

Supplemental Table 1. Binding of MGL to synthetic glycan array version 5.1 from the Consortium for Functional Glycomics

Glycan number	Rank order at 1 µg/ml	Average RFU	Standard deviation
131	Galb1-4GlcNAcb1-6GalNAca-Sp8	1189	64
494	Fuca1-2Galb1-4GlcNAcb1-6GalNAca-Sp14	743	62
519	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-6GalNAc-Sp14	730	51
193	GlcNAcb1-6GalNAca-Sp14	711	19
192	GlcNAcb1-6GalNAca-Sp8	605	303
408	GalNAcb1-3Gala1-6Galb1-4Glc-Sp8	556	10
528	GalNAcb1-4GlcNAcb1-2Mana-Sp0	555	36
562	GalNAcb1-3GlcNAcb-Sp0	538	14
495	Gala1-3Galb1-4GlcNAcb1-6GalNAca-Sp14	510	28
491	Neu5Aca2-3Galb1-3GlcNAcb1-6GalNAca-Sp14	508	98
306	GalNAcb1-3Galb-Sp8	492	21
489	Gala1-3Galb1-3GlcNAcb1-6GalNAca-Sp14	489	30
4	GalNAca-Sp8	484	52
92	GalNAca1-3Galb-Sp8	469	15
95	GalNAcb1-3(Fuca1-2)Galb-Sp8	458	92
479	Neu5Aca2-3Galb1-4GlcNAcb1-6GalNAca-Sp14	449	15
132	Galb1-4GlcNAcb1-6GalNAc-Sp14	441	17
93	GalNAca1-4(Fuca1-2)Galb1-4GlcNAcb-Sp8	424	69
97	GalNAcb1-4(Fuca1-3)GlcNAcb-Sp0	424	100
506	GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-6GalNAca-Sp14	423	24
7	Fuca-Sp9	417	113
15	GalNAcb-Sp8	375	54
334	GalNAcb1-3Gala1-4Galb1-4GlcNAcb1-3Galb1-4Glc-Sp0	361	30
563	GalNAcb1-4GlcNAcb1-3GalNAcb1-4GlcNAcb-Sp0	351	14
512	(6S)GalNAcb1-4GlcNAc-Sp8	306	73
525	Gala1-3(Fuca1-2)Galb1-3GlcNAcb1-6GalNAc-Sp14	290	89
99	GalNAcb1-4GlcNAcb-Sp8	264	47
503	GalNAcb1-4(Fuca1-3)(6S)GlcNAcb-Sp8	250	34
98	GalNAcb1-4GlcNAcb-Sp0	248	45
96	GalNAcb1-3Gala1-4Galb1-4GlcNAcb-Sp0	247	65
5	GalNAca-Sp15	246	54
488	Galb1-3GlcNAcb1-6GalNAca-Sp14	219	46
265	Neu5Aca2-6GalNAca-Sp8	215	54
266	Neu5Aca2-6GalNAcb1-4GlcNAcb-Sp0	205	7
228	GalNAcb1-4(Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp0	205	16
514	GalNAcb1-4(6S)GlcNAc-Sp8	191	75
285	Neu5Gca2-6GalNAca-Sp0	185	26
225	GalNAcb1-4(Neu5Aca2-8Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp0	155	28
226	GalNAcb1-4(Neu5Aca2-8Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp0	130	10
94	GalNAcb1-3GalNAca-Sp8	104	20
490	Galb1-3(Fuca1-4)GlcNAcb1-6GalNAca-Sp14	100	8
233	GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc-Sp0	92	28
379	GalNAcb1-4GlcNAcb1-2Mana1-6(GalNAcb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp12	84	20
86	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb-Sp8	76	9
90	GalNAca1-3(Fuca1-2)Galb-Sp18	73	36
144	Galb1-3GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc-Sp0	72	3

232	GalNAcb1-4(Neu5Aca2-3)Galb1-4GlcNAcb-Sp8	62	12
447	Galb1-4(Fuca1-3)GlcNAcb1-6GalNAc-Sp14	54	17
91	GalNAca1-3GalNAcb-Sp8	52	10
143	Galb1-3GalNAcb1-3Gala1-4Galb1-4Glc-Sp0	51	5
370	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-6(GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	48	6
231	GalNAcb1-4(Neu5Aca2-3)Galb1-4GlcNAcb-Sp0	39	10
82	GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb-Sp0	34	10
63	Fuca1-2Galb1-3GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc-Sp0	32	9
282	Neu5Gca2-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	30	3
415	GalNAca1-3GalNAcb1-3Gala1-4Galb1-4Glc-Sp0	28	8
411	Galb1-3GalNAcb1-4(Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp0	26	7
89	GalNAca1-3(Fuca1-2)Galb-Sp8	25	4
166	Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp8	25	6
572	Galb1-3GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-3GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(Galb1-3GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	24	6
373	GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-6(GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	23	10
559	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Mana1-4GlcNAcb1-4GlcNAc-Sp24	20	4
336	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	19	9
335	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	18	9
583	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	17	6
588	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	17	2
402	GalNAca1-3GalNAcb1-3Gala1-4Galb1-4GlcNAcb-Sp0	16	10
587	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	16	5
109	Gala1-4(Gala1-3)Galb1-4GlcNAcb-Sp8	15	6
263	Neu5Aca2-3Galb1-4Glc-Sp0	15	3
173	GlcNAca1-3Galb1-4GlcNAcb-Sp8	14	7
362	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	14	4
392	GalNAcb1-4(Neu5Aca2-3)Galb1-4GlcNAcb1-3GalNAca-Sp14	14	4
585	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	13	4
57	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp24	13	6
582	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	13	4
87	GalNAca1-3(Fuca1-2)Galb1-4Glc-Sp0	12	5
577	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	12	6
581	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp19	12	5
536	GalNAca1-3(Fuca1-2)Galb1-3GalNAcb1-3Gala1-4Galb1-4Glc-Sp21	12	7
324	Galb1-3GlcNAcb1-2)Mana1-6(Galb1-3GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19	12	2
24	(3S)Galb1-4(Fuca1-3)(6S)Glc-Sp0	12	3
549	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp25	12	6
332	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	11	2
395	Gala1-3Galb1-3(Fuca1-4)GlcNAcb1-2)Mana1-6(Gala1-3Galb1-3(Fuca1-4)GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp19	11	7
493	Galb1-4(Fuca1-3)GlcNAcb1-6(Neu5Aca2-6(Neu5Aca2-3Galb1-3)GlcNAcb1-3)Galb1-4Glc-Sp21	11	3
121	Gala1-4Galb1-4GlcNAcb-Sp8	11	4
240	Neu5Aca2-3Galb1-3(Fuca1-4)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	11	3

153	Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	8	4
527	Gala1-3Galb1-3GlcNAcb1-2Mana-Sp0	7	2
483	Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	7	4
463	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-4)(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	7	3
129	Galb1-3(Fuca1-4)GlcNAc-Sp8	7	2
446	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-4(Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	7	6
576	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	7	4
116	Gala1-3Galb1-4Glc-Sp0	7	2
33	(3S)Galb1-4(Fuca1-3)GlcNAc-Sp8	7	1
118	Gala1-3Galb-Sp8	7	5
424	GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-3GalNAc-Sp14	7	7
171	Galb1-4Glc-Sp0	7	5
184	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	7	6
515	(3S)GalNAcb1-4GlcNAc-Sp8	7	4
274	Neu5Aca2-6Galb-Sp8	7	7
297	(6S)Galb1-4(6S)GlcNAcb-Sp0	7	2
101	Gala1-3(Fuca1-2)Galb1-3GlcNAcb-Sp0	7	5
343	GlcNAca1-4Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	7	6
368	Galb1-4(Fuca1-3)GlcNAcb1-6(Fuca1-2Galb1-4GlcNAcb1-3)Galb1-4Glc-Sp21	7	4
404	Gala1-4Galb1-4GlcNAcb1-2Mana1-6(Gala1-4Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp24	7	4
312	MurNAcb1-4GlcNAcb-Sp10	7	4
137	Neu5Acb2-6(Galb1-3)GalNAca-Sp8	7	6
190	GlcNAcb1-4GlcNAcb1-4GlcNAcb1-4GlcNAcb1-4GlcNAcb1-Sp8	7	4
453	GalNAcb1-4Galb1-4Glc-Sp0	7	4
119	Gala1-4(Fuca1-2)Galb1-4GlcNAcb-Sp8	7	2
474	Neu5Aca2-3Galb1-3GlcNAcb1-6(Neu5Aca2-3Galb1-3GlcNAcb1-2)Mana1-6(Neu5Aca2-3Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19	7	4
27	(3S)Galb1-4(6S)Glc-Sp8	7	6
152	Galb1-4(Fuca1-3)GlcNAcb-Sp8	7	2
275	Neu5Aca2-8Neu5Aca-Sp8	7	6
178	GlcNAcb1-6(GlcNAcb1-3)Galb1-4GlcNAcb-Sp8	7	3
208	Mana1-2Mana1-6(Mana1-2Mana1-3)Mana-Sp9	7	2
552	Neu5Gca2-8Neu5Gca2-3Galb1-4GlcNAc-Sp0	7	5
348	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3Manb1-4GlcNAcb1-4GlcNAc-Sp12	6	5
88	GlcNAcb1-3Galb1-3GalNAca-Sp8	6	6
459	Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-4)(Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	6	2
579	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	6	9
366	Neu5Aca2-6GlcNAcb1-4GlcNAc-Sp21	6	2
565	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp25	6	3
420	Fuca1-2Galb1-4GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	6	4
244	Neu5Aca2-6(Neu5Aca2-3Galb1-3)GalNAca-Sp14	6	4
325	Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	6	5
105	Gala1-3(Fuca1-2)Galb1-4GlcNAc-Sp0	6	10
120	Gala1-4Galb1-4GlcNAcb-Sp0	6	8
16	GlcNAcb-Sp0	6	7
114	Gala1-3Galb1-3GlcNAcb-Sp0	6	3
102	Gala1-3(Fuca1-2)Galb1-3GlcNAcb-Sp8	6	6
48	Neu5,9Ac2a-Sp8	6	6
610	Galb1-3GalNAcb1-4(Neu5Aca2-8Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp21	6	5

107	Gala1-3(Fuca1-2)Galb-Sp8	6	1
309	GlcNAcb1-3Man-Sp10	6	4
361	Fuca1-2Galb1-4GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	6	3
39	(6S)(4S)Galb1-4GlcNAcb-Sp0	6	4
606	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	6	2
162	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	6	4
607	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	6	3
187	GlcNAcb1-6(GlcNAcb1-4)GalNAca-Sp8	6	5
365	Fuca1-4(Galb1-3)GlcNAcb1-2Mana1-6(Fuca1-4(Galb1-3)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	6	2
34	(3S)Galb1-4(6S)GlcNAcb-Sp0	6	5
284	Neu5Gca2-3Galb1-4Glc-Sp0	6	3
308	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	6	3
359	KDNa2-3Galb1-3GalNAca-Sp14	6	9
108	Gala1-3(Fuca1-2)Galb-Sp18	6	2
316	Mana1-2Mana1-6(Mana1-2Mana1-3)Mana1-6(Mana1-2Mana1-2Mana1-3)Mana-Sp9	6	5
248	Fuca1-2(6S)Galb1-4Glc-Sp0	5	5
288	Neu5Aca2-3Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp14	5	5
398	Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	5	5
321	Neu5Aca2-8Neu5Ac-Sp17	5	4
298	(6P)Glc-Sp10	5	2
480	Neu5Aca2-6Galb1-4GlcNAcb1-6GalNAca-Sp14	5	4
540	GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp25	5	5
467	Gala1-3(Fuca1-2)Galb1-3GalNAca-Sp8	5	9
179	GlcNAcb1-3GalNAca-Sp8	5	7
407	Galb1-3GlcNAca1-6Galb1-4GlcNAcb-Sp0	5	6
448	Galb1-4GlcNAcb1-2Mana-Sp0	5	4
217	Manb1-4GlcNAcb-Sp0	5	4
403	Gala1-4Galb1-3GlcNAcb1-2Mana1-6(Gala1-4Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19	5	4
59	Fuca1-2Galb1-3GalNAcb1-3Gala1-4Galb1-4Glc-Sp9	5	0
461	Neu5Aca2-3Galb1-4GlcNAcb1-6(Neu5Aca2-3Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	5	4
254	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	5	4
419	Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-6(Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	5	2
406	Galb1-3GlcNAcb1-6Galb1-4GlcNAcb-Sp0	5	3
49	Neu5,9Ac2a2-6Galb1-4GlcNAcb-Sp8	5	4
318	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	5	3
155	Galb1-4(6S)Glc-Sp0	5	9
500	Fuca1-2Galb1-3(6S)GlcNAcb-Sp0	5	5
530	GlcNAcb1-2 Mana1-6(GlcNAcb1-4)(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp21	5	2
417	Gala1-3(Fuca1-2)Galb1-4(Fuca1-3)GlcNAcb1-3GalNAcb-Sp14	5	2
112	Gala1-3GalNAcb-Sp8	5	2
485	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	5	1
185	GlcNAcb1-3Galb1-4Glc-Sp0	5	2
449	Fuca1-2Galb1-4GlcNAcb1-6(Fuca1-2Galb1-4GlcNAcb1-3)GalNAcb-Sp14	5	3
194	GlcNAcb1-6Galb1-4GlcNAcb-Sp8	5	1
278	Neu5Ac2-6GalNAca-Sp8	5	4
299	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb1-6(Galb1-3)GalNAca-Sp14	5	1
533	Fuca1-4(Galb1-3)GlcNAcb1-2 Mana-Sp0	5	2
375	Fuca1-4(Fuca1-2Galb1-3)GlcNAcb1-2Mana1-3(Fuca1-4(Fuca1-2Galb1-3)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19	5	6

106	Gala1-3(Fuca1-2)Galb1-4GlcB-Sp0	5	4
79	Fuca1-3GlcNAcb-Sp8	4	4
	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp25	4	3
550	GlcNAcb1-4GlcNAcb-Sp12	4	2
311	Galb1-3GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-3GlcNAcb1-3)Galb1-4GlcB-Sp0	4	3
382	Neu5Aca2-6(Galb1-3)GalNAca-Sp8	4	4
135	GlcNAca1-6Galb1-4GlcNAcb-Sp8	4	4
174	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	4	5
575	Galb1-4(Fuca1-3)GlcNAcb1-3GalNAca-Sp14	4	6
401	Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-6(Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	4	7
371	GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	4	10
539	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	4	5
163	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-3GlcNAcb-Sp0	4	3
295	GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	4	2
320	Fuca1-2(6S)Galb1-3(6S)GlcNAcb-Sp0	4	2
501	(6S)Galb1-4GlcNAcb-Sp8	4	5
44	Fuca1-4(Galb1-3)GlcNAcb-Sp8	4	5
130	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6Manb1-4GlcNAcb1-4GlcNAcb-Sp12	4	3
347	Neu5Aca2-3Galb1-4GlcNAcb-Sp8	4	1
260	Gala1-3Galb1-4(Fuca1-3)GlcNAcb-Sp8	4	10
113	Galb1-4GlcNAcb1-3Galb1-4GlcB-Sp0	4	0
164	GlcAb-Sp8	4	5
202	Mana1-6(Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp19	4	3
484	Neu5Gca2-6Galb1-4GlcNAcb-Sp0	4	2
286	Galb1-4GlcNAcb1-2Mana1-6(Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	4	5
364	Galb1-3Galb-Sp8	4	4
146	Fuca1-2Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	4	6
74	GlcNAcb1-3Galb1-3GalNAc-Sp14	4	4
566	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb-Sp8	4	2
255	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	4	8
270	GlcNAcb1-3Galb1-4GlcNAcb1-6(GlcNAcb1-3Galb1-3)GalNAca-Sp14	4	7
561	GlcNAcb1-4GlcNAcb-Sp10	4	5
310	Fuca1-2Galb1-3GalNAcb1-3Gala-Sp9	4	2
58	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	4	4
545	(3S)GalNAcb1-4(Fuca1-3)GlcNAcb-Sp8	4	2
504	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	4	5
301	GlcNAcb1-2(GlcNAcb1-6)Mana1-6(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19	4	5
421	Neu5Aca2-6Galb1-4GlcNAcb1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	4	6
465	Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	4	2
154	Neu5Aca2-3Galb1-4GlcNAcb1-4Mana1-6(GlcNAcb1-4)(Neu5Aca2-3Galb1-4GlcNAcb1-4)(Neu5Aca2-3Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	4	4
460	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-6(GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-3)GalNAc-Sp14	4	9
451	Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	4	2
319	Neu5Aca2-6(Galb1-3)GalNAca-Sp14	4	3
136	GlcNAca1-4Galb1-3GalNAc-Sp14	4	5
344	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	4	5
547	GlcN(Gc)b-Sp8	4	6
18	GlcNAcb1-2Mana1-6(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	4	3
352	KDNa2-3Galb1-3GlcNAcb-Sp0	4	3
205	Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-3(Fuca1-4)GlcNAcb-Sp0	3	4
292			

