

PROLECTIN: A GLYCAN-BINDING RECEPTOR ON DIVIDING B CELLS IN GERMINAL CENTERS

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SUPPLEMENTARY TABLE 1
Oligosaccharides on glycan array

Glycan number	Glycan Structure
1	Neu5Ac α 2-8Neu5Ac β -Sp17
2	Neu5Ac α 2-8Neu5Ac α 2-8Neu5Ac β -Sp8
3	Neu5Gc β 2-6G α 1 β 1-4GlcNAc-Sp8
4	Gal β 1-3GlcNAc β 1-2Man α 1-3(Gal β 1-3GlcNAc β 1-2Man α 1-6)Man β 1-4GlcNAc β 1-4GlcNAc β -Sp19
5	Gal α -Sp8
6	Glc α -Sp8
7	Man α -Sp8
8	GalNAc α -Sp8
9	Fuc α -Sp8
10	Fuc α -Sp9
11	Rha-Sp8
12	Neu5Ac α -Sp8
13	Neu5Ac α -Sp11
14	Neu5Ac β -Sp8
15	Gal β -Sp8
16	Glc β -Sp8
17	Man β -Sp8
18	GalNAc β -Sp8
19	GlcNAc β -Sp0
20	GlcNAc β -Sp8
21	GlcN(Gc) β -Sp8
22	Gal β 1-4GlcNAc β 1-3(Gal β 1-4GlcNAc β 1-6)GalNAc α -Sp8
23	GlcNAc β 1-3(GlcNAc β 1-4)(GlcNAc β 1-6)GlcNAc-Sp8
24	[3OSO3][6OSO3]Gal β 1-4[6OSO3]GlcNAc β -Sp0
25	[3OSO3][6OSO3]Gal β 1-4GlcNAc β -Sp0
26	[3OSO3]Gal β 1-4Glc β -Sp8
27	[3OSO3]Gal β 1-4[6OSO3]Glc β -Sp0
28	[3OSO3]Gal β 1-4[6OSO3]Glc β -Sp8
29	[3OSO3]Gal β 1-3(Fuc α 1-4)GlcNAc β -Sp8
30	[3OSO3]Gal β 1-3GalNAc α -Sp8
31	[3OSO3]Gal β 1-3GlcNAc β -Sp8
32	[3OSO3]Gal β 1-4(Fuc α 1-3)GlcNAc β -Sp8
33	[3OSO3]Gal β 1-4[6OSO3]GlcNAc β -Sp8
34	[3OSO3]Gal β 1-4GlcNAc β -Sp0
35	[3OSO3]Gal β 1-4GlcNAc β -Sp8
36	[3OSO3]Gal β -Sp8
37	[4OSO3][6OSO3]Gal β 1-4GlcNAc β -Sp0
38	[4OSO3]Gal β 1-4GlcNAc β -Sp8
39	6-H ₂ PO ₃ Man α -Sp8
40	[6OSO3]Gal β 1-4Glc β -Sp0
41	[6OSO3]Gal β 1-4Glc β -Sp8
42	[6OSO3]Gal β 1-4GlcNAc β -Sp8

43	[6OSO3]Galβ1-4[6OSO3]Glcβ-Sp8
44	Neu5Acα2-3[6OSO3]Galβ1-4GlcNAcβ-Sp8
45	[6OSO3]GlcNAcβ-Sp8
46	Neu5Ac(9Ac)α-Sp8
47	Neu5Ac(9Ac)α2-6Galβ1-4GlcNAcβ-Sp8
48	Manα1-3(Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp13
49	GlcNAcβ1-2Manα1-3(GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp13
50	Galβ1-4GlcNAcβ1-2Manα1-3(Galβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp12
51	Galβ1-4GlcNAcβ1-2Manα1-3(Galβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp13
52	Neu5Acα2-6Galβ1-4GlcNAcβ1-2Manα1-3(Neu5Acα2-6Galβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp12
53	Neu5Acα2-6Galβ1-4GlcNAcβ1-2Manα1-3(Neu5Acα2-6Galβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp13
54	Neu5Acα2-6Galβ1-4GlcNAcβ1-2Manα1-3(Neu5Acα2-6Galβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp8
55	Fucα1-2Galβ1-3GalNAcβ1-3Galα-Sp9
56	Fucα1-2Galβ1-3GalNAcβ1-3Galα1-4Galβ1-4Glcβ-Sp9
57	Fucα1-2Galβ1-3(Fucα1-4)GlcNAcβ-Sp8
58	Fucα1-2Galβ1-3GalNAcα-Sp8
59	Fucα1-2Galβ1-3GalNAcβ1-4(Neu5Acα2-3)Galβ1-4Glcβ-Sp0
60	Fucα1-2Galβ1-3GalNAcβ1-4(Neu5Acα2-3)Galβ1-4Glcβ-Sp9
61	Fucα1-2Galβ1-3GlcNAcβ1-3Galβ1-4Glcβ-Sp10
62	Fucα1-2Galβ1-3GlcNAcβ1-3Galβ1-4Glcβ-Sp8
