

A1: Glycan array data for S1 of TCoV, GfCoV and QCoV (CFG V 5.2) and the lectins ECA and PHA (CFG V 5.0)

Chart Number	Structure on Masterlist	TCoV S1 100ug 5.2		GfCoV S1 100ug 5.2		QCoV S1 100ug 5.2		PHA 10ug 5.0		ECA 50ug 5.0	
		Average RFU	StDev	Average RFU	StDev	Average RFU	StDev	Average RFU	StDev	Average RFU	StDev
1	Gala-Sp8	-53	49	23	15	296	196	311	113	18	20
2	Glca-Sp8	14	132	2	4	-269	106	318	187	9	16
3	Mana-Sp8	-18	41	14	20	87	51	387	108	9	16
4	GalNAca-Sp8	19	33	4	9	23	24	177	106	-2	9
5	GalNAca-Sp15	-16	13	1	5	91	83	1832	2241	8	10
6	Fuca-Sp8	-37	40	25	32	82	55	-45	148	-1	9
7	Fuca-Sp9	-154	26	41	33	215	69	378	521	-15	9
8	Rhaa-Sp8	17	46	3	23	1432	1945	199	204	7	14
9	Neu5Aca-Sp8	-76	33	87	90	213	140	1026	795	-17	7
10	Neu5Aca-Sp11	-82	28	5	5	433	153	427	372	-9	12
11	Neu5Acb-Sp8	1785	2617	18273	1198	963	1085	141	71	-19	20
12	Galb-Sp8	22	61	11	9	1929	1221	132	147	14	13
13	Glc-Sp8	49	60	-1	5	-111	21	281	195	15	12
14	Manb-Sp8	-10	11	19	27	-46	43	438	306	2	14
15	GalNAcb-Sp8	-2	49	13	10	34	107	275	249	30	48
16	GlcNAcb-Sp0	-32	56	62	74	-65	93	252	199	-18	15
17	GlcNAcb-Sp8	-6	51	16	24	-79	50	125	139	12	13
18	GlcN(Gc)b-Sp8	-142	52	109	57	-22	51	203	164	6	13
19	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3)GalNAca-Sp8	50	59	17	22	808	988	208	201	11222	1082
20	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3)GalNAc-Sp14	-18	25	19	21	-33	51	149	156	2993	349
21	GlcNAcb1-6(GlcNAcb1-4)(GlcNAcb1-3)GlcNAc-Sp8	176	126	46	65	-82	85	236	364	2	9
22	6S(3S)Galb1-4(6S)GlcNAcb-Sp0	11	28	18	36	5	30	180	56	-59	14
23	6S(3S)Galb1-4GlcNAcb-Sp0	50	28	39	30	91	149	68	138	-11	11
24	(3S)Galb1-4(Fuca1-3)(6S)Glc-Sp0	2	27	27	29	27	8	364	97	92	38
25	(3S)Galb1-4Glc-Sp8	-51	46	1	1	54	14	253	108	16	13
26	(3S)Galb1-4(6S)Glc-Sp0	115	105	7	21	-69	43	115	56	-8	5
27	(3S)Galb1-4(6S)Glc-Sp8	-12	17	-6	1	11	47	160	82	4	16
28	(3S)Galb1-3(Fuca1-4)GlcNAcb-Sp8	58	36	18	9	-64	146	113	184	-2	17
29	(3S)Galb1-3GalNAca-Sp8	-4	43	-3	5	-132	123	2832	3652	-17	6
30	(3S)Galb1-3GlcNAcb-Sp0	0	38	-3	9	26	35	-35	36	-14	13
31	(3S)Galb1-3GlcNAcb-Sp8	-34	62	22	20	191	7	234	97	-29	9
32	(3S)Galb1-4(Fuca1-3)GlcNAc-Sp0	42	59	2	3	-70	32	290	247	-2	8
33	(3S)Galb1-4(Fuca1-3)GlcNAc-Sp8	-118	148	10	8	373	438	3870	4174	-23	18
34	(3S)Galb1-4(6S)GlcNAcb-Sp0	-153	63	90	145	680	211	162	278	-7	9
35	(3S)Galb1-4(6S)GlcNAcb-Sp8	-42	28	17	20	201	50	149	218	-20	9
