	409	ASN
1	B	465	THR
1	B	482	LEU
1	B	499	ASN
1	B	507	LEU
1	B	515	ILE
2	A	4	ILE
2	A	22	VAL
2	A	24	ILE
2	A	28	ARG



Model ID	Chain	Residue ID	Residue type
2	A	31	ASN
2	A	38	VAL
2	A	60	LEU
2	A	62	VAL
2	A	81	VAL
2	A	83	ILE
2	A	94	ILE
2	A	98	VAL
2	A	131	THR
2	A	145	LEU
2	A	180	ARG
2	A	208	THR
2	A	227	THR
2	A	234	GLU
2	A	237	VAL
2	A	269	THR
2	A	271	ARG
2	A	286	THR
2	A	291	ILE
2	A	301	LEU
2	A	325	VAL
2	A	338	PHE
2	A	348	GLU

Model ID	Chain	Residue ID	Residue type
2	A	373	ILE
2	A	403	GLU
2	A	409	ASN
2	A	465	THR
2	A	482	LEU
2	A	499	ASN
2	A	507	LEU
2	A	515	ILE
2	B	4	ILE
2	B	22	VAL
2	B	24	ILE
2	B	28	ARG
2	B	31	ASN
2	B	38	VAL
2	B	60	LEU
2	B	62	VAL
2	B	81	VAL
2	B	83	ILE
2	B	94	ILE
2	B	98	VAL
2	B	131	THR
2	B	145	LEU
2	B	180	ARG

Model ID	Chain	Residue ID	Residue type
2	B	208	THR
2	B	227	THR
2	B	234	GLU
2	B	237	VAL
2	B	269	THR
2	B	271	ARG
2	B	286	THR
2	B	291	ILE
2	B	301	LEU
2	B	325	VAL
2	B	338	PHE
2	B	348	GLU
2	B	373	ILE
2	B	403	GLU
2	B	409	ASN
2	B	465	THR
2	B	482	LEU
2	B	499	ASN
2	B	507	LEU
2	B	515	ILE
3	A	4	ILE
3	A	22	VAL
3	A	24	ILE

Model ID	Chain	Residue ID	Residue type
3	A	28	ARG
3	A	31	ASN
3	A	38	VAL
3	A	60	LEU
3	A	62	VAL
3	A	81	VAL
3	A	83	ILE
3	A	94	ILE
3	A	98	VAL
3	A	131	THR
3	A	145	LEU
3	A	180	ARG
3	A	208	THR
3	A	227	THR
3	A	234	GLU
3	A	237	VAL
3	A	269	THR
3	A	271	ARG
3	A	286	THR
3	A	291	ILE
3	A	301	LEU
3	A	325	VAL
3	A	338	PHE

Model ID	Chain	Residue ID	Residue type
3	A	348	GLU
3	A	373	ILE
3	A	403	GLU
3	A	409	ASN
3	A	465	THR
3	A	482	LEU
3	A	499	ASN
3	A	507	LEU
3	A	515	ILE
3	B	4	ILE
3	B	22	VAL
3	B	24	ILE
3	B	28	ARG
3	B	31	ASN
3	B	38	VAL
3	B	60	LEU
3	B	62	VAL
3	B	81	VAL
3	B	83	ILE
3	B	94	ILE
3	B	98	VAL
3	B	131	THR
3	B	145	LEU

Model ID	Chain	Residue ID	Residue type
3	B	180	ARG
3	B	208	THR
3	B	227	THR
3	B	234	GLU
3	B	237	VAL
3	B	269	THR
3	B	271	ARG
3	B	286	THR
3	B	291	ILE
3	B	301	LEU
3	B	325	VAL
3	B	338	PHE
3	B	348	GLU
3	B	373	ILE
3	B	403	GLU
3	B	409	ASN
3	B	465	THR
3	B	482	LEU
3	B	499	ASN
3	B	507	LEU
3	B	515	ILE
4	A	4	ILE
4	A	22	VAL

Model ID	Chain	Residue ID	Residue type
4	A	24	ILE
4	A	28	ARG
4	A	31	ASN
4	A	38	VAL
4	A	60	LEU
4	A	62	VAL
4	A	81	VAL
4	A	83	ILE
4	A	94	ILE
4	A	98	VAL
4	A	131	THR
4	A	145	LEU
4	A	180	ARG
4	A	208	THR
4	A	227	THR
4	A	234	GLU
4	A	237	VAL
4	A	269	THR
4	A	271	ARG
4	A	286	THR
4	A	291	ILE
4	A	301	LEU
4	A	325	VAL