63	Fucα1-2Galβ1-3GlcNAcβ-Sp0
64	Fucα1-2Galβ1-3GlcNAcβ-Sp8
65	Fucα1-2Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ-Sp0
66	Fucα1-2Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ-Sp0
67	Fucα1-2Galβ1-4(Fucα1-3)GlcNAcβ-Sp0
68	Fucα1-2Galβ1-4(Fucα1-3)GlcNAcβ-Sp8
69	Fucα1-2Galβ1-4GlcNAcβ1-3Galβ1-4GlcNAcβ-Sp0
70	Fucα1-2Galβ1-4GlcNAcβ1-3Galβ1-4GlcNAcβ1-3Galβ1-4GlcNAcβ-Sp0
71	Fucα1-2Galβ1-4GlcNAcβ-Sp0
72	Fucα1-2Galβ1-4GlcNAcβ-Sp8
73	Fucα1-2Galβ1-4Glcβ-Sp0
74	Fucα1-2Galβ-Sp8
75	Fucα1-3GlcNAcβ-Sp8
76	Fucα1-4GlcNAcβ-Sp8
77	Fucβ1-3GlcNAcβ-Sp8
78	GalNAcα1-3(Fucα1-2)Galβ1-3GlcNAcβ-Sp0
79	GalNAcα1-3(Fucα1-2)Galβ1-4(Fucα1-3)GlcNAcβ-Sp0
80	GalNAcα1-3(Fucα1-2)Galβ1-4GlcNAcβ-Sp0
81	GalNAcα1-3(Fucα1-2)Galβ1-4GlcNAcβ-Sp8
82	GalNAcα1-3(Fucα1-2)Galβ1-4Glcβ-Sp0
83	GalNAcα1-3(Fucα1-2)Galβ-Sp8
84	GalNAcα1-3GalNAcβ-Sp8
85	GalNAcα1-3Galβ-Sp8
86	GalNAcα1-4(Fucα1-2)Galβ1-4GlcNAcβ-Sp8
87	GalNAcβ1-3GalNAcα-Sp8
88	GalNAcβ1-3(Fucα1-2)Galβ-Sp8
89	GalNAcβ1-3Galα1-4Galβ1-4GlcNAcβ-Sp0
90	GalNAcβ1-4(Fucα1-3)GlcNAcβ-Sp0
91	GalNAcβ1-4GlcNAcβ-Sp0

92	GalNAc β 1-4GlcNAc β -Sp8
93	Gal α 1-2Gal β -Sp8
94	Gal α 1-3(Fuc α 1-2)Gal β 1-3GlcNAc β -Sp0
95	Gal α 1-3(Fuc α 1-2)Gal β 1-4(Fuc α 1-3)GlcNAc β -Sp0
96	Gal α 1-3(Fuc α 1-2)Gal β 1-4GlcNAc-Sp0
97	Gal α 1-3(Fuc α 1-2)Gal β 1-4Glc β -Sp0
98	Gal α 1-3(Fuc α 1-2)Gal β -Sp8
99	Gal α 1-3(Gal α 1-4)Gal β 1-4GlcNAc β -Sp8
100	Gal α 1-3GalNAc α -Sp8
101	Gal α 1-3GalNAc β -Sp8
102	1-3Gal β 1-4(Fuc α 1-3)GlcNAc β -Sp8
103	Gal α 1-3Gal β 1-3GlcNAc β -Sp0
104	Gal α 1-3Gal β 1-4GlcNAc β -Sp8
105	Gal α 1-3Gal β 1-4Glc β -Sp0
106	Gal α 1-3Gal β -Sp8
107	Gal α 1-4(Fuc α 1-2)Gal β 1-4GlcNAc β -Sp8
108	Gal α 1-4Gal β 1-4GlcNAc β -Sp0
109	Gal α 1-4Gal β 1-4GlcNAc β -Sp8
110	Gal α 1-4Gal β 1-4Glc β -Sp0
111	Gal α 1-4GlcNAc β -Sp8
112	Gal α 1-6Glc β -Sp8
113	Gal β 1-2Gal β -Sp8
114	Gal β 1-3(Fuc α 1-4)GlcNAc β 1-3Gal β 1-4(Fuc α 1-3)GlcNAc β -Sp0
115	Gal β 1-3(Fuc α 1-4)GlcNAc β 1-3Gal β 1-4GlcNAc β -Sp0
116	Gal β 1-3(Fuc α 1-4)GlcNAc β -Sp0
117	Gal β 1-3(Fuc α 1-4)GlcNAc-Sp8
118	Gal β 1-3(Fuc α 1-4)GlcNAc β -Sp8
119	Gal β 1-3(Gal β 1-4GlcNAc β 1-6)GalNAc α -Sp8
120	Gal β 1-3(GlcNAc β 1-6)GalNAc α -Sp8
121	Gal β 1-3(Neu5Ac α 2-6)GalNAc α -Sp8
122	Gal β 1-3(Neu5Ac β 2-6)GalNAc α -Sp8
123	Gal β 1-3(Neu5Ac α 2-6)GlcNAc β 1-4Gal β 1-4Glc β -Sp10
124	Gal β 1-3GalNAc α -Sp8
125	Gal β 1-3GalNAc β -Sp8
126	Gal β 1-3GalNAc β 1-3Gal α 1-4Gal β 1-4Glc β -Sp0
127	Gal β 1-3GalNAc β 1-4(Neu5Ac α 2-3)Gal β 1-4Glc β -Sp0
128	Gal β 1-3GalNAc β 1-4Gal β 1-4Glc β -Sp8
129	Gal β 1-3Gal β -Sp8
130	Gal β 1-3GlcNAc β 1-3Gal β 1-4GlcNAc β -Sp0
131	Gal β 1-3GlcNAc β 1-3Gal β 1-4Glc β -Sp10
