

Cell Reports, Volume 42

Supplemental information

**The diversity of the glycan shield
of sarbecoviruses related to SARS-CoV-2**

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Supplemental Table 1: Conservation of SARS-CoV-2 PNGS across 78 sarbecovirus sequences (related to Figure 1)

Position on alignment	SARS-CoV-2 glycan position	% of sites
25	17	19%
69	61	91%
82	74	3%
130	122	97%
157	146	18%
173	165	100%
247	234	97%
295	282	97%
344	331	97%
356	343	97%
401	370	91%
635	603	94%
648	616	99%
692	657	85%
745	709	99%
753	717	97%
837	801	99%
1110	1074	100%
1134	1098	100%
1170	1134	100%
1194	1158	100%
1209	1173	100%
1230	1194	100%

Supplemental Table 2: Coronavirus sequence similarity displayed as a percentage identity matrix (related to Figure 1)

	NL63	229E	OC43	HKU1	MERS	BM4831	BtKY72	Pang17	RaTG13	SARS-CoV-2	RmYN02	SARS-CoV-1	RsSHC014	WIV1	Rf1	Yun11	RS4081
NL63	100	66	31	31	29	31	31	29	30	30	30	30	30	30	31	30	31
229E	66	100	32	33	32	31	32	31	32	32	32	32	32	32	32	32	32
OC43	31	32	100	67	37	36	35	35	35	35	36	35	36	36	37	36	36
HKU1	31	33	67	100	36	35	34	34	35	35	36	35	35	36	36	34	35
MERS	29	32	37	36	100	35	35	34	35	35	35	35	35	35	35	35	35
BM4831	31	31	36	35	35	100	84	73	73	73	72	76	76	76	75	76	76
BtKY72	31	32	35	34	35	84	100	74	74	74	73	77	77	77	77	78	77
Pang17	29	31	35	34	34	73	74	100	93	93	76	78	78	78	77	77	77
RaTG13	30	32	35	35	35	73	74	93	100	98	76	78	78	78	77	77	77
SARS2	30	32	35	35	35	73	74	93	98	100	76	77	78	78	77	77	77
RmYN02	30	32	36	36	35	72	73	76	76	76	100	74	74	74	79	79	79
SARS1	30	32	35	35	35	76	77	78	78	77	74	100	90	92	79	81	81
RsSHC014	30	32	36	35	35	76	77	78	78	78	74	90	100	97	80	81	81
WIV1	30	32	36	36	35	76	77	78	78	78	74	92	97	100	80	81	81
Rf1	31	32	37	36	35	75	77	77	77	77	79	79	80	80	100	90	89
Yun11	30	32	36	34	35	76	78	77	77	77	79	81	81	81	90	100	92
RS4081	31	32	36	35	35	76	77	77	77	77	79	81	81	81	89	92	100

Supplemental Table 3: Abundance of SARS-CoV-2 PNGS in the 78- and 12- virus panels (Related to Figure 1)

78-virus panel		12-virus panel		
	% of sites		Number of sites	
N165	100%	N122	12	100%
N1074	100%	N165	12	100%
N1098	100%	N234	12	100%
N1134	100%	N282	12	100%
N1158	100%	N331	12	100%
N1173	100%	N343	12	100%
N1194	100%	N616	12	100%
N616	99%	N717	12	100%
N709	99%	N801	12	100%
N801	99%	N1074	12	100%
N122	97%	N1098	12	100%
N234	97%	N1134	12	100%
N282	97%	N1158	12	100%
N331	97%	N1173	12	100%
N343	97%	N1194	12	100%
N717	97%	N61	11	92%
N603	94%	N370	11	92%
N61	91%	N603	11	92%
N370	91%	N709	10	83%
N657	85%	N657	9	75%
N17	19%	N149	6	50%
N149	18%	N17	3	25%
N74	3%	N74	1	8%
<hr/>		<hr/>		
sites under 90 %		sites under 90 %		
N657	85%	N709	10	83%
N17	19%	N657	9	75%
N149	18%	N149	6	50%
N74	3%	N17	3	25%
<hr/>		<hr/>		
		N74	1	8%
<hr/>		<hr/>		