543	Neu5Gca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Gca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp24	3	3
469	Glca1-6Glca1-6Glca1-6GlcB-Sp10	3	8
236	Neu5Aca2-3GalNAca-Sp8	3	4
206	KDNa2-3Galb1-4GlcNAcb-Sp0	3	3
256	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb-Sp8	3	5
377	Neu5Aca2-6Galb1-4GlcNAcb1-3GalNAc-Sp14	3	1
537	Gala1-3(Fuca1-2)Galb1-3GalNAcb1-3Gala1-4Galb1-4Glc-Sp21	3	6
502	Neu5Aca2-6GalNAcb1-4(6S)GlcNAcb-Sp8	3	3
458	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19	3	5
201	GlcAa-Sp8	3	6
508	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-4)Galb1-4GlcNAcb1-4(Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAc-Sp21	2	6
246	Neu5Aca2-3Galb1-3GalNAcb1-3Gala1-4Galb1-4GlcB-Sp0	2	8
104	Gala1-3(Fuca1-2)Galb1-4(Fuca1-3)GlcNAcb-Sp8	2	7
117	Gala1-3Galb1-4Glc-Sp10	2	5
387	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-4(Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	2	4
569	(3S)GlcAb1-3Galb1-4GlcNAcb1-3Galb1-4Glc-Sp0	2	4
291	Galb1-4(Fuca1-3)(6S)GlcB-Sp0	2	4
150	Galb1-3GlcNAcb-Sp8	2	5
133	GlcNAcb1-6(Galb1-3)GalNAca-Sp8	2	4
608	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	2	5
570	(3S)GlcAb1-3Galb1-4GlcNAcb1-2Mana-Sp0	2	1
122	Gala1-4Galb1-4GlcB-Sp0	2	5
602	Neu5Aca2-6Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp14	2	8
3	Mana-Sp8	2	3
165	Galb1-4GlcNAcb1-3Galb1-4GlcB-Sp8	2	6
327	Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-6(Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	2	4
426	Fuca1-2Galb1-3GlcNAcb1-2Mana1-6(Fuca1-2Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	2	4
257	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4GlcNAcb-Sp8	2	1
148	Galb1-3GlcNAcb1-3Galb1-4GlcB-Sp10	2	3
535	GlcNAcb1-3Galb1-4GlcNAcb1-6(GlcNAcb1-3)Galb1-4GlcNAc-Sp0	2	8
486	Neu5Aca2-3Galb1-3GlcNAcb1-2Mana1-6(GlcNAcb1-4)(Neu5Aca2-3Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21	2	1
186	GlcNAcb1-4-MDPLys	2	6
26	(3S)Galb1-4(6S)GlcB-Sp0	2	2
542	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp24	2	6
124	Gala1-6GlcB-Sp8	2	6
434	GlcNAcb1-6(GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(GlcNAcb1-4(GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21	2	3
482	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	2	6
452	Neu5Aca2-8Neu5Aca2-3Galb1-3GalNAcb1-4(Neu5Aca2-8Neu5Aca2-3)Galb1-4GlcB-Sp0	2	1
220	Fuca1-2(6S)Galb1-4GlcNAcb-Sp0	2	2
496	Galb1-4(Fuca1-3)GlcNAcb1-2Mana-Sp0	2	5
280	Neu5Gca2-3Galb1-3(Fuca1-4)GlcNAcb-Sp0	2	5
433	GlcNAcb1-6(GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21	2	0
337	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb1-6(Neu5Aca2-3Galb1-3)GalNAc-Sp14	2	9
333	Gala1-4Galb1-4GlcNAcb1-3Galb1-4GlcB-Sp0	2	3
462	Neu5Aca2-3Galb1-4GlcNAcb1-6(Neu5Aca2-3Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(Neu5Aca2-3Galb1-4GlcNAcb1-4(Neu5Aca2-3Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	2	1
219	(3S)Galb1-4(Fuca1-3)(6S)GlcNAcb-Sp8	2	5
410	Galb1-4GlcNAcb1-6(Neu5Aca2-6Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp21	2	6
556	Neu5Gca2-8Neu5Gca2-6Galb1-4GlcNAc-Sp0	2	5
385	Galb1-4(Fuca1-3)GlcNAcb1-6(Fuca1-4(Fuca1-2Galb1-3)GlcNAcb1-3)Galb1-4Glc-Sp21	2	6

183	GlcNAcb1-3Galb1-4GlcNAcb-Sp8	2	4
314	Mana1-6(Mana1-3)Mana1-6(Mana1-3)Manb-Sp10	2	4
326	Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	2	3
481	Neu5Aca2-6Galb1-4 GlcNAcb1-6(Neu5Aca2-6Galb1-4GlcNAcb1-3)GalNAca-Sp14	2	4
456	Neu5Aca2-6Galb1-4GlcNAcb1-6(Fuca1-2Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp21	1	5
159	Galb1-4GlcNAcb1-3GalNAca-Sp8	1	8
127	Galb1-3GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	1	4
134	GlcNAcb1-6(Galb1-3)GalNAca-Sp14	1	4
389	Fuca1-2Galb1-3GalNAca1-3(Fuca1-2)Galb1-4Glc-Sp0	1	4
363	Gala1-3Galb1-4GlcNAcb1-2Mana1-6(Gala1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	1	2
177	GlcNAcb1-6(GlcNAcb1-3)GalNAca-Sp14	1	3
468	Gala1-3(Fuca1-2)Galb1-3GalNAcb-Sp8	1	2
567	Galb1-3GlcNAcb1-6(Galb1-3)GalNAc-Sp14	1	7
473	Fuca1-2Galb1-3(Fuca1-4)GlcNAcb1-2Mana1-6(Fuca1-2Galb1-3(Fuca1-4)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp19	1	7
534	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb1-2Mana-Sp0	1	5
243	Neu5Aca2-6(Neu5Aca2-3Galb1-3)GalNAca-Sp8	1	5
339	GlcNAca1-4Galb1-4GlcNAcb-Sp0	1	5
37	(3S)Galb1-4GlcNAcb-Sp8	1	5
513	(3S)GalNAcb1-4(3S)GlcNAc-Sp8	1	2
425	Gala1-3Galb1-3GlcNAcb1-3GalNAc-Sp14	1	5
317	Neu5Aca2-3Galb1-4GlcNAcb1-6(Neu5Aca2-3Galb1-3)GalNAca-Sp14	1	4
175	GlcNAcb1-2Galb1-3GalNAca-Sp8	1	6
350	Galb1-4GlcNAcb1-2Mana1-6Manb1-4GlcNAcb1-4GlcNAc-Sp12	1	2
242	Neu5Aca2-3Galb1-3(6S)GalNAca-Sp8	1	5
357	KDNa2-6Galb1-4GlcNAc-Sp0	1	8
353	Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	1	6
53	GlcNAcb1-2Mana1-6(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp13	1	5
250	Neu5Aca2-3Galb1-3GlcNAcb-Sp8	1	5
499	Fuca1-2Galb1-4GlcNAcb1-2Mana-Sp0	1	4
293	Galb1-4GlcNAcb1-3Galb1-3GlcNAcb-Sp0	1	5
281	Neu5Gca2-3Galb1-3GlcNAcb-Sp0	1	3
115	Gala1-3Galb1-4GlcNAcb-Sp8	1	5
544	Fuca1-2Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp24	1	2
551	Galb1-3GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-3GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp25	1	1
354	Galb1-3GlcNAcb1-2Mana1-6(Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	1	3
239	Neu5Aca2-3Galb1-3(Fuca1-4)GlcNAcb-Sp8	1	3
409	Gala1-3(Fuca1-2)Galb1-4(Fuca1-3)Glc-Sp21	1	1
46	Neu5Aca2-3(6S)Galb1-4GlcNAcb-Sp8	1	4
203	GlcAb1-3Galb-Sp8	1	4
126	Galb1-3(Fuca1-4)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	1	7
330	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-3GlcNAcb-Sp0	1	6
199	Glc1-6Glc-Sp8	1	4
430	Fuca1-3GlcNAcb1-6(Galb1-4GlcNAcb1-3)Galb1-4Glc-Sp21	1	6
6	Fuca-Sp8	1	9
302	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3)Galb1-4GlcNAc-Sp0	1	2
523	GalNAca1-3(Fuca1-2)Galb1-4 GlcNAcb1-2Mana-Sp0	1	3
300	Galb1-3Galb1-4GlcNAcb-Sp8	1	6
151	Galb1-4(Fuca1-3)GlcNAcb-Sp0	1	3
61	Fuca1-2Galb1-3GalNAca-Sp8	1	3

431	GlcNAcb1-2Mana1-6(GlcNAcb1-4)(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21	1	5
358	KDNa2-3Galb1-4Glc-Sp0	1	3
594	GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp14	1	4
427	Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-6(Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	1	2
367	Neu5Aca2-6GlcNAcb1-4GlcNAcb1-4GlcNAc-Sp21	1	1
54	Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	0	7
211	Mana1-2Mana1-6(Mana1-3)Mana1-6(Mana1-2Mana1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	0	3
349	Galb1-4GlcNAcb1-2Mana1-3Manb1-4GlcNAcb1-4GlcNAc-Sp12	0	2
169	Galb1-4GlcNAcb-Sp8	0	1
156	Galb1-4(6S)Glc-Sp8	0	4
262	Fuca1-2Galb1-4(6S)Glc-Sp0	0	5
10	Neu5Aca-Sp11	0	2
100	Gala1-2Galb-Sp8	0	4
414	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-3GalNAca-Sp14	0	7
47	(6S)GlcNAcb-Sp8	0	1
560	Gala1-3Galb1-4GlcNAcb1-2Mana1-6(Gala1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp24	0	3
83	GalNAca1-3(Fuca1-2)Galb1-4(Fuca1-3)GlcNAcb-Sp0	0	2
38	(3S)Galb-Sp8	0	0
304	Galb1-4GlcNAca1-6Galb1-4GlcNAcb-Sp0	0	5
145	Galb1-3GalNAcb1-4Galb1-4Glc-Sp8	0	2
70	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	0	4
455	Gala1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-6(Gala1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	0	2
497	Fuca1-2(6S)Galb1-3GlcNAcb-Sp0	0	4
553	Neu5Aca2-8Neu5Gca2-3Galb1-4GlcNAc-Sp0	0	6
272	Neu5Aca2-6Galb1-4Glc-Sp0	0	2
289	Galb1-3GlcNAcb1-3Galb1-3GlcNAcb-Sp0	0	7
331	Neu5Aca2-3Galb1-3(Fuca1-4)GlcNAcb1-3Galb1-3(Fuca1-4)GlcNAcb-Sp0	0	4
77	Fuca1-2Galb1-4Glc-Sp0	0	7
429	Galb1-4GlcNAcb1-6(Fuca1-2Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp21	0	2
111	Gala1-3GalNAca-Sp16	0	6
158	Galb1-4GalNAcb1-3(Fuca1-2)Galb1-4GlcNAcb-Sp8	0	2
216	Mana1-6(Mana1-3)Mana1-6(Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	0	5
176	GlcNAcb1-6(GlcNAcb1-3)GalNAca-Sp8	0	2
487	Neu5Aca2-6Galb1-4GlcNAcb1-6(Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-3)Galb1-4Glc-Sp21	0	3
227	Neu5Aca2-8Neu5Aca2-8Neu5Aca2-3Galb1-4Glc-Sp0	0	4
196	Glca1-4Glca-Sp8	0	6
197	Glca1-6Glca1-6Glc-Sp8	0	1
223	Neu5Aca2-3Galb1-3GalNAca-Sp8	0	5
245	Neu5Aca2-3Galb-Sp8	0	3
73	Fuca1-2Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	0	4
476	Galb1-3GlcNAcb1-2Mana1-6(GlcNAcb1-4)(Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	0	2
600	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp14	0	8
422	Fuca1-2Galb1-3GlcNAcb1-3GalNAc-Sp14	0	2
80	Fuca1-4GlcNAcb-Sp8	0	3
128	Galb1-3(Fuca1-4)GlcNAc-Sp0	0	2
341	GlcNAca1-4Galb1-4GlcNAcb1-3Galb1-4Glc-Sp0	0	4
283	Neu5Gca2-3Galb1-4GlcNAcb-Sp0	0	3
522	Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana-Sp0	-1	3
386	Galb1-3GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-6(Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp21	-1	6

210	Mana1-6(Mana1-2Mana1-3)Mana1-6(Mana1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	-1	2
307	GlcAb1-3GlcNAcb-Sp8	-1	4
510	Galb1-3(6S)GlcNAcb-Sp8	-1	3
396	Neu5Aca2-3Galb1-3GlcNAcb1-2Mana1-6(Neu5Aca2-3Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19	-1	6
345	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	-1	8
574	GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	-1	3
161	Galb1-4GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	-1	5
518	(6P)Galb1-4GlcNAcb-Sp0	-1	5
67	Fuca1-2Galb1-3GlcNAcb-Sp0	-1	3
214	Mana1-2Mana1-2Mana1-6(Mana1-3)Mana-Sp9	-1	3
315	Mana1-2Mana1-6(Mana1-3)Mana1-6(Mana1-2Mana1-2Mana1-3)Mana-Sp9	-1	3
195	Glca1-4Glc-Sp8	-1	4
149	Galb1-3GlcNAcb-Sp0	-1	5
252	Neu5Aca2-3Galb1-4(Fuca1-3)(6S)GlcNAcb-Sp8	-1	8
235	Neu5Aca2-6(Neu5Aca2-3)GalNAca-Sp8	-1	4
397	GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	-1	2
383	Galb1-4(Fuca1-3)GlcNAcb1-6(Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp21	-1	3
521	Gala1-3Galb1-4GlcNAcb1-2Mana-Sp0	-1	1
423	Gala1-3(Fuca1-2)Galb1-3GlcNAcb1-3GalNAcb-Sp14	-1	7
477	Neu5Aca2-6Galb1-4GlcNAcb1-6(Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp21	-1	3
356	KDNa2-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	-1	5
42	(6S)Galb1-4Glc-Sp0	-1	5
381	Galb1-3GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb-Sp0	-1	6
438	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(Galb1-4GlcNAcb1-4)(Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	-1	4
598	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3GalNAca-Sp14	-1	3
601	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp14	-2	3
229	Neu5Aca2-8Neu5Aca2-8Neu5Aca-Sp8	-2	4
412	Neu5Aca2-3Galb1-3GalNAcb1-4(Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp0	-2	3
435	Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-4)(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	-2	8
230	Neu5Aca2-3(6S)Galb1-4(Fuca1-3)GlcNAcb-Sp8	-2	2
218	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	-2	5
287	Neu5Gca-Sp8	-2	2
589	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3GalNAca-Sp14	-2	5
390	Fuca1-2Galb1-3GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb-Sp0	-2	4
71	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb-Sp0	-2	3
276	Neu5Aca2-8Neu5Aca2-3Galb1-4Glc-Sp0	-2	3
439	Galb1-4Galb-Sp10	-2	1
51	Mana1-6(Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp13	-2	1
360	Fuca1-2Galb1-3GlcNAcb1-2Mana1-6(Fuca1-2Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	-2	1
269	Neu5Aca2-6Galb1-4GlcNAcb-Sp8	-2	2
157	Galb1-4GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb-Sp8	-2	1
432	GlcNAcb1-2Mana1-6(GlcNAcb1-4)(GlcNAcb1-4)(GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	-2	1
66	Fuca1-2Galb1-3GlcNAcb1-3Galb1-4Glc-Sp10	-2	4
526	Neu5Aca2-3Galb1-3GlcNAcb1-2Mana-Sp0	-2	8
475	GlcNAcb1-6(GlcNAcb1-2)Mana1-6(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	-2	3
75	Fuca1-2Galb1-4GlcNAcb-Sp0	-2	3
529	Neu5Aca2-3Galb1-3GlcNAcb1-4Galb1-4Glc-Sp0	-2	6
296	4S(3S)Galb1-4GlcNAcb-Sp0	-2	3
123	Gala1-4GlcNAcb-Sp8	-2	4