132	Gal β 1-3GlcNAc β -Sp0
133	Gal β 1-3GlcNAc β -Sp8
134	Gal β 1-4(Fuc α 1-3)GlcNAc β -Sp0
135	Gal β 1-4(Fuc α 1-3)GlcNAc β -Sp8
136	Gal β 1-4(Fuc α 1-3)GlcNAc β 1-4Gal β 1-4(Fuc α 1-3)GlcNAc β -Sp0
137	Gal β 1-4(Fuc α 1-3)GlcNAc β 1-4Gal β 1-4(Fuc α 1-3)GlcNAc β 1-4Gal β 1-4(Fuc α 1-3)GlcNAc β -Sp0
138	Gal β 1-4[6OSO3]Glc β -Sp0
139	Gal β 1-4[6OSO3]Glc β -Sp8
140	Gal β 1-4GalNAc α 1-3(Fuc α 1-2)Gal β 1-4GlcNAc β -Sp8
141	Gal β 1-4GalNAc β 1-3(Fuc α 1-2)Gal β 1-4GlcNAc β -Sp8
142	Neu5Ac α 2-3Gal β 1-4GlcNAc β 1-2Man α 1-3(Neu5Ac α 2-3Gal β 1-4GlcNAc β 1-2Man α 1-6)Man β 1-4GlcNAc β 1-4GlcNAc β -Sp12
143	Gal β 1-4GlcNAc β 1-3GalNAc α -Sp8
144	Gal β 1-4GlcNAc β 1-3Gal β 1-4(Fuc α 1-3)GlcNAc β 1-3Gal β 1-4(Fuc α 1-3)GlcNAc β -Sp0
145	Gal β 1-4GlcNAc β 1-3Gal β 1-4GlcNAc β 1-3Gal β 1-4GlcNAc β -Sp0

146	Galβ1-4GlcNAcβ1-3Galβ1-4GlcNAcβ-Sp0
147	Galβ1-4GlcNAcβ1-3Galβ1-4Glcβ-Sp0
148	Galβ1-4GlcNAcβ1-3Galβ1-4Glcβ-Sp8
149	Galβ1-4GlcNAcβ1-6(Galβ1-3)GalNAcα-Sp8
150	Galβ1-4GlcNAcβ1-6GalNAcα-Sp8
151	Galβ1-4GlcNAcβ-Sp0
152	Galβ1-4GlcNAcβ-Sp8
153	Galβ1-4Glcβ-Sp0
154	Galβ1-4Glcβ-Sp8
155	GlcNAcα1-3Galβ1-4GlcNAcβ-Sp8
156	GlcNAcα1-6Galβ1-4GlcNAcβ-Sp8
157	GlcNAcβ1-2Galβ1-3GalNAcα-Sp8
158	GlcNAcβ1-3(GlcNAcβ1-6)GalNAcα-Sp8
159	GlcNAcβ1-3(GlcNAcβ1-6)Galβ1-4GlcNAcβ-Sp8
160	GlcNAcβ1-3GalNAcα-Sp8
161	GlcNAcβ1-3Galβ-Sp8
162	GlcNAcβ1-3Galβ1-3GalNAcα-Sp8
163	GlcNAcβ1-3Galβ1-4GlcNAcβ-Sp0
164	GlcNAcβ1-3Galβ1-4GlcNAcβ-Sp8
165	GlcNAcβ1-3Galβ1-4GlcNAcβ1-3Galβ1-4GlcNAcβ-Sp0
166	GlcNAcβ1-3Galβ1-4Glcβ-Sp0
167	GlcNAcβ1-4-MDPLys
168	GlcNAcβ1-4(GlcNAcβ1-6)GalNAcα-Sp8
169	GlcNAcβ1-4Galβ1-4GlcNAcβ-Sp8
170	(GlcNAcβ1-4)6β-Sp8
171	(GlcNAcβ1-4)5β-Sp8
172	GlcNAcβ1-4GlcNAcβ1-4GlcNAcβ-Sp8
173	GlcNAcβ1-6(Galβ1-3)GalNAcα-Sp8
174	GlcNAcβ1-6GalNAcα-Sp8
175	GlcNAcβ1-6Galβ1-4GlcNAcβ-Sp8
176	Glcα1-4Glcβ-Sp8
177	Glcα1-4Glcα-Sp8
178	Glcα1-6Glcα1-6Glcβ-Sp8
179	Glcβ1-4Glcβ-Sp8
180	Glcβ1-6Glcβ-Sp8
181	G-ol-Sp8
182	GlcAa-Sp8
183	GlcAβ-Sp8
184	GlcAβ1-3Galβ-Sp8
185	GlcAβ1-6Galβ-Sp8
186	KDNa2-3Galβ1-3GlcNAcβ-Sp0
187	KDNa2-3Galβ1-4GlcNAcβ-Sp0
188	Manα1-2Manα1-2Manα1-3Manα-Sp9
189	Manα1-2Manα1-3(Manα1-2Manα1-6)Manα-Sp9
190	Manα1-2Manα1-3Manα-Sp9
191	Manα1-6(Manα1-2Manα1-3)Manα1-6(Manα1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp12
192	Manα1-2Manα1-6(Manα1-3)Manα1-6(Manα1-2Manα1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp12
193	Manα1-2Manα1-2Manα1-3(Manα1-2Manα1-3(Manα1-2Manα1-6)Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp12
194	Manα1-3(Manα1-6)Manα-Sp9
195	Manα1-3(Manα1-2Manα1-2Manα1-6)Manα-Sp9
196	Manα1-6(Manα1-3)Manα1-6(Manα1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp12
