

**Table S3.** Raw data of glycan array analysis performed with CCL1. RFU = Relative Fluorescence Units; SD = Standard deviation

No.	Glycan structure – spacer*	RFU	SD
1	Gal $\alpha$ -Sp8	99	19
2	Glc $\alpha$ -Sp8	138	49
3	Man $\alpha$ -Sp8	136	68
4	GalNAc $\alpha$ -Sp8	41	11
5	GalNAc $\alpha$ -Sp15	148	57
6	Fuc $\alpha$ -Sp8	26	22
7	Fuc $\alpha$ -Sp9	-10	20
8	Rha $\alpha$ -Sp8	46	35
9	Neu5Ac $\alpha$ -Sp8	113	60
10	Neu5Ac $\alpha$ -Sp11	247	80
11	Neu5Ac $\beta$ -Sp8	98	35
12	Gal $\beta$ -Sp8	68	20
13	Glc $\beta$ -Sp8	25	8
14	Man $\beta$ -Sp8	7	6
15	GalNAc $\beta$ -Sp8	15	17
16	GlcNAc $\beta$ -Sp0	6	5
17	GlcNAc $\beta$ -Sp8	4	14
18	GlcN(Gc) $\beta$ -Sp8	32	10
19	Gal $\beta$ 1-4GlcNAc $\beta$ 1-3(Gal $\beta$ 1-4GlcNAc $\beta$ 1-6)GalNAc $\alpha$ -Sp8	24	17
20	GlcNAc $\beta$ 1-3(GlcNAc $\beta$ 1-4)(GlcNAc $\beta$ 1-6)GlcNAc-Sp8	264	91
21	[3OSO3][6OSO3]Gal $\beta$ 1-4[6OSO3]GlcNAc $\beta$ -Sp0	3	7
22	[3OSO3][6OSO3]Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	25	2
23	[3OSO3]Gal $\beta$ 1-4(Fuc $\alpha$ 1-3)[6OSO3]Glc-Sp0	250	14
24	[3OSO3]Gal $\beta$ 1-4Glc $\beta$ -Sp8	29	10
25	[3OSO3]Gal $\beta$ 1-4[6OSO3]Glc $\beta$ -Sp0	329	38
26	[3OSO3]Gal $\beta$ 1-4[6OSO3]Glc $\beta$ -Sp8	228	73
27	[3OSO3]Gal $\beta$ 1-3(Fuc $\alpha$ 1-4)GlcNAc $\beta$ -Sp8	89	14
28	[3OSO3]Gal $\beta$ 1-3GalNAc $\alpha$ -Sp8	118	11
29	[3OSO3]Gal $\beta$ 1-3GlcNAc $\beta$ -Sp0	93	12
30	[3OSO3]Gal $\beta$ 1-3GlcNAc $\beta$ -Sp8	173	83
31	[3OSO3]Gal $\beta$ 1-4(Fuc $\alpha$ 1-3)GlcNAc-Sp0	383	119
32	[3OSO3]Gal $\beta$ 1-4(Fuc $\alpha$ 1-3)GlcNAc $\beta$ -Sp8	407	76
33	[3OSO3]Gal $\beta$ 1-4[6OSO3]GlcNAc $\beta$ -Sp0	293	85
34	[3OSO3]Gal $\beta$ 1-4[6OSO3]GlcNAc $\beta$ -Sp8	333	120
35	[3OSO3]Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	141	21
36	[3OSO3]Gal $\beta$ 1-4GlcNAc $\beta$ -Sp8	110	21
37	[3OSO3]Gal $\beta$ -Sp8	42	10
38	[4OSO3][6OSO3]Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	5	4
39	[4OSO3]Gal $\beta$ 1-4GlcNAc $\beta$ -Sp8	17	9
40	6-H2PO3Man $\alpha$ -Sp8	3	2
41	[6OSO3]Gal $\beta$ 1-4Glc $\beta$ -Sp0	23	6
42	[6OSO3]Gal $\beta$ 1-4Glc $\beta$ -Sp8	9	3
43	[6OSO3]Gal $\beta$ 1-4GlcNAc $\beta$ -Sp8	27	8
44	[6OSO3]Gal $\beta$ 1-4[6OSO3]Glc $\beta$ -Sp8	20	8
45	Neu5Ac $\alpha$ 2-3[6OSO3]Gal $\beta$ 1-4GlcNAc $\beta$ -Sp8	3479	693
46	[6OSO3]GlcNAc $\beta$ -Sp8	14	10
47	[9NAc]Neu5Ac $\alpha$ -Sp8	27	4
48	[9NAc]Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc $\beta$ -Sp8	6	2
49	Man $\alpha$ 1-3(Man $\alpha$ 1-6)Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc $\beta$ -Sp12	84	18
50	Man $\alpha$ 1-3(Man $\alpha$ 1-6)Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc $\beta$ -Sp13	116	57
51	GlcNAc $\beta$ 1-2Man $\alpha$ 1-3(GlcNAc $\beta$ 1-2Man $\alpha$ 1-6)Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc $\beta$ -Sp12	90	9

52	GlcNAcβ1-2Manα1-3(GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp13	68	14
53	Galβ1-4GlcNAcβ1-2Manα1-3(Galβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp12	121	19
54	Neu5Acα2-6Galβ1-4GlcNAcβ1-2Manα1-3(Neu5Acα2-6Galβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-N(LT)AVL	78	21
55	Neu5Acα2-6Galβ1-4GlcNAcβ1-2Manα1-3(Neu5Acα2-6Galβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp12	122	23
56	Neu5Acα2-6Galβ1-4GlcNAcβ1-2Manα1-3(Neu5Acα2-6Galβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp13	86	19
57	Fuca1-2Galβ1-3GalNAcβ1-3Galα-Sp9	129	29
58	Fuca1-2Galβ1-3GalNAcβ1-3Galα1-4Galβ1-4Glcβ-Sp9	76	16
59	Fuca1-2Galβ1-3(Fuca1-4)GlcNAcβ-Sp8	80	32
60	Fuca1-2Galβ1-3GalNAcα-Sp8	70	35
61	Fuca1-2Galβ1-3GalNAcα-Sp14	25	10
62	Fuca1-2Galβ1-3GalNAcβ1-4(Neu5Acα2-3)Galβ1-4Glcβ-Sp0	5	4
63	Fuca1-2Galβ1-3GalNAcβ1-4(Neu5Acα2-3)Galβ1-4Glcβ-Sp9	20	10
64	Fuca1-2Galβ1-3GlcNAcβ1-3Galβ1-4Glcβ-Sp8	1	5
65	Fuca1-2Galβ1-3GlcNAcβ1-3Galβ1-4Glcβ-Sp10	20	6
66	Fuca1-2Galβ1-3GlcNAcβ-Sp0	3	1
67	Fuca1-2Galβ1-3GlcNAcβ-Sp8	18	5
68	Fuca1-2Galβ1-4(Fuca1-3)GlcNAcβ1-3Galβ1-4(Fuca1-3)GlcNAcβ-Sp0	54	21
69	Fuca1-2Galβ1-4(Fuca1-3)GlcNAcβ1-3Galβ1-4(Fuca1-3)GlcNAcβ1-3Galβ1-4(Fuca1-3)GlcNAcβ-Sp0	1835	352
70	Fuca1-2Galβ1-4(Fuca1-3)GlcNAcβ-Sp0	10	6
71	Fuca1-2Galβ1-4(Fuca1-3)GlcNAcβ-Sp8	29	16
72	Fuca1-2Galβ1-4GlcNAcβ1-3Galβ1-4GlcNAcβ-Sp0	15	13
73	Fuca1-2Galβ1-4GlcNAcβ1-3Galβ1-4GlcNAcβ1-3Galβ1-4GlcNAcβ-Sp0	61	16
74	Fuca1-2Galβ1-4GlcNAcβ-Sp0	52	8
75	Fuca1-2Galβ1-4GlcNAcβ-Sp8	45	16
76	Fuca1-2Galβ1-4Glcβ-Sp0	47	21
77	Fuca1-2Galβ-Sp8	12	37
78	Fuca1-3GlcNAcβ-Sp8	30	13
79	Fuca1-4GlcNAcβ-Sp8	62	19
80	Fucβ1-3GlcNAcβ-Sp8	54	17
81	GalNAcα1-3(Fuca1-2)Galβ1-3GlcNAcβ-Sp0	100	28
82	GalNAcα1-3(Fuca1-2)Galβ1-4(Fuca1-3)GlcNAcβ-Sp0	75	16
83	[3OSO3]Galβ1-4(Fuca1-3)Glc-Sp0	140	99
84	GalNAcα1-3(Fuca1-2)Galβ1-4GlcNAcβ-Sp0	82	17
85	GalNAcα1-3(Fuca1-2)Galβ1-4GlcNAcβ-Sp8	25	8
86	GalNAcα1-3(Fuca1-2)Galβ1-4Glcβ-Sp0	2	3
87	GlcNAcβ1-3Galβ1-3GalNAcα-Sp8	11	10
88	GalNAcα1-3(Fuca1-2)Galβ-Sp8	7	6
89	GalNAcα1-3(Fuca1-2)Galβ-Sp18	19	9
90	GalNAcα1-3GalNAcβ-Sp8	7	7
91	GalNAcα1-3Galβ-Sp8	8	5
92	GalNAcα1-4(Fuca1-2)Galβ1-4GlcNAcβ-Sp8	13	5
93	GalNAcβ1-3GalNAcα-Sp8	14	10