Model ID	Chain	Residue ID	Residue type
4	A	338	PHE
4	A	348	GLU
4	A	373	ILE
4	A	403	GLU
4	A	409	ASN
4	A	465	THR
4	A	482	LEU
4	A	499	ASN
4	A	507	LEU
4	A	515	ILE
4	B	4	ILE
4	B	22	VAL
4	B	24	ILE
4	B	28	ARG
4	B	31	ASN
4	B	38	VAL
4	B	60	LEU
4	B	62	VAL
4	B	81	VAL
4	B	83	ILE
4	B	94	ILE
4	B	98	VAL
4	B	131	THR



Model ID	Chain	Residue ID	Residue type
4	B	145	LEU
4	B	180	ARG
4	B	208	THR
4	B	227	THR
4	B	234	GLU
4	B	237	VAL
4	B	269	THR
4	B	271	ARG
4	B	286	THR
4	B	291	ILE
4	B	301	LEU
4	B	325	VAL
4	B	338	PHE
4	B	348	GLU
4	B	373	ILE
4	B	403	GLU
4	B	409	ASN
4	B	465	THR
4	B	482	LEU
4	B	499	ASN
4	B	507	LEU
4	B	515	ILE
5	A	4	ILE

Model ID	Chain	Residue ID	Residue type
5	A	22	VAL
5	A	24	ILE
5	A	28	ARG
5	A	31	ASN
5	A	38	VAL
5	A	60	LEU
5	A	62	VAL
5	A	81	VAL
5	A	83	ILE
5	A	94	ILE
5	A	98	VAL
5	A	131	THR
5	A	145	LEU
5	A	180	ARG
5	A	208	THR
5	A	227	THR
5	A	234	GLU
5	A	237	VAL
5	A	269	THR
5	A	271	ARG
5	A	286	THR
5	A	291	ILE
5	A	301	LEU

Model ID	Chain	Residue ID	Residue type
5	A	325	VAL
5	A	338	PHE
5	A	348	GLU
5	A	373	ILE
5	A	403	GLU
5	A	409	ASN
5	A	465	THR
5	A	482	LEU
5	A	499	ASN
5	A	507	LEU
5	A	515	ILE
5	B	4	ILE
5	B	22	VAL
5	B	24	ILE
5	B	28	ARG
5	B	31	ASN
5	B	38	VAL
5	B	60	LEU
5	B	62	VAL
5	B	81	VAL
5	B	83	ILE
5	B	94	ILE
5	B	98	VAL

Model ID	Chain	Residue ID	Residue type
5	B	131	THR
5	B	145	LEU
5	B	180	ARG
5	B	208	THR
5	B	227	THR
5	B	234	GLU
5	B	237	VAL
5	B	269	THR
5	B	271	ARG
5	B	286	THR
5	B	291	ILE
5	B	301	LEU
5	B	325	VAL
5	B	338	PHE
5	B	348	GLU
5	B	373	ILE
5	B	403	GLU
5	B	409	ASN
5	B	465	THR
5	B	482	LEU
5	B	499	ASN
5	B	507	LEU
5	B	515	ILE

Model ID	Chain	Residue ID	Residue type
6	A	4	ILE
6	A	22	VAL
6	A	24	ILE
6	A	28	ARG
6	A	31	ASN
6	A	38	VAL
6	A	60	LEU
6	A	62	VAL
6	A	81	VAL
6	A	83	ILE
6	A	94	ILE
6	A	98	VAL
6	A	131	THR
6	A	145	LEU
6	A	180	ARG
6	A	208	THR
6	A	227	THR
6	A	234	GLU
6	A	237	VAL
6	A	269	THR
6	A	271	ARG
6	A	286	THR
6	A	291	ILE

Model ID	Chain	Residue ID	Residue type
6	A	301	LEU
6	A	325	VAL
6	A	338	PHE
6	A	348	GLU
6	A	373	ILE
6	A	403	GLU
6	A	409	ASN
6	A	465	THR
6	A	482	LEU
6	A	499	ASN
6	A	507	LEU
6	A	515	ILE
6	B	4	ILE
6	B	22	VAL
6	B	24	ILE
6	B	28	ARG
6	B	31	ASN
6	B	38	VAL
6	B	60	LEU
6	B	62	VAL
6	B	81	VAL
6	B	83	ILE
6	B	94	ILE