197	Manα1-6(Manα1-3)Manα1-6(Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp12

198	Neu5Ac α 2-6Gal β 1-4GlcNAc β 1-2Man α 1-3(Neu5Ac α 2-3Gal β 1-4GlcNAc β 1-2Man α 1-6)Man β 1-4GlcNAc β 1-4GlcNAc β -Sp12
199	Man β 1-4GlcNAc β -Sp0
200	Fuc α 1-3(Gal β 1-4)GlcNAc β 1-2Man α 1-3(Fuc α 1-3(Gal β 1-4)GlcNAc β 1-2Man α 1-6)Man β 1-4GlcNAc β 1-4GlcNAc β -Sp20
201	Neu5Ac α 2-3Gal β 1-3GalNAc α -Sp8
202	Neu5Ac α 2-8Neu5Ac α 2-8Neu5Ac α 2-8Neu5Ac α 2-3(GalNAc β 1-4)Gal β 1-4Glc β -Sp0
203	Neu5Ac α 2-8Neu5Ac α 2-8Neu5Ac α 2-3(GalNAc β 1-4)Gal β 1-4Glc β -Sp0
204	Neu5Ac α 2-8Neu5Ac α 2-8Neu5Ac α 2-3Gal β 1-4Glc β -Sp0
205	Neu5Ac α 2-8Neu5Ac α 2-3(GalNAc β 1-4)Gal β 1-4Glc β -Sp0
206	Neu5Ac α 2-8Neu5Ac α 2-8Neu5Aca-Sp8
207	Neu5Ac α 2-3(6-O-Su)Gal β 1-4(Fuc α 1-3)GlcNAc β -Sp8
208	Neu5Ac α 2-3(GalNAc β 1-4)Gal β 1-4GlcNAc β -Sp0
209	Neu5Ac α 2-3(GalNAc β 1-4)Gal β 1-4GlcNAc β -Sp8
210	Neu5Ac α 2-3(GalNAc β 1-4)Gal β 1-4Glc β -Sp0
211	Neu5Ac α 2-3(Neu5Ac α 2-3Gal β 1-3GalNAc β 1-4)Gal β 1-4Glc β -Sp0
212	Neu5Ac α 2-3(Neu5Ac α 2-6)GalNAc α -Sp8
213	Neu5Ac α 2-3GalNAc α -Sp8
214	Neu5Ac α 2-3GalNAc β 1-4GlcNAc β -Sp0
215	Neu5Ac α 2-3Gal β 1-3[6OSO3]GlcNAc-Sp8
216	Neu5Ac α 2-3Gal β 1-3(Fuc α 1-4)GlcNAc β -Sp8
217	Neu5Ac α 2-3Gal β 1-3(Fuc α 1-4)GlcNAc β 1-3Gal β 1-4(Fuc α 1-3)GlcNAc β -Sp0
218	Neu5Ac α 2-3Gal β 1-3(Neu5Ac α 2-3Gal β 1-4)GlcNAc β -Sp8
219	Neu5Ac α 2-3Gal β 1-3[6OSO3]GalNAc α -Sp8
220	Neu5Ac α 2-3Gal β 1-3(Neu5Ac α 2-6)GalNAc α -Sp8
221	Neu5Ac α 2-3Gal β -Sp8
222	Neu5Ac α 2-3Gal β 1-3GalNAc β 1-3Gal α 1-4Gal β 1-4Glc β -Sp0
223	Neu5Ac α 2-3Gal β 1-3GlcNAc β 1-3Gal β 1-4GlcNAc β -Sp0
224	Neu5Ac α 2-3Gal β 1-3GlcNAc β -Sp0
225	Neu5Ac α 2-3Gal β 1-3GlcNAc β -Sp8
226	Neu5Ac α 2-3Gal β 1-4[6OSO3]GlcNAc β -Sp8
227	Neu5Ac α 2-3Gal β 1-4(Fuc α 1-3)[6OSO3]GlcNAc β -Sp8
228	Neu5Ac α 2-3Gal β 1-4(Fuc α 1-3)GlcNAc β 1-3Gal β 1-4(Fuc α 1-3)GlcNAc β 1-3Gal β 1-4(Fuc α 1-3)GlcNAc β -Sp0
229	Neu5Ac α 2-3Gal β 1-4(Fuc α 1-3)GlcNAc β -Sp0
230	Neu5Ac α 2-3Gal β 1-4(Fuc α 1-3)GlcNAc β -Sp8
231	Neu5Ac α 2-3Gal β 1-4(Fuc α 1-3)GlcNAc β 1-3Gal β -Sp8
232	Neu5Ac α 2-3Gal β 1-4(Fuc α 1-3)GlcNAc β 1-3Gal β 1-4GlcNAc β -Sp8
233	Neu5Ac α 2-3Gal β 1-4GlcNAc β 1-3Gal β 1-4(Fuc α 1-3)GlcNAc-Sp0
234	Neu5Ac α 2-3Gal β 1-4GlcNAc β 1-3Gal β 1-4GlcNAc β 1-3Gal β 1-4GlcNAc β -Sp0
235	Neu5Ac α 2-3Gal β 1-4GlcNAc β -Sp0
236	Neu5Ac α 2-3Gal β 1-4GlcNAc β -Sp8
237	Neu5Ac α 2-3Gal β 1-4GlcNAc β 1-3Gal β 1-4GlcNAc β -Sp0
238	Neu5Ac α 2-3Gal β 1-4Glc β -Sp0
239	Neu5Ac α 2-3Gal β 1-4Glc β -Sp8
240	Neu5Ac α 2-6GalNAc α -Sp8
241	Neu5Ac α 2-6GalNAc β 1-4GlcNAc β -Sp0
242	Neu5Ac α 2-6Gal β 1-4[6OSO3]GlcNAc β -Sp8