94	GalNAcβ1-3(Fuca1-2)Galβ-Sp8	8	7
95	GalNAcβ1-3Galα1-4Galβ1-4GlcNAcβ-Sp0	18	8
96	GalNAcβ1-4(Fuca1-3)GlcNAcβ-Sp0	7887	646
97	GalNAcβ1-4GlcNAcβ-Sp0	-11	43
98	GalNAcβ1-4GlcNAcβ-Sp8	3	27
99	Galα1-2Galβ-Sp8	71	24
100	Galα1-3(Fuca1-2)Galβ1-3GlcNAcβ-Sp0	61	20
101	Galα1-3(Fuca1-2)Galβ1-3GlcNAcβ-Sp8	31	14
102	Galα1-3(Fuca1-2)Galβ1-4(Fuca1-3)GlcNAcβ-Sp0	46	11
103	Galα1-3(Fuca1-2)Galβ1-4(Fuca1-3)GlcNAcβ-Sp8	35	22
104	Galα1-3(Fuca1-2)Galβ1-4GlcNAc-Sp0	41	13

105	Gal $\alpha$ 1-3(Fuca $\alpha$ 1-2)Gal $\beta$ 1-4Glc $\beta$ -Sp0	79	22
106	Gal $\alpha$ 1-3(Fuca $\alpha$ 1-2)Gal $\beta$ -Sp8	63	9
107	Gal $\alpha$ 1-3(Fuca $\alpha$ 1-2)Gal $\beta$ -Sp18	40	46
108	Gal $\alpha$ 1-3(Gal $\alpha$ 1-4)Gal $\beta$ 1-4GlcNAc $\beta$ -Sp8	57	17
109	Gal $\alpha$ 1-3GalNAc $\alpha$ -Sp8	-7	14
110	Gal $\alpha$ 1-3GalNAc $\alpha$ -Sp16	9	6
111	Gal $\alpha$ 1-3GalNAc $\beta$ -Sp8	55	17
112	Gal $\alpha$ 1-3Gal $\beta$ 1-4(Fuca $\alpha$ 1-3)GlcNAc $\beta$ -Sp8	4988	428
113	Gal $\alpha$ 1-3Gal $\beta$ 1-3GlcNAc $\beta$ -Sp0	63	15
114	Gal $\alpha$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ -Sp8	8	2
115	Gal $\alpha$ 1-3Gal $\beta$ 1-4Glc $\beta$ -Sp0	42	17
116	Gal $\alpha$ 1-3Gal $\beta$ -Sp8	2	2
117	Gal $\alpha$ 1-4(Fuca $\alpha$ 1-2)Gal $\beta$ 1-4GlcNAc $\beta$ -Sp8	4	6
118	Gal $\alpha$ 1-4Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	5	7
119	Gal $\alpha$ 1-4Gal $\beta$ 1-4GlcNAc $\beta$ -Sp8	1	5
120	Gal $\alpha$ 1-4Gal $\beta$ 1-4Glc $\beta$ -Sp0	15	4
121	Gal $\alpha$ 1-4GlcNAc $\beta$ -Sp8	15	10
122	Gal $\alpha$ 1-6Glc $\beta$ -Sp8	104	34
123	Gal $\beta$ 1-2Gal $\beta$ -Sp8	117	54
124	Gal $\beta$ 1-3(Fuca $\alpha$ 1-4)GlcNAc $\beta$ 1-3Gal $\beta$ 1-4(Fuca $\alpha$ 1-3)GlcNAc $\beta$ -Sp0	562	385
125	Gal $\beta$ 1-3(Fuca $\alpha$ 1-4)GlcNAc $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	6589	666
126	Gal $\beta$ 1-3(Fuca $\alpha$ 1-4)GlcNAc $\beta$ -Sp0	311	95
127	Gal $\beta$ 1-3(Fuca $\alpha$ 1-4)GlcNAc $\beta$ -Sp8	-2	6
128	Gal $\beta$ 1-3(Fuca $\alpha$ 1-4)GlcNAc-Sp8	8	2
129	Gal $\beta$ 1-4GlcNAc $\beta$ 1-6GalNAc $\alpha$ -Sp8	20	7
130	Gal $\beta$ 1-3(GlcNAc $\beta$ 1-6)GalNAc $\alpha$ -Sp8	31	11
131	Gal $\beta$ 1-3(GlcNAc $\beta$ 1-6)GalNAc-Sp14	87	15
132	Gal $\beta$ 1-3(Neu5Ac $\alpha$ 2-6)GalNAc $\alpha$ -Sp8	55	11
133	Gal $\beta$ 1-3(Neu5Ac $\alpha$ 2-6)GalNAc $\alpha$ -Sp14	81	21
134	Gal $\beta$ 1-3(Neu5Ac $\beta$ 2-6)GalNAc $\alpha$ -Sp8	11	3
135	Gal $\beta$ 1-3(Neu5Ac $\alpha$ 2-6)GlcNAc $\beta$ 1-4Gal $\beta$ 1-4Glc $\beta$ -Sp10	43	14
136	Gal $\beta$ 1-3GalNAc $\alpha$ -Sp8	28	18
137	Gal $\beta$ 1-3GalNAc $\alpha$ -Sp14	17	13
138	Gal $\beta$ 1-3GalNAc $\alpha$ -Sp16	3	3
139	Gal $\beta$ 1-3GalNAc $\beta$ -Sp8	6	3
140	Gal $\beta$ 1-3GalNAc $\beta$ 1-3Gal $\alpha$ 1-4Gal $\beta$ 1-4Glc $\beta$ -Sp0	6	5
141	Gal $\beta$ 1-3GalNAc $\beta$ 1-4(Neu5Ac $\alpha$ 2-3)Gal $\beta$ 1-4Glc $\beta$ -Sp0	26	3
142	Gal $\beta$ 1-3GalNAc $\beta$ 1-4Gal $\beta$ 1-4Glc $\beta$ -Sp8	6	9
143	Gal $\beta$ 1-3Gal $\beta$ -Sp8	22	26
144	Gal $\beta$ 1-3GlcNAc $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	6	5
145	Gal $\beta$ 1-3GlcNAc $\beta$ 1-3Gal $\beta$ 1-4Glc $\beta$ -Sp10	171	75
146	Gal $\beta$ 1-3GlcNAc $\beta$ -Sp0	58	18
147	Gal $\beta$ 1-3GlcNAc $\beta$ -Sp8	46	54
148	Gal $\beta$ 1-4(Fuca $\alpha$ 1-3)GlcNAc $\beta$ -Sp0	3376	175
149	Gal $\beta$ 1-4(Fuca $\alpha$ 1-3)GlcNAc $\beta$ -Sp8	4569	467
150	Gal $\beta$ 1-4(Fuca $\alpha$ 1-3)GlcNAc $\beta$ 1-4Gal $\beta$ 1-4(Fuca $\alpha$ 1-3)GlcNAc $\beta$ -Sp0	4957	140
151	Gal $\beta$ 1-4(Fuca $\alpha$ 1-3)GlcNAc $\beta$ 1-4Gal $\beta$ 1-4(Fuca $\alpha$ 1-3)GlcNAc $\beta$ 1-4Gal $\beta$ 1-4(Fuca $\alpha$ 1-3)GlcNAc $\beta$ -Sp0	7933	1082
152	Gal $\beta$ 1-4[6OSO3]Glc $\beta$ -Sp0	81	6
153	Gal $\beta$ 1-4[6OSO3]Glc $\beta$ -Sp8	90	28
154	Gal $\beta$ 1-4GalNAc $\alpha$ 1-3(Fuca $\alpha$ 1-2)Gal $\beta$ 1-4GlcNAc $\beta$ -Sp8	51	23
155	Gal $\beta$ 1-4GalNAc $\beta$ 1-3(Fuca $\alpha$ 1-2)Gal $\beta$ 1-4GlcNAc $\beta$ -Sp8	39	3
156	Gal $\beta$ 1-4GlcNAc $\beta$ 1-3GalNAc $\alpha$ -Sp8	89	46
157	Gal $\beta$ 1-4GlcNAc $\beta$ 1-3GalNAc $\alpha$ -Sp14	22	11
158	Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4(Fuca $\alpha$ 1-3)GlcNAc $\beta$ 1-3Gal $\beta$ 1-4(Fuca $\alpha$ 1-3)GlcNAc $\beta$ -Sp0	4838	221
159	Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	21	10

160	Galβ1-4GlcNAcβ1-3Galβ1-4GlcNAcβ-Sp0	9	7
161	Galβ1-4GlcNAcβ1-3Galβ1-4Glcβ-Sp0	33	22
162	Galβ1-4GlcNAcβ1-3Galβ1-4Glcβ-Sp8	1	2
163	Galβ1-4GlcNAcβ1-6(Galβ1-3)GalNAcα-Sp8	19	6
164	Galβ1-3(Galβ1-4GlcNAcβ1-6)GalNAcα-Sp8	18	12
165	Galβ1-3(Galβ1-4GlcNAcβ1-6)GalNAc-Sp14	26	10
166	Galβ1-4GlcNAcβ-Sp0	5	5
167	Galβ1-4GlcNAcβ-Sp8	7	3
168	Galβ1-4Glcβ-Sp0	2	2
169	Galβ1-4Glcβ-Sp8	101	18
170	GlcNAcα1-3Galβ1-4GlcNAcβ-Sp8	55	37
171	GlcNAcα1-6Galβ1-4GlcNAcβ-Sp8	58	24
172	GlcNAcβ1-2Galβ1-3GalNAcα-Sp8	77	34
173	GlcNAcβ1-3(GlcNAcβ1-6)GalNAcα-Sp8	30	13
174	GlcNAcβ1-3(GlcNAcβ1-6)Galβ1-4GlcNAcβ-Sp8	17	4
175	GlcNAcβ1-3GalNAcα-Sp8	7	7
176	GlcNAcβ1-3GalNAcα-Sp14	31	16
177	GlcNAcβ1-3Galβ-Sp8	25	14