Model ID	Chain	Residue ID	Residue type
6	B	98	VAL
6	B	131	THR
6	B	145	LEU
6	B	180	ARG
6	B	208	THR
6	B	227	THR
6	B	234	GLU
6	B	237	VAL
6	B	269	THR
6	B	271	ARG
6	B	286	THR
6	B	291	ILE
6	B	301	LEU
6	B	325	VAL
6	B	338	PHE
6	B	348	GLU
6	B	373	ILE
6	B	403	GLU
6	B	409	ASN
6	B	465	THR
6	B	482	LEU
6	B	499	ASN
6	B	507	LEU

Model ID	Chain	Residue ID	Residue type
6	B	515	ILE
7	A	4	ILE
7	A	22	VAL
7	A	24	ILE
7	A	28	ARG
7	A	31	ASN
7	A	38	VAL
7	A	60	LEU
7	A	62	VAL
7	A	81	VAL
7	A	83	ILE
7	A	94	ILE
7	A	98	VAL
7	A	131	THR
7	A	145	LEU
7	A	180	ARG
7	A	208	THR
7	A	227	THR
7	A	234	GLU
7	A	237	VAL
7	A	269	THR
7	A	271	ARG
7	A	286	THR



Model ID	Chain	Residue ID	Residue type
7	A	291	ILE
7	A	301	LEU
7	A	325	VAL
7	A	338	PHE
7	A	348	GLU
7	A	373	ILE
7	A	403	GLU
7	A	409	ASN
7	A	465	THR
7	A	482	LEU
7	A	499	ASN
7	A	507	LEU
7	A	515	ILE
7	B	4	ILE
7	B	22	VAL
7	B	24	ILE
7	B	28	ARG
7	B	31	ASN
7	B	38	VAL
7	B	60	LEU
7	B	62	VAL
7	B	81	VAL
7	B	83	ILE

Model ID	Chain	Residue ID	Residue type
7	B	94	ILE
7	B	98	VAL
7	B	131	THR
7	B	145	LEU
7	B	180	ARG
7	B	208	THR
7	B	227	THR
7	B	234	GLU
7	B	237	VAL
7	B	269	THR
7	B	271	ARG
7	B	286	THR
7	B	291	ILE
7	B	301	LEU
7	B	325	VAL
7	B	338	PHE
7	B	348	GLU
7	B	373	ILE
7	B	403	GLU
7	B	409	ASN
7	B	465	THR
7	B	482	LEU
7	B	499	ASN

Model ID	Chain	Residue ID	Residue type
7	B	507	LEU
7	B	515	ILE
8	A	4	ILE
8	A	22	VAL
8	A	24	ILE
8	A	28	ARG
8	A	31	ASN
8	A	38	VAL
8	A	60	LEU
8	A	62	VAL
8	A	81	VAL
8	A	83	ILE
8	A	94	ILE
8	A	98	VAL
8	A	131	THR
8	A	145	LEU
8	A	180	ARG
8	A	208	THR
8	A	227	THR
8	A	234	GLU
8	A	237	VAL
8	A	269	THR
8	A	271	ARG

Model ID	Chain	Residue ID	Residue type
8	A	286	THR
8	A	291	ILE
8	A	301	LEU
8	A	325	VAL
8	A	338	PHE
8	A	348	GLU
8	A	373	ILE
8	A	403	GLU
8	A	409	ASN
8	A	465	THR
8	A	482	LEU
8	A	499	ASN
8	A	507	LEU
8	A	515	ILE
8	B	4	ILE
8	B	22	VAL
8	B	24	ILE
8	B	28	ARG
8	B	31	ASN
8	B	38	VAL
8	B	60	LEU
8	B	62	VAL
8	B	81	VAL

Model ID	Chain	Residue ID	Residue type
8	B	83	ILE
8	B	94	ILE
8	B	98	VAL
8	B	131	THR
8	B	145	LEU
8	B	180	ARG
8	B	208	THR
8	B	227	THR
8	B	234	GLU
8	B	237	VAL
8	B	269	THR
8	B	271	ARG
8	B	286	THR
8	B	291	ILE
8	B	301	LEU
8	B	325	VAL
8	B	338	PHE
8	B	348	GLU
8	B	373	ILE
8	B	403	GLU
8	B	409	ASN
8	B	465	THR
8	B	482	LEU