36	(3S)Galb1-4GlcNAcb-Sp0	10	47	45	55	579	504	99	199	15	7
37	(3S)Galb1-4GlcNAcb-Sp8	16	53	2	2	37	47	185	188	-5	3
38	(3S)Galb-Sp8	25	102	71	85	6	9	68	51	1	8
39	(6S)(4S)Galb1-4GlcNAcb-Sp0	18	22	5	7	-133	78	49	33	-18	11
40	(4S)Galb1-4GlcNAcb-Sp8	68	40	7	11	-65	52	172	147	-25	4
41	(6P)Mana-Sp8	49	31	57	49	15	62	82	39	4	8
42	(6S)Galb1-4Glc-Sp0	77	88	66	37	-36	39	88	34	-8	6
43	(6S)Galb1-4Glc-Sp8	60	53	1	15	217	195	104	104	16	28
44	(6S)Galb1-4GlcNAcb-Sp8	29	64	73	50	131	230	92	121	-25	13
45	(6S)Galb1-4(6S)Glc-Sp8	53	33	34	23	-339	111	101	90	9	28
46	Neu5Aca2-3(6S)Galb1-4GlcNAcb-Sp8	8	13	104	57	-175	15	89	44	-12	4
47	(6S)GlcNAcb-Sp8	-208	69	13	13	-21	13	68	18	23	30
48	Neu5,9Ac2a-Sp8	26	35	24	17	-28	59	218	54	-17	12
49	Neu5,9Ac2a2-6Galb1-4GlcNAcb-Sp8	6	31	-4	14	0	40	2	29	-9	5
50	Mana1-6(Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	72	70	-3	4	-39	37	186	96	10	8
51	Mana1-6(Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp13	-1	43	17	35	27	44	452	514	4	18
52	GlcNAcb1-2Mana1-6(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	22	30	12	17	-175	83	237	68	1	14
53	GlcNAcb1-2Mana1-6(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp13	-16	28	15	13	27	32	416	267	-16	5
54	Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	39	49	1	9	-102	74	582	180	10661	675
55	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	28	26	5	19	-34	35	38	26	-1	5
56	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Man-a1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21	-49	49	112	127	244	190	22	6	247	19
57	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp24	-62	52	145	244	-99	54	1410	841	-13	3
58	Fuca1-2Galb1-3GalNAcb1-3Gala-Sp9	36	40	19	13	307	119	253	142	20	16
59	Fuca1-2Galb1-3GalNAcb1-3Gala1-4Galb1-4Glc-Sp9	-50	45	78	83	2	40	77	140	6	4
60	Fuca1-2Galb1-3(Fuca1-4)GlcNAcb-Sp8	56	110	-6	6	-3	12	169	105	-2	9
61	Fuca1-2Galb1-3GalNAca-Sp8	-3	25	18	33	53	18	64	49	-2	5
62	Fuca1-2Galb1-3GalNAca-Sp14	33	79	25	26	-20	23	48	44	11	13
63	Fuca1-2Galb1-3GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc-Sp0	13	28	19	41	-1	29	98	59	-20	4
64	Fuca1-2Galb1-3GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc-Sp9	2	31	100	128	41	48	42	31	7	10
65	Fuca1-2Galb1-3GlcNAcb1-3Galb1-4Glc-Sp8	-23	75	101	87	44	20	25	23	-8	14
66	Fuca1-2Galb1-3GlcNAcb1-3Galb1-4Glc-Sp10	-1	60	43	13	28	99	108	67	28	34
67	Fuca1-2Galb1-3GlcNAcb-Sp0	13	26	273	153	32	31	45	37	-25	16