178	GlcNAcβ1-3Galβ1-4GlcNAcβ-Sp0	57	20
179	GlcNAcβ1-3Galβ1-4GlcNAcβ-Sp8	47	17
180	GlcNAcβ1-3Galβ1-4GlcNAcβ1-3Galβ1-4GlcNAcβ-Sp0	55	30
181	GlcNAcβ1-3Galβ1-4Glcβ-Sp0	6	5
182	GlcNAcβ1-4-MDPLys	18	23
183	GlcNAcβ1-4(GlcNAcβ1-6)GalNAcα-Sp8	13	9
184	GlcNAcβ1-4Galβ1-4GlcNAcβ-Sp8	15	4
185	GlcNAcβ1-4GlcNAcβ1-4GlcNAcβ1-4GlcNAcβ1-4GlcNAcβ1-4GlcNAcβ1-4β-Sp8	17	12
186	GlcNAcβ1-4GlcNAcβ1-4GlcNAcβ1-4GlcNAcβ1-4GlcNAcβ-Sp8	8	5
187	GlcNAcβ1-4GlcNAcβ1-4GlcNAcβ-Sp8	25	25
188	GlcNAcβ1-6(Galβ1-3)GalNAcα-Sp8	8	6
189	GlcNAcβ1-6GalNAcα-Sp8	7	4
190	GlcNAcβ1-6GalNAcα-Sp14	12	10
191	GlcNAcβ1-6Galβ1-4GlcNAcβ-Sp8	23	11
192	Glcα1-4Glcβ-Sp8	15	5
193	Glcα1-4Glcα-Sp8	111	18
194	Glcα1-6Glcα1-6Glcβ-Sp8	113	32
195	Glcβ1-4Glcβ-Sp8	145	48
196	Glcβ1-6Glcβ-Sp8	89	52
197	G-ol-Sp8	209	43
198	GlcAα-Sp8	101	15
199	GlcAβ-Sp8	317	62
200	GlcAβ1-3Galβ-Sp8	105	23
201	GlcAβ1-6Galβ-Sp8	104	28
202	KDNα2-3Galβ1-3GlcNAcβ-Sp0	53	21
203	KDNα2-3Galβ1-4GlcNAcβ-Sp0	69	32
204	Manα1-2Manα1-2Manα1-3Manα-Sp9	42	9
205	Manα1-2Manα1-3(Manα1-2Manα1-6)Manα-Sp9	36	6
206	Manα1-2Manα1-3Manα-Sp9	18	3
207	Manα1-6(Manα1-2Manα1-3)Manα1-6(Manα1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp12	64	7
208	Manα1-2Manα1-6(Manα1-3)Manα1-6(Manα1-2Manα1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp12	23	10
209	Manα1-2Manα1-2Manα1-3(Manα1-2Manα1-3(Manα1-2Manα1-6)Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp12	41	12
210	Manα1-3(Manα1-6)Manα-Sp9	8	1
211	Manα1-3(Manα1-2Manα1-2Manα1-6)Manα-Sp9	39	15
212	Manα1-6(Manα1-3)Manα1-6(Manα1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp12	18	8

213	Man $\alpha$ 1-6(Man $\alpha$ 1-3)Man $\alpha$ 1-6(Man $\alpha$ 1-3)Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc $\beta$ -Sp12	35	14
214	Man $\beta$ 1-4GlcNAc $\beta$ -Sp0	3	1
215	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4(Fuca1-3)GlcNAc-Sp0	60	17
216	[3OSO3]Gal $\beta$ 1-4(Fuca1-3)[6OSO3]GlcNAc-Sp8	209	55
217	Fuca1-2[6OSO3]Gal $\beta$ 1-4GlcNAc-Sp0	93	35
218	Fuca1-2Gal $\beta$ 1-4[6OSO3]GlcNAc-Sp8	106	22
219	Fuca1-2[6OSO3]Gal $\beta$ 1-4[6OSO3]Glc-Sp0	371	26
220	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-3GalNAc $\alpha$ -Sp8	48	3
221	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-3GalNAc $\alpha$ -Sp14	155	22
222	Neu5Ac $\alpha$ 2-8Neu5Ac $\alpha$ 2-8Neu5Ac $\alpha$ 2-3(GalNAc $\beta$ 1-4)Gal $\beta$ 1-4Glc $\beta$ -Sp0	116	7
223	Neu5Ac $\alpha$ 2-8Neu5Ac $\alpha$ 2-8Neu5Ac $\alpha$ 2-3(GalNAc $\beta$ 1-4)Gal $\beta$ 1-4Glc $\beta$ -Sp0	141	31
224	Neu5Ac $\alpha$ 2-8Neu5Ac $\alpha$ 2-8Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4Glc $\beta$ -Sp0	60	19
225	Neu5Ac $\alpha$ 2-8Neu5Ac $\alpha$ 2-3(GalNAc $\beta$ 1-4)Gal $\beta$ 1-4Glc $\beta$ -Sp0	94	11
226	Neu5Ac $\alpha$ 2-8Neu5Ac $\alpha$ 2-8Neu5Ac $\alpha$ -Sp8	80	17
227	Neu5Ac $\alpha$ 2-3(6-O-Su)Gal $\beta$ 1-4(Fuca1-3)GlcNAc $\beta$ -Sp8	7065	1203
228	Neu5Ac $\alpha$ 2-3(GalNAc $\beta$ 1-4)Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	52	7
229	Neu5Ac $\alpha$ 2-3(GalNAc $\beta$ 1-4)Gal $\beta$ 1-4GlcNAc $\beta$ -Sp8	35	7
230	Neu5Ac $\alpha$ 2-3(GalNAc $\beta$ 1-4)Gal $\beta$ 1-4Glc $\beta$ -Sp0	10	2
231	Neu5Ac $\alpha$ 2-3(Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-3GalNAc $\beta$ 1-4)Gal $\beta$ 1-4Glc $\beta$ -Sp0	43	10
232	Neu5Ac $\alpha$ 2-3(Neu5Ac $\alpha$ 2-6)GalNAc $\alpha$ -Sp8	13	6
233	Neu5Ac $\alpha$ 2-3GalNAc $\alpha$ -Sp8	15	21
234	Neu5Ac $\alpha$ 2-3GalNAc $\beta$ 1-4GlcNAc $\beta$ -Sp0	11	11
235	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-3[6OSO3]GlcNAc-Sp8	62	18
236	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-3(Fuca1-4)GlcNAc $\beta$ -Sp8	14	4
237	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-3(Fuca1-4)GlcNAc $\beta$ 1-3Gal $\beta$ 1-4(Fuca1-3)GlcNAc $\beta$ -Sp0	321	259
238	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-3(Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4)GlcNAc $\beta$ -Sp8	16	9
239	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-3[6OSO3]GalNAc $\alpha$ -Sp8	60	12
240	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-3(Neu5Ac $\alpha$ 2-6)GalNAc $\alpha$ -Sp8	3	2
241	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-3(Neu5Ac $\alpha$ 2-6)GalNAc $\alpha$ -Sp14	1025	90
242	Neu5Ac $\alpha$ 2-3Gal $\beta$ -Sp8	30	10
243	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-3GalNAc $\beta$ 1-3Gal $\alpha$ 1-4Gal $\beta$ 1-4Glc $\beta$ -Sp0	56	23
244	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-3GlcNAc $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	75	22
245	Fuca1-2[6OSO3]Gal $\beta$ 1-4Glc-Sp0	105	15
246	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-3GlcNAc $\beta$ -Sp0	79	17
247	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-3GlcNAc $\beta$ -Sp8	104	56
248	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4[6OSO3]GlcNAc $\beta$ -Sp8	176	64
249	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4(Fuca1-3)[6OSO3]GlcNAc $\beta$ -Sp8	5708	520