Model ID	Chain	Residue ID	Residue type
8	B	499	ASN
8	B	507	LEU
8	B	515	ILE
9	A	4	ILE
9	A	22	VAL
9	A	24	ILE
9	A	28	ARG
9	A	31	ASN
9	A	38	VAL
9	A	60	LEU
9	A	62	VAL
9	A	81	VAL
9	A	83	ILE
9	A	94	ILE
9	A	98	VAL
9	A	131	THR
9	A	145	LEU
9	A	180	ARG
9	A	208	THR
9	A	227	THR
9	A	234	GLU
9	A	237	VAL
9	A	269	THR

Model ID	Chain	Residue ID	Residue type
9	A	271	ARG
9	A	286	THR
9	A	291	ILE
9	A	301	LEU
9	A	325	VAL
9	A	338	PHE
9	A	348	GLU
9	A	373	ILE
9	A	403	GLU
9	A	409	ASN
9	A	465	THR
9	A	482	LEU
9	A	499	ASN
9	A	507	LEU
9	A	515	ILE
9	B	4	ILE
9	B	22	VAL
9	B	24	ILE
9	B	28	ARG
9	B	31	ASN
9	B	38	VAL
9	B	60	LEU
9	B	62	VAL

Model ID	Chain	Residue ID	Residue type
9	B	81	VAL
9	B	83	ILE
9	B	94	ILE
9	B	98	VAL
9	B	131	THR
9	B	145	LEU
9	B	180	ARG
9	B	208	THR
9	B	227	THR
9	B	234	GLU
9	B	237	VAL
9	B	269	THR
9	B	271	ARG
9	B	286	THR
9	B	291	ILE
9	B	301	LEU
9	B	325	VAL
9	B	338	PHE
9	B	348	GLU
9	B	373	ILE
9	B	403	GLU
9	B	409	ASN
9	B	465	THR



Model ID	Chain	Residue ID	Residue type
9	B	482	LEU
9	B	499	ASN
9	B	507	LEU
9	B	515	ILE
10	A	4	ILE
10	A	22	VAL
10	A	24	ILE
10	A	28	ARG
10	A	31	ASN
10	A	38	VAL
10	A	60	LEU
10	A	62	VAL
10	A	81	VAL
10	A	83	ILE
10	A	94	ILE
10	A	98	VAL
10	A	131	THR
10	A	145	LEU
10	A	180	ARG
10	A	208	THR
10	A	227	THR
10	A	234	GLU
10	A	237	VAL

Model ID	Chain	Residue ID	Residue type
10	A	269	THR
10	A	271	ARG
10	A	286	THR
10	A	291	ILE
10	A	301	LEU
10	A	325	VAL
10	A	338	PHE
10	A	348	GLU
10	A	373	ILE
10	A	403	GLU
10	A	409	ASN
10	A	465	THR
10	A	482	LEU
10	A	499	ASN
10	A	507	LEU
10	A	515	ILE
10	B	4	ILE
10	B	22	VAL
10	B	24	ILE
10	B	28	ARG
10	B	31	ASN
10	B	38	VAL
10	B	60	LEU

Model ID	Chain	Residue ID	Residue type
10	B	62	VAL
10	B	81	VAL
10	B	83	ILE
10	B	94	ILE
10	B	98	VAL
10	B	131	THR
10	B	145	LEU
10	B	180	ARG
10	B	208	THR
10	B	227	THR
10	B	234	GLU
10	B	237	VAL
10	B	269	THR
10	B	271	ARG
10	B	286	THR
10	B	291	ILE
10	B	301	LEU
10	B	325	VAL
10	B	338	PHE
10	B	348	GLU
10	B	373	ILE
10	B	403	GLU
10	B	409	ASN

Model ID	Chain	Residue ID	Residue type
10	B	465	THR
10	B	482	LEU
10	B	499	ASN
10	B	507	LEU
10	B	515	ILE
11	A	4	ILE
11	A	22	VAL
11	A	24	ILE
11	A	28	ARG
11	A	31	ASN
11	A	38	VAL
11	A	60	LEU
11	A	62	VAL
11	A	81	VAL
11	A	83	ILE
11	A	94	ILE
11	A	98	VAL
11	A	131	THR
11	A	145	LEU
11	A	180	ARG
11	A	208	THR
11	A	227	THR
11	A	234	GLU

Model ID	Chain	Residue ID	Residue type
11	A	237	VAL
11	A	269	THR
11	A	271	ARG
11	A	286	THR
11	A	291	ILE
11	A	301	LEU
11	A	325	VAL
11	A	338	PHE
11	A	348	GLU
11	A	373	ILE
11	A	403	GLU
11	A	409	ASN
11	A	465	THR
11	A	482	LEU
11	A	499	ASN
11	A	507	LEU
11	A	515	ILE
11	B	4	ILE
11	B	22	VAL
11	B	24	ILE
11	B	28	ARG
11	B	31	ASN
11	B	38	VAL