224	Neu5Aca2-3Galb1-3GalNAca-Sp14	-2	1
328	Neu5,9Ac2a2-3Galb1-4GlcNAcb-Sp0	-2	4
313	Mana1-6Manb-Sp10	-2	4
234	Neu5Aca2-3Galb1-3GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc-Sp0	-2	1
329	Neu5,9Ac2a2-3Galb1-3GlcNAcb-Sp0	-2	6
52	GlcNAcb1-2Mana1-6(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	-2	3
191	GlcNAcb1-4GlcNAcb1-4GlcNAcb-Sp8	-2	5
538	Galb1-3GalNAcb1-3Gal-Sp21	-2	1
36	(3S)Galb1-4GlcNAcb-Sp0	-2	4
17	GlcNAcb-Sp8	-3	5
340	GlcNAca1-4Galb1-3GlcNAcb-Sp0	-3	3
221	Fuca1-2Galb1-4(6S)GlcNAcb-Sp8	-3	2
595	GlcNAcb1-3Galb1-4GlcNAcb1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3)GalNAca-Sp14	-3	5
247	Neu5Aca2-3Galb1-3GlcNAcb1-3Galb1-4GlcNAcb-Sp0	-3	3
170	Galb1-4GlcNAcb-Sp23	-3	2
400	Fuca1-2Galb1-4GlcNAcb1-3GalNAca-Sp14	-3	3
303	GlcNAcb1-6(Galb1-4GlcNAcb1-3)Galb1-4GlcNAc-Sp0	-3	3
209	Mana1-2Mana1-3Mana-Sp9	-3	2
294	Neu5Aca2-3Galb1-3GlcNAcb1-3Galb1-3GlcNAcb-Sp0	-3	3
374	Gala1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-6(Gala1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	-3	5
388	GlcNAcb1-2Mana1-6(GlcNAcb1-4(GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21	-3	5
62	Fuca1-2Galb1-3GalNAca-Sp14	-3	5
267	Neu5Aca2-6Galb1-4(6S)GlcNAcb-Sp8	-3	6
189	GlcNAcb1-4GlcNAcb1-4GlcNAcb1-4GlcNAcb1-4GlcNAcb1-4GlcNAcb1-Sp8	-3	5
346	Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp12	-3	3
599	Galb1-4GlcNAcb1-3Galb1-3GalNAca-Sp14	-3	5
590	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp14	-3	1
167	Galb1-4GlcNAcb1-6(Galb1-3)GalNAc-Sp14	-3	2
85	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb-Sp0	-3	4
222	Fuca1-2(6S)Galb1-4(6S)Glc-Sp0	-4	1
442	GalNAcb1-6GalNAcb-Sp8	-4	4
531	Galb1-4GlcNAcb1-2 Mana1-6(GlcNAcb1-4)(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAc-Sp21	-4	5
43	(6S)Galb1-4Glc-Sp8	-4	5
399	Neu5Aca2-3Galb1-3GlcNAcb1-3GalNAca-Sp14	-4	6
212	Mana1-2Mana1-6(Mana1-2Mana1-3)Mana1-6(Mana1-2Mana1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	-4	1
180	GlcNAcb1-3GalNAca-Sp14	-4	2
65	Fuca1-2Galb1-3GlcNAcb1-3Galb1-4Glc-Sp8	-4	3
125	Galb1-2Galb-Sp8	-4	7
258	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	-4	2
139	Galb1-3GalNAca-Sp8	-4	4
592	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3GalNAca-Sp14	-4	2
207	Mana1-2Mana1-2Mana1-3Mana-Sp9	-4	6
457	GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-6(GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	-4	4
391	Galb1-3GlcNAcb1-3GalNAca-Sp14	-4	2
12	Galb-Sp8	-5	3
517	Galb1-4(6P)GlcNAcb-Sp0	-5	1
8	Rhaa-Sp8	-5	6
14	Manb-Sp8	-5	2
56	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Man-a1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	-5	2

45	(6S)Galb1-4(6S)GlcB-Sp8	-5	6
72	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb-Sp8	-5	1
110	Gala1-3GalNAca-Sp8	-5	3
138	Neu5Aca2-6(Galb1-3)GlcNAcb1-4Galb1-4GlcB-Sp10	-5	5
443	(6S)Galb1-3GlcNAcb-Sp0	-5	2
418	GalNAca1-3(Fuca1-2)Galb1-4(Fuca1-3)GlcNAcb1-3GalNAc-Sp14	-5	5
204	GlcAb1-6Galb-Sp8	-6	9
68	Fuca1-2Galb1-3GlcNAcb-Sp8	-6	6
428	Galb1-3GlcNAcb1-6(Galb1-3GlcNAcb1-2)Mana1-6(Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19	-6	3
41	(6P)Mana-Sp8	-6	5
593	GlcNAcb1-3Galb1-4GlcNAcb1-3GalNAca-Sp14	-6	5
172	Galb1-4GlcB-Sp8	-7	1
532	Galb1-4GlcNAcb1-2 Mana1-6(Galb1-4GlcNAcb1-4)(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAc-Sp21	-7	3
305	Galb1-4GlcNAcb1-6Galb1-4GlcNAcb-Sp0	-7	5
520	Neu5Aca2-6Galb1-4GlcNAcb1-2Man-Sp0	-7	7
445	Fuca1-2Galb1-4 GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4GlcNAcb1-2(Fuca1-2Galb1-4GlcNAcb1-4)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	-7	7
557	Neu5Aca2-8Neu5Aca2-3Galb1-4GlcNAc-Sp0	-7	3
50	Mana1-6(Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	-7	4
198	GlcB1-4GlcB-Sp8	-8	5
440	Galb1-6Galb-Sp10	-8	2
30	(3S)Galb1-3GlcNAcb-Sp0	-8	1
147	Galb1-3GlcNAcb1-3Galb1-4GlcNAcb-Sp0	-9	2
603	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	-11	3
596	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3)GalNAca-Sp14	-11	3
604	GlcNAcb1-6(Neu5Aca2-3Galb1-3)GalNAca-Sp14	-12	5
19	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3)GalNAca-Sp8	-13	4
454	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-6(GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	-15	7
464	Neu5Aca2-6Galb1-4GlcNAcb1-4Mana1-6(GlcNAcb1-4)(Neu5Aca2-6Galb1-4GlcNAcb1-4(Neu5Aca2-6Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	-18	13
264	Neu5Aca2-3Galb1-4GlcB-Sp8	-18	5
471	Neu5Aca2-3Galb1-4GlcNAcb1-6(Neu5Aca2-3Galb1-4GlcNAcb1-3)GalNAca-Sp14	-28	13
182	GlcNAcb1-3Galb1-4GlcNAcb-Sp0	-28	8
103	Gala1-3(Fuca1-2)Galb1-4(Fuca1-3)GlcNAcb-Sp0	-31	19
444	(6S)Galb1-3(6S)GlcNAc-Sp0	-32	12
441	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb-Sp8	-40	5
21	GlcNAcb1-6(GlcNAcb1-4)(GlcNAcb1-3)GlcNAc-Sp8	-42	9
597	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3GalNAca-Sp14	-53	6
466	Neu5Aca2-6Galb1-4GlcNAcb1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(Neu5Aca2-6Galb1-4GlcNAcb1-4(Neu5Aca2-6Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	-76	32
31	(3S)Galb1-3GlcNAcb-Sp8	-172	11

Glycan Number	Rank order at 10 µg/ml	Average RFU	Standard deviation
519	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-6GalNAc-Sp14	21255	771
192	GlcNAcb1-6GalNAca-Sp8	16789	7440
4	GalNAca-Sp8	13699	7427
265	Neu5Aca2-6GalNAca-Sp8	8941	4208
495	Gala1-3Galb1-4GlcNAcb1-6GalNAca-Sp14	6814	1552
514	GalNAcb1-4(6S)GlcNAc-Sp8	6429	3163
408	GalNAcb1-3Gala1-6Galb1-4Glc-Sp8	4034	76
563	GalNAcb1-4GlcNAcb1-3GalNAcb1-4GlcNAcb-Sp0	4001	303
131	Galb1-4GlcNAcb1-6GalNAca-Sp8	3965	232
7	Fuca-Sp9	3700	887
334	GalNAcb1-3Gala1-4Galb1-4GlcNAcb1-3Galb1-4Glc-Sp0	3625	169
506	GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-6GalNAca-Sp14	3438	166
494	Fuca1-2Galb1-4GlcNAcb1-6GalNAca-Sp14	3356	144
562	GalNAcb1-3GlcNAcb-Sp0	3279	152
306	GalNAcb1-3Galb-Sp8	3082	161
15	GalNAcb-Sp8	2736	332
193	GlcNAcb1-6GalNAca-Sp14	2618	74
491	Neu5Aca2-3Galb1-3GlcNAcb1-6GalNAca-Sp14	2566	146
93	GalNAca1-4(Fuca1-2)Galb1-4GlcNAcb-Sp8	2438	56
528	GalNAcb1-4GlcNAcb1-2Mana-Sp0	2284	84
97	GalNAcb1-4(Fuca1-3)GlcNAcb-Sp0	2249	174
95	GalNAcb1-3(Fuca1-2)Galb-Sp8	2157	241
479	Neu5Aca2-3Galb1-4GlcNAcb1-6GalNAca-Sp14	2048	157
92	GalNAca1-3Galb-Sp8	1971	47
489	Gala1-3Galb1-3GlcNAcb1-6GalNAca-Sp14	1963	239
525	Gala1-3(Fuca1-2)Galb1-3GlcNAcb1-6GalNAc-Sp14	1938	133
98	GalNAcb1-4GlcNAcb-Sp0	1898	316
266	Neu5Aca2-6GalNAcb1-4GlcNAcb-Sp0	1867	59
488	Galb1-3GlcNAcb1-6GalNAca-Sp14	1818	164
503	GalNAcb1-4(Fuca1-3)(6S)GlcNAcb-Sp8	1742	456
5	GalNAca-Sp15	1515	134
285	Neu5Gca2-6GalNAca-Sp0	1481	91
225	GalNAcb1-4(Neu5Aca2-8Neu5Aca2-8Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp0	1481	17
233	GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc-Sp0	1446	49
512	(6S)GalNAcb1-4GlcNAc-Sp8	1426	282
96	GalNAcb1-3Gala1-4Galb1-4GlcNAcb-Sp0	1380	111
373	GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-6(GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	1323	102
86	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb-Sp8	1287	89
228	GalNAcb1-4(Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp0	1236	100
232	GalNAcb1-4(Neu5Aca2-3)Galb1-4GlcNAcb-Sp8	1177	68
226	GalNAcb1-4(Neu5Aca2-8Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp0	1159	50
379	GalNAcb1-4GlcNAcb1-2Mana1-6(GalNAcb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp12	968	96
132	Galb1-4GlcNAcb1-6GalNAc-Sp14	909	90
335	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	835	18
82	GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb-Sp0	802	76
90	GalNAca1-3(Fuca1-2)Galb-Sp18	758	203
523	GalNAca1-3(Fuca1-2)Galb1-4 GlcNAcb1-2Mana-Sp0	693	25

89	GalNAca1-3(Fuca1-2)Galb-Sp8	677	50
231	GalNAcb1-4(Neu5Aca2-3)Galb1-4GlcNAcb-Sp0	639	39
502	Neu5Aca2-6GalNAcb1-4(6S)GlcNAcb-Sp8	575	37
447	Galb1-4(Fuca1-3)GlcNAcb1-6GalNAc-Sp14	571	21
91	GalNAca1-3GalNAcb-Sp8	548	49
87	GalNAca1-3(Fuca1-2)Galb1-4Glc-Sp0	538	71
415	GalNAca1-3GalNAcb1-3Gala1-4Galb1-4Glc-Sp0	536	40
490	Galb1-3(Fuca1-4)GlcNAcb1-6GalNAca-Sp14	535	26
336	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	498	74
536	GalNAca1-3(Fuca1-2)Galb1-3GalNAcb1-3Gala1-4Galb1-4Glc-Sp21	487	70
402	GalNAca1-3GalNAcb1-3Gala1-4Galb1-4GlcNAcb-Sp0	471	40
411	Galb1-3GalNAcb1-4(Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp0	453	21
370	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-6(GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	452	41
94	GalNAcb1-3GalNAca-Sp8	430	15
99	GalNAcb1-4GlcNAcb-Sp8	423	362
451	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-6(GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-3)GalNAc-Sp14	422	26
392	GalNAcb1-4(Neu5Aca2-3)Galb1-4GlcNAcb1-3GalNAca-Sp14	399	47
144	Galb1-3GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc-Sp0	378	36
143	Galb1-3GalNAcb1-3Gala1-4Galb1-4Glc-Sp0	330	37
393	GalNAca1-3(Fuca1-2)Galb1-3GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb-Sp0	308	214
282	Neu5Gca2-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	284	22
424	GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-3GalNAc-Sp14	242	42
63	Fuca1-2Galb1-3GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc-Sp0	223	15
278	Neu5Acb2-6GalNAca-Sp8	166	35
414	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-3GalNAca-Sp14	163	48
83	GalNAca1-3(Fuca1-2)Galb1-4(Fuca1-3)GlcNAcb-Sp0	149	39
448	Galb1-4GlcNAcb1-2Mana-Sp0	149	19
85	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb-Sp0	93	16
166	Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp8	91	23
559	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Mana1-4GlcNAcb1-4GlcNAc-Sp24	62	10
244	Neu5Aca2-6(Neu5Aca2-3Galb1-3)GalNAca-Sp14	54	5
236	Neu5Aca2-3GalNAca-Sp8	48	18
377	Neu5Aca2-6Galb1-4GlcNAcb1-3GalNAc-Sp14	43	12
572	Galb1-3GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-3GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(Galb1-3GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	42	4
587	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	39	11
16	GlcNAcb-Sp0	39	22
3	Mana-Sp8	38	19
547	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	37	9
478	Neu5Aca2-3Galb1-4GlcNAcb1-2Mana-Sp0	35	14
111	Gala1-3GalNAca-Sp16	33	12
52	GlcNAcb1-2Mana1-6(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	33	21
550	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp25	33	14
187	GlcNAcb1-6(GlcNAcb1-4)GalNAca-Sp8	33	10
378	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb1-3GalNAca-Sp14	32	14
446	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-4(Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	31	19
129	Galb1-3(Fuca1-4)GlcNAc-Sp8	30	21
304	Galb1-4GlcNAca1-6Galb1-4GlcNAcb-Sp0	30	29

175	GlcNAcb1-2Galb1-3GalNAca-Sp8	29	19
565	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp25	29	21
571	Galb1-3GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-3GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(Galb1-3GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	29	4
568	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp25	29	8
548	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp24	28	8
588	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	27	8
367	Neu5Aca2-6GlcNAcb1-4GlcNAcb1-4GlcNAc-Sp21	27	17
362	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	27	6
387	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-4(Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	27	7
161	Galb1-4GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	27	7
39	(6S)(4S)Galb1-4GlcNAcb-Sp0	26	9
472	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	26	10
290	Galb1-4(Fuca1-3)(6S)GlcNAcb-Sp0	26	5
199	Glc1-6Glc-Sp8	26	8
263	Neu5Aca2-3Galb1-4Glc-Sp0	26	8
590	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp14	26	9
583	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	26	2
69	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	25	12
42	(6S)Galb1-4Glc-Sp0	25	12
606	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	25	13
541	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	25	4
77	Fuca1-2Galb1-4Glc-Sp0	25	11
331	Neu5Aca2-3Galb1-3(Fuca1-4)GlcNAcb1-3Galb1-3(Fuca1-4)GlcNAcb-Sp0	25	5
88	GlcNAcb1-3Galb1-3GalNAca-Sp8	25	17
311	GlcNAcb1-4GlcNAcb-Sp12	24	9
191	GlcNAcb1-4GlcNAcb1-4GlcNAcb-Sp8	24	11
329	Neu5,9Ac2a2-3Galb1-3GlcNAcb-Sp0	24	10
254	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	24	15
62	Fuca1-2Galb1-3GalNAca-Sp14	24	12
538	Galb1-3GalNAcb1-3Gal-Sp21	24	17
474	Neu5Aca2-3Galb1-3GlcNAcb1-6(Neu5Aca2-3Galb1-3GlcNAcb1-2)Mana1-6(Neu5Aca2-3Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19	24	11
253	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	24	17
421	GlcNAcb1-2(GlcNAcb1-6)Mana1-6(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19	23	16
137	Neu5Acb2-6(Galb1-3)GalNAca-Sp8	23	9
399	Neu5Aca2-3Galb1-3GlcNAcb1-3GalNAca-Sp14	23	14
205	KDNa2-3Galb1-3GlcNAcb-Sp0	23	8
521	Gala1-3Galb1-4GlcNAcb1-2Mana-Sp0	23	10
320	GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	23	10
543	Neu5Gca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Gca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp24	23	14
485	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	23	15
420	Fuca1-2Galb1-4GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	23	11
155	Galb1-4(6S)Glc-Sp0	23	19
375	Fuca1-4(Fuca1-2Galb1-3)GlcNAcb1-2Mana1-3(Fuca1-4(Fuca1-2Galb1-3)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19	22	19
585	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	22	6