250	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4(Fuca1-3)GlcNAc $\beta$ 1-3Gal $\beta$ 1-4(Fuca1-3)GlcNAc $\beta$ 1-3Gal $\beta$ 1-4(Fuca1-3)GlcNAc $\beta$ -Sp0	6928	521
251	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4(Fuca1-3)GlcNAc $\beta$ -Sp0	5563	253
252	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4(Fuca1-3)GlcNAc $\beta$ -Sp8	5530	426
253	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4(Fuca1-3)GlcNAc $\beta$ 1-3Gal $\beta$ -Sp8	11685	250
254	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4(Fuca1-3)GlcNAc $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ -Sp8	4596	943
255	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	23	8
256	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	9	5
257	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4GlcNAc $\beta$ -Sp8	17	12
258	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	8	6
259	Fuca1-2Gal $\beta$ 1-4[6OSO3]Glc-Sp0	34	20
260	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4Glc $\beta$ -Sp0	8	8
261	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4Glc $\beta$ -Sp8	50	22
262	Neu5Ac $\alpha$ 2-6GalNAc $\alpha$ -Sp8	-1	5
263	Neu5Ac $\alpha$ 2-6GalNAc $\beta$ 1-4GlcNAc $\beta$ -Sp0	17	8
264	Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4[6OSO3]GlcNAc $\beta$ -Sp8	2	5
265	Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	65	11
266	Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc $\beta$ -Sp8	89	9

267	Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4(Fuca1-3)GlcNAc $\beta$ 1-3Gal $\beta$ 1-4(Fuca1-3)GlcNAc $\beta$ -Sp0	1606	409
268	Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	50	20
269	Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4Glc $\beta$ -Sp0	61	15
270	Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4Glc $\beta$ -Sp8	111	23
271	Neu5Ac $\alpha$ 2-6Gal $\beta$ -Sp8	73	8
272	Neu5Ac $\alpha$ 2-8Neu5Ac $\alpha$ -Sp8	86	5
273	Neu5Ac $\alpha$ 2-8Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4Glc $\beta$ -Sp0	65	11
274	Gal $\beta$ 1-3(Fuca1-4)GlcNAc $\beta$ 1-3Gal $\beta$ 1-3(Fuca1-4)GlcNAc $\beta$ -Sp0	71	18
275	Neu5Ac $\beta$ 2-6GalNAc $\alpha$ -Sp8	57	12
276	Neu5Ac $\beta$ 2-6Gal $\beta$ 1-4GlcNAc $\beta$ -Sp8	55	9
277	Neu5Gc $\alpha$ 2-3Gal $\beta$ 1-3(Fuca1-4)GlcNAc $\beta$ -Sp0	30	6
278	Neu5Gc $\alpha$ 2-3Gal $\beta$ 1-3GlcNAc $\beta$ -Sp0	6	5
279	Neu5Gc $\alpha$ 2-3Gal $\beta$ 1-4(Fuca1-3)GlcNAc $\beta$ -Sp0	3557	364
280	Neu5Gc $\alpha$ 2-3Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	12	12
281	Neu5Gc $\alpha$ 2-3Gal $\beta$ 1-4Glc $\beta$ -Sp0	26	3
282	Neu5Gc $\alpha$ 2-6GalNAc $\alpha$ -Sp0	2	6
283	Neu5Gc $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	30	18
284	Neu5Gc $\alpha$ -Sp8	15	22
285	Gal $\beta$ 1-3(Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-6)GalNAc $\alpha$ -Sp14	25	7
286	Gal $\beta$ 1-3GlcNAc $\beta$ 1-3Gal $\beta$ 1-3GlcNAc $\beta$ -Sp0	-1	2
287	Gal $\beta$ 1-4(Fuca1-3)[6OSO3]GlcNAc-Sp0	2665	956
288	Gal $\beta$ 1-4(Fuca1-3)[6OSO3]Glc-Sp0	20	13
289	Gal $\beta$ 1-4(Fuca1-3)GlcNAc $\beta$ 1-3Gal $\beta$ 1-3(Fuca1-4)GlcNAc $\beta$ -Sp0	8120	1426
290	Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-3GlcNAc $\beta$ -Sp0	83	19
291	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-3GlcNAc $\beta$ 1-3Gal $\beta$ 1-3GlcNAc $\beta$ -Sp0	104	31
292	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-3GlcNAc $\beta$ -Sp0	114	12
293	[3OSO3][4OSO3]Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	469	83
294	[6OSO3]Gal $\beta$ 1-4[6OSO3]GlcNAc $\beta$ -Sp0	381	90
295	6-H2PO3Glc $\beta$ -Sp10	244	110
296	Gal $\beta$ 1-3(Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4(Fuca1-3)GlcNAc $\beta$ 1-6)GalNAc $\alpha$ -Sp14	994	119
297	Gal $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ -Sp8	37	17
298	Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-3(Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-6)Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc $\beta$ -Sp12	131	36
299	Gal $\beta$ 1-4GlcNAc $\beta$ 1-3(Gal $\beta$ 1-4GlcNAc $\beta$ 1-6)Gal $\beta$ 1-4GlcNAc-Sp0	5	29
300	Gal $\beta$ 1-4GlcNAc $\beta$ 1-3(GlcNAc $\beta$ 1-6)Gal $\beta$ 1-4GlcNAc-Sp0	13	24
301	Gal $\beta$ 1-4GlcNAc $\alpha$ 1-6Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	9	13
302	Gal $\beta$ 1-4GlcNAc $\beta$ 1-6Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	11	7
303	GalNAc $\beta$ 1-3Gal $\beta$ -Sp8	8	9
304	GlcA $\beta$ 1-3GlcNAc $\beta$ -Sp8	16	7
305	GlcNAc $\beta$ 1-2Man $\alpha$ 1-3(Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-6)Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc $\beta$ -Sp12	42	10
306	GlcNAc $\beta$ 1-3Man-Sp10	22	3
307	GlcNAc $\beta$ 1-4GlcNAc $\beta$ -Sp10	29	28
308	GlcNAc $\beta$ 1-4GlcNAc $\beta$ -Sp12	15	12
309	HOOC(CH3)CH-3-O-GlcNAc $\beta$ 1-4GlcNAc $\beta$ -Sp10	42	10
310	Man $\alpha$ 1-6Man $\beta$ -Sp10	21	4
311	Man $\alpha$ 1-6(Man $\alpha$ 1-3)Man $\alpha$ 1-6(Man $\alpha$ 1-3)Man $\beta$ -Sp10	62	22