Model ID	Chain	Residue ID	Residue type
11	B	60	LEU
11	B	62	VAL
11	B	81	VAL
11	B	83	ILE
11	B	94	ILE
11	B	98	VAL
11	B	131	THR
11	B	145	LEU
11	B	180	ARG
11	B	208	THR
11	B	227	THR
11	B	234	GLU
11	B	237	VAL
11	B	269	THR
11	B	271	ARG
11	B	286	THR
11	B	291	ILE
11	B	301	LEU
11	B	325	VAL
11	B	338	PHE
11	B	348	GLU
11	B	373	ILE
11	B	403	GLU

Model ID	Chain	Residue ID	Residue type
11	B	409	ASN
11	B	465	THR
11	B	482	LEU
11	B	499	ASN
11	B	507	LEU
11	B	515	ILE
12	A	4	ILE
12	A	22	VAL
12	A	24	ILE
12	A	28	ARG
12	A	31	ASN
12	A	38	VAL
12	A	60	LEU
12	A	62	VAL
12	A	81	VAL
12	A	83	ILE
12	A	94	ILE
12	A	98	VAL
12	A	131	THR
12	A	145	LEU
12	A	180	ARG
12	A	208	THR
12	A	227	THR

Model ID	Chain	Residue ID	Residue type
12	A	234	GLU
12	A	237	VAL
12	A	269	THR
12	A	271	ARG
12	A	286	THR
12	A	291	ILE
12	A	301	LEU
12	A	325	VAL
12	A	338	PHE
12	A	348	GLU
12	A	373	ILE
12	A	403	GLU
12	A	409	ASN
12	A	465	THR
12	A	482	LEU
12	A	499	ASN
12	A	507	LEU
12	A	515	ILE
12	B	4	ILE
12	B	22	VAL
12	B	24	ILE
12	B	28	ARG
12	B	31	ASN



Model ID	Chain	Residue ID	Residue type
12	B	38	VAL
12	B	60	LEU
12	B	62	VAL
12	B	81	VAL
12	B	83	ILE
12	B	94	ILE
12	B	98	VAL
12	B	131	THR
12	B	145	LEU
12	B	180	ARG
12	B	208	THR
12	B	227	THR
12	B	234	GLU
12	B	237	VAL
12	B	269	THR
12	B	271	ARG
12	B	286	THR
12	B	291	ILE
12	B	301	LEU
12	B	325	VAL
12	B	338	PHE
12	B	348	GLU
12	B	373	ILE

Model ID	Chain	Residue ID	Residue type
12	B	403	GLU
12	B	409	ASN
12	B	465	THR
12	B	482	LEU
12	B	499	ASN
12	B	507	LEU
12	B	515	ILE
13	A	4	ILE
13	A	22	VAL
13	A	24	ILE
13	A	28	ARG
13	A	31	ASN
13	A	38	VAL
13	A	60	LEU
13	A	62	VAL
13	A	81	VAL
13	A	83	ILE
13	A	94	ILE
13	A	98	VAL
13	A	131	THR
13	A	145	LEU
13	A	180	ARG
13	A	208	THR

Model ID	Chain	Residue ID	Residue type
13	A	227	THR
13	A	234	GLU
13	A	237	VAL
13	A	269	THR
13	A	271	ARG
13	A	286	THR
13	A	291	ILE
13	A	301	LEU
13	A	325	VAL
13	A	338	PHE
13	A	348	GLU
13	A	373	ILE
13	A	403	GLU
13	A	409	ASN
13	A	465	THR
13	A	482	LEU
13	A	499	ASN
13	A	507	LEU
13	A	515	ILE
13	B	4	ILE
13	B	22	VAL
13	B	24	ILE
13	B	28	ARG

Model ID	Chain	Residue ID	Residue type
13	B	31	ASN
13	B	38	VAL
13	B	60	LEU
13	B	62	VAL
13	B	81	VAL
13	B	83	ILE
13	B	94	ILE
13	B	98	VAL
13	B	131	THR
13	B	145	LEU
13	B	180	ARG
13	B	208	THR
13	B	227	THR
13	B	234	GLU
13	B	237	VAL
13	B	269	THR
13	B	271	ARG
13	B	286	THR
13	B	291	ILE
13	B	301	LEU
13	B	325	VAL
13	B	338	PHE
13	B	348	GLU