68	Fuca1-2Galb1-3GlcNAcb-Sp8	56	34	94	98	-74	51	6	103	16	16
69	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	-40	15	53	29	-667	222	33	23	6	11
70	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	47	64	39	30	-86	22	145	97	45	38
71	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb-Sp0	-6	53	77	30	19	26	272	44	15	49
72	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb-Sp8	-132	18	19	25	35	103	142	126	2	8
73	Fuca1-2Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	108	92	11	29	16	34	60	30	8163	495
74	Fuca1-2Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	-36	31	15	9	27	32	-46	295	8498	447
75	Fuca1-2Galb1-4GlcNAcb-Sp0	105	35	13	17	-3	25	117	57	25	6
76	Fuca1-2Galb1-4GlcNAcb-Sp8	-54	28	25	29	149	42	627	523	6283	417
77	Fuca1-2Galb1-4Glc-Sp0	42	39	-1	7	-70	74	81	24	19	10
78	Fuca1-2Galb-Sp8	0	48	47	39	25	7	68	170	43	20
79	Fuca1-3GlcNAcb-Sp8	-11	10	-3	9	16	209	11	46	9	9
80	Fuca1-4GlcNAcb-Sp8	-70	31	532	186	218	56	2665	1607	6	8
81	Fucb1-3GlcNAcb-Sp8	17	48	36	29	-23	34	111	101	3	12
82	GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb-Sp0	-79	51	31	27	229	102	-72	75	-9	8

83	GalNAca1-3(Fuca1-2)Galb1-4(Fuca1-3)GlcNAcb-Sp0
84	(3S)Galb1-4(Fuca1-3)Glc-Sp0
85	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb-Sp0
86	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb-Sp8
87	GalNAca1-3(Fuca1-2)Galb1-4Glc-Sp0
88	GlcNAcb1-3Galb1-3GalNAca-Sp8
89	GalNAca1-3(Fuca1-2)Galb-Sp8
90	GalNAca1-3(Fuca1-2)Galb-Sp18
91	GalNAca1-3GalNAcb-Sp8
92	GalNAca1-3Galb-Sp8
93	GalNAca1-4(Fuca1-2)Galb1-4GlcNAcb-Sp8
94	GalNAcb1-3GalNAca-Sp8
95	GalNAcb1-3(Fuca1-2)Galb-Sp8
96	GalNAcb1-3Gala1-4Galb1-4GlcNAcb-Sp0
97	GalNAcb1-4(Fuca1-3)GlcNAcb-Sp0
98	GalNAcb1-4GlcNAcb-Sp0
99	GalNAcb1-4GlcNAcb-Sp8
100	Gala1-2Galb-Sp8
101	Gala1-3(Fuca1-2)Galb1-3GlcNAcb-Sp0
102	Gala1-3(Fuca1-2)Galb1-3GlcNAcb-Sp8
103	Gala1-3(Fuca1-2)Galb1-4(Fuca1-3)GlcNAcb-Sp0
104	Gala1-3(Fuca1-2)Galb1-4(Fuca1-3)GlcNAcb-Sp8
105	Gala1-3(Fuca1-2)Galb1-4GlcNAc-Sp0
106	Gala1-3(Fuca1-2)Galb1-4Glc-Sp0
107	Gala1-3(Fuca1-2)Galb-Sp8
108	Gala1-3(Fuca1-2)Galb-Sp18
109	Gala1-4(Gala1-3)Galb1-4GlcNAcb-Sp8
110	Gala1-3GalNAca-Sp8
111	Gala1-3GalNAca-Sp16
112	Gala1-3GalNAcb-Sp8
113	Gala1-3Galb1-4(Fuca1-3)GlcNAcb-Sp8
114	Gala1-3Galb1-3GlcNAcb-Sp0
115	Gala1-3Galb1-4GlcNAcb-Sp8
116	Gala1-3Galb1-4Glc-Sp0
117	Gala1-3Galb1-4Glc-Sp10
118	Gala1-3Galb-Sp8
119	Gala1-4(Fuca1-2)Galb1-4GlcNAcb-Sp8