312	Man $\alpha$ 1-2Man $\alpha$ 1-2Man $\alpha$ 1-3(Man $\alpha$ 1-2Man $\alpha$ 1-6(Man $\alpha$ 1-3)Man $\alpha$ 1-6)Man $\alpha$ -Sp9	3	4
313	Man $\alpha$ 1-2Man $\alpha$ 1-2Man $\alpha$ 1-3(Man $\alpha$ 1-2Man $\alpha$ 1-6(Man $\alpha$ 1-2Man $\alpha$ 1-3)Man $\alpha$ 1-6)Man $\alpha$ -Sp9	66	11
314	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-3(Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-6)GalNAc $\alpha$ -Sp14	137	27
315	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-3(Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-6)Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc $\beta$ -Sp12	115	17
316	Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-3(Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-6)Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc $\beta$ -Sp12	80	20
317	Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-3(GlcNAc $\beta$ 1-2Man $\alpha$ 1-6)Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc $\beta$ -Sp12	131	33
318	Neu5Ac $\alpha$ 2-8Neu5Ac $\beta$ -Sp17	96	18

319	Neu5Ac $\alpha$ 2-8Neu5Ac $\alpha$ 2-8Neu5Ac $\beta$ -Sp8	141	28
320	Neu5Gc $\beta$ 2-6Gal $\beta$ 1-4GlcNAc-Sp8	31	12
321	Gal $\beta$ 1-3GlcNAc $\beta$ 1-2Man $\alpha$ 1-3(Gal $\beta$ 1-3GlcNAc $\beta$ 1-2Man $\alpha$ 1-6)Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc $\beta$ -Sp19	98	34
322	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-3(Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-6)Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc $\beta$ -Sp12	82	6
323	Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-3(Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-6)Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc $\beta$ -Sp12	81	11
324	Fuc $\alpha$ 1-3(Gal $\beta$ 1-4)GlcNAc $\beta$ 1-2Man $\alpha$ 1-3(Fuc $\alpha$ 1-3(Gal $\beta$ 1-4)GlcNAc $\beta$ 1-2Man $\alpha$ 1-6)Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc $\beta$ -Sp20	1733	246
325	Neu5Ac(9Ac) $\alpha$ 2-3Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	19	10
326	Neu5Ac(9Ac) $\alpha$ 2-3Gal $\beta$ 1-3GlcNAc $\beta$ -Sp0	8	4
327	Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-3GlcNAc $\beta$ -Sp0	9	11
328	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-3(Fuc $\alpha$ 1-4)GlcNAc $\beta$ 1-3Gal $\beta$ 1-3(Fuc $\alpha$ 1-4)GlcNAc $\beta$ -Sp0	94	18
329	Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	38	9
330	Gal $\alpha$ 1-4Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4Glc $\beta$ -Sp0	6	7
331	GalNAc $\beta$ 1-3Gal $\alpha$ 1-4Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4Glc $\beta$ -Sp0	21	10
332	GalNAc $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	6	4
333	GalNAc $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	200	48
334	Neu5Ac $\alpha$ 2-3-Gal $\beta$ 1-3(Gal $\beta$ 1-4(Fuc $\alpha$ 1-3)GlcNAc $\beta$ 1-6)GalNAc-Sp14	1957	473
335	GlcNAc $\alpha$ 1-4Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	12	4
336	GlcNAc $\alpha$ 1-4Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	45	20
337	GlcNAc $\alpha$ 1-4Gal $\beta$ 1-3GlcNAc $\beta$ -Sp0	39	15
338	GlcNAc $\alpha$ 1-4Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4Glc $\beta$ -Sp0	67	16
339	GlcNAc $\alpha$ 1-4Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4(Fuc $\alpha$ 1-3)GlcNAc $\beta$ 1-3Gal $\beta$ 1-4(Fuc $\alpha$ 1-3)GlcNAc $\beta$ -Sp0	1655	140
340	GlcNAc $\alpha$ 1-4Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	96	28
341	GlcNAc $\alpha$ 1-4Gal $\beta$ 1-3GalNAc-Sp14	432	124
342	Man $\alpha$ 1-3(Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-6)Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc-Sp12	93	13
343	Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-3(Man $\alpha$ 1-6)Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc-Sp12	106	48
344	Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-6Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc-Sp12	78	6
345	Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-3Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc-Sp12	105	18
346	Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-3Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc-Sp12	59	9
347	Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-6Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc-Sp12	90	20
348	Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-3(Man $\alpha$ 1-6)Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc $\beta$ -Sp12	135	40
349	GlcNAc $\beta$ 1-2Man $\alpha$ 1-3(GlcNAc $\beta$ 1-2Man $\alpha$ 1-6)Man $\beta$ 1-4GlcNAc $\beta$ 1-4(Fuc $\alpha$ 1-6)GlcNAc $\beta$ -Sp22	35	19
350	Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-3(Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-6)Man $\beta$ 1-4GlcNAc $\beta$ 1-4(Fuc $\alpha$ 1-6)GlcNAc $\beta$ -Sp22	8	3
351	Gal $\beta$ 1-3GlcNAc $\beta$ 1-2Man $\alpha$ 1-3(Gal $\beta$ 1-3GlcNAc $\beta$ 1-2Man $\alpha$ 1-6)Man $\beta$ 1-4GlcNAc $\beta$ 1-4(Fuc $\alpha$ 1-6)GlcNAc $\beta$ -Sp22	8	17