Model ID	Chain	Residue ID	Residue type
13	B	373	ILE
13	B	403	GLU
13	B	409	ASN
13	B	465	THR
13	B	482	LEU
13	B	499	ASN
13	B	507	LEU
13	B	515	ILE
14	A	4	ILE
14	A	22	VAL
14	A	24	ILE
14	A	28	ARG
14	A	31	ASN
14	A	38	VAL
14	A	60	LEU
14	A	62	VAL
14	A	81	VAL
14	A	83	ILE
14	A	94	ILE
14	A	98	VAL
14	A	131	THR
14	A	145	LEU
14	A	180	ARG

Model ID	Chain	Residue ID	Residue type
14	A	208	THR
14	A	227	THR
14	A	234	GLU
14	A	237	VAL
14	A	269	THR
14	A	271	ARG
14	A	286	THR
14	A	291	ILE
14	A	301	LEU
14	A	325	VAL
14	A	338	PHE
14	A	348	GLU
14	A	373	ILE
14	A	403	GLU
14	A	409	ASN
14	A	465	THR
14	A	482	LEU
14	A	499	ASN
14	A	507	LEU
14	A	515	ILE
14	B	4	ILE
14	B	22	VAL
14	B	24	ILE

Model ID	Chain	Residue ID	Residue type
14	B	28	ARG
14	B	31	ASN
14	B	38	VAL
14	B	60	LEU
14	B	62	VAL
14	B	81	VAL
14	B	83	ILE
14	B	94	ILE
14	B	98	VAL
14	B	131	THR
14	B	145	LEU
14	B	180	ARG
14	B	208	THR
14	B	227	THR
14	B	234	GLU
14	B	237	VAL
14	B	269	THR
14	B	271	ARG
14	B	286	THR
14	B	291	ILE
14	B	301	LEU
14	B	325	VAL
14	B	338	PHE

Model ID	Chain	Residue ID	Residue type
14	B	348	GLU
14	B	373	ILE
14	B	403	GLU
14	B	409	ASN
14	B	465	THR
14	B	482	LEU
14	B	499	ASN
14	B	507	LEU
14	B	515	ILE
15	A	4	ILE
15	A	22	VAL
15	A	24	ILE
15	A	28	ARG
15	A	31	ASN
15	A	38	VAL
15	A	60	LEU
15	A	62	VAL
15	A	81	VAL
15	A	83	ILE
15	A	94	ILE
15	A	98	VAL
15	A	131	THR
15	A	145	LEU



Model ID	Chain	Residue ID	Residue type
15	A	180	ARG
15	A	208	THR
15	A	227	THR
15	A	234	GLU
15	A	237	VAL
15	A	269	THR
15	A	271	ARG
15	A	286	THR
15	A	291	ILE
15	A	301	LEU
15	A	325	VAL
15	A	338	PHE
15	A	348	GLU
15	A	373	ILE
15	A	403	GLU
15	A	409	ASN
15	A	465	THR
15	A	482	LEU
15	A	499	ASN
15	A	507	LEU
15	A	515	ILE
15	B	4	ILE
15	B	22	VAL

Model ID	Chain	Residue ID	Residue type
15	B	24	ILE
15	B	28	ARG
15	B	31	ASN
15	B	38	VAL
15	B	60	LEU
15	B	62	VAL
15	B	81	VAL
15	B	83	ILE
15	B	94	ILE
15	B	98	VAL
15	B	131	THR
15	B	145	LEU
15	B	180	ARG
15	B	208	THR
15	B	227	THR
15	B	234	GLU
15	B	237	VAL
15	B	269	THR
15	B	271	ARG
15	B	286	THR
15	B	291	ILE
15	B	301	LEU
15	B	325	VAL

Model ID	Chain	Residue ID	Residue type
15	B	338	PHE
15	B	348	GLU
15	B	373	ILE
15	B	403	GLU
15	B	409	ASN
15	B	465	THR
15	B	482	LEU
15	B	499	ASN
15	B	507	LEU
15	B	515	ILE
16	A	4	ILE
16	A	22	VAL
16	A	24	ILE
16	A	28	ARG
16	A	31	ASN
16	A	38	VAL
16	A	60	LEU
16	A	62	VAL
16	A	81	VAL
16	A	83	ILE
16	A	94	ILE
16	A	98	VAL
16	A	131	THR