243	Neu5Ac α 2-6Gal β 1-4GlcNAc β -Sp0
244	Neu5Ac α 2-6Gal β 1-4GlcNAc β -Sp8
245	Neu5Ac α 2-6Gal β 1-4GlcNAc β 1-3Gal β 1-4(Fuc α 1-3)GlcNAc β 1-3Gal β 1-4(Fuc α 1-3)GlcNAc β -Sp0
246	Neu5Ac α 2-6Gal β 1-4GlcNAc β 1-3Gal β 1-4GlcNAc β -Sp0
247	Neu5Ac α 2-6Gal β 1-4Glc β -Sp0
248	Neu5Ac α 2-6Gal β 1-4Glc β -Sp8
249	Neu5Ac α 2-6Gal β -Sp8

250	Neu5Ac α 2-8Neu5Ac-Sp8
251	Neu5Ac α 2Ac α 2-8Neu5Ac α 2-3Gal β 1-4Glc β -Sp0
252	Neu5Ac β 2-6GalNAc α -Sp8
253	Neu5Ac β 2-6Gal β 1-4GlcNAc β -Sp8
254	Neu5Gca2-3Gal β 1-3(Fuc α 1-4)GlcNAc β -Sp0
255	Neu5Gca2-3Gal β 1-3GlcNAc β -Sp0
256	Neu5Gca2-3Gal β 1-4(Fuc α 1-3)GlcNAc β -Sp0
257	Neu5Gca2-3Gal β 1-4GlcNAc β -Sp0
258	Neu5Gca2-3Gal β 1-4Glc β -Sp0
259	Neu5Gca2-6GalNAc α -Sp0
260	Neu5Gca2-6Gal β 1-4GlcNAc β -Sp0
261	Neu5Gca-Sp8
262	[3OSO3]Gal β 1-4(Fuc α 1-3)[6OSO3]Glc-Sp0
263	[3OSO3]Gal β 1-4(Fuc α 1-3)Glc-Sp0
264	[3OSO3]Gal β 1-4(Fuc α 1-3)[6OSO3]GlcNAc-Sp8
265	[3OSO3]Gal β 1-4(Fuc α 1-3)GlcNAc-Sp0
266	Fuc α 1-2[6OSO3]Gal β 1-4GlcNAc-Sp0
267	Fuc α 1-2Gal β 1-4[6OSO3]GlcNAc-Sp8
268	Fuc α 1-2[6OSO3]Gal β 1-4[6OSO3]Glc-Sp0
269	Fuc α 1-2[6OSO3]Gal β 1-4Glc-Sp0
270	Fuc α 1-2Gal β 1-4[6OSO3]Glc-Sp0
271	Gal β 1-3(Fuc α 1-4)GlcNAc β 1-3Gal β 1-3(Fuc α 1-4)GlcNAc β -Sp0
272	Gal β 1-3(Gal β 1-4GlcNAc β 1-6)GalNAc-Sp14
273	Gal β 1-3(GlcNAc β 1-6)GalNAc-Sp14
274	Gal β 1-3(Neu5Ac α 2-3Gal β 1-4GlcNAc β 1-6)GalNAc α -Sp14
275	Gal β 1-3GalNAc α -Sp14
276	Gal β 1-3GlcNAc β 1-3Gal β 1-3GlcNAc β -Sp0
277	Gal β 1-4(Fuc α 1-3)[6OSO3]GlcNAc-Sp0
278	Gal β 1-4(Fuc α 1-3)[6OSO3]Glc-Sp0
279	Gal β 1-4(Fuc α 1-3)GlcNAc β 1-3Gal β 1-3(Fuc α 1-4)GlcNAc β -Sp0
280	Gal β 1-4GlcNAc β 1-3Gal β 1-3GlcNAc β -Sp0
281	Neu5Ac α 2-3Gal β 1-3GlcNAc β 1-3Gal β 1-3GlcNAc β -Sp0
282	Neu5Ac α 2-3Gal β 1-4GlcNAc β 1-3Gal β 1-3GlcNAc β -Sp0
283	[3OSO3]Gal β 1-4[6OSO3]GlcNAc β -Sp0
284	[3OSO3][4OSO3]Gal β 1-4GlcNAc β -Sp0
285	[6OSO3]Gal β 1-4[6OSO3]GlcNAc β -Sp0
286	6-H ₂ PO ₃ Glc β -Sp10
287	Gal α 1-3(Fuc α 1-2)Gal β -Sp18
288	Gal α 1-3GalNAc α -Sp16
289	Gal β 1-3GalNAc α -Sp16
290	Gal β 1-3(Neu5Ac α 2-3Gal β 1-4(Fuc α 1-3)GlcNAc β 1-6)GalNAc α -Sp14
291	Gal β 1-3Gal β 1-4GlcNAc β -Sp8
292	Gal β 1-4GlcNAc β 1-2Man α 1-3(Neu5Ac α 2-6Gal β 1-4GlcNAc β 1-2Man α 1-6)Man β 1-4GlcNAc β 1-4GlcNAc β -Sp12
293	Gal β 1-4GlcNAc β 1-3(Gal β 1-4GlcNAc β 1-6)Gal β 1-4GlcNAc-Sp0
294	Gal β 1-4GlcNAc β 1-3(GlcNAc β 1-6)Gal β 1-4GlcNAc-Sp0
295	Gal β 1-4GlcNAc α 1-6Gal β 1-4GlcNAc β -Sp0
296	Gal β 1-4GlcNAc β 1-6Gal β 1-4GlcNAc β -Sp0
297	GalNAc α 1-3(Fuc α 1-2)Gal β -Sp18
298	GalNAc α -Sp15
299	GalNAc β 1-3Gal β -Sp8
300	GlcA β 1-3GlcNAc β -Sp8