364	Galb1-4GlcNAcb1-2Mana1-6(Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	19	14
235	Neu5Aca2-6(Neu5Aca2-3)GalNAca-Sp8	18	6
356	KDNa2-3Galb1-4(Fuca1-3)GlcNAc-Sp0	18	12
55	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	18	9
27	(3S)Galb1-4(6S)Glc-Sp8	18	6
553	Neu5Aca2-8Neu5Gca2-3Galb1-4GlcNAc-Sp0	18	4
576	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	18	4
374	Gala1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-6(Gala1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	18	4
24	(3S)Galb1-4(Fuca1-3)(6S)Glc-Sp0	18	1
484	Mana1-6(Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp19	18	4
605	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3)GalNAca-Sp14	18	11
570	(3S)GlcAb1-3Galb1-4GlcNAcb1-2Mana-Sp0	18	7
2	Glca-Sp8	18	8
566	GlcNAb1-3Galb1-3GalNAc-Sp14	18	9
28	(3S)Galb1-3(Fuca1-4)GlcNAcb-Sp8	18	5
578	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	18	8
481	Neu5Aca2-6Galb1-4GlcNAcb1-6(Neu5Aca2-6Galb1-4GlcNAcb1-3)GalNAca-Sp14	18	6
584	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	18	6
339	GlcNAca1-4Galb1-4GlcNAcb-Sp0	18	6
353	Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	18	6
343	GlcNAca1-4Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	18	12
310	GlcNAcb1-4GlcNAcb-Sp10	18	17
29	(3S)Galb1-3GalNAca-Sp8	17	12
384	Galb1-4GlcNAcb1-6(Fuca1-4(Fuca1-2Galb1-3)GlcNAcb1-3)Galb1-4Glc-Sp21	17	14
241	Neu5Aca2-3Galb1-4(Neu5Aca2-3Galb1-3)GlcNAcb-Sp8	17	7
509	Galb1-3GlcNAca1-3Galb1-4GlcNAcb-Sp8	17	12
299	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb1-6(Galb1-3)GalNAca-Sp14	17	8
250	Neu5Aca2-3Galb1-3GlcNAcb-Sp8	17	13
104	Gala1-3(Fuca1-2)Galb1-4(Fuca1-3)GlcNAcb-Sp8	17	6
591	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3)GalNAca-Sp14	17	7
473	Fuca1-2Galb1-3(Fuca1-4)GlcNAcb1-2Mana1-6(Fuca1-2Galb1-3(Fuca1-4)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp19	17	3
153	Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	17	7
268	Neu5Aca2-6Galb1-4GlcNAcb-Sp0	17	1
524	Galb1-3GlcNAcb1-2Mana-Sp0	17	17
301	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	17	8
427	Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-6(Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	17	15
133	GlcNAcb1-6(Galb1-3)GalNAca-Sp8	17	8
338	GlcNAca1-4Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	17	5
220	Fuca1-2(6S)Galb1-4GlcNAcb-Sp0	16	13
151	Galb1-4(Fuca1-3)GlcNAcb-Sp0	16	11
575	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	16	9
8	Rhaa-Sp8	16	3
114	Gala1-3Galb1-3GlcNAcb-Sp0	16	1
202	GlcAb-Sp8	16	14
475	GlcNAcb1-6(GlcNAcb1-2)Mana1-6(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	16	5
152	Galb1-4(Fuca1-3)GlcNAcb-Sp8	16	18
23	6S(3S)Galb1-4GlcNAcb-Sp0	16	6
324	Galb1-3GlcNAcb1-2Mana1-6(Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19	16	5

341	GlcNAc1-4Galb1-4GlcNAcb1-3Galb1-4Glc-Sp0	16	15
47	(6S)GlcNAcb-Sp8	16	6
507	GlcNAcb1-6(GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(GlcNAcb1-4)(GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAc-Sp21	16	6
159	Galb1-4GlcNAcb1-3GalNAca-Sp8	16	8
293	Galb1-4GlcNAcb1-3Galb1-3GlcNAcb-Sp0	16	7
493	Galb1-4(Fuca1-3)GlcNAcb1-6(Neu5Aca2-6(Neu5Aca2-3Galb1-3)GlcNAcb1-3)Galb1-4Glc-Sp21	16	6
607	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	16	6
522	Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana-Sp0	16	14
530	GlcNAcb1-2 Mana1-6(GlcNAcb1-4)(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAc-Sp21	16	10
337	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb1-6(Neu5Aca2-3Galb1-3)GalNAc-Sp14	16	6
413	Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-3GalNAca-Sp14	16	8
209	Mana1-2Mana1-3Mana-Sp9	15	6
173	GlcNAca1-3Galb1-4GlcNAcb-Sp8	15	4
412	Neu5Aca2-3Galb1-3GalNAcb1-4(Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp0	15	7
26	(3S)Galb1-4(6S)Glc-Sp0	15	15
382	Galb1-3GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp0	15	6
22	6S(3S)Galb1-4(6S)GlcNAcb-Sp0	15	9
300	Galb1-3Galb1-4GlcNAcb-Sp8	15	7
437	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21	15	5
401	Galb1-4(Fuca1-3)GlcNAcb1-3GalNAca-Sp14	15	2
51	Mana1-6(Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp13	15	5
165	Galb1-4GlcNAcb1-3Galb1-4Glc-Sp8	15	7
1	Gala-Sp8	15	4
347	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6Manb1-4GlcNAcb1-4GlcNAc-Sp12	15	15
361	Fuca1-2Galb1-4GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	15	14
20	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3)GalNAc-Sp14	15	10
279	Neu5Acb2-6Galb1-4GlcNAcb-Sp8	15	13
156	Galb1-4(6S)Glc-Sp8	15	8
391	Galb1-3GlcNAcb1-3GalNAca-Sp14	15	19
74	Fuca1-2Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	15	11
429	Galb1-4GlcNAcb1-6(Fuca1-2Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp21	15	5
450	Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-6(Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-3)GalNAc-Sp14	15	5
11	Neu5Acb-Sp8	15	4
101	Gala1-3(Fuca1-2)Galb1-3GlcNAcb-Sp0	15	3
138	Neu5Aca2-6(Galb1-3)GlcNAcb1-4Galb1-4Glc-Sp10	15	6
76	Fuca1-2Galb1-4GlcNAcb-Sp8	15	8
558	GlcNAcb1-3Galb1-4GlcNAcb1-6(GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-2Man a1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp24	15	16
115	Gala1-3Galb1-4GlcNAcb-Sp8	15	4
177	GlcNAcb1-6(GlcNAcb1-3)GalNAca-Sp14	15	3
181	GlcNAcb1-3Galb-Sp8	15	5
608	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	15	11
227	Neu5Aca2-8Neu5Aca2-8Neu5Aca2-3Galb1-4Glc-Sp0	14	9
368	Galb1-4(Fuca1-3)GlcNAcb1-6(Fuca1-2Galb1-4GlcNAcb1-3)Galb1-4Glc-Sp21	14	5
120	Gala1-4Galb1-4GlcNAcb-Sp0	14	7
518	(6P)Galb1-4GlcNAcb-Sp0	14	7
118	Gala1-3Galb-Sp8	14	4
149	Galb1-3GlcNAcb-Sp0	14	14
579	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	14	8

121	Gala1-4Galb1-4GlcNAcb-Sp8	13	3
592	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3GalNAca-Sp14	13	6
142	Galb1-3GalNAcb-Sp8	13	4
327	Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-6(Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	13	3
60	Fuca1-2Galb1-3(Fuca1-4)GlcNAcb-Sp8	13	6
174	GlcNAca1-6Galb1-4GlcNAcb-Sp8	12	8
560	Gala1-3Galb1-4GlcNAcb1-2Mana1-6(Gala1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp24	12	7
41	(6P)Mana-Sp8	12	10
224	Neu5Aca2-3Galb1-3GalNAca-Sp14	12	7
610	Galb1-3GalNAcb1-4(Neu5Aca2-8Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp21	12	6
452	Neu5Aca2-8Neu5Aca2-3Galb1-3GalNAcb1-4(Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp0	12	7
349	Galb1-4GlcNAcb1-2Mana1-3Manb1-4GlcNAcb1-4GlcNAcb-Sp12	12	8
400	Fuca1-2Galb1-4GlcNAcb1-3GalNAca-Sp14	12	4
106	Gala1-3(Fuca1-2)Galb1-4Glc-Sp0	12	13
477	Neu5Aca2-6Galb1-4GlcNAcb1-6(Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp21	12	16
505	Fuca1-2Galb1-3GlcNAcb1-6(Fuca1-2Galb1-3GlcNAcb1-3)GalNAca-Sp14	12	8
45	(6S)Galb1-4(6S)Glc-Sp8	12	6
167	Galb1-4GlcNAcb1-6(Galb1-3)GalNAcb-Sp14	12	3
318	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	12	5
435	Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-4)(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	12	4
217	Manb1-4GlcNAcb-Sp0	12	8
369	Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-4)(Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	12	6
197	Glca1-6Glca1-6Glc-Sp8	12	5
58	Fuca1-2Galb1-3GalNAcb1-3Gala-Sp9	12	8
467	Gala1-3(Fuca1-2)Galb1-3GalNAca-Sp8	12	6
44	(6S)Galb1-4GlcNAcb-Sp8	12	8
496	Galb1-4(Fuca1-3)GlcNAcb1-2Mana-Sp0	12	10
61	Fuca1-2Galb1-3GalNAca-Sp8	12	6
196	Glca1-4Glca-Sp8	12	15
416	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-3GalNAca-Sp14	12	9
567	Galb1-3GlcNAcb1-6(Galb1-3)GalNAcb-Sp14	12	8
124	Gala1-6Glc-Sp8	11	11
389	Fuca1-2Galb1-3GalNAca1-3(Fuca1-2)Galb1-4Glc-Sp0	11	9
453	GalNAcb1-4Galb1-4Glc-Sp0	11	7
246	Neu5Aca2-3Galb1-3GalNAcb1-3Gala1-4Galb1-4Glc-Sp0	11	10
57	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp24	11	6
358	KDNa2-3Galb1-4Glc-Sp0	11	12
180	GlcNAcb1-3GalNAca-Sp14	11	10
330	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-3GlcNAcb-Sp0	11	3
243	Neu5Aca2-6(Neu5Aca2-3Galb1-3)GalNAca-Sp8	11	7
35	(3S)Galb1-4(6S)GlcNAcb-Sp8	11	8
449	Fuca1-2Galb1-4GlcNAcb1-6(Fuca1-2Galb1-4GlcNAcb1-3)GalNAcb-Sp14	11	4
459	Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-4)(Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	11	3
40	(4S)Galb1-4GlcNAcb-Sp8	11	5
436	Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-4)(Galb1-4GlcNAcb1-4)(Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	11	7
602	Neu5Aca2-6Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp14	11	10
178	GlcNAcb1-6(GlcNAcb1-3)Galb1-4GlcNAcb-Sp8	11	12
260	Neu5Aca2-3Galb1-4GlcNAcb-Sp8	11	3
442	GalNAcb1-6GalNAcb-Sp8	10	7

372	Gala1-3Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-6(Gala1-3Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	10	7
535	GlcNAcb1-3Galb1-4GlcNAcb1-6(GlcNAcb1-3)Galb1-4GlcNAc-Sp0	10	0
136	Neu5Aca2-6(Galb1-3)GalNAca-Sp14	10	2
107	Gala1-3(Fuca1-2)Galb-Sp8	10	10
283	Neu5Gca2-3Galb1-4GlcNAcb-Sp0	10	9
460	Neu5Aca2-3Galb1-4GlcNAcb1-4Mana1-6(GlcNAcb1-4)(Neu5Aca2-3Galb1-4GlcNAcb1-4)(Neu5Aca2-3Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	10	10
190	GlcNAcb1-4GlcNAcb1-4GlcNAcb1-4GlcNAcb1-4GlcNAcb1-Sp8	10	8
499	Fuca1-2Galb1-4GlcNAcb1-2Mana-Sp0	10	5
127	Galb1-3GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	10	7
394	Gala1-3Galb1-3GlcNAcb1-2Mana1-6(Gala1-3Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp19	10	3
276	Neu5Aca2-8Neu5Aca2-3Galb1-4Glc-Sp0	10	7
321	Neu5Aca2-8Neu5Acb-Sp17	10	5
325	Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	10	8
371	Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-6(Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	10	3
288	Neu5Aca2-3Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp14	10	6
212	Mana1-2Mana1-6(Mana1-2Mana1-3)Mana1-6(Mana1-2Mana1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	10	6
458	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19	10	5
544	Fuca1-2Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp24	10	6
407	Galb1-3GlcNAca1-6Galb1-4GlcNAcb-Sp0	10	9
179	GlcNAcb1-3GalNAca-Sp8	10	7
216	Mana1-6(Mana1-3)Mana1-6(Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	10	11
171	Galb1-4Glc-Sp0	10	8
184	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	10	8
208	Mana1-2Mana1-6(Mana1-2Mana1-3)Mana-Sp9	10	3
18	GlcN(Gc)b-Sp8	10	14
504	(3S)GalNAcb1-4(Fuca1-3)GlcNAcb-Sp8	10	7
164	Galb1-4GlcNAcb1-3Galb1-4Glc-Sp0	10	3
100	Gala1-2Galb-Sp8	10	4
317	Neu5Aca2-3Galb1-4GlcNAcb1-6(Neu5Aca2-3Galb1-3)GalNAca-Sp14	10	11
10	Neu5Aca-Sp11	9	4
270	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	9	3
238	Neu5Aca2-3Galb1-3(6S)GlcNAc-Sp8	9	7
344	GlcNAca1-4Galb1-3GalNAc-Sp14	9	8
258	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	9	2
322	Neu5Aca2-8Neu5Aca2-8Neu5Acb-Sp8	9	6
309	GlcNAcb1-3Man-Sp10	9	12
297	(6S)Galb1-4(6S)GlcNAcb-Sp0	9	4
249	Neu5Aca2-3Galb1-3GlcNAcb-Sp0	9	5
73	Fuca1-2Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	9	7
194	GlcNAcb1-6Galb1-4GlcNAcb-Sp8	9	9
432	GlcNAcb1-2Mana1-6(GlcNAcb1-4)(GlcNAcb1-4)(GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21	9	7
140	Galb1-3GalNAca-Sp14	9	11
211	Mana1-2Mana1-6(Mana1-3)Mana1-6(Mana1-2Mana1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	9	21
352	GlcNAcb1-2Mana1-6(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	9	7
207	Mana1-2Mana1-2Mana1-3Mana-Sp9	9	8
357	KDNa2-6Galb1-4GlcNAc-Sp0	9	10
34	(3S)Galb1-4(6S)GlcNAcb-Sp0	9	10
37	(3S)Galb1-4GlcNAcb-Sp8	9	7
126	Galb1-3(Fuca1-4)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	9	2

363	Gala1-3Galb1-4GlcNAcb1-2Mana1-6(Gala1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	9	3
237	Neu5Aca2-3GalNAcb1-4GlcNAcb-Sp0	9	6
201	GlcAa-Sp8	9	5
405	Gala1-3Galb1-4GlcNAcb1-3GalNAca-Sp14	9	4
600	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp14	9	9
409	Gala1-3(Fuca1-2)Galb1-4(Fuca1-3)Glc-Sp21	9	6
443	(6S)Galb1-3GlcNAcb-Sp0	9	11
557	Neu5Aca2-8Neu5Aca2-3Galb1-4GlcNAc-Sp0	9	4
350	Galb1-4GlcNAcb1-2Mana1-6Manb1-4GlcNAcb1-4GlcNAc-Sp12	9	13
30	(3S)Galb1-3GlcNAcb-Sp0	9	11
119	Gala1-4(Fuca1-2)Galb1-4GlcNAcb-Sp8	8	6
72	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb-Sp8	8	3
188	GlcNAcb1-4Galb1-4GlcNAcb-Sp8	8	11
555	Neu5Gca2-8Neu5Gca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAc-Sp0	8	5
33	(3S)Galb1-4(Fuca1-3)GlcNAc-Sp8	8	7
251	Neu5Aca2-3Galb1-4(6S)GlcNAcb-Sp8	8	5
6	Fuca-Sp8	8	5
296	4S(3S)Galb1-4GlcNAcb-Sp0	8	8
163	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	8	4
286	Neu5Gca2-6Galb1-4GlcNAcb-Sp0	8	4
497	Fuca1-2(6S)Galb1-3GlcNAcb-Sp0	8	3
122	Gala1-4Galb1-4Glc-Sp0	8	12
456	Neu5Aca2-6Galb1-4GlcNAcb1-6(Fuca1-2Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp21	8	5
433	GlcNAcb1-6(GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21	8	5
289	Galb1-3GlcNAcb1-3Galb1-3GlcNAcb-Sp0	8	3
277	Galb1-3(Fuca1-4)GlcNAcb1-3Galb1-3(Fuca1-4)GlcNAcb-Sp0	8	7
305	Galb1-4GlcNAcb1-6Galb1-4GlcNAcb-Sp0	8	6
242	Neu5Aca2-3Galb1-3(6S)GalNAca-Sp8	8	6
423	Gala1-3(Fuca1-2)Galb1-3GlcNAcb1-3GalNAc-Sp14	8	3
422	Fuca1-2Galb1-3GlcNAcb1-3GalNAc-Sp14	8	2
480	Neu5Aca2-6Galb1-4GlcNAcb1-6GalNAca-Sp14	8	11
281	Neu5Gca2-3Galb1-3GlcNAcb-Sp0	8	3
36	(3S)Galb1-4GlcNAcb-Sp0	8	9
470	Glca1-4Glca1-4Glca1-4Glc-Sp10	8	1
404	Gala1-4Galb1-4GlcNAcb1-2Mana1-6(Gala1-4Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp24	8	5
200	G-ol-Sp8	8	6
154	Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	8	9
160	Galb1-4GlcNAcb1-3GalNAc-Sp14	8	6
284	Neu5Gca2-3Galb1-4Glc-Sp0	8	5
498	Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-6GalNAca-Sp14	8	10
531	Galb1-4GlcNAcb1-2 Mana1-6(GlcNAcb1-4)(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAc-Sp21	8	15
455	Gala1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-6(Gala1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	7	6
157	Galb1-4GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb-Sp8	7	7
395	Gala1-3Galb1-3(Fuca1-4)GlcNAcb1-2Mana1-6(Gala1-3Galb1-3(Fuca1-4)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp19	7	2
316	Mana1-2Mana1-6(Mana1-2Mana1-3)Mana1-6(Mana1-2Mana1-2Mana1-3)Mana-Sp9	7	7
417	Gala1-3(Fuca1-2)Galb1-4(Fuca1-3)GlcNAcb1-3GalNAc-Sp14	7	6
139	Galb1-3GalNAca-Sp8	7	9
486	Neu5Aca2-3Galb1-3GlcNAcb1-2Mana1-6(GlcNAcb1-4)(Neu5Aca2-3Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21	7	7
366	Neu5Aca2-6GlcNAcb1-4GlcNAc-Sp21	7	7