Supplemental Table 5: Site-specific glycan analysis of clade 1b sarbecoviruses (related to Figure 2 and 3)

Pang17	N17	N20	N28	N30	N59	N61	N69	N74	N112	N122	N149	N162	N165	N176	N185	N234	N282	N307	N331	N343	N370	N554	N603	N616	N657	N677	N709	N717	N801	N1074	N1098	N1134	N1158	N1173	N1194		
MBGlc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
M9	100	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
M8	0	1	0	1	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
M7	0	0	16	1	0	0	0	0	4	0	0	0	0	0	6	0	0	0	0	14	0	0	0	0	0	0	8	6	0	1	0	0	0	0	0	0	
M6	0	0	52	5	0	0	0	0	4	0	0	0	0	0	3	0	0	0	1	31	0	0	0	0	0	0	7	3	0	0	0	0	0	0	0	0	
M5	0	0	26	62	0	0	0	0	55	4	0	0	0	0	2	15	0	0	0	0	0	0	0	0	0	0	100	79	66	57	5	7	0	0	0	0	
M4	0	0	3	9	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hybrid	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fhybrid	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HexNAc(3)(x)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HexNAc(3)(F)(x)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HexNAc(4)(x)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HexNAc(4)(F)(x)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HexNAc(5)(x)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HexNAc(5)(F)(x)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HexNAc(6+)(x)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HexNAc(6+)(F)(x)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unoccupied	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Core	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Oligomannose	100	0	98	78	0	0	0	0	63	4	0	0	0	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hybrid	0	0	0	11	0	0	0	0	18	0	0	0	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Complex	0	0	2	10	0	0	0	0	19	96	0	0	0	0	0	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unoccupied	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fucose	0	0	0	2	0	0	0	0	7	95	0	0	0	0	0	0	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NeuAc	0	0	0	1	0	0	0	0	8	24	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

RaTG13	N17	N20	N28	N30	N59	N61	N69	N74	N112	N122	N149	N162	N165	N176	N185	N234	N282	N307	N331	N343	N370	N554	N603	N616	N657	N677	N709	N717	N801	N1074	N1098	N1134	N1158	N1173	N1194			
MBGlc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
M9	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M8	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M7	0	0	28	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M6	0	0	45	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M5	0	0	16	63	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M4	0	0	1	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hybrid	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fhybrid	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HexNAc(3)(x)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HexNAc(3)(F)(x)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HexNAc(4)(x)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HexNAc(4)(F)(x)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HexNAc(5)(x)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HexNAc(5)(F)(x)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HexNAc(6+)(x)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HexNAc(6+)(F)(x)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unoccupied	100	0	4	16	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Core	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Oligomannose	0	0	95	81	0	0	0	0	19	0	0
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RS4081	N17	N20	N28	N30	N59	N61	N69	N74	N112	N122	N149	N162	N165	N176	N185	N234	N282	N307	N331	N343	N370	N554	N603	N616	N657	N677	N709	N717	N801	N1074	N1088	N1134	N1156	N1173	N1194			
MBGlc					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
M9					0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
M8					0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M7					0	0	0	0	0	0	0	0	0	0	0	16	0	38	0	0	0	1	0	0	0	0	0	0	7	1	0	0	0	0	0	0	0	0
M6					2	0	0	0	0	0	0	0	0	0	0	11	0	25	0	0	1	1	0	0	0	0	0	16	1	0	0	0	0	0	0	0	0	0
M5					61	0	0	0	0	0	0	12	0	0	0	20	0	37	3	19	26	19	0	0	0	0	64	25	4	3	1	0	0	0	0	0	0	0
M4					4	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5	0	1	0	0	0	0	6	2	0	0	0	0	0	0	0	0	0	0
M3					0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
FM					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hybrid					5	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	1	0	0	0	0	0	2	6	1	1	0	0	0	0	0	0	0	0
Fhybrid					1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0
HexNAc(3)(x)					7	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	3	0	0	0	0	4	4	2	5	0	0	0	0	0	0	0	0
HexNAc(3)(F)(x)					1	0	0	0	0	0	0	0	0	0	0	1	0	0	5	5	4	12	6	0	0	0	3	12	2	0	0	0	0	0	0	0	0	0
HexNAc(4)(x)					10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	4	2	24	0	0	0	0	0	0	0	0	0
HexNAc(4)(F)(x)					3	0	0	0	0	0	0	0	0	0	0	1	41	0	56	46	60	63	70	56	0	0	39	51	44	20	0	0	0	0	0	0	0	0
HexNAc(5)(x)					6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	6	0	0	0	0	0	0	0	0	0
HexNAc(5)(F)(x)					1	0	0	0	0	0	0	0	0	0	0	0	59	0	29	17	2	0	23	12	0	0	12	18	10	2	0	0	0	0	0	0	0	0
HexNAc(6+)(x)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HexNAc(6+)(F)(x)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	100	0	0	0
Unoccupied					0	0	0	0	0	0	0	0	0	0	0	21	0	0	4	2	0	0	0	0	33	0	0	0	5	0	0	0	77	0	0	0	0	0
Core					0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0