Model ID	Chain	Residue ID	Residue type
16	A	145	LEU
16	A	180	ARG
16	A	208	THR
16	A	227	THR
16	A	234	GLU
16	A	237	VAL
16	A	269	THR
16	A	271	ARG
16	A	286	THR
16	A	291	ILE
16	A	301	LEU
16	A	325	VAL
16	A	338	PHE
16	A	348	GLU
16	A	373	ILE
16	A	403	GLU
16	A	409	ASN
16	A	465	THR
16	A	482	LEU
16	A	499	ASN
16	A	507	LEU
16	A	515	ILE
16	B	4	ILE

Model ID	Chain	Residue ID	Residue type
16	B	22	VAL
16	B	24	ILE
16	B	28	ARG
16	B	31	ASN
16	B	38	VAL
16	B	60	LEU
16	B	62	VAL
16	B	81	VAL
16	B	83	ILE
16	B	94	ILE
16	B	98	VAL
16	B	131	THR
16	B	145	LEU
16	B	180	ARG
16	B	208	THR
16	B	227	THR
16	B	234	GLU
16	B	237	VAL
16	B	269	THR
16	B	271	ARG
16	B	286	THR
16	B	291	ILE
16	B	301	LEU

Model ID	Chain	Residue ID	Residue type
16	B	325	VAL
16	B	338	PHE
16	B	348	GLU
16	B	373	ILE
16	B	403	GLU
16	B	409	ASN
16	B	465	THR
16	B	482	LEU
16	B	499	ASN
16	B	507	LEU
16	B	515	ILE
17	A	4	ILE
17	A	22	VAL
17	A	24	ILE
17	A	28	ARG
17	A	31	ASN
17	A	38	VAL
17	A	60	LEU
17	A	62	VAL
17	A	81	VAL
17	A	83	ILE
17	A	94	ILE
17	A	98	VAL

Model ID	Chain	Residue ID	Residue type
17	A	131	THR
17	A	145	LEU
17	A	180	ARG
17	A	208	THR
17	A	227	THR
17	A	234	GLU
17	A	237	VAL
17	A	269	THR
17	A	271	ARG
17	A	286	THR
17	A	291	ILE
17	A	301	LEU
17	A	325	VAL
17	A	338	PHE
17	A	348	GLU
17	A	373	ILE
17	A	403	GLU
17	A	409	ASN
17	A	465	THR
17	A	482	LEU
17	A	499	ASN
17	A	507	LEU
17	A	515	ILE

Model ID	Chain	Residue ID	Residue type
17	B	4	ILE
17	B	22	VAL
17	B	24	ILE
17	B	28	ARG
17	B	31	ASN
17	B	38	VAL
17	B	60	LEU
17	B	62	VAL
17	B	81	VAL
17	B	83	ILE
17	B	94	ILE
17	B	98	VAL
17	B	131	THR
17	B	145	LEU
17	B	180	ARG
17	B	208	THR
17	B	227	THR
17	B	234	GLU
17	B	237	VAL
17	B	269	THR
17	B	271	ARG
17	B	286	THR
17	B	291	ILE



Model ID	Chain	Residue ID	Residue type
17	B	301	LEU
17	B	325	VAL
17	B	338	PHE
17	B	348	GLU
17	B	373	ILE
17	B	403	GLU
17	B	409	ASN
17	B	465	THR
17	B	482	LEU
17	B	499	ASN
17	B	507	LEU
17	B	515	ILE
18	A	4	ILE
18	A	22	VAL
18	A	24	ILE
18	A	28	ARG
18	A	31	ASN
18	A	38	VAL
18	A	60	LEU
18	A	62	VAL
18	A	81	VAL
18	A	83	ILE
18	A	94	ILE

Model ID	Chain	Residue ID	Residue type
18	A	98	VAL
18	A	131	THR
18	A	145	LEU
18	A	180	ARG
18	A	208	THR
18	A	227	THR
18	A	234	GLU
18	A	237	VAL
18	A	269	THR
18	A	271	ARG
18	A	286	THR
18	A	291	ILE
18	A	301	LEU
18	A	325	VAL
18	A	338	PHE
18	A	348	GLU
18	A	373	ILE
18	A	403	GLU
18	A	409	ASN
18	A	465	THR
18	A	482	LEU
18	A	499	ASN
18	A	507	LEU