32	(3S)Galb1-4(Fuca1-3)GlcNAc-Sp0	7	8
418	GalNAca1-3(Fuca1-2)Galb1-4(Fuca1-3)GlcNAcb1-3GalNAc-Sp14	7	8
275	Neu5Aca2-8Neu5Aca-Sp8	7	7
380	Galb1-3GalNAca1-3(Fuca1-2)Galb1-4Glc-Sp0	7	5
354	Galb1-3GlcNAcb1-2Mana1-6(Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	7	2
80	Fuca1-4GlcNAcb-Sp8	7	4
410	Galb1-4GlcNAcb1-6(Neu5Aca2-6Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp21	7	5
603	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	7	12
280	Neu5Gca2-3Galb1-3(Fuca1-4)GlcNAcb-Sp0	7	13
67	Fuca1-2Galb1-3GlcNAcb-Sp0	7	11
307	GlcAb1-3GlcNAcb-Sp8	7	9
517	Galb1-4(6P)GlcNAcb-Sp0	7	1
117	Gala1-3Galb1-4Glc-Sp10	7	7
66	Fuca1-2Galb1-3GlcNAcb1-3Galb1-4Glc-Sp10	7	7
169	Galb1-4GlcNAcb-Sp8	7	4
469	Glca1-6Glca1-6Glca1-6Glc-Sp10	7	2
65	Fuca1-2Galb1-3GlcNAcb1-3Galb1-4Glc-Sp8	6	2
269	Neu5Aca2-6Galb1-4GlcNAcb-Sp8	6	9
189	GlcNAcb1-4GlcNAcb1-4GlcNAcb1-4GlcNAcb1-4GlcNAcb1-4GlcNAcb1-Sp8	6	7
515	(3S)GalNAcb1-4GlcNAc-Sp8	6	10
468	Gala1-3(Fuca1-2)Galb1-3GalNAcb-Sp8	6	5
56	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Man-a1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	6	5
510	Galb1-3(6S)GlcNAcb-Sp8	6	6
147	Galb1-3GlcNAcb1-3Galb1-4GlcNAcb-Sp0	6	17
430	Fuca1-3GlcNAcb1-6(Galb1-4GlcNAcb1-3)Galb1-4Glc-Sp21	6	7
185	GlcNAcb1-3Galb1-4Glc-Sp0	6	3
102	Gala1-3(Fuca1-2)Galb1-3GlcNAcb-Sp8	6	11
574	GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	6	3
230	Neu5Aca2-3(6S)Galb1-4(Fuca1-3)GlcNAcb-Sp8	6	2
291	Galb1-4(Fuca1-3)(6S)Glc-Sp0	6	10
259	Neu5Aca2-3Galb1-4GlcNAcb-Sp0	6	4
214	Mana1-2Mana1-2Mana1-6(Mana1-3)Mana-Sp9	6	3
308	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	6	3
511	(6S)(4S)GalNAcb1-4GlcNAc-Sp8	5	2
386	Galb1-3GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-6(Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp21	5	3
359	KDNa2-3Galb1-3GalNAca-Sp14	5	7
168	Galb1-4GlcNAcb-Sp0	5	3
267	Neu5Aca2-6Galb1-4(6S)GlcNAcb-Sp8	5	13
172	Galb1-4Glc-Sp8	5	5
328	Neu5,9Ac2a2-3Galb1-4GlcNAcb-Sp0	5	12
556	Neu5Gca2-8Neu5Gca2-6Galb1-4GlcNAc-Sp0	5	5
75	Fuca1-2Galb1-4GlcNAcb-Sp0	5	10
257	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4GlcNAcb-Sp8	5	5
70	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	5	7
59	Fuca1-2Galb1-3GalNAcb1-3Gala1-4Galb1-4Glc-Sp9	5	6
526	Neu5Aca2-3Galb1-3GlcNAcb1-2Mana-Sp0	5	8
271	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	5	10
376	Neu5Aca2-3Galb1-4GlcNAcb1-3GalNAc-Sp14	5	5
397	GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp12	5	5

239	Neu5Aca2-3Galb1-3(Fuca1-4)GlcNAcb-Sp8	5	1
218	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	5	6
170	Galb1-4GlcNAcb-Sp23	4	6
406	Galb1-3GlcNAcb1-6Galb1-4GlcNAcb-Sp0	4	7
64	Fuca1-2Galb1-3GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc-Sp9	4	6
457	GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-6(GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	4	19
314	Mana1-6(Mana1-3)Mana1-6(Mana1-3)Manb-Sp10	4	3
598	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3GalNAca-Sp14	4	1
465	Neu5Aca2-6Galb1-4GlcNAcb1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	4	8
128	Galb1-3(Fuca1-4)GlcNAc-Sp0	4	6
79	Fuca1-3GlcNAcb-Sp8	4	8
315	Mana1-2Mana1-6(Mana1-3)Mana1-6(Mana1-2Mana1-2Mana1-3)Mana-Sp9	4	7
419	Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-6(Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	4	3
434	GlcNAcb1-6(GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(GlcNAcb1-4(GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21	3	6
287	Neu5Gca-Sp8	3	8
145	Galb1-3GalNAcb1-4Galb1-4Glc-Sp8	3	15
403	Gala1-4Galb1-3GlcNAcb1-2Mana1-6(Gala1-4Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19	3	4
203	GlcAb1-3Galb-Sp8	3	7
110	Gala1-3GalNAca-Sp8	3	8
262	Fuca1-2Galb1-4(6S)Glc-Sp0	3	6
360	Fuca1-2Galb1-3GlcNAcb1-2Mana1-6(Fuca1-2Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	3	5
390	Fuca1-2Galb1-3GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb-Sp0	3	3
9	Neu5Aca-Sp8	3	7
534	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb1-2Mana-Sp0	3	2
272	Neu5Aca2-6Galb1-4Glc-Sp0	3	3
440	Galb1-6Galb-Sp10	3	4
561	GlcNAcb1-3Galb1-4GlcNAcb1-6(GlcNAcb1-3Galb1-3)GalNAca-Sp14	2	2
112	Gala1-3GalNAcb-Sp8	2	7
43	(6S)Galb1-4Glc-Sp8	2	5
50	Mana1-6(Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	2	5
248	Fuca1-2(6S)Galb1-4Glc-Sp0	2	5
148	Galb1-3GlcNAcb1-3Galb1-4Glc-Sp10	2	4
340	GlcNAca1-4Galb1-3GlcNAcb-Sp0	2	4
125	Galb1-2Galb-Sp8	2	10
186	GlcNAcb1-4-MDPLys	2	4
383	Galb1-4(Fuca1-3)GlcNAcb1-6(Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp21	1	4
273	Neu5Aca2-6Galb1-4Glc-Sp8	1	4
14	Manb-Sp8	1	5
573	Neu5Aca2-8Neu5Aca2-3Galb1-3GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc-Sp21	1	5
323	Neu5Gcb2-6Galb1-4GlcNAc-Sp8	1	9
312	MurNAcb1-4GlcNAcb-Sp10	1	7
431	GlcNAcb1-2Mana1-6(GlcNAcb1-4)(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21	1	4
54	Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	1	19
355	(6S)GlcNAcb1-3Galb1-4GlcNAcb-Sp0	1	1
245	Neu5Aca2-3Galb-Sp8	0	3
569	(3S)GlcAb1-3Galb1-4GlcNAcb1-3Galb1-4Glc-Sp0	0	16
319	Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	0	4
294	Neu5Aca2-3Galb1-3GlcNAcb1-3Galb1-3GlcNAcb-Sp0	0	4
351	Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	0	4

134	GlcNAcb1-6(Galb1-3)GalNAca-Sp14	0	6
333	Gala1-4Galb1-4GlcNAcb1-3Galb1-4Glc-Sp0	0	8
17	GlcNAcb-Sp8	-1	3
595	GlcNAcb1-3Galb1-4GlcNAcb1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3)GalNAca-Sp14	-1	11
108	Gala1-3(Fuca1-2)Galb-Sp18	-1	6
593	GlcNAcb1-3Galb1-4GlcNAcb1-3GalNAca-Sp14	-2	28
537	Gala1-3(Fuca1-2)Galb1-3GalNAcb1-3Gala1-4Galb1-4Glc-Sp21	-3	3
204	GlcAb1-6Galb-Sp8	-3	9
221	Fuca1-2Galb1-4(6S)GlcNAcb-Sp8	-3	4
601	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp14	-3	5
532	Galb1-4GlcNAcb1-2 Mana1-6(Galb1-4GlcNAcb1-4)(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAc-Sp21	-4	3
594	GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp14	-5	11
454	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-6(GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	-6	60
388	GlcNAcb1-2Mana1-6(GlcNAcb1-4(GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21	-7	3
428	Galb1-3GlcNAcb1-6(Galb1-3GlcNAcb1-2)Mana1-6(Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19	-9	10
439	Galb1-4Galb-Sp10	-10	17
146	Galb1-3Galb-Sp8	-10	8
19	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3)GalNAca-Sp8	-10	11
438	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(Galb1-4GlcNAcb1-4(Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21	-14	15
599	Galb1-4GlcNAcb1-3Galb1-3GalNAca-Sp14	-14	18
604	GlcNAcb1-6(Neu5Aca2-3Galb1-3)GalNAca-Sp14	-16	16
596	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3)GalNAca-Sp14	-16	10
589	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3GalNAca-Sp14	-29	31
444	(6S)Galb1-3(6S)GlcNAc-Sp0	-38	12
464	Neu5Aca2-6Galb1-4GlcNAcb1-4Mana1-6(GlcNAcb1-4)(Neu5Aca2-6Galb1-4GlcNAcb1-4(Neu5Aca2-6Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	-39	45
264	Neu5Aca2-3Galb1-4Glc-Sp8	-40	33
520	Neu5Aca2-6Galb1-4GlcNAcb1-2Man-Sp0	-42	15
183	GlcNAcb1-3Galb1-4GlcNAcb-Sp8	-47	8
441	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb-Sp8	-58	23
346	Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp12	-65	1
597	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3GalNAca-Sp14	-109	21
445	Fuca1-2Galb1-4 GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4GlcNAcb1-2(Fuca1-2Galb1-4GlcNAcb1-4)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	-133	45
103	Gala1-3(Fuca1-2)Galb1-4(Fuca1-3)GlcNAcb-Sp0	-147	93
31	(3S)Galb1-3GlcNAcb-Sp8	-163	13
21	GlcNAcb1-6(GlcNAcb1-4)(GlcNAcb1-3)GlcNAc-Sp8	-246	157
182	GlcNAcb1-3Galb1-4GlcNAcb-Sp0	-597	238
466	Neu5Aca2-6Galb1-4GlcNAcb1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(Neu5Aca2-6Galb1-4GlcNAcb1-4(Neu5Aca2-6Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	-840	250
471	Neu5Aca2-3Galb1-4GlcNAcb1-6(Neu5Aca2-3Galb1-4GlcNAcb1-3)GalNAca-Sp14	-1073	101

Glycan Number	Rank order at 90 µg/ml	Average RFU	Standard deviation
514	GalNAcb1-4(6S)GlcNAc-Sp8	22308	897
192	GlcNAcb1-6GalNAca-Sp8	22160	4276
98	GalNAcb1-4GlcNAcb-Sp0	12164	10120
4	GalNAca-Sp8	7979	683
491	Neu5Aca2-3Galb1-3GlcNAcb1-6GalNAca-Sp14	5486	1892
306	GalNAcb1-3Galb-Sp8	5327	779
7	Fuca-Sp9	5263	1162
563	GalNAcb1-4GlcNAcb1-3GalNAcb1-4GlcNAcb-Sp0	5121	84
519	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-6GalNAc-Sp14	5091	213
512	(6S)GalNAcb1-4GlcNAc-Sp8	4856	3594
334	GalNAcb1-3Gala1-4Galb1-4GlcNAcb1-3Galb1-4Glc-Sp0	4670	290
131	Galb1-4GlcNAcb1-6GalNAca-Sp8	4230	97
408	GalNAcb1-3Gala1-6Galb1-4Glc-Sp8	4112	252
562	GalNAcb1-3GlcNAcb-Sp0	4103	274
506	GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-6GalNAca-Sp14	4040	97
93	GalNAca1-4(Fuca1-2)Galb1-4GlcNAcb-Sp8	3789	176
590	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp14	3542	7060
495	Gala1-3Galb1-4GlcNAcb1-6GalNAca-Sp14	3454	257
494	Fuca1-2Galb1-4GlcNAcb1-6GalNAca-Sp14	3419	328
96	GalNAcb1-3Gala1-4Galb1-4GlcNAcb-Sp0	3248	427
265	Neu5Aca2-6GalNAca-Sp8	3185	209
15	GalNAcb-Sp8	3159	397
92	GalNAca1-3Galb-Sp8	3095	99
402	GalNAca1-3GalNAcb1-3Gala1-4Galb1-4GlcNAcb-Sp0	2942	313
97	GalNAcb1-4(Fuca1-3)GlcNAcb-Sp0	2848	116
5	GalNAca-Sp15	2832	137
488	Galb1-3GlcNAcb1-6GalNAca-Sp14	2828	198
95	GalNAcb1-3(Fuca1-2)Galb-Sp8	2822	345
193	GlcNAcb1-6GalNAca-Sp14	2806	206
528	GalNAcb1-4GlcNAcb1-2Mana-Sp0	2786	135
479	Neu5Aca2-3Galb1-4GlcNAcb1-6GalNAca-Sp14	2665	174
266	Neu5Aca2-6GalNAcb1-4GlcNAcb-Sp0	2542	82
373	GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-6(GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	2513	157
503	GalNAcb1-4(Fuca1-3)(6S)GlcNAcb-Sp8	2496	578
233	GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc-Sp0	2397	244
489	Gala1-3Galb1-3GlcNAcb1-6GalNAca-Sp14	2331	129
285	Neu5Gca2-6GalNAca-Sp0	2215	300
226	GalNAcb1-4(Neu5Aca2-8Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp0	2212	196
525	Gala1-3(Fuca1-2)Galb1-3GlcNAcb1-6GalNAc-Sp14	2176	200
82	GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb-Sp0	2146	179
228	GalNAcb1-4(Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp0	2128	168
86	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb-Sp8	2029	36
225	GalNAcb1-4(Neu5Aca2-8Neu5Aca2-8Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp0	1985	110
335	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	1935	87
232	GalNAcb1-4(Neu5Aca2-3)Galb1-4GlcNAcb-Sp8	1897	162
90	GalNAca1-3(Fuca1-2)Galb-Sp18	1871	281
523	GalNAca1-3(Fuca1-2)Galb1-4 GlcNAcb1-2Mana-Sp0	1815	103