120	Gala1-4Galb1-4GlcNAcb-Sp0
121	Gala1-4Galb1-4GlcNAcb-Sp8
122	Gala1-4Galb1-4Glc-Sp0
123	Gala1-4GlcNAcb-Sp8
124	Gala1-6Glc-Sp8
125	Galb1-2Galb-Sp8
126	Galb1-3(Fuca1-4)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0
127	Galb1-3GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0
128	Galb1-3(Fuca1-4)GlcNAc-Sp0
129	Galb1-3(Fuca1-4)GlcNAc-Sp8
130	Fuca1-4(Galb1-3)GlcNAcb-Sp8
131	Galb1-4GlcNAcb1-6GalNAca-Sp8
132	Galb1-4GlcNAcb1-6GalNAc-Sp14
133	GlcNAcb1-6(Galb1-3)GalNAca-Sp8
134	GlcNAcb1-6(Galb1-3)GalNAca-Sp14
135	Neu5Aca2-6(Galb1-3)GalNAca-Sp8
136	Neu5Aca2-6(Galb1-3)GalNAca-Sp14
137	Neu5Acb2-6(Galb1-3)GalNAca-Sp8
138	Neu5Aca2-6(Galb1-3)GlcNAcb1-4Galb1-4Glc-Sp10
139	Galb1-3GalNAca-Sp8
140	Galb1-3GalNAca-Sp14
141	Galb1-3GalNAca-Sp16
142	Galb1-3GalNAcb-Sp8
143	Galb1-3GalNAcb1-3Gala1-4Galb1-4Glc-Sp0
144	Galb1-3GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc-Sp0
145	Galb1-3GalNAcb1-4Galb1-4Glc-Sp8
146	Galb1-3Galb-Sp8
147	Galb1-3GlcNAcb1-3Galb1-4GlcNAcb-Sp0
148	Galb1-3GlcNAcb1-3Galb1-4Glc-Sp10
149	Galb1-3GlcNAcb-Sp0
150	Galb1-3GlcNAcb-Sp8
151	Galb1-4(Fuca1-3)GlcNAcb-Sp0
152	Galb1-4(Fuca1-3)GlcNAcb-Sp8
153	Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0
154	Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0
155	Galb1-4(6S)Glc-Sp0
156	Galb1-4(6S)Glc-Sp8
157	Galb1-4GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb-Sp8
158	Galb1-4GalNAcb1-3(Fuca1-2)Galb1-4GlcNAcb-Sp8
159	Galb1-4GlcNAcb1-3GalNAca-Sp8
160	Galb1-4GlcNAcb1-3GalNAc-Sp14
161	Galb1-4GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0
162	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0
163	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0
164	Galb1-4GlcNAcb1-3Galb1-4Glc-Sp0
165	Galb1-4GlcNAcb1-3Galb1-4Glc-Sp8
166	Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp8
167	Galb1-4GlcNAcb1-6(Galb1-3)GalNAc-Sp14
168	Galb1-4GlcNAcb-Sp0
169	Galb1-4GlcNAcb-Sp8
170	Galb1-4GlcNAcb-Sp23
171	Galb1-4Glc-Sp0
172	Galb1-4Glc-Sp8
173	GlcNAca1-3Galb1-4GlcNAcb-Sp8

23	7	52	65	32	18
18	100	10	11	-28	18
-50	17	27	59	18	15
31	38	42	26	5	8
46	104	38	71	16	28
15	39	56	83	-20	21
-54	22	46	27	14	71
75	53	34	27	213	202
-29	30	73	63	-84	33
29	27	16	4	-9	10
44	39	39	66	-142	9
60	129	142	161	16	70
-16	35	81	70	6	18
-44	28	23	26	112	92
-29	13	100	73	266	287
28	60	12	12	31	19
245	64	10	17	32	177
-49	26	-1	2	-79	46
-144	92	18	38	-18	39