301	GlcNAc β 1-2Man α 1-3(Neu5Ac α 2-6Gal β 1-4GlcNAc β 1-2Man α 1-6)Man β 1-4GlcNAc β 1-4GlcNAc β -Sp12
302	GlcNAc β 1-2Man α 1-3(GlcNAc β 1-2Man α 1-6)Man β 1-4GlcNAc β 1-4GlcNAc β -Sp12

303	GlcNAc β 1-3Man-Sp10
304	GlcNAc β 1-4GlcNAc β -Sp10
305	GlcNAc β 1-4GlcNAc β -Sp12
306	HOOC(CH ₃)CH-3-O-GlcNAc β 1-4GlcNAc β -Sp10
307	Man α 1-3(Man α 1-6)Man β 1-4GlcNAc β 1-4GlcNAc β -Sp12
308	Man α 1-6Man β -Sp10
309	Man α 1-6(Man α 1-3)Man α 1-6(Man α 1-3)Man β -Sp10
310	Man α 1-2Man α 1-2Man α 1-3(Man α 1-2Man α 1-6(Man α 1-3)Man α 1-6)Man α -Sp9
311	Man α 1-2Man α 1-2Man α 1-3(Man α 1-2Man α 1-6(Man α 1-2Man α 1-3)Man α 1-6)Man α -Sp9
312	Neu5Ac α 2-3Gal β 1-3(Neu5Ac α 2-3Gal β 1-4GlcNAc β 1-6)GalNAc α -Sp14
313	Neu5Ac α 2-3Gal β 1-3(Neu5Ac α 2-6)GalNAc α -Sp14
314	Neu5Ac α 2-3Gal β 1-3GalNAc α -Sp14
315	Neu5Ac α 2-3Gal β 1-4GlcNAc β 1-2Man α 1-3(Neu5Ac α 2-6Gal β 1-4GlcNAc β 1-2Man α 1-6)Man β 1-4GlcNAc β 1-4GlcNAc β -Sp12
316	Neu5Ac α 2-6Gal β 1-4GlcNAc β 1-2Man α 1-3(Gal β 1-4GlcNAc β 1-2Man α 1-6)Man β 1-4GlcNAc β 1-4GlcNAc β -Sp12
317	Neu5Ac α 2-6Gal β 1-4GlcNAc β 1-2Man α 1-3(GlcNAc β 1-2Man α 1-6)Man β 1-4GlcNAc β 1-4GlcNAc β -Sp12
318	Neu5Ac α 2-6Gal β 1-4GlcNAc β 1-2Man α 1-3(Neu5Ac α 2-6Gal β 1-4GlcNAc β 1-2Man α 1-6)Man β 1-4GlcNAc β 1-4GlcNAc β -N(LT)AVL
319	Fuc α 1-2Gal β 1-3GalNAc α -Sp14
320	Gal β 1-3(Neu5Ac α 2-6)GalNAc α -Sp14
321	Gal β 1-4GlcNAc β 1-3GalNAc α -Sp14
322	Neu5Ac(9Ac)a2-3Gal β 1-4GlcNAc β -Sp0
323	Neu5Ac(9Ac)a2-3Gal β 1-3GlcNAc β -Sp0
324	Neu5Ac α 2-6Gal β 1-4GlcNAc β 1-3Gal β 1-3GlcNAc β -Sp0
325	Neu5Ac α 2-3Gal β 1-3(Fuc α 1-4)GlcNAc β 1-3Gal β 1-3(Fuc α 1-4)GlcNAc β -Sp0
326	Neu5Ac α 2-6Gal β 1-4GlcNAc β 1-3Gal β 1-4GlcNAc β 1-3Gal β 1-4GlcNAc β -Sp0
327	Gal α 1-4Gal β 1-4GlcNAc β 1-3Gal β 1-4Glc β -Sp0
328	GalNAc β 1-3Gal α 1-4Gal β 1-4GlcNAc β 1-3Gal β 1-4Glc β -Sp0
329	GalNAc α 1-3(Fuc α 1-2)Gal β 1-4GlcNAc β 1-3Gal β 1-4GlcNAc β -Sp0
330	GalNAc α 1-3(Fuc α 1-2)Gal β 1-4GlcNAc β 1-3Gal β 1-4GlcNAc β 1-3Gal β 1-4GlcNAc β -Sp0
331	(Neu5Ac α 2-3-Gal β 1-3)(((Neu5Ac α 2-3-Gal β 1-4(Fuc α 1-3))GlcNAc β 1-6)GalNAc α -Sp14
332	GlcNAc α 1-4Gal β 1-4GlcNAc β 1-3Gal β 1-4GlcNAc β 1-3Gal β 1-4GlcNAc β -Sp0
333	GlcNAc α 1-4Gal β 1-4GlcNAc β -Sp0
334	GlcNAc α 1-4Gal β 1-3GlcNAc β -Sp0
335	GlcNAc α 1-4Gal β 1-4GlcNAc β 1-3Gal β 1-4Glc β -Sp0
336	GlcNAc α 1-4Gal β 1-4GlcNAc β 1-3Gal β 1-4(Fuc α 1-3)GlcNAc β 1-3Gal β 1-4(Fuc α 1-3)GlcNAc β -Sp0
337	GlcNAc α 1-4Gal β 1-4GlcNAc β 1-3Gal β 1-4GlcNAc β -Sp0
338	GlcNAc α 1-4Gal β 1-3GalNAc α -Sp14
339	Man α 1-3(Neu5Ac α 2-6Gal β 1-4GlcNAc β 1-2Man α 1-6)Man β 1-4GlcNAc β 1-4GlcNAc β -Sp12
340	Neu5Ac α 2-6Gal β 1-4GlcNAc β 1-2Man α 1-3(Man α 1-6)Man β 1-4GlcNAc β 1-4GlcNAc β -Sp12