370	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-6(GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	1680	252
91	GalNAca1-3GalNAcb-Sp8	1536	256
87	GalNAca1-3(Fuca1-2)Galb1-4Glc-Sp0	1450	170
536	GalNAca1-3(Fuca1-2)Galb1-3GalNAcb1-3Gala1-4Galb1-4Glc-Sp21	1328	282
89	GalNAca1-3(Fuca1-2)Galb-Sp8	1297	215
231	GalNAcb1-4(Neu5Aca2-3)Galb1-4GlcNAcb-Sp0	1168	270
379	GalNAcb1-4GlcNAcb1-2Mana1-6(GalNAcb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	1138	115
132	Galb1-4GlcNAcb1-6GalNAcb-Sp14	1112	57
451	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-6(GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-3)GalNAcb-Sp14	1056	100
336	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	1055	75
415	GalNAca1-3GalNAcb1-3Gala1-4Galb1-4Glc-Sp0	988	38
490	Galb1-3(Fuca1-4)GlcNAcb1-6GalNAca-Sp14	921	27
424	GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-3GalNAcb-Sp14	886	215
502	Neu5Aca2-6GalNAcb1-4(6S)GlcNAcb-Sp8	810	50
392	GalNAcb1-4(Neu5Aca2-3)Galb1-4GlcNAcb1-3GalNAca-Sp14	760	83
83	GalNAca1-3(Fuca1-2)Galb1-4(Fuca1-3)GlcNAcb-Sp0	752	51
393	GalNAca1-3(Fuca1-2)Galb1-3GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb-Sp0	750	489
282	Neu5Gca2-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	747	19
144	Galb1-3GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc-Sp0	735	22
447	Galb1-4(Fuca1-3)GlcNAcb1-6GalNAcb-Sp14	700	45
414	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-3GalNAca-Sp14	673	22
94	GalNAcb1-3GalNAca-Sp8	647	43
85	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb-Sp0	592	106
143	Galb1-3GalNAcb1-3Gala1-4Galb1-4Glc-Sp0	576	58
278	Neu5Acb2-6GalNAca-Sp8	560	72
411	Galb1-3GalNAcb1-4(Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp0	466	53
454	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-6(GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	460	60
448	Galb1-4GlcNAcb1-2Mana-Sp0	429	47
63	Fuca1-2Galb1-3GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc-Sp0	262	19
457	GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-6(GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	227	167
152	Galb1-4(Fuca1-3)GlcNAcb-Sp8	225	130
559	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Mana1-4GlcNAcb1-4GlcNAcb-Sp24	222	5
377	Neu5Aca2-6Galb1-4GlcNAcb1-3GalNAcb-Sp14	219	33
166	Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp8	213	9
244	Neu5Aca2-6(Neu5Aca2-3Galb1-3)GalNAca-Sp14	174	11
77	Fuca1-2Galb1-4Glc-Sp0	163	21
3	Mana-Sp8	157	23
390	Fuca1-2Galb1-3GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb-Sp0	119	24
174	GlcNAca1-6Galb1-4GlcNAcb-Sp8	109	19
571	Galb1-3GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-3GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(Galb1-3GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	101	33
418	GalNAca1-3(Fuca1-2)Galb1-4(Fuca1-3)GlcNAcb1-3GalNAcb-Sp14	100	31
588	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	97	8
236	Neu5Aca2-3GalNAca-Sp8	93	25
158	Galb1-4GalNAcb1-3(Fuca1-2)Galb1-4GlcNAcb-Sp8	86	16
136	Neu5Aca2-6(Galb1-3)GalNAca-Sp14	81	23
145	Galb1-3GalNAcb1-4Galb1-4Glc-Sp8	80	24
428	Galb1-3GlcNAcb1-6(Galb1-3GlcNAcb1-2)Mana1-6(Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19	79	20

468	Gala1-3(Fuca1-2)Galb1-3GalNAcb-Sp8	37	12
575	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	37	20
365	Fuca1-4(Galb1-3)GlcNAcb1-2Mana1-6(Fuca1-4(Galb1-3)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	36	7
551	Galb1-3GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-3GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp25	36	18
173	GlcNAca1-3Galb1-4GlcNAcb-Sp8	35	34
446	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-4(Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	35	8
299	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb1-6(Galb1-3)GalNAca-Sp14	35	15
583	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	35	17
586	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	35	6
541	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	34	7
404	Gala1-4Galb1-4GlcNAcb1-2Mana1-6(Gala1-4Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp24	34	12
43	(6S)Galb1-4Glc-Sp8	34	22
545	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	34	8
465	Neu5Aca2-6Galb1-4GlcNAcb1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	34	39
24	(3S)Galb1-4(Fuca1-3)(6S)Glc-Sp0	33	22
470	Glca1-4Glca1-4Glca1-4Glc-Sp10	33	11
27	(3S)Galb1-4(6S)Glc-Sp8	33	9
121	Gala1-4Galb1-4GlcNAcb-Sp8	33	14
542	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp24	32	18
109	Gala1-4(Gala1-3)Galb1-4GlcNAcb-Sp8	32	29
577	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	32	10
6	Fuca-Sp8	32	26
110	Gala1-3GalNAca-Sp8	31	8
263	Neu5Aca2-3Galb1-4Glc-Sp0	31	8
426	Fuca1-2Galb1-3GlcNAcb1-2Mana1-6(Fuca1-2Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	31	9
576	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	31	4
453	GalNAcb1-4Galb1-4Glc-Sp0	31	15
151	Galb1-4(Fuca1-3)GlcNAcb-Sp0	31	15
318	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	30	16
224	Neu5Aca2-3Galb1-3GalNAca-Sp14	30	13
450	Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-6(Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-3)GalNAcb-Sp14	29	17
524	Galb1-3GlcNAcb1-2Mana-Sp0	29	10
475	GlcNAcb1-6(GlcNAcb1-2)Mana1-6(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	29	7
59	Fuca1-2Galb1-3GalNAcb1-3Gala1-4Galb1-4Glc-Sp9	29	12
142	Galb1-3GalNAcb-Sp8	29	12
473	Fuca1-2Galb1-3(Fuca1-4)GlcNAcb1-2Mana1-6(Fuca1-2Galb1-3(Fuca1-4)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp19	29	8
168	Galb1-4GlcNAcb-Sp0	28	15
12	Galb-Sp8	28	10
20	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3)GalNAcb-Sp14	28	9
352	GlcNAcb1-2Mana1-6(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	28	9
167	Galb1-4GlcNAcb1-6(Galb1-3)GalNAcb-Sp14	27	12
108	Gala1-3(Fuca1-2)Galb-Sp18	27	20
544	Fuca1-2Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp24	27	9
546	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp25	27	14
501	Fuca1-2(6S)Galb1-3(6S)GlcNAcb-Sp0	27	6
382	Galb1-3GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp0	27	7
591	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3)GalNAca-Sp14	27	9

291	Galb1-4(Fuca1-3)(6S)GlcB-Sp0	27	23
477	Neu5Aca2-6Galb1-4GlcNAcb1-6(Galb1-3GlcNAcb1-3)Galb1-4GlcB-Sp21	26	11
324	Galb1-3GlcNAcb1-2Mana1-6(Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19	26	13
70	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	26	19
337	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb1-6(Neu5Aca2-3Galb1-3)GalNAc-Sp14	26	29
371	Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-6(Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	26	5
288	Neu5Aca2-3Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp14	26	13
481	Neu5Aca2-6Galb1-4 GlcNAcb1-6(Neu5Aca2-6Galb1-4GlcNAcb1-3)GalNAca-Sp14	26	3
429	Galb1-4GlcNAcb1-6(Fuca1-2Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp21	25	14
78	Fuca1-2Galb-Sp8	25	3
165	Galb1-4GlcNAcb1-3Galb1-4GlcB-Sp8	25	4
135	Neu5Aca2-6(Galb1-3)GalNAca-Sp8	25	18
566	GlcNAcb1-3Galb1-3GalNAc-Sp14	25	7
290	Galb1-4(Fuca1-3)(6S)GlcNAcb-Sp0	24	6
413	Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-3GalNAca-Sp14	24	17
493	Galb1-4(Fuca1-3)GlcNAcb1-6(Neu5Aca2-6(Neu5Aca2-3Galb1-3)GlcNAcb1-3)Galb1-4Glc-Sp21	24	15
405	Gala1-3Galb1-4GlcNAcb1-3GalNAca-Sp14	24	8
342	GlcNAca1-4Galb1-4GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	24	3
139	Galb1-3GalNAca-Sp8	24	12
406	Galb1-3GlcNAcb1-6Galb1-4GlcNAcb-Sp0	24	14
505	Fuca1-2Galb1-3GlcNAcb1-6(Fuca1-2Galb1-3GlcNAcb1-3)GalNAca-Sp14	24	21
212	Mana1-2Mana1-6(Mana1-2Mana1-3)Mana1-6(Mana1-2Mana1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	24	14
540	GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp25	24	13
560	Gala1-3Galb1-4GlcNAcb1-2Mana1-6(Gala1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp24	23	14
111	Gala1-3GalNAca-Sp16	23	10
484	Mana1-6(Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp19	23	12
194	GlcNAcb1-6Galb1-4GlcNAcb-Sp8	23	15
508	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-4)Galb1-4GlcNAcb1-4(Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAc-Sp21	23	11
33	(3S)Galb1-4(Fuca1-3)GlcNAc-Sp8	23	15
106	Gala1-3(Fuca1-2)Galb1-4GlcB-Sp0	23	9
358	KDNa2-3Galb1-4Glc-Sp0	23	20
474	Neu5Aca2-3Galb1-3GlcNAcb1-6(Neu5Aca2-3Galb1-3GlcNAcb1-2)Mana1-6(Neu5Aca2-3Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19	23	6
73	Fuca1-2Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	23	6
403	Gala1-4Galb1-3GlcNAcb1-2Mana1-6(Gala1-4Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19	22	11
55	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	22	14
376	Neu5Aca2-3Galb1-4GlcNAcb1-3GalNAc-Sp14	22	15
270	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	22	3
427	Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-6(Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	22	19
179	GlcNAcb1-3GalNAca-Sp8	22	18
10	Neu5Aca-Sp11	22	5
213	Mana1-6(Mana1-3)Mana-Sp9	22	13
504	(3S)GalNAcb1-4(Fuca1-3)GlcNAcb-Sp8	22	20
40	(4S)Galb1-4GlcNAcb-Sp8	22	15
364	Galb1-4GlcNAcb1-2Mana1-6(Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	21	16
407	Galb1-3GlcNAca1-6Galb1-4GlcNAcb-Sp0	21	15
32	(3S)Galb1-4(Fuca1-3)GlcNAc-Sp0	21	6
29	(3S)Galb1-3GalNAca-Sp8	21	11
421	GlcNAcb1-2(GlcNAcb1-6)Mana1-6(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19	21	11
485	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	21	14

262	Fuca1-2Galb1-4(6S)GlcB-Sp0	21	5
476	Galb1-3GlcNAcb1-2Mana1-6(GlcNAcb1-4)(Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	21	20
156	Galb1-4(6S)GlcB-Sp8	21	9
547	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	21	9
305	Galb1-4GlcNAcb1-6Galb1-4GlcNAcb-Sp0	21	7
23	6S(3S)Galb1-4GlcNAcb-Sp0	21	17
416	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-3GalNAca-Sp14	21	13
561	GlcNAcb1-3Galb1-4GlcNAcb1-6(GlcNAcb1-3Galb1-3)GalNAca-Sp14	21	11
452	Neu5Aca2-8Neu5Aca2-3Galb1-3GalNAcb1-4(Neu5Aca2-8Neu5Aca2-3)Galb1-4GlcB-Sp0	21	5
57	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp24	21	4
71	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb-Sp0	21	7
350	Galb1-4GlcNAcb1-2Mana1-6Manb1-4GlcNAcb1-4GlcNAcb-Sp12	21	6
62	Fuca1-2Galb1-3GalNAca-Sp14	20	17
609	GlcNAcb1-3Fuca-Sp21	20	6
549	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp25	20	5
381	Galb1-3GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb-Sp0	20	8
383	Galb1-4(Fuca1-3)GlcNAcb1-6(Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp21	20	11
301	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	20	15
326	Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	20	13
554	Neu5Gca2-8Neu5Aca2-3Galb1-4GlcNAcb-Sp0	20	6
417	Gala1-3(Fuca1-2)Galb1-4(Fuca1-3)GlcNAcb1-3GalNAcb-Sp14	20	20
276	Neu5Aca2-8Neu5Aca2-3Galb1-4GlcB-Sp0	19	10
309	GlcNAcb1-3Man-Sp10	19	17
188	GlcNAcb1-4Galb1-4GlcNAcb-Sp8	19	6
99	GalNAcb1-4GlcNAcb-Sp8	19	793
199	GlcB1-6GlcB-Sp8	19	11
190	GlcNAcb1-4GlcNAcb1-4GlcNAcb1-4GlcNAcb1-4GlcNAcb1-Sp8	19	13
1	Gala-Sp8	19	13
254	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	19	9
320	GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	19	3
130	Fuca1-4(Galb1-3)GlcNAcb-Sp8	19	7
176	GlcNAcb1-6(GlcNAcb1-3)GalNAca-Sp8	19	4
195	GlcA1-4GlcB-Sp8	19	9
69	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	18	5
356	KDNa2-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	18	8
366	Neu5Aca2-6GlcNAcb1-4GlcNAcb-Sp21	18	2
53	GlcNAcb1-2Mana1-6(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp13	18	15
482	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	18	17
456	Neu5Aca2-6Galb1-4GlcNAcb1-6(Fuca1-2Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp21	18	18
120	Gala1-4Galb1-4GlcNAcb-Sp0	18	13
594	GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp14	18	16
362	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	18	6
153	Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	18	6
36	(3S)Galb1-4GlcNAcb-Sp0	18	10
394	Gala1-3Galb1-3GlcNAcb1-2Mana1-6(Gala1-3Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19	18	11
47	(6S)GlcNAcb-Sp8	18	8
229	Neu5Aca2-8Neu5Aca2-8Neu5Aca-Sp8	18	2
552	Neu5Gca2-8Neu5Gca2-3Galb1-4GlcNAcb-Sp0	18	8
172	Galb1-4GlcB-Sp8	18	16

175	GlcNAcb1-2Galb1-3GalNAca-Sp8	15	8
461	Neu5Aca2-3Galb1-4GlcNAcb1-6(Neu5Aca2-3Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	15	7
25	(3S)Galb1-4Glc-Sp8	15	18
347	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6Manb1-4GlcNAcb1-4GlcNAc-Sp12	15	9
127	Galb1-3GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	14	4
13	Glc-Sp8	14	13
368	Galb1-4(Fuca1-3)GlcNAcb1-6(Fuca1-2Galb1-4GlcNAcb1-3)Galb1-4Glc-Sp21	14	5
592	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3GalNAca-Sp14	14	5
496	Galb1-4(Fuca1-3)GlcNAcb1-2Mana-Sp0	14	10
220	Fuca1-2(6S)Galb1-4GlcNAcb-Sp0	14	10
401	Galb1-4(Fuca1-3)GlcNAcb1-3GalNAca-Sp14	14	5
530	GlcNAcb1-2 Mana1-6(GlcNAcb1-4)(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAc-Sp21	14	5
375	Fuca1-4(Fuca1-2Galb1-3)GlcNAcb1-2Mana1-3(Fuca1-4(Fuca1-2Galb1-3)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19	14	12
34	(3S)Galb1-4(6S)GlcNAcb-Sp0	14	17
114	Gala1-3Galb1-3GlcNAcb-Sp0	14	9
253	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	14	4
141	Galb1-3GalNAca-Sp16	14	9
321	Neu5Aca2-8Neu5Acb-Sp17	14	2
178	GlcNAcb1-6(GlcNAcb1-3)Galb1-4GlcNAcb-Sp8	14	8
480	Neu5Aca2-6Galb1-4GlcNAcb1-6GalNAca-Sp14	14	10
113	Gala1-3Galb1-4(Fuca1-3)GlcNAcb-Sp8	14	3
241	Neu5Aca2-3Galb1-4(Neu5Aca2-3Galb1-3)GlcNAcb-Sp8	14	13
219	(3S)Galb1-4(Fuca1-3)(6S)GlcNAcb-Sp8	14	6
255	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb-Sp8	14	13
60	Fuca1-2Galb1-3(Fuca1-4)GlcNAcb-Sp8	13	13
435	Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-4)(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21	13	5
56	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Man-a1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	13	11
513	(3S)GalNAcb1-4(3S)GlcNAc-Sp8	13	16
258	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	13	2
28	(3S)Galb1-3(Fuca1-4)GlcNAcb-Sp8	13	4
387	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-4(Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	13	7
369	Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-4(Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21	13	6
275	Neu5Aca2-8Neu5Aca-Sp8	13	6
203	GlcAb1-3Galb-Sp8	13	4
598	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3GalNAca-Sp14	13	6
431	GlcNAcb1-2Mana1-6(GlcNAcb1-4)(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21	13	8
443	(6S)Galb1-3GlcNAcb-Sp0	13	12
332	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	13	9
287	Neu5Gca-Sp8	13	3
455	Gala1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-6(Gala1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	12	11
61	Fuca1-2Galb1-3GalNAca-Sp8	12	7
384	Galb1-4GlcNAcb1-6(Fuca1-4(Fuca1-2Galb1-3)GlcNAcb1-3)Galb1-4Glc-Sp21	12	3
261	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	12	12
238	Neu5Aca2-3Galb1-3(6S)GlcNAc-Sp8	12	4
37	(3S)Galb1-4GlcNAcb-Sp8	12	10
164	Galb1-4GlcNAcb1-3Galb1-4Glc-Sp0	12	5
486	Neu5Aca2-3Galb1-3GlcNAcb1-2Mana1-6(GlcNAcb1-4)(Neu5Aca2-3Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21	12	6
543	Neu5Gca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Gca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp24	12	7
397	GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp12	12	5