352	[6OSO3]GlcNAc $\beta$ 1-3Gal $\beta$ 1-4GlcNAc- $\beta$ -Sp0	0	5
353	KDN $\alpha$ 2-3Gal $\beta$ 1-4(Fuc $\alpha$ 1-3)GlcNAc-Sp0	2132	316
354	KDN $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc-Sp0	7	4
355	KDN $\alpha$ 2-3Gal $\beta$ 1-4Glc-Sp0	19	16
356	KDN $\alpha$ 2-3Gal $\beta$ 1-3GalNAc $\alpha$ -Sp14	14	6
357	Fuc $\alpha$ 1-2Gal $\beta$ 1-3GlcNAc $\beta$ 1-2Man $\alpha$ 1-3(Fuc $\alpha$ 1-2Gal $\beta$ 1-3GlcNAc $\beta$ 1-2Man $\alpha$ 1-6)Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc $\beta$ -Sp20	52	16
358	Fuc $\alpha$ 1-2Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-3(Fuc $\alpha$ 1-2Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-6)Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc $\beta$ -Sp20	53	23
359	Fuc $\alpha$ 1-2Gal $\beta$ 1-4(Fuc $\alpha$ 1-3)GlcNAc $\beta$ 1-2Man $\alpha$ 1-3(Fuc $\alpha$ 1-2Gal $\beta$ 1-4(Fuc $\alpha$ 1-3)GlcNAc $\beta$ 1-2Man $\alpha$ 1-6)Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc $\beta$ -Sp20	175	68
360	Gal $\alpha$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-3(Gal $\alpha$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-6)Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc $\beta$ -Sp20	51	29
361	Man $\alpha$ 1-3(Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ 1-6)Man $\beta$ 1-4GlcNAc $\beta$ 1-4GlcNAc $\beta$ -Sp12	72	6

362	Galβ1-3(Fuca1-4)GlcNAcβ1-2Manα1-3(Galβ1-3(Fuca1-4)GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4(Fuca1-6)GlcNAcβ-Sp22	116	19
363	Neu5Acα2-6GlcNAcβ1-4GlcNAc-Sp21	42	22
364	Neu5Acα2-6GlcNAcβ1-4GlcNAcβ1-4GlcNAc-Sp21	43	13
365	Fuca1-2Galβ1-3GlcNAcβ1-3(Galβ1-4(Fuca1-3)GlcNAcβ1-6)Galβ1-4Glc-Sp21	1510	465
366	Galβ1-4GlcNAcβ1-2(Galβ1-4GlcNAcβ1-4)Manα1-3(Galβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAc-Sp21	28	9
367	GalNAcα1-3(Fuca1-2)Galβ1-4GlcNAcβ1-2Manα1-3(GalNAcα1-3(Fuca1-2)Galβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp20	8	14
368	Galα1-3(Fuca1-2)Galβ1-4GlcNAcβ1-2Manα1-3(Galα1-3(Fuca1-2)Galβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp20	50	13
369	Galα1-3Galβ1-4(Fuca1-3)GlcNAcβ1-2Manα1-3(Galα1-3Galβ1-4(Fuca1-3)GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp20	2769	438
370	GalNAcα1-3(Fuca1-2)Galβ1-3GlcNAcβ1-2Manα1-3(GalNAcα1-3(Fuca1-2)Galβ1-3GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp20	60	25
371	Galα1-3(Fuca1-2)Galβ1-3GlcNAcβ1-2Manα1-3(Galα1-3(Fuca1-2)Galβ1-3GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp20	14	11
372	Fuca1-2Galβ1-3(Fuca1-4)GlcNAcβ1-2Manα1-3(Fuca1-2Galβ1-3(Fuca1-4)GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp19	482	30
373	Neu5Acα2-3Galβ1-4GlcNAcβ1-3GalNAc-Sp14	28	2
374	Neu5Acα2-6Galβ1-4GlcNAcβ1-3GalNAc-Sp14	27	14
375	Neu5Acα2-3Galβ1-4(Fuca1-3)GlcNAcβ1-3GalNAcα-Sp14	339	162
376	(GalNAcβ1-4GlcNAcβ1-2Manα1-6)GalNAcβ1-4GlcNAcβ1-2Manα1-3Manβ1-4GlcNAcβ1-4GlcNAc-Sp12	12	9
377	Galβ1-3GalNAcα1-3(Fuca1-2)Galβ1-4Glc-Sp0	21	6
378	Galβ1-3GalNAcα1-3(Fuca1-2)Galβ1-4GlcNAc-Sp0	4	10
379	Galβ1-3GlcNAcβ1-3(Galβ1-3GlcNAcβ1-3Galβ1-4GlcNAcβ1-6)Galβ1-4Glcβ-Sp0	7	7
380	Galβ1-3GlcNAcβ1-3(Galβ1-4(Fuca1-3)GlcNAcβ1-6)Galβ1-4Glc-Sp21	2968	817
381	Fuca1-2Galβ1-3(Fuca1-4)GlcNAcβ1-3(Galβ1-4GlcNAcβ1-6)Galβ1-4Glc-Sp21	30	8
382	Fuca1-2Galβ1-3(Fuca1-4)GlcNAcβ1-3(Galβ1-4(Fuca1-3)GlcNAcβ1-6)Galβ1-4Glc-Sp21	1012	333
383	Galβ1-3GlcNAcβ1-3(Galβ1-3GlcNAcβ1-3Galβ1-4(Fuca1-3)GlcNAcβ1-6)Galβ1-4Glc-Sp21	1750	276
384	Galβ1-4GlcNAcβ1-2(Galβ1-4GlcNAcβ1-4)Manα1-3(Galβ1-4GlcNAcβ1-2(Galβ1-4GlcNAcβ1-6)Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp21	11	11
385	GlcNAcβ1-2(GlcNAcβ1-4)Manα1-3(GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAc-Sp21	29	28
386	Fuca1-2Galβ1-3GalNAcα1-3(Fuca1-2)Galβ1-4Glcβ-Sp0	81	24
387	Fuca1-2Galβ1-3GalNAcα1-3(Fuca1-2)Galβ1-4GlcNAcβ-Sp0	88	30
388	Galβ1-3GlcNAcβ1-3GalNAcα-Sp14	75	11
389	Neu5Acα2-3(GalNAcβ1-4)Galβ1-4GlcNAcβ1-3GalNAcα-Sp14	196	65
390	GalNAcα1-3(Fuca1-2)Galβ1-3GalNAcα1-3(Fuca1-2)Galβ1-4GlcNAcβ-Sp0	81	24
391	Galα1-3Galβ1-3GlcNAcβ1-2Manα1-3(Galα1-3Galβ1-3GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAc-Sp19	115	17
392	Galα1-3Galβ1-3(Fuca1-4)GlcNAcβ1-2Manα1-3(Galα1-3Galβ1-3(Fuca1-4)GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAc-Sp19	145	14
393	Galβ1-4GlcNAcβ1-2Manα1-3(GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAc-Sp12	154	30
394	GlcNAcβ1-2Manα1-3(Galβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAc-Sp12	106	39
395	Neu5Acα2-3Galβ1-3GlcNAcβ1-3GalNAcα-Sp14	165	58
396	Fuca1-2Galβ1-4GlcNAcβ1-3GalNAcα-Sp14	106	40
397	Galβ1-4(Fuca1-3)GlcNAcβ1-3GalNAcα-Sp14	58	8
398	GalNAcα1-3GalNAcβ1-3Galα1-4Galβ1-4GlcNAcβ-Sp0	2	3
399	Galα1-4Galβ1-3GlcNAcβ1-2Manα1-3(Galα1-4Galβ1-3GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp19	41	27
400	Galα1-4Galβ1-4GlcNAcβ1-2Manα1-3(Galα1-4Galβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-LVANKT	10	6
401	Galα1-3Galβ1-4GlcNAcβ1-3GalNAcα-Sp14	22	15
402	Galβ1-3GlcNAcβ1-6Galβ1-4GlcNAcβ-Sp0	8	7
403	Galβ1-3GlcNAcα1-6Galβ1-4GlcNAcβ-Sp0	22	10
404	GalNAcβ1-3Galα1-6Galβ1-4Glcβ-Sp8	12	10