341	Neu5Ac α 2-6Gal β 1-4GlcNAc β 1-2Man α 1-6Man β 1-4GlcNAc β 1-4GlcNAc β -Sp12
342	Neu5Ac α 2-6Gal β 1-4GlcNAc β 1-2Man α 1-3Man β 1-4GlcNAc β 1-4GlcNAc β -Sp12
343	Gal β 1-4GlcNAc β 1-2Man α 1-3Man β 1-4GlcNAc β 1-4GlcNAc β -Sp12
344	Gal β 1-4GlcNAc β 1-2Man α 1-6Man β 1-4GlcNAc β 1-4GlcNAc β -Sp12
345	Gal β 1-4GlcNAc β 1-2Man α 1-3(Man α 1-6)Man β 1-4GlcNAc β 1-4GlcNAc β -Sp12
346	GlcNAc β 1-2Man α 1-3(GlcNAc β 1-2Man α 1-6)Man β 1-4GlcNAc β 1-4(Fuc α 1-6)GlcNAc β -Sp22
347	Gal β 1-4GlcNAc β 1-2Man α 1-3(Gal β 1-4GlcNAc β 1-2Man α 1-6)Man β 1-4GlcNAc β 1-4(Fuc α 1-6)GlcNAc β -Sp22
348	Gal β 1-3GlcNAc β 1-2Man α 1-3(Gal β 1-3GlcNAc β 1-2Man α 1-6)Man β 1-4GlcNAc β 1-4(Fuc α 1-6)GlcNAc β -Sp22
349	Gal β 1-3(Fuc α 1-4)GlcNAc β 1-2Man α 1-3(Gal β 1-3(Fuc α 1-4)GlcNAc β 1-2Man α 1-6)Man β 1-4GlcNAc β 1-4GlcNAc β -Sp19
350	[6OSO ₃]GlcNAc β 1-3Gal β 1-4GlcNAc β -Sp0

351	KDNa2-3Galβ1-4(Fucα1-3)GlcNAc-Sp0
352	KDNa2-6Galβ1-4GlcNAc-Sp0
353	KDNa2-3Galβ1-4Glc-Sp0
354	KDNa2-3Galβ1-3GalNAcα-Sp14
355	Fucα1-2Galβ1-3GlcNAcβ1-2Manα1-3(Fucα1-2Galβ1-3GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp20
356	Fucα1-2Galβ1-4GlcNAcβ1-2Manα1-3(Fucα1-2Galβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp20
357	Fucα1-2Galβ1-4(Fucα1-3)GlcNAcβ1-2Manα1-3(Fucα1-2Galβ1-4(Fucα1-3)GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp20
358	Galα1-3Galβ1-4GlcNAcβ1-2Manα1-3(Galα1-3Galβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp20
359	Manα1-3(Galβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp12
360	Galβ1-3(Fucα1-4)GlcNAcβ1-2Manα1-3(Galβ1-3(Fucα1-4)GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4(Fucα1-6)GlcNAcβ-Sp22
361	Neu5Acα2-6GlcNAcβ1-4GlcNAc-Sp21
362	Neu5Acα2-6GlcNAcβ1-4GlcNAcβ1-4GlcNAc-Sp21
363	Fucα1-2Galβ1-3GlcNAcβ1-3(Galβ1-4(Fucα1-3)GlcNAcβ1-6)Galβ1-4Glc-Sp21
364	Galβ1-4GlcNAcβ1-2(Galβ1-4GlcNAcβ1-4)Manα1-3(Galβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAc-Sp21
365	GalNAcα1-3(Fucα1-2)Galβ1-4GlcNAcβ1-2Manα1-3(GalNAcα1-3(Fucα1-2)Galβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp20
366	Galα1-3(Fucα1-2)Galβ1-4GlcNAcβ1-2Manα1-3(Galα1-3(Fucα1-2)Galβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp20
367	Galα1-3Galβ1-4(Fucα1-3)GlcNAcβ1-2Manα1-3(Galα1-3Galβ1-4(Fucα1-3)GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp20
368	GalNAcα1-3(Fucα1-2)Galβ1-3GlcNAcβ1-2Manα1-3(GalNAcα1-3(Fucα1-2)Galβ1-3GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp20
369	Galα1-3(Fucα1-2)Galβ1-3GlcNAcβ1-2Manα1-3(Galα1-3(Fucα1-2)Galβ1-3GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp20