170	Galb1-4GlcNAcb-Sp23	12	9
215	Mana1-6(Mana1-3)Mana1-6(Mana1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	12	6
18	GlcN(Gc)b-Sp8	12	7
160	Galb1-4GlcNAcb1-3GalNAc-Sp14	12	8
319	Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	12	7
529	Neu5Aca2-3Galb1-3GlcNAcb1-4Galb1-4Glc-Sp0	11	3
256	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb-Sp8	11	7
211	Mana1-2Mana1-6(Mana1-3)Mana1-6(Mana1-2Mana1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	11	4
126	Galb1-3(Fuca1-4)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	11	6
101	Gala1-3(Fuca1-2)Galb1-3GlcNAcb-Sp0	11	2
171	Galb1-4Glc-Sp0	11	4
46	Neu5Aca2-3(6S)Galb1-4GlcNAcb-Sp8	11	3
437	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21	11	1
42	(6S)Galb1-4Glc-Sp0	11	6
88	GlcNAcb1-3Galb1-3GalNAca-Sp8	11	6
573	Neu5Aca2-8Neu5Aca2-3Galb1-3GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc-Sp21	11	5
251	Neu5Aca2-3Galb1-4(6S)GlcNAcb-Sp8	11	8
159	Galb1-4GlcNAcb1-3GalNAca-Sp8	11	8
217	Manb1-4GlcNAcb-Sp0	11	2
283	Neu5Gca2-3Galb1-4GlcNAcb-Sp0	11	15
537	Gala1-3(Fuca1-2)Galb1-3GalNAcb1-3Gala1-4Galb1-4Glc-Sp21	11	18
237	Neu5Aca2-3GalNAcb1-4GlcNAcb-Sp0	11	6
252	Neu5Aca2-3Galb1-4(Fuca1-3)(6S)GlcNAcb-Sp8	11	8
44	(6S)Galb1-4GlcNAcb-Sp8	11	6
248	Fuca1-2(6S)Galb1-4Glc-Sp0	11	6
140	Galb1-3GalNAca-Sp14	11	16
389	Fuca1-2Galb1-3GalNAca1-3(Fuca1-2)Galb1-4Glc-Sp0	11	7
148	Galb1-3GlcNAcb1-3Galb1-4Glc-Sp10	11	15
610	Galb1-3GalNAcb1-4(Neu5Aca2-8Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp21	10	13
298	(6P)Glc-Sp10	10	9
329	Neu5,9Ac2a2-3Galb1-3GlcNAcb-Sp0	10	3
556	Neu5Gca2-8Neu5Gca2-6Galb1-4GlcNAc-Sp0	10	11
66	Fuca1-2Galb1-3GlcNAcb1-3Galb1-4Glc-Sp10	10	11
511	(6S)(4S)GalNAcb1-4GlcNAc-Sp8	10	9
272	Neu5Aca2-6Galb1-4Glc-Sp0	10	17
9	Neu5Aca-Sp8	10	10
433	GlcNAcb1-6(GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21	10	5
259	Neu5Aca2-3Galb1-4GlcNAcb-Sp0	10	3
539	GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	10	8
538	Galb1-3GalNAcb1-3Gal-Sp21	10	8
181	GlcNAcb1-3Galb-Sp8	10	3
177	GlcNAcb1-6(GlcNAcb1-3)GalNAca-Sp14	10	4
483	Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24	10	5
180	GlcNAcb1-3GalNAca-Sp14	10	6
284	Neu5Gca2-3Galb1-4Glc-Sp0	10	10
279	Neu5Acb2-6Galb1-4GlcNAcb-Sp8	10	7
499	Fuca1-2Galb1-4GlcNAcb1-2Mana-Sp0	10	4
185	GlcNAcb1-3Galb1-4Glc-Sp0	10	2
469	Glca1-6Glca1-6Glca1-6Glc-Sp10	10	4

242	Neu5Aca2-3Galb1-3(6S)GalNAca-Sp8	9	8
137	Neu5Acb2-6(Galb1-3)GalNAca-Sp8	9	3
48	Neu5,9Ac ₂ a-Sp8	9	8
169	Galb1-4GlcNAcb-Sp8	9	2
343	GlcNAca1-4Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	9	8
386	Galb1-3GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-6(Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp21	9	11
327	Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-6(Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	9	7
207	Mana1-2Mana1-2Mana1-3Mana-Sp9	9	5
249	Neu5Aca2-3Galb1-3GlcNAcb-Sp0	9	7
206	KDNa2-3Galb1-4GlcNAcb-Sp0	9	5
209	Mana1-2Mana1-3Mana-Sp9	9	4
396	Neu5Aca2-3Galb1-3GlcNAcb1-2Mana1-6(Neu5Aca2-3Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp19	9	12
348	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3Manb1-4GlcNAcb1-4GlcNAc-Sp12	9	2
234	Neu5Aca2-3Galb1-3GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc-Sp0	9	3
269	Neu5Aca2-6Galb1-4GlcNAcb-Sp8	9	11
507	GlcNAcb1-6(GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(GlcNAcb1-4(GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAc-Sp21	9	4
385	Galb1-4(Fuca1-3)GlcNAcb1-6(Fuca1-4(Fuca1-2Galb1-3)GlcNAcb1-3)Galb1-4Glc-Sp21	9	4
268	Neu5Aca2-6Galb1-4GlcNAcb-Sp0	9	8
38	(3S)Galb-Sp8	9	4
116	Gala1-3Galb1-4Glc-Sp0	9	10
462	Neu5Aca2-3Galb1-4GlcNAcb1-6(Neu5Aca2-3Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(Neu5Aca2-3Galb1-4GlcNAcb1-4(Neu5Aca2-3Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	9	5
372	Gala1-3Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-6(Gala1-3Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	9	7
357	KDNa2-6Galb1-4GlcNAc-Sp0	9	6
119	Gala1-4(Fuca1-2)Galb1-4GlcNAcb-Sp8	9	2
227	Neu5Aca2-8Neu5Aca2-8Neu5Aca2-3Galb1-4Glc-Sp0	9	3
239	Neu5Aca2-3Galb1-3(Fuca1-4)GlcNAcb-Sp8	9	10
246	Neu5Aca2-3Galb1-3GalNAcb1-3Gala1-4Galb1-4Glc-Sp0	9	4
312	MurNAcb1-4GlcNAcb-Sp10	9	3
81	Fucb1-3GlcNAcb-Sp8	8	3
162	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	8	6
49	Neu5,9Ac ₂ a2-6Galb1-4GlcNAcb-Sp8	8	6
84	(3S)Galb1-4(Fuca1-3)Glc-Sp0	8	5
280	Neu5Gca2-3Galb1-3(Fuca1-4)GlcNAcb-Sp0	8	8
64	Fuca1-2Galb1-3GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc-Sp9	8	8
325	Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	8	6
297	(6S)Galb1-4(6S)GlcNAcb-Sp0	8	8
247	Neu5Aca2-3Galb1-3GlcNAcb1-3Galb1-4GlcNAcb-Sp0	8	3
102	Gala1-3(Fuca1-2)Galb1-3GlcNAcb-Sp8	8	7
570	(3S)GlcAb1-3Galb1-4GlcNAcb1-2Mana-Sp0	8	1
487	Neu5Aca2-6Galb1-4GlcNAcb1-6(Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-3)Galb1-4Glc-Sp21	8	6
208	Mana1-2Mana1-6(Mana1-2Mana1-3)Mana-Sp9	8	8
526	Neu5Aca2-3Galb1-3GlcNAcb1-2Mana-Sp0	8	8
367	Neu5Aca2-6GlcNAcb1-4GlcNAcb1-4GlcNAc-Sp21	8	5
311	GlcNAcb1-4GlcNAcb-Sp12	8	8
600	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp14	8	9
361	Fuca1-2Galb1-4GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	8	9
112	Gala1-3GalNAcb-Sp8	8	4
349	Galb1-4GlcNAcb1-2Mana1-3Manb1-4GlcNAcb1-4GlcNAc-Sp12	8	7
355	(6S)GlcNAcb1-3Galb1-4GlcNAcb-Sp0	8	6

442	GalNAcb1-6GalNAcb-Sp8	8	5
260	Neu5Aca2-3Galb1-4GlcNAcb-Sp8	8	4
163	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	8	8
30	(3S)Galb1-3GlcNAcb-Sp0	7	24
196	Glca1-4Glca-Sp8	7	4
432	GlcNAcb1-2Mana1-6(GlcNAcb1-4)(GlcNAcb1-4(GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21	7	7
515	(3S)GalNAcb1-4GlcNAc-Sp8	7	3
243	Neu5Aca2-6(Neu5Aca2-3Galb1-3)GalNAca-Sp8	7	5
440	Galb1-6Galb-Sp10	7	14
492	(3S)Galb1-3(Fuca1-4)GlcNAcb-Sp0	7	9
360	Fuca1-2Galb1-3GlcNAcb1-2Mana1-6(Fuca1-2Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	7	3
22	6S(3S)Galb1-4(6S)GlcNAcb-Sp0	7	12
391	Galb1-3GlcNAcb1-3GalNAca-Sp14	7	6
323	Neu5Gcb2-6Galb1-4GlcNAc-Sp8	7	5
250	Neu5Aca2-3Galb1-3GlcNAcb-Sp8	7	6
313	Mana1-6Manb-Sp10	7	11
200	G-ol-Sp8	7	7
344	GlcNAca1-4Galb1-3GalNAc-Sp14	6	6
105	Gala1-3(Fuca1-2)Galb1-4GlcNAc-Sp0	6	5
569	(3S)GlcAb1-3Galb1-4GlcNAcb1-3Galb1-4Glc-Sp0	6	3
463	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-4)(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	6	4
293	Galb1-4GlcNAcb1-3Galb1-3GlcNAcb-Sp0	6	7
149	Galb1-3GlcNAcb-Sp0	6	5
68	Fuca1-2Galb1-3GlcNAcb-Sp8	6	9
509	Galb1-3GlcNAca1-3Galb1-4GlcNAcb-Sp8	6	2
310	GlcNAcb1-4GlcNAcb-Sp10	6	8
423	Gala1-3(Fuca1-2)Galb1-3GlcNAcb1-3GalNAc-Sp14	6	6
154	Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	6	5
292	Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-3(Fuca1-4)GlcNAcb-Sp0	6	2
459	Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-4)(Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	6	5
409	Gala1-3(Fuca1-2)Galb1-4(Fuca1-3)Glc-Sp21	6	14
274	Neu5Aca2-6Galb-Sp8	6	4
602	Neu5Aca2-6Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp14	5	13
218	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	5	8
267	Neu5Aca2-6Galb1-4(6S)GlcNAcb-Sp8	5	2
354	Galb1-3GlcNAcb1-2Mana1-6(Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22	5	15
314	Mana1-6(Mana1-3)Mana1-6(Mana1-3)Manb-Sp10	5	2
430	Fuca1-3GlcNAcb1-6(Galb1-4GlcNAcb1-3)Galb1-4Glc-Sp21	5	4
302	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3)Galb1-4GlcNAc-Sp0	5	6
117	Gala1-3Galb1-4Glc-Sp10	5	8
72	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb-Sp8	5	8
330	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-3GlcNAcb-Sp0	5	9
281	Neu5Gca2-3Galb1-3GlcNAcb-Sp0	5	7
124	Gala1-6Glc-Sp8	5	8
222	Fuca1-2(6S)Galb1-4(6S)Glc-Sp0	5	8
510	Galb1-3(6S)GlcNAcb-Sp8	5	6
125	Galb1-2Galb-Sp8	5	8
328	Neu5,9Ac2a2-3Galb1-4GlcNAcb-Sp0	5	7
51	Mana1-6(Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp13	5	13

35	(3S)Galb1-4(6S)GlcNAcb-Sp8	5	2
436	Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-4)(Galb1-4GlcNAcb1-4(Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21	5	2
157	Galb1-4GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb-Sp8	4	3
410	Galb1-4GlcNAcb1-6(Neu5Aca2-6Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp21	4	1
399	Neu5Aca2-3Galb1-3GlcNAcb1-3GalNAca-Sp14	4	7
338	GlcNAca1-4Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	4	2
458	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19	4	3
155	Galb1-4(6S)Glc-Sp0	4	6
359	KDNa2-3Galb1-3GalNAca-Sp14	4	5
535	GlcNAcb1-3Galb1-4GlcNAcb1-6(GlcNAcb1-3)Galb1-4GlcNAc-Sp0	4	7
216	Mana1-6(Mana1-3)Mana1-6(Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	4	4
230	Neu5Aca2-3(6S)Galb1-4(Fuca1-3)GlcNAcb-Sp8	4	5
498	Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-6GalNAca-Sp14	4	6
2	Glca-Sp8	4	5
303	GlcNAcb1-6(Galb1-4GlcNAcb1-3)Galb1-4GlcNAc-Sp0	3	11
341	GlcNAca1-4Galb1-4GlcNAcb1-3Galb1-4Glc-Sp0	3	2
186	GlcNAcb1-4-MDPLys	3	5
115	Gala1-3Galb1-4GlcNAcb-Sp8	3	3
245	Neu5Aca2-3Galb-Sp8	3	3
363	Gala1-3Galb1-4GlcNAcb1-2Mana1-6(Gala1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20	3	3
14	Manb-Sp8	3	6
317	Neu5Aca2-3Galb1-4GlcNAcb1-6(Neu5Aca2-3Galb1-3)GalNAca-Sp14	3	2
388	GlcNAcb1-2Mana1-6(GlcNAcb1-4(GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21	3	4
128	Galb1-3(Fuca1-4)GlcNAc-Sp0	3	1
534	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb1-2Mana-Sp0	3	2
161	Galb1-4GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	3	4
460	Neu5Aca2-3Galb1-4GlcNAcb1-4Mana1-6(GlcNAcb1-4)(Neu5Aca2-3Galb1-4GlcNAcb1-4(Neu5Aca2-3Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	3	2
150	Galb1-3GlcNAcb-Sp8	3	6
412	Neu5Aca2-3Galb1-3GalNAcb1-4(Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp0	3	7
557	Neu5Aca2-8Neu5Aca2-3Galb1-4GlcNAc-Sp0	2	8
50	Mana1-6(Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	2	4
555	Neu5Gca2-8Neu5Gca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAc-Sp0	2	11
333	Gala1-4Galb1-4GlcNAcb1-3Galb1-4Glc-Sp0	2	8
223	Neu5Aca2-3Galb1-3GalNAca-Sp8	2	5
184	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	2	2
315	Mana1-2Mana1-6(Mana1-3)Mana1-6(Mana1-2Mana1-2Mana1-3)Mana-Sp9	2	7
422	Fuca1-2Galb1-3GlcNAcb1-3GalNAc-Sp14	1	6
75	Fuca1-2Galb1-4GlcNAcb-Sp0	1	2
294	Neu5Aca2-3Galb1-3GlcNAcb1-3Galb1-3GlcNAcb-Sp0	1	4
497	Fuca1-2(6S)Galb1-3GlcNAcb-Sp0	1	1
198	Glc1-4Glc-Sp8	0	6
518	(6P)Galb1-4GlcNAcb-Sp0	0	4
316	Mana1-2Mana1-6(Mana1-2Mana1-3)Mana1-6(Mana1-2Mana1-2Mana1-3)Mana-Sp9	-1	2
100	Gala1-2Galb-Sp8	-1	4
340	GlcNAca1-4Galb1-3GlcNAcb-Sp0	-1	3
17	GlcNAcb-Sp8	-1	2
521	Gala1-3Galb1-4GlcNAcb1-2Mana-Sp0	-1	10
65	Fuca1-2Galb1-3GlcNAcb1-3Galb1-4Glc-Sp8	-2	8
191	GlcNAcb1-4GlcNAcb1-4GlcNAcb-Sp8	-2	6