405	GlcNAcβ1-6(GlcNAcβ1-3)GalNAcα-Sp14	21	18
406	Galα1-3(Fuca1-2)Galβ1-4(Fuca1-3)Glcβ-Sp21	10	4
407	Neu5Acα2-6Galβ1-3GlcNAcβ1-3(Galβ1-4GlcNAcβ1-6)Galβ1-4Glc-Sp21	34	12
408	Galβ1-3GalNAcβ1-4(Neu5Acα2-8Neu5Acα2-3)Galβ1-4Glcβ-Sp0	21	9
409	Neu5Acα2-3Galβ1-3GalNAcβ1-4(Neu5Acα2-8Neu5Acα2-3)Galβ1-4Glcβ-Sp0	108	18
410	Galα1-3(Fuca1-2)Galβ1-4GlcNAcβ1-3GalNAcα-Sp14	55	13
411	GalNAcα1-3(Fuca1-2)Galβ1-4GlcNAcβ1-3GalNAcα-Sp14	147	50
412	GalNAcα1-3GalNAcβ1-3Galα1-4Galβ1-4Glcβ-Sp0	43	6
413	Fuca1-2Galβ1-4(Fuca1-3)GlcNAcβ1-3GalNAcα-Sp14	543	194
414	Galα1-3(Fuca1-2)Galβ1-4(Fuca1-3)GlcNAcβ1-3GalNAc-Sp14	104	24
415	GalNAcα1-3(Fuca1-2)Galβ1-4(Fuca1-3)GlcNAcβ1-3GalNAc-Sp14	197	77
416	Galβ1-4(Fuca1-3)GlcNAcβ1-2Manα1-3(Galβ1-4(Fuca1-3)GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4(Fuca1-6)GlcNAcβ-Sp22	80	25
417	Fuca1-2Galβ1-4GlcNAcβ1-2Manα1-3(Fuca1-2Galβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4(Fuca1-6)GlcNAcβ-Sp22	143	38
418	GlcNAcβ1-2Manα1-3(GlcNAcβ1-2(GlcNAcβ1-6)Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp19	67	26
419	Fuca1-2Galβ1-3GlcNAcβ1-3GalNAc-Sp14	111	19
420	Galα1-3(Fuca1-2)Galβ1-3GlcNAcβ1-3GalNAc-Sp14	77	10
421	GalNAcα1-3(Fuca1-2)Galβ1-3GlcNAcβ1-3GalNAc-Sp14	54	30
422	Galα1-3Galβ1-3GlcNAcβ1-3GalNAc-Sp14	10	4
423	Fuca1-2Galβ1-3GlcNAcβ1-2Manα1-3(Fuca1-2Galβ1-3GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4(Fuca1-6)GlcNAcβ-Sp22	49	11
424	Galα1-3(Fuca1-2)Galβ1-4GlcNAcβ1-2Manα1-3(Galα1-3(Fuca1-2)Galβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4(Fuca1-6)GlcNAcβ-Sp22	8	8
425	Galβ1-3GlcNAcβ1-2Manα1-3(Galβ1-3GlcNAcβ1-2(Galβ1-3GlcNAcβ1-6)Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp19	25	6
426	Fuca1-2Galβ1-3GlcNAcβ1-3(Galβ1-4GlcNAcβ1-6)Galβ1-4Glc-Sp21	7	2
427	Galβ1-4GlcNAcβ1-3Galβ1-4(Fuca1-3GlcNAcβ1-6)Galβ1-4Glc-Sp21	3417	656
428	GlcNAcβ1-2Manα1-3(GlcNAcβ1-4)(GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAc-Sp21	8	9
429	GlcNAcβ1-4(GlcNAcβ1-2)Manα1-3(GlcNAcβ1-4)(GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAc-Sp21	20	12
430	GlcNAcβ1-2Manα1-3(GlcNAcβ1-4)(GlcNAcβ1-6(GlcNAcβ1-2)Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAc-Sp21	15	5
431	GlcNAcβ1-4(GlcNAcβ1-2)Manα1-3(GlcNAcβ1-4)(GlcNAcβ1-6(GlcNAcβ1-2)Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAc-Sp21	25	1
432	Galβ1-4GlcNAcβ1-2Manα1-3(GlcNAcβ1-4)(Galβ1-4GlcNAcβ1-2)Manβ1-4GlcNAcβ1-4GlcNAc-Sp21	22	9
433	Galβ1-4GlcNAcβ1-4(Galβ1-4GlcNAcβ1-2)Manα1-3(GlcNAcβ1-4)(Galβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAc-Sp21	28	13
434	Galβ1-4GlcNAcβ1-2Manα1-3(GlcNAcβ1-4)(Galβ1-4GlcNAcβ1-6(Galβ1-4GlcNAcβ1-2)Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAc-Sp21	61	22
435	Galβ1-4GlcNAcβ1-4(Galβ1-4GlcNAcβ1-2)Manα1-3(GlcNAcβ1-4)(Galβ1-4GlcNAcβ1-6(Galβ1-4GlcNAcβ1-2)Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAc-Sp21	63	5
436	Galα1-3Galβ1-4Glc-Sp10	52	15
437	Galβ1-4Galβ-Sp10	127	53
438	Galβ1-6Galβ-Sp10	117	41
439	Neu5Acα2-3Galβ1-4GlcNAcβ1-3Galβ-Sp8	71	19
440	GalNAcβ1-6GalNAcβ-Sp8	10	6
441	[6OSO3]Galβ1-3GlcNAcβ-Sp0	50	20
442	[6OSO3]Galβ1-3[6OSO3]GlcNAc-Sp0	482	51
443	Fuca1-2Galβ1-4GlcNAcβ1-2(Fuca1-2Galβ1-4GlcNAcβ1-4)Manα1-3(Fuca1-2Galβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp12	18	32
444	Fuca1-2Galβ1-4(Fuca1-3)GlcNAcβ1-2(Fuca1-2Galβ1-4(Fuca1-3)GlcNAcβ1-4)Manα1-3(Fuca1-2Galβ1-4(Fuca1-3)GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp12	106	31
445	Galβ1-4GlcNAcβ1-3(Galβ1-4GlcNAcβ1-6)GalNAc-Sp14	45	14
446	Galβ1-4GlcNAcβ1-6GalNAc-Sp14	30	9
447	Galβ1-4(Fuca1-3)GlcNAcβ1-6GalNAc-Sp14	992	482
448	Galβ1-4GlcNAcβ1-2Manα-Sp0	4	2

449	Fuca1-2Galβ1-4GlcNAcβ1-3(Fuca1-2Galβ1-4GlcNAcβ1-6)GalNAc-Sp14	71	28
450	Galα1-3Fuca1-2Galβ1-4GlcNAcβ1-3(Galα1-3Fuca1-2Galβ1-4GlcNAcβ1-6)GalNAc-Sp14	30	17
451	GalNAca1-3Fuca1-2Galβ1-4GlcNAcβ1-3(GalNAca1-3Fuca1-2Galβ1-4GlcNAcβ1-6)GalNAc-Sp14	37	25
452	Neu5Acα2-8Neu5Acα2-3Galβ1-3GalNAcβ1-4(Neu5Acα2-8Neu5Acα2-3)Galβ1-4Glcβ-Sp0	7	4
453	GalNAcβ1-4Galβ1-4Glcβ-Sp0	33	13
454	GalNAca1-3(Fuca1-2)Galβ1-4GlcNAcβ1-2Manα1-6(GalNAca1-3(Fuca1-2)Galβ1-4GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4(Fuca1-6)GlcNAcβ-Sp22	2	4
455	Galα1-3(Fuca1-2)Galβ1-3GlcNAcβ1-2Manα1-6(Galα1-3(Fuca1-2)Galβ1-3GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4(Fuca1-6)GlcNAcβ-Sp22	17	10
456	Neu5Acα2-6Galβ1-4GlcNAcβ1-6(Fuca1-2Galβ1-3GlcNAcβ1-3)Galβ-4Glc-Sp21	5	2
457	GalNAca1-3(Fuca1-2)Galβ1-3GlcNAcβ1-2Manα1-6(GalNAca1-3(Fuca1-2)Galβ1-3GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4(Fuca1-6)GlcNAcβ-Sp22	80	13
458	Galβ1-4GlcNAcβ1-6(Galβ1-4GlcNAcβ1-2)Manα1-6(Galβ1-4GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp19	87	16
459	Galβ1-4GlcNAcβ-(OCH <sub>2</sub> CH <sub>2</sub> ) <sub>6</sub> NH <sub>2</sub>	7	5
460	Galα1-3(Fuca1-2)Galβ1-3GalNAcα-Sp8	21	15
461	Galα1-3(Fuca1-2)Galβ1-3GalNAcβ-Sp8	43	8
462	Glcα1-6Glcα1-6Glcα1-6Glcβ-Sp10	76	23
463	Glcα1-4Glcα1-4Glcα1-4Glcβ-Sp10	110	29
464	Neu5Acα2-3Galβ1-4GlcNAcβ1-6(Neu5Acα2-3Galβ1-4GlcNAcβ1-3)GalNAca-Sp14	87	33