-23	23	3	4	-43	56
100	43	17	27	-5	19
-83	54	32	44	75	18
30	77	-1	5	77	154
-25	18	61	35	168	141
87	65	188	239	403	284
110	25	29	69	7	31
29	34	64	51	-1	40
134	54	12	6	-12	27
66	61	-5	8	10	31
-43	66	46	55	108	35
12	60	43	55	28	54
40	11	-4	11	-15	33
80	103	150	204	-8	28
-68	78	86	29	11	83
54	56	29	27	129	130
47	17	8	12	396	654
19	49	4	9	87	71
95	31	4	5	3	141
35	44	34	17	87	36
242	69	15	29	12	39
-6	44	5	10	40	34
-1	35	-1	5	123	103
-37	44	11	12	-78	31
37	67	10	19	9	27
-86	99	37	22	12	35
-1	41	5	24	-48	61
-51	22	49	40	-54	81
-159	73	87	162	244	108
18	17	-2	5	-35	9
-41	26	19	32	-13	28
212	140	43	45	-38	21
190	289	7	16	30	40
-1	91	86	72	45	40
30	43	197	68	79	39
62	91	24	21	53	50
233	187	59	103	92	73
-25	17	53	54	17	45
4	25	147	56	182	60
-53	22	92	61	58	46
-71	22	4	12	68	51
-5	30	39	40	34	18
61	17	18	23	105	4
194	76	-1	8	9	19
-46	53	2	2	43	51
16	89	-1	2	32	39
19	24	-2	6	-43	148
26	43	12	7	-487	114
-54	51	22	20	100	276
-8	32	8	21	-618	199
5	8	44	53	206	71
7	26	-7	7	21	159
55	51	81	85	-42	37
-28	38	47	26	-13	43
-89	51	20	24	-96	189
35	35	15	19	10	39
1	18	14	13	-19	24
-24	59	27	23	22	48
20	43	-6	1	5	17
4	63	111	92	-5	8
67	36	205	91	16	25
-19	58	-4	14	140	88
58	17	125	30	43	77
-69	35	0	8	116	18
28	41	16	18	-3	10
-7	52	749	137	121	62
156	90	23	35	44	111
-130	132	3	6	21	54
25	41	-3	7	0	60
-39	43	3	4	15	50
9	23	6	8	-17	22
11	18	-4	4	30	305

105	111	15	7
166	109	17	22
19	24	-3	7
172	93	8	11
114	34	2	13
130	59	25	21
9	48	-31	11
75	40	12	9
30	37	-25	11
214	59	14	15
84	49	-1	8
59	55	21	24
103	30	14	27
246	92	-12	5
170	77	4	15
195	187	9958	189
128	210	7398	812
136	46	6	8
91	35	12	15
532	423	2	10
177	109	27	12
140	120	2	17
50	42	12	14
115	98	19	8
149	90	7	13
152	147	10	9
174	62	46	11
83	107	5	4
249	153	-4	21
123	75	6	15
-31	92	5	7
100	28	-14	9
21	44	10	6
95	60	30	38
228	264	34	26
58	37	-2	13
30	120	11	20
174	262	11	19
39	40	0	19
160	64	5	15
240	256	-9	5
42	17	3	10
334	289	8	16
4	48	-3	8
204	295	-8	7
73	19	0	17
539	527	-12	7
88	37	-3	12
57	62	5863	646
174	103	39	37
182	217	5	11
217	131	-8	7
9	48	0	8
357	656	10	9
63	12	-24	11
93	35	-5	3
57	32	-20	3
803	798	50	13
99	87	-15	14
26	376	-1	7
34	20	2	14
-36	132	-4	9
83	27	-5	14
183	25	-4	7
34	54	6	10
167	127	0	3
122	269	-4	10
1941	1704	6	16
124	52	-1	4
108	335	29	29
1235	1575	14	11
13	25	32	19
13	26	311	42
19	16	149	9
68	34	3	7
137	84	-5	7
77	98	3434	1957
42	54	1902	460
118	97	4535	647
87	118	4876	292