370	Fucα1-2Galβ1-3(Fucα1-4)GlcNAcβ1-2Manα1-3(Fucα1-2Galβ1-3(Fucα1-4)GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp19
371	NeuAcα2-3Galβ1-4GlcNAcβ1-3GalNAc-Sp14
372	NeuAcα2-6Galβ1-4GlcNAcβ1-3GalNAc-Sp14
373	Neu5Acα2-3Galβ1-4(Fucα1-3)GlcNAcβ1-3GalNAcα-Sp14
374	GalNAcβ1-4GlcNAcβ1-2Manα1-6(GalNAcβ1-4GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAc-Sp12
375	Galβ1-3GalNAcα1-3(Fucα1-2)Galβ1-4Glc-Sp14
376	Galβ1-3GalNAcα1-3(Fucα1-2)Galβ1-4GlcNAc-Sp14
377	GlcNAcβ1-3GalNAcα-Sp14
378	GlcNAcβ1-6GalNAcα-Sp14
379	Galβ1-3GlcNAcβ1-3(Galβ1-3GlcNAcβ1-3Galβ1-4GlcNAcβ1-6)Galβ1-4Glcβ-Sp0
380	Galβ1-3GlcNAcβ1-3(Galβ1-4(Fucα1-3)GlcNAcβ1-6)Galβ1-4Glc-Sp21
381	Fucα1-2Galβ1-3(Fucα1-4)GlcNAcβ1-3(Galβ1-4GlcNAcβ1-6)Galβ1-4Glc-Sp21
382	Fucα1-2Galβ1-3(Fucα1-4)GlcNAcβ1-3(Galβ1-4(Fucα1-3)GlcNAcβ1-6)Galβ1-4Glc-Sp21
383	Galβ1-3GlcNAcβ1-3(Galβ1-3GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ1-6)Galβ1-4Glc-Sp21
384	Galβ1-4GlcNAcβ1-2(Galβ1-4GlcNAcβ1-4)Manα1-3(Galβ1-4GlcNAcβ1-2(Galβ1-4GlcNAcβ1-6)Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAcβ-Sp21
385	GlcNAcβ1-2(GlcNAcβ1-4)Manα1-3(GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAc-Sp21
386	Fucα1-2Galβ1-3GalNAcα1-3(Fucα1-2)Galβ1-4Glcβ-Sp0
387	Fucα1-2Galβ1-3GalNAcα1-3(Fucα1-2)Galβ1-4GlcNAcβ-Sp0
388	Galβ1-3GlcNAcβ1-3GalNAcα-Sp14
389	Neu5Acα2-3(GalNAcβ1-4)Galβ1-4GlcNAcβ1-3GalNAcα-Sp14
390	GalNAcα1-3(Fucα1-2)Galβ1-3GalNAcα1-3(Fucα1-2)Galβ1-4GlcNAcβ-Sp0
391	Galα1-3Galβ1-3GlcNAcβ1-2Manα1-3(Galα1-3Galβ1-3GlcNAcβ1-2Manα1-6)Manβ1-4GlcNAcβ1-4GlcNAc-Sp19

392	Gal α 1-3Gal β 1-3(Fuc α 1-4)GlcNAc β 1-2Man α 1-3(Gal α 1-3Gal β 1-3(Fuc α 1-4)GlcNAc β 1-2Man α 1-6)Man β 1-4GlcNAc β 1-4GlcNAc-Sp19
393	Neu5Ac α 2-3Gal β 1-3GlcNAc β 1-2Man α 1-3(Neu5Ac α 2-3Gal β 1-3GlcNAc β 1-2Man α 1-6)Man β 1-4GlcNAc β 1-4GlcNAc-Sp19
394	Gal β 1-4GlcNAc β 1-2Man α 1-3(GlcNAc β 1-2Man α 1-6)Man β 1-4GlcNAc β 1-4GlcNAc-Sp12
395	GlcNAc β 1-2Man α 1-3(Gal β 1-4GlcNAc β 1-2Man α 1-6)Man β 1-4GlcNAc β 1-4GlcNAc-Sp12
396	Neu5Ac α 2-3Gal β 1-3GlcNAc β 1-3GalNaca-Sp14
397	Fuc α 1-2Gal β 1-4GlcNAc β 1-3GalNaca-Sp14
398	Gal β 1-4(Fuc α 1-3)GlcNAc β 1-3GalNaca-Sp14
399	GalNaca1-3GalNac β 1-3Gal α 1-4Gal β 1-4GlcNAc β -Sp0
400	Gal α 1-4Gal β 1-3GlcNAc β 1-2Man α 1-3(Gal α 1-4Gal β 1-3GlcNAc β 1-2Man α 1-6)Man β 1-4GlcNAc β 1-4GlcNAc β -Sp19
401	Gal α 1-4Gal β 1-4GlcNAc β 1-2Man α 1-3(Gal α 1-4Gal β 1-4GlcNAc β 1-2Man α 1-6)Man β 1-4GlcNAc β 1-4GlcNAc β -LVaNKT
402	Gal α 1-3Gal β 1-4GlcNAc β 1-3GalNaca-Sp14
403	Gal β 1-3GlcNAc β 1-6Gal β 1-4GlcNAc β -Sp0
404	Gal β 1-3GlcNAc α 1-6Gal β 1-4GlcNAc β -Sp0
405	GalNac β 1-3Gal α 1-6Gal β 1-4Glc β -Sp8
406	GlcNAc β 1-6(GlcNAc β 1-3)GalNac α -Sp14