445	Fuca1-2Galb1-4 GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4GlcNAcb1-2(Fuca1-2Galb1-4GlcNAcb1-4)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	-2	8
273	Neu5Aca2-6Galb1-4Glc-Sp8	-2	6
41	(6P)Mana-Sp8	-3	6
553	Neu5Aca2-8Neu5Gca2-3Galb1-4GlcNAc-Sp0	-4	6
339	GlcNAca1-4Galb1-4GlcNAcb-Sp0	-6	13
138	Neu5Aca2-6(Galb1-3)GlcNAcb1-4Galb1-4Glc-Sp10	-6	2
604	GlcNAcb1-6(Neu5Aca2-3Galb1-3)GalNAca-Sp14	-7	16
19	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3)GalNAca-Sp8	-7	10
532	Galb1-4GlcNAcb1-2 Mana1-6(Galb1-4GlcNAcb1-4)(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAc-Sp21	-7	3
204	GlcAb1-6Galb-Sp8	-7	15
197	GlcA1-6GlcA1-6Glc-Sp8	-8	25
439	Galb1-4Galb-Sp10	-8	5
183	GlcNAcb1-3Galb1-4GlcNAcb-Sp8	-11	10
146	Galb1-3Galb-Sp8	-12	5
221	Fuca1-2Galb1-4(6S)GlcNAcb-Sp8	-12	32
438	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(Galb1-4GlcNAcb1-4(Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21	-16	3
471	Neu5Aca2-3Galb1-4GlcNAcb1-6(Neu5Aca2-3Galb1-4GlcNAcb1-3)GalNAca-Sp14	-16	8
599	Galb1-4GlcNAcb1-3Galb1-3GalNAca-Sp14	-17	14
264	Neu5Aca2-3Galb1-4Glc-Sp8	-21	47
147	Galb1-3GlcNAcb1-3Galb1-4GlcNAcb-Sp0	-29	8
593	GlcNAcb1-3Galb1-4GlcNAcb1-3GalNAca-Sp14	-31	39
531	Galb1-4GlcNAcb1-2 Mana1-6(GlcNAcb1-4)(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAc-Sp21	-32	41
520	Neu5Aca2-6Galb1-4GlcNAcb1-2Man-Sp0	-38	6
589	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3GalNAca-Sp14	-38	39
603	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	-42	31
595	GlcNAcb1-3Galb1-4GlcNAcb1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3)GalNAca-Sp14	-43	49
444	(6S)Galb1-3(6S)GlcNAc-Sp0	-44	32
441	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb-Sp8	-46	20
346	Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp12	-48	23
54	Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	-61	92
596	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3)GalNAca-Sp14	-68	24
597	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3GalNAca-Sp14	-107	14
31	(3S)Galb1-3GlcNAcb-Sp8	-160	53
103	Gala1-3(Fuca1-2)Galb1-4(Fuca1-3)GlcNAcb-Sp0	-193	109
182	GlcNAcb1-3Galb1-4GlcNAcb-Sp0	-220	70
464	Neu5Aca2-6Galb1-4GlcNAcb1-4Mana1-6(GlcNAcb1-4)(Neu5Aca2-6Galb1-4GlcNAcb1-4(Neu5Aca2-6Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	-276	318
21	GlcNAcb1-6(GlcNAcb1-4)(GlcNAcb1-3)GlcNAc-Sp8	-857	341
466	Neu5Aca2-6Galb1-4GlcNAcb1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(Neu5Aca2-6Galb1-4GlcNAcb1-4(Neu5Aca2-6Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	-1758	92

Supplemental Table 2. Bacterial O-specific polysaccharides on pathogen glycan array from the Consortium for Functional Glycomics

ID numbers correspond to entries in the Bacterial Carbohydrate Structure DataBase (www.glyco.ac.ru/bcsdb3).

Array	Bacterial strain	ID	Polysaccharide structure
1	<i>Escherichia coli</i> O29	20208	a-D-Glcp- (1-6) -a-D-Galp- (1-3) -+ -3) -D-Gro- (1-P-6) -b-D-Glcp- (1-4) -a-L-FucpNAc- (1-3) -b-D-GlcpNAc- (1-
2	<i>Escherichia coli</i> O40	21403 23075	-2) -b-D-Galp- (1-4) -b-D-Manp- (1-4) -a-D-Galp- (1-3) -b-D-GlcpNAc- (1-
3	<i>Escherichia coli</i> O106	20655 21694	a-D-Glcp- (1-4) -+ -6) -a-D-Manp- (1-2) -a-D-Manp- (1-2) -b-D-Manp- (1-3) -a-D-GlcpNAc- (1-
4	<i>Escherichia coli</i> O130	21749	Gro- (2-P-4) -b-D-GalpNAc- (1-3) -+ -4) -a-D-Galp- (1-6) -b-D-Glcp- (1-3) -b-D-GalpNAc- (1-
5	<i>Escherichia coli</i> O148	21578 23062	-3) -a-L-Rhap- (1-3) -a-L-Rhap- (1-2) -a-D-Glcp- (1-3) -a-D-GlcpNAc- (1-
6	<i>Escherichia coli</i> O150:H6	23079 21743	S-lac- (2-4) -+ -3) -b-D-GlcpNAc- (1-2) -a-L-Rhap- (1-2) -a-L-Rhap- (1-3) -a-L-Rhap- (1-3) -b-D-GlcpNAc- (1- b-D-Glcp- (1-2) -+
7	<i>Escherichia coli</i> O180/C3	10174	2) -b-D-Quip3NAc- (1-3) -b-D-Ribf- (1-4) -b-D-Galp- (1-3) -a-D-GalpNAc- (1-
8	<i>Proteus mirabilis</i> 3a, O3c	4700	L-Lys- (2-6) -a-D-GalpA- (1-4) -+ -6) -b-D-GalpNAc- (1-4) -b-D-GlcpA- (1-3) -b-D-GalpNAc- (1-
9	<i>Proteus mirabilis</i> O8 <i>Proteus vulgaris</i> O8	4030	a-D-Galp- (1-3) -+ -3) -b-D-GlcpA- (1-4) -a-L-FucpNAc- (1-3) -a-D-GlcpNAc- (1-

10	<i>Proteus mirabilis</i> O10	4664	a-L-AltpA- (1-3) ++ -4) -a-D-GalpNAC- (1-3) -a-D-GalpA- (1-3) -a-D-GlcpNAC- (1-
11	<i>Proteus mirabilis</i> O29a,29b	10129	a-D-GalpNAC- (1-3) ++ a-D-Glcp- (1-2) ++ -6) -b-D-GalpNAC- (1-4) -b-D-GlcpA- (1-3) -b-D-GalpNAC- (1-
12	<i>Proteus mirabilis</i> O50	2850	b-D-Glcp- (1-4) ++ -3) -b-D-GlcpA- (1-4) -b-D-GalpNAC- (1-4) -b-D-Galp- (1-3) -b-D-GlcpNAC- (1-
13	<i>Proteus mirabilis</i> O54a, 54b	20237	D-Gro- (1-P-4) ++ -6) -a-D-GlcpNAC- (1-3) -b-D-Galp- (1-3) -a-D-GalpNAC- (1-
14	<i>Providencia alcalifaciens</i> O5	5945	-4) -b-D-Quip3NAC- (1-3) -a-D-Galp- (1-3) -b-D-Galp- (1-3) -b-D-GlcpNAC- (1-
15	<i>Providencia alcalifaciens</i> O19	9276	-2) -b-D-Fucp3NAC4Ac- (1-3) -a-D-GlcpNAC- (1-4) -a-D-Galp- (1-4) -b-D-Galp- (1-3) -b-D-GlcpNAC- (1-
16	<i>Providencia alcalifaciens</i> O21	2840	a-D-Fucp3NFo- (1-4) ++ -3) -a-D-GalpA- (1-4) -a-D-GalpNAC- (1-4) -a-D-GalpNAC- (1-3) -b-D-GalpNAC- (1-
17	<i>Providencia rustigianni</i> O14	2841	(2S, 8S) -cetLys- (2-6) ++ -3) -a-D-GalpA- (1-4) -a-D-GalpNAC- (1-3) -a-D-GlcpNAC- (1-
18	<i>Providencia stuartii</i> O18	10467	-4) -b-D-Quip3NAC- (1-6) -a-D-GlcpNAC- (1-4) -b-D-GlcpA- (1-3) -a-D-GalpNAC- (1-
19	<i>Providencia stuartii</i> O44	10079	b-D-GlcpA- (1-4) ++ -4) -a-D-GalpNAC- (1-3) -a-L-Fucp- (1-3) -a-D-Glcp- (1-4) -a-L-Quip- (1-3) -a-D-GlcpNAC- (1-
20	<i>Pseudomonas aeruginosa</i> O1 (IATS 1, FI4)	20553	-4) -a-D-GalpNAC- (1-4) -b-D-GlcpNAC3NAC- (1-3) -a-D-FucpNAC- (1-3) -a-D-QuipNAC- (1-

21	<i>Pseudomonas aeruginosa</i> O2 (IATS 18, FI7)	20560	-4) -a-L-GulpNAc3NAmA- (1-4) -b-D-ManpNAc3NAcA- (1-3) -a-D-FucpNAc- (1-
22	<i>Pseudomonas aeruginosa</i> O2a,2b (IATS 16)	20554	-4) -b-D-ManpNAc3NAmA- (1-4) -b-D-ManpNAc3NAcA- (1-3) -b-D-FucpNAc- (1-
23	<i>Pseudomonas aeruginosa</i> O2a,2b,2e	20555	-4) -b-D-ManpNAc3NAmA- (1-4) -b-D-ManpNAc3NAcA- (1-3) -b-D-FucpNAc4Ac- (1-
24	<i>Pseudomonas aeruginosa</i> O2a,(2c) (IATS 2, FI3)	20556	-4) -b-D-ManpNAc3NAmA- (1-4) -b-L-GulpNAc3NAcA- (1-3) -a-D-FucpNAc- (1-
25	<i>Pseudomonas aeruginosa</i> O2a,2d	20557	-4) -b-D-ManpNAc3NAmA- (1-4) -b-D-ManpNAc3NAcA- (1-3) -a-D-FucpNAc- (1-
26	<i>Pseudomonas aeruginosa</i> O3a,3b	20561	(S) -3HOBu- (1-4) -+ -2) -a-L-Rhap3Ac- (1-6) -a-D-GlcpNAc- (1-4) -a-L-GalpNAcA- (1-3) -b-D-QuipNAc4N- (1-
27	<i>Pseudomonas aeruginosa</i> O3a,3b,3c (IATS 3)	122939	(S) -3HOBu- (1-4) -+ -2) -a-L-Rhap3Ac- (1-6) -a-D-GlcpNAc- (1-4) -a-L-GalpNAcA3Ac- (1-3) -b-D-QuipNAc4N- (1-
28	<i>Pseudomonas aeruginosa</i> O3a,3d	20563	-3) -a-L-Rhap- (1-6) -a-D-GlcpNAc- (1-4) -a-L-GalpNAcA- (1-3) -b-D-QuipNAc4NAc- (1-
29	<i>Pseudomonas aeruginosa</i> O4a,4c	20565	-2) -a-L-Rhap- (1-3) -a-L-FucpNAc- (1-3) -a-L-FucpNAc- (1-3) -a-D-FucpNAc- (1-
30	<i>Pseudomonas aeruginosa</i> O6 (FI1)	20570	-2) -a-L-Rhap- (1-4) -a-D-GalpNAcA3Ac- (1-4) -a-D-GalpNFoA- (1-3) -a-D-QuipNAc- (1-
31	<i>Pseudomonas aeruginosa</i> O6a (IATS 6)	20566	-3) -a-L-Rhap- (1-4) -a-D-GalpNAcA3Ac- (1-4) -a-D-GalpNFoA- (1-3) -a-D-QuipNAc- (1-
32	<i>Pseudomonas aeruginosa</i> O6a,6c	20568	-3) -a-L-Rhap- (1-4) -a-D-GalpNAcA- (1-4) -a-D-GalpNFoA- (1-3) -a-D-QuipNAc- (1-
33	<i>Pseudomonas aeruginosa</i> O13a,13b (IATS 13)	123031	-2) -a-L-Rhap- (1-3) -a-L-Rhap- (1-4) -a-D-GalpNAcA3Ac- (1-3) -b-D-QuipNAc- (1-

34	<i>Pseudomonas aeruginosa</i> O10a,10b (IATS 10)	20576	-3) -a-L-Rhap2Ac- (1-4) -a-L-GalpNAcA- (1-3) -a-D-QuipNAc- (1-
35	<i>Pseudomonas aeruginosa</i> O10a,10c (IATS 19)	20577	-3) -a-L-Rhap- (1-4) -a-L-GalpNAcA- (1-3) -a-D-QuipNAc- (1-
36	<i>Pseudomonas aeruginosa</i> O11a,11b (IATS 11)	20578	-2) -b-L-Glcp- (1-3) -a-L-FucpNAc- (1-3) -b-D-FucpNAc- (1-
37	<i>Pseudomonas aeruginosa</i> O12 (IATS 12)	20579	-8) -a-8eLegp5Ac7Ac- (2-3) -a-L-FucpNAc- (1-3) -a-D-QuipNAc- (1-
38	<i>Pseudomonas aeruginosa</i> O13a,13b (IATS 13)	20580	-2) -a-L-Rhap- (1-3) -a-L-Rhap- (1-4) -a-D-GalpNAc3AcA- (1-3) -b-D-QuipNAc- (1-
39	<i>Pseudomonas aeruginosa</i> O13a,13c (IATS 14)	20581	a-D-Glcp- (1-3) ++ -2) -a-L-Rhap- (1-3) -a-L-Rhap- (1-4) -a-D-GalpNAcA- (1-3) -b-D-QuipNAc- (1-
40	<i>Pseudomonas aeruginosa</i> O14 (IATS 17)	20582	-4) -a-L-Rhap- (1-3) -b-D-ManpNAc- (1-
41	<i>Pseudomonas aeruginosa</i> O15 (IATS 15)	20583	-2) -b-D-Ribf- (1-3) -a-D-GalpNAc- (1-
42	<i>Shigella boydii</i> type 2	114007	b-D-Galf- (1-3) ++ -2) -a-L-Rhap- (1-2) -a-L-Rhap- (1-2) -b-D-Ribf- (1-4) -a-D-GalpA- (1-3) -a-D-GlcpNAc- (1-
43	<i>Shigella boydii</i> type 4	108649	a-D-Glcp- (1-2) ++ -3) -a-L-Rhap- (1-4) -b-D-GlcpA- (1-3) -b-L-Rhap- (1-4) -b-D-GlcpNAc- (1-
44	<i>Shigella boydii</i> type 10	10148	b-D-Ribf- (1-4) -b-D-GlcpA- (1-4) ++ -3) -a-D-Galp- (1-6) -a-D-Manp- (1-2) -a-D-Manp- (1-3) -b-D-GalpNAc- (1-

45	<i>Shigella dysenteriae</i> type 3	20016	(R) -lac- (2-4) -b-D-Glcp- (1-6) -a-D-Glcp- (1-4) -+ -3) -b-D-Galp- (1-6) -b-D-Galf- (1-3) -b-D-GalpNac- (1-
46	<i>Shigella dysenteriae</i> type 8	108662	b-D-GlcpNac- (1-4) -b-D-Glcp- (1-4) -+ -4) -b-D-GlcpA- (1-3) -b-D-GalpNac- (1-3) -b-D-GalpNac- (1-
47	<i>Shigella dysenteriae</i> type 11	23077	a-D-Glcp- (1-6) -a-D-Galp- (2-Ac ~25%) - (1-3) -+ -3) -D-Gro- (3-P-6) -b-D-Glcp- (1-4) -a-L-FucpNac- (1-3) -b-D-GlcpNac- (1-
48	<i>Shigella dysenteriae</i> type 13	23079	(S) -lac- (2-4) -+ -3) -b-D-GlcpNac- (1-2) -a-L-Rhap- (1-3) -a-L-Rhap- (1-3) -b-D-GlcpNac- (1- b-D-Glcp- (1-2) -+

Abbreviations: Am, acetimidoyl; cetLys, N^ε-(1-carboxyethyl)lysine; Fo, formyl; lac, 1-carboxyethyl (a lactic acid residue); 3-HOBut, 3-hydroxybutanoyl; 8eLeg, 5,7-diamino-3,5,7,9-tetradexy-L-glycero-D-manno-non-2-ulosonic (8-epilegionaminic) acid.

Supplemental Figure 1. Comparison of the sequences of the CRDs from human MGL (black) and rat mannose-binding protein (red), with residues inserted (blue) to create mutant QPDWG-HDRPY (Iobst and Drickamer, 2006). Residues identical to MGL in the region of the CRD containing the binding site are indicated with asterisks. Overall sequence identity is 34% and identity in the binding site region is 70%.

CPVNWVEHQDSCYWFSHSGMSWAEAEKYCQLKNAHLVVINSREEQNFVQKYLGSAYTWMGLSD
AFSMGKKSGKKFFVTNHERMPFSKVKALCSELRGTVAIIPRNAEENKAIQE-VAKTSAFLGITD

--PEGAWKWVDGTDYATGFQNWKPGQPDDWQGHGLGGGEDCAHFHPDGRWNDDVCQRPYHWVCE
EVTEGQFMYV--TGGRLTYSNWKKDQPDWYGHGLGGGEDCVHIVDNGLWNDSCQRPYTAVCE
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