Oligomannose					67						12				71	0	100	3	24	29		22	0	0		94	29	5	3	1	0									
Hybrid					6		0	0			1				2	0	0	0	1	4		0	1	0		0	2	6	4	2	0	0	0	0	0	0	0	0	0	
Complex					26		0	0			87				6	100	0	92	73	67		78	99	67		0	4	64	86	95	22	100	0	0	0	0	0	0	0	
Unoccupied					0		0	0			0				21	0	0	4	2	0		0	0	33		0	0	0	5	0	77	0	0	0	0	0	0	0	0	0
Fucose					5		0	0			87				2	100	0	92	68	69		74	99	67		0	0	55	85	59	22	100	0	0	0	0	0	0	0	0
NeuAc					3		0	0			7				0	6	0	22	1	19		0	5	16		0	2	22	13	64	2	60	0	0	0	0	0	0	0	

Supplemental Table 7: Site-specific glycan analysis of clade 3 sarbecoviruses (related to Figure 2 and 3)

BiKY72	N17	N20	N28	N30	N69	N61	N69	N74	N112	N149	N162	N165	N176	N185	N234	N282	N307	N331	N343	N370	N554	N603	N616	N657	N677	N709	N717	N801	N1074	N1098	N1134	N1158	N1173	N1194	
M9Glc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
M9	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
M8	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
M7	0	0	0	0	0	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
M6	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
M5	3	0	0	0	37	64	46	1	7	0	0	0	0	22	7	5	3	16	46	3	12	46	3	12	19	38	7	21	8	0	0	0	18		
M4	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
M3	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	
FM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	
Hybrid	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	2	0	0	0	0	0	0	0	0	
Fhybrid	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	
HexNAc(3)(x)	0	0	0	0	11	12	6	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	18	5	0	0	0	0	0	0	0	0	
HexNAc(3)(F)(x)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	2	0	0	0	0	0	0	0	28	6	0	0	0	0	0	0	0	0	
HexNAc(4)(x)	0	0	0	0	33	11	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	0	0	0	0	0	0	
HexNAc(4)(F)(x)	27	0	0	0	6	12	1	3	52	0	0	0	0	0	0	51	62	84	54	31	29	54	31	29	7	25	37	9	7	0	0	0	0	0	
HexNAc(5)(x)	0	0	0	0	11	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
HexNAc(5)(F)(x)	8	0	0	0	0	0	0	5	41	0	0	0	0	0	0	35	32	0	0	21	27	0	0	0	3	16	0	0	0	0	0	0	0	0	
HexNAc(6+)(x)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HexNAc(6+)(F)(x)	0	0	0	0	0	0	0	1	0	0	0	0	0	22	0	3	0	0	0	46	32	0	0	0	3	0	56	33	0	100	0	100	0	15	
Unoccupied	59	1	0	0	12	89	0	0	0	0	0	0	0	70	0	0	0	0	0	0	0	0	0	0	0	0	0	32	86	0	0	0	67		
Core	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	