96	87	9969	593
98	46	5704	901
184	285	10850	2064
-14	23	6444	474
155	102	3318	391
65	84	1712	310
166	90	5953	144
29	26	4177	679
137	102	-5	8
164	62	5	12
2293	1465	-26	9

174	GlcNAca1-6Galb1-4GlcNAcb-Sp8
175	GlcNAcb1-2Galb1-3GalNAca-Sp8
176	GlcNAcb1-6(GlcNAcb1-3)GalNAca-Sp8
177	GlcNAcb1-6(GlcNAcb1-3)GalNAca-Sp14
178	GlcNAcb1-6(GlcNAcb1-3)Galb1-4GlcNAcb-Sp8
179	GlcNAcb1-3GalNAca-Sp8
180	GlcNAcb1-3GalNAca-Sp14
181	GlcNAcb1-3Galb-Sp8
182	GlcNAcb1-3Galb1-4GlcNAcb-Sp0
183	GlcNAcb1-3Galb1-4GlcNAcb-Sp8
184	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0
185	GlcNAcb1-3Galb1-4Glc-Sp0
186	GlcNAcb1-4-MDPLys
187	GlcNAcb1-6(GlcNAcb1-4)GalNAca-Sp8
188	GlcNAcb1-4Galb1-4GlcNAcb-Sp8
189	GlcNAcb1-4GlcNAcb1-4GlcNAcb1-4GlcNAcb1-4GlcNAcb1-4GlcNAcb1-Sp8
190	GlcNAcb1-4GlcNAcb1-4GlcNAcb1-4GlcNAcb1-4GlcNAcb1-Sp8
191	GlcNAcb1-4GlcNAcb1-4GlcNAcb-Sp8
192	GlcNAcb1-6GalNAca-Sp8
193	GlcNAcb1-6GalNAca-Sp14
194	GlcNAcb1-6Galb1-4GlcNAcb-Sp8
195	Glc1-4Glc-Sp8
196	Glc1-4Glc-Sp8
197	Glc1-6Glc1-6Glc-Sp8
198	Glc1-4Glc-Sp8
199	Glc1-6Glc-Sp8
200	G-ol-Sp8
201	GlcAa-Sp8
202	GlcAb-Sp8
203	GlcAb1-3Galb-Sp8
204	GlcAb1-6Galb-Sp8
205	KDNa2-3Galb1-3GlcNAcb-Sp0
206	KDNa2-3Galb1-4GlcNAcb-Sp0
207	Mana1-2Mana1-2Mana1-3Mana-Sp9
208	Mana1-2Mana1-6(Mana1-2Mana1-3)Mana-Sp9
209	Mana1-2Mana1-3Mana-Sp9
210	Mana1-6(Mana1-2Mana1-3)Mana1-6(Mana1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12
211	Mana1-2Mana1-6(Mana1-3)Mana1-6(Mana1-2Mana1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12
212	Mana1-2Mana1-6(Mana1-2Mana1-3)Mana1-6(Mana1-2Mana1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12
213	Mana1-6(Mana1-3)Mana-Sp9
214	Mana1-2Mana1-2Mana1-6(Mana1-3)Mana-Sp9
215	Mana1-6(Mana1-3)Mana1-6(Mana1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12
216	Mana1-6(Mana1-3)Mana1-6(Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12
217	Manb1-4GlcNAcb-Sp0
218	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0
219	(3S)Galb1-4(Fuca1-3)(6S)GlcNAcb-Sp8
220	Fuca1-2(6S)Galb1-4GlcNAcb-Sp0
221	Fuca1-2Galb1-4(6S)GlcNAcb-Sp8
222	Fuca1-2(6S)Galb1-4(6S)Glc-Sp0
223	Neu5Aca2-3Galb1-3GalNAca-Sp8
224	Neu5Aca2-3Galb1-3GalNAca-Sp14
225	GalNAcb1-4(Neu5Aca2-8Neu5Aca2-8Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp0
226	GalNAcb1-4(Neu5Aca2-8Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp0
227	Neu5Aca2-8Neu5Aca2-8Neu5Aca2-3Galb1-4Glc-Sp0