Model ID	Chain	Residue ID	Residue type
18	A	515	ILE
18	B	4	ILE
18	B	22	VAL
18	B	24	ILE
18	B	28	ARG
18	B	31	ASN
18	B	38	VAL
18	B	60	LEU
18	B	62	VAL
18	B	81	VAL
18	B	83	ILE
18	B	94	ILE
18	B	98	VAL
18	B	131	THR
18	B	145	LEU
18	B	180	ARG
18	B	208	THR
18	B	227	THR
18	B	234	GLU
18	B	237	VAL
18	B	269	THR
18	B	271	ARG
18	B	286	THR

Model ID	Chain	Residue ID	Residue type
18	B	291	ILE
18	B	301	LEU
18	B	325	VAL
18	B	338	PHE
18	B	348	GLU
18	B	373	ILE
18	B	403	GLU
18	B	409	ASN
18	B	465	THR
18	B	482	LEU
18	B	499	ASN
18	B	507	LEU
18	B	515	ILE
19	A	4	ILE
19	A	22	VAL
19	A	24	ILE
19	A	28	ARG
19	A	31	ASN
19	A	38	VAL
19	A	60	LEU
19	A	62	VAL
19	A	81	VAL
19	A	83	ILE

Model ID	Chain	Residue ID	Residue type
19	A	94	ILE
19	A	98	VAL
19	A	131	THR
19	A	145	LEU
19	A	180	ARG
19	A	208	THR
19	A	227	THR
19	A	234	GLU
19	A	237	VAL
19	A	269	THR
19	A	271	ARG
19	A	286	THR
19	A	291	ILE
19	A	301	LEU
19	A	325	VAL
19	A	338	PHE
19	A	348	GLU
19	A	373	ILE
19	A	403	GLU
19	A	409	ASN
19	A	465	THR
19	A	482	LEU
19	A	499	ASN

Model ID	Chain	Residue ID	Residue type
19	A	507	LEU
19	A	515	ILE
19	B	4	ILE
19	B	22	VAL
19	B	24	ILE
19	B	28	ARG
19	B	31	ASN
19	B	38	VAL
19	B	60	LEU
19	B	62	VAL
19	B	81	VAL
19	B	83	ILE
19	B	94	ILE
19	B	98	VAL
19	B	131	THR
19	B	145	LEU
19	B	180	ARG
19	B	208	THR
19	B	227	THR
19	B	234	GLU
19	B	237	VAL
19	B	269	THR
19	B	271	ARG

Model ID	Chain	Residue ID	Residue type
19	B	286	THR
19	B	291	ILE
19	B	301	LEU
19	B	325	VAL
19	B	338	PHE
19	B	348	GLU
19	B	373	ILE
19	B	403	GLU
19	B	409	ASN
19	B	465	THR
19	B	482	LEU
19	B	499	ASN
19	B	507	LEU
19	B	515	ILE
20	A	4	ILE
20	A	22	VAL
20	A	24	ILE
20	A	28	ARG
20	A	31	ASN
20	A	38	VAL
20	A	60	LEU
20	A	62	VAL
20	A	81	VAL

Model ID	Chain	Residue ID	Residue type
20	A	83	ILE
20	A	94	ILE
20	A	98	VAL
20	A	131	THR
20	A	145	LEU
20	A	180	ARG
20	A	208	THR
20	A	227	THR
20	A	234	GLU
20	A	237	VAL
20	A	269	THR
20	A	271	ARG
20	A	286	THR
20	A	291	ILE
20	A	301	LEU
20	A	325	VAL
20	A	338	PHE
20	A	348	GLU
20	A	373	ILE
20	A	403	GLU
20	A	409	ASN
20	A	465	THR
20	A	482	LEU



Model ID	Chain	Residue ID	Residue type
20	A	499	ASN
20	A	507	LEU
20	A	515	ILE
20	B	4	ILE
20	B	22	VAL
20	B	24	ILE
20	B	28	ARG
20	B	31	ASN
20	B	38	VAL
20	B	60	LEU
20	B	62	VAL
20	B	81	VAL
20	B	83	ILE
20	B	94	ILE
20	B	98	VAL
20	B	131	THR
20	B	145	LEU
20	B	180	ARG
20	B	208	THR
20	B	227	THR
20	B	234	GLU
20	B	237	VAL
20	B	269	THR

Model ID	Chain	Residue ID	Residue type
20	B	271	ARG
20	B	286	THR
20	B	291	ILE
20	B	301	LEU
20	B	325	VAL
20	B	338	PHE
20	B	348	GLU
20	B	373	ILE
20	B	403	GLU
20	B	409	ASN
20	B	465	THR
20	B	482	LEU
20	B	499	ASN
20	B	507	LEU
20	B	515	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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