465	Fuca1-2Galβ1-4(Fuca1-3)GlcNAcβ1-2Manα1-6(Fuca1-2Galβ1-4(Fuca1-3)GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4(Fuca1-6)GlcNAcβ-6AA	62	40
466	Fuca1-2Galβ1-3(Fuca1-4)GlcNAcβ1-2Manα1-6(Fuca1-2Galβ1-3(Fuca1-4)GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4(Fuca1-6)GlcNAcβ-Sp19	61	27
467	Neu5Acα2-3Galβ1-3GlcNAcβ1-6(Neu5Acα2-3Galβ1-4GlcNAcβ1-2)Manα1-6(Neu5Acα2-3Galβ1-3GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp19	74	15
468	GlcNAcβ1-6(GlcNAcβ1-2)Manα1-6(GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4(Fuca1-6)GlcNAcβ-6AA	26	18
469	Galβ1-3GlcNAcβ1-2Manα1-6(GlcNAcβ1-4)(Galβ1-3GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp21	53	23
470	Neu5Acα2-6Galβ1-4GlcNAcβ1-6(Galβ1-3GlcNAcβ1-3)Galβ1-4Glcβ-Sp21	6	7
471	Neu5Acα2-3Galβ1-4GlcNAcβ1-2Manα-Sp0	192	163
472	Neu5Acα2-3Galβ1-4GlcNAcβ1-6GalNAcα-Sp14	8	3
473	Neu5Acα2-6Galβ1-4GlcNAcβ1-6GalNAcα-Sp14	84	29
474	Neu5Acα2-6Galβ1-4GlcNAcβ1-6(Neu5Acα2-6Galβ1-4GlcNAcβ1-3)GalNAcα-Sp14	15	6
475	Neu5Acα2-6Galβ1-4GlcNAcβ1-2Manα1-6(Neu5Acα2-6Galβ1-4GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4(Fuca1-6)GlcNAcβ-6AA	39	11
476	Neu5Acα2-3Galβ1-4GlcNAcβ1-2Manα1-6(Neu5Acα2-3Galβ1-4GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4(Fuca1-6)GlcNAcβ-6AA	36	10
477	Manα1-6(Manα1-3)Manβ1-4GlcNAcβ1-4(Fuca1-6)GlcNAcβ-Sp19	39	20
478	Galβ1-4GlcNAcβ1-6(Galβ1-4GlcNAcβ1-2)Manα1-6(Galβ1-4GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4(Fuca1-6)GlcNAcβ-6AA	18	10
479	Neu5Acα2-3Galβ1-3GlcNAcβ1-2Manα1-6(GlcNAcβ1-4)(Neu5Acα2-3Galβ1-3GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAc-Sp21	21	20
480	Neu5Acα2-6Galβ1-4GlcNAcβ1-6(Fuca1-2Galβ1-4(Fuca1-3)GlcNAcβ1-3)Galβ1-4Glc-Sp21	6	11
481	Galβ1-3GlcNAcβ1-6GalNAcα-Sp14	113	11
482	Galα1-3Galβ1-3GlcNAcβ1-6GalNAcα-Sp14	86	18
483	Galβ1-3(Fuca1-4)GlcNAcβ1-6GalNAcα-Sp14	195	79
484	Neu5Acα2-3Galβ1-3GlcNAcβ1-6GalNAcα-Sp14	105	29
485	[3OSO <sub>3</sub> ]Galβ1-3(Fuca1-4)GlcNAcα-Sp0	125	72
486	Neu5Acα2-3Galβ1-3(Neu5Acα2-6)GlcNAcβ1-3(Fuca1-3(Galβ1-4)GlcNAcβ1-6)Galβ1-4Glc-Sp21	187	177
487	Fuca1-2Galβ1-4GlcNAcβ1-6GalNAcα-Sp14	239	94
488	Galα1-3Galβ1-4GlcNAcβ1-6GalNAcα-Sp14	8	6
489	Galβ1-4(Fuca1-3)GlcNAcβ1-2Manα-Sp0	1261	714
490	[6OSO <sub>3</sub> ](Fuca1-2)Galβ1-3GlcNAcβ-Sp0	82	17

491	Gal $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal $\beta$ 1-4GlcNAc $\beta$ 1-6GalNAc $\alpha$ -Sp14	300	110
492	Fuc $\alpha$ 1-2Gal $\beta$ 1-4GlcNAc $\beta$ 1-2Man $\alpha$ -Sp0	111	42
493	(Fuc $\alpha$ 1-2)Gal $\beta$ 1-3[6OSO3]GlcNAc $\beta$ -Sp0	77	15
494	[6OSO3](Fuc $\alpha$ 1-2)Gal $\beta$ 1-3[6OSO3]GlcNAc $\beta$ -Sp0	148	60
495	Neu5Ac $\alpha$ 2-6GalNAc $\beta$ 1-4[6OSO3]GlcNAc $\beta$ -Sp8	221	28
496	GalNAc $\beta$ 1-4[6OSO3](Fuc $\alpha$ 1-3)GlcNAc $\beta$ -Sp8	15553	584
497	[3OSO3]GalNAc $\beta$ 1-4(Fuc $\alpha$ 1-3)GlcNAc $\beta$ -Sp8	12725	438
498	(Fuc $\alpha$ 1-2)Gal $\beta$ 1-3GlcNAc $\beta$ 1-6(Fuc $\alpha$ 1-2Gal $\beta$ 1-3GlcNAc $\beta$ 1-3)GalNAc $\alpha$ -Sp14	99	41
499	GalNAc $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal $\beta$ 1-3GlcNAc $\beta$ 1-6GalNAc $\alpha$ -Sp14	93	37
500	GlcNAc $\beta$ 1-2(GlcNAc $\beta$ 1-4)Man $\alpha$ 1-3(GlcNAc $\beta$ 1-4)[GlcNAc $\beta$ 1-2(GlcNAc $\beta$ 1-6)Man $\alpha$ 1-6]Man $\beta$ 1-4GlcNAc $\beta$ 1-4(Fuc $\alpha$ 1-6)GlcNAc-Sp21	15	14
501	Gal $\beta$ 1-4GlcNAc $\beta$ 1-2(Gal $\beta$ 1-4GlcNAc $\beta$ 1-4)Man $\alpha$ 1-3(GlcNAc $\beta$ 1-4)[Gal $\beta$ 1-4GlcNAc $\beta$ 1-2(Gal $\beta$ 1-4GlcNAc $\beta$ 1-6)Man $\alpha$ 1-6]Man $\beta$ 1-4GlcNAc $\beta$ 1-4(Fuc $\alpha$ 1-6)GlcNAc-Sp21	10	6
502	Gal $\beta$ 1-3GlcNAc $\alpha$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ -Sp8	8	2
503	Gal $\beta$ 1-3[6OSO3]GlcNAc $\beta$ -Sp8	45	13
504	[4OSO3][6OSO3]GalNAc $\beta$ 1-4GlcNAc-Sp8	37	6
505	[6OSO3]GalNAc $\beta$ 1-4GlcNAc-Sp8	78	41
506	[3OSO3]GalNAc $\beta$ 1-4[3OSO3]GlcNAc-Sp8	234	128
507	GalNAc $\beta$ 1-4[6OSO3]GlcNAc-Sp8	120	22
508	[3OSO3]GalNAc $\beta$ 1-4GlcNAc-Sp8	65	13
509	[4OSO3]GalNAc $\beta$ -Sp10	38	7
510	Gal $\beta$ 1-4[6PO3]GlcNAc $\beta$ -Sp0	54	27
511	[6PO3]Gal $\beta$ 1-4GlcNAc $\beta$ -Sp0	31	16

\* Spacers:

Sp0	CH <sub>2</sub> CH <sub>2</sub> NH <sub>2</sub>
Sp8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> NH <sub>2</sub>
Sp9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> NH <sub>2</sub>
Sp10	NHCOCH <sub>2</sub> NH
Sp11	OCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> -p-NHCOCH <sub>2</sub> NH
Sp12	Asparagine (N)
Sp13	Glycine (G)
Sp14	Threonine (T)
Sp15	Serine (S)
Sp16	PNP (OC <sub>6</sub> H <sub>4</sub> NH <sub>2</sub> )
Sp17	OCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> NH <sub>2</sub>
Sp18	O(CH <sub>2</sub> ) <sub>3</sub> NHCO(CH <sub>2</sub> ) <sub>3</sub> NH <sub>2</sub>
Sp19	GluAsn (EN) or AsnLys (NK)
Sp20	GlyGluAsnTrp (GENR)
Sp21	N(CH <sub>3</sub> )-O-(CH <sub>2</sub> ) <sub>2</sub> -NH <sub>2</sub>
Sp22	AsnSerThr (NST)
Sp23	(OCH <sub>2</sub> CH <sub>2</sub> ) <sub>6</sub> NH <sub>2</sub>
MDPLys	Mur-L-Ala-D-iGln $\beta$ -(CH <sub>2</sub> ) <sub>4</sub> NH <sub>2</sub>