Oligomannose	3	0	0	0	37	66	46	1	7	0	0	0	0	99	7	5	4	16	46	3	12	46	3	12	24	39	7	23	8	0	0	0	18	
Hybrid	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	4	0	0	0	0	0	0	0	0
Complex	38	0	0	0	61	34	40	10	93	0	1	22	0	2	22	95	96	84	54	97	88	54	97	88	62	57	93	44	7	100	0	15		
Unoccupied	59	1	0	0	12	89	0	0	0	0	0	0	0	70	0	0	0	0	0	0	0	0	0	0	0	0	0	32	86	0	0	0	67	
Fucose	35	0	0	0	6	12	1	10	93	0	0	22	0	22	0	94	96	84	54	97	88	54	97	88	47	48	93	41	7	100	0	15		
NeuAc	20	0	0	0	13	0	10	1	36	0	0	0	0	0	26	12	27	0	0	2	4	0	0	0	7	7	27	24	0	42	0	0	0	

BM4831	N17	N20	N28	N30	N69	N61	N69	N74	N112	N149	N162	N165	N176	N185	N234	N282	N307	N331	N343	N370	N554	N603	N616	N657	N677	N709	N717	N801	N1074	N1098	N1134	N1158	N1173	N1194	
M9Glc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M9	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M8	0	0	0	0	6	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M7	0	0	0	0	13	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
M6	0	0	0	0	35	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M5	0	0	0	0	40	2	39	0	18	10	0	0	0	8	0	26	0	0	14	0	0	0	0	0	0	3	21	8	0	1	1	3	0	0	
M4	0	0	0	0	0	0	7	0	0	0	0	0	0	3	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
M3	0	0	0	0	0	0	6	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hybrid	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Fhybrid	0	0	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
HexNAc(3)(x)	0	0	0	0	0	0	0	4	1	0	0	0	0	12	0	0	15	0	0	0	0	0	0	0	19	0	0	2	0	0	0	0	0	0	0
HexNAc(3)(F)(x)	0	0	0	0	0	3	2	13	9	0	0	0	0	21	0	0	26	8	11	0	0	0	0	4	35	3	0	0	0	0	0	0	0	0	0
HexNAc(4)(x)	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	3	0	5	0	0	0	0	0
HexNAc(4)(F)(x)	0	0	0	0	0	57	6	53	44	0	35	29	23	84	19	41	72	0	9	15	8	64	8	60	47	6	0	0	0	0	0	0	0	0	0
HexNAc(5)(x)	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0
HexNAc(5)(F)(x)	0	0	0	0	0	22	3	7	26	0	54	7	76	16	4	28	17	0	58	40	9	10	66	24	28	21	0	0	0	0	0	0	0	0	0
HexNAc(6+)(x)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HexNAc(6+)(F)(x)	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	13	0	0	0	0	0	32	10	0	26	1	16	21	0	39	0	61	
Unoccupied	0	0	0	0	7	15	27	2	8	12	11	0	0	12	11	0	0	0	9	0	0	0	2	29	0	8	0	3	3	50	0	61	0	61	
Core	0	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	1	0	1	0	0	0	0	0	0	1	4	0	0	0	0	0	0	0	0

Oligomannose	0	0	0	0	93	2	46	18	10	84	0	30	0	0	14	0	0	0	0	0	0	0	0	0	0	3	25	8	0	1	1	3	0	0		
Hybrid	0	0	0	0	5	2	0	2	0	0	0	2	0	0	11	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	
Complex	0	0	0	0	83	22	78	82	3	89	68	100	100	75	90	100	0	98	69	72	84	100	96	96	48	0	0	0	0	0	0	0	0	0	0	39
Unoccupied	0	0	0	0	7	15	27	2	8	12	11	0	0	0	0	9	0	0	2	29	0</															