228	GalNAcb1-4(Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp0
229	Neu5Aca2-8Neu5Aca2-8Neu5Aca-Sp8
230	Neu5Aca2-3(6S)Galb1-4(Fuca1-3)GlcNAcb-Sp8
231	GalNAcb1-4(Neu5Aca2-3)Galb1-4GlcNAcb-Sp0
232	GalNAcb1-4(Neu5Aca2-3)Galb1-4GlcNAcb-Sp8
233	GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc-Sp0
234	Neu5Aca2-3Galb1-3GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc-Sp0
235	Neu5Aca2-6(Neu5Aca2-3)GalNAca-Sp8
236	Neu5Aca2-3GalNAca-Sp8
237	Neu5Aca2-3GalNAcb1-4GlcNAcb-Sp0
238	Neu5Aca2-3Galb1-3(6S)GlcNAc-Sp8
239	Neu5Aca2-3Galb1-3(Fuca1-4)GlcNAcb-Sp8
240	Neu5Aca2-3Galb1-3(Fuca1-4)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0
241	Neu5Aca2-3Galb1-4(Neu5Aca2-3Galb1-3)GlcNAcb-Sp8
242	Neu5Aca2-3Galb1-3(6S)GalNAca-Sp8
243	Neu5Aca2-6(Neu5Aca2-3Galb1-3)GalNAca-Sp8
244	Neu5Aca2-6(Neu5Aca2-3Galb1-3)GalNAca-Sp14
245	Neu5Aca2-3Galb-Sp8
246	Neu5Aca2-3Galb1-3GalNAcb1-3Gala1-4Galb1-4Glc-Sp0
247	Neu5Aca2-3Galb1-3GlcNAcb1-3Galb1-4GlcNAcb-Sp0
248	Fuca1-2(6S)Galb1-4Glc-Sp0
249	Neu5Aca2-3Galb1-3GlcNAcb-Sp0
250	Neu5Aca2-3Galb1-3GlcNAcb-Sp8
251	Neu5Aca2-3Galb1-4(6S)GlcNAcb-Sp8
252	Neu5Aca2-3Galb1-4(Fuca1-3)(6S)GlcNAcb-Sp8
253	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0
254	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb-Sp0
255	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb-Sp8
256	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb-Sp8

13	59	51	70	-474	51
35	48	13	29	7	33
-68	15	1	9	-436	237
82	29	29	21	-113	25
-19	32	4	9	-41	30
98	68	51	32	-31	71
63	82	-2	10	4	26
-197	68	25	27	8	46
-7	28	2	16	-33	24
-2	67	3	11	-3	37
32	48	23	34	-7	60
0	54	20	16	-2	13
53	21	48	52	547	622
-41	45	63	61	48	46
-64	67	-4	26	91	52
12	30	133	91	-13	12
-76	40	187	193	120	42
94	28	50	28	41	61
-44	54	3	6	201	115
32	64	17	29	-4	16
-95	88	11	14	102	57
194	68	76	34	64	74
-5	49	1	10	32	49
-30	19	2	12	24	23
-56	8	4	9	54	60
55	41	28	30	-131	36
-58	33	113	24	-18	24
18	13	138	100	-83	148
-33	22	88	42	-260	279
34	15	28	29	-191	57
41	47	2	10	-25	31
29	72	23	18	-158	57
229	405	19	4	-8	23
130	121	17	26	92	190
4	31	26	33	-84	53
-18	26	64	62	8	12
-1	28	-17	14	-91	36
-140	66	43	30	117	19
33	28	30	25	-67	20
-56	7	38	33	75	39
40	40	30	24	-29	31
45	46	8	23	-24	174
27	58	33	28	-154	64
162	85	17	18	90	28
190	114	20	34	39	34
-17	14	42	71	36	39
29	55	13	23	4	29
42	75	2	5	-173	22
41	47	40	26	-12	22
-126	25	690	322	9	15
-29	21	97	51	-17	25
-7	30	94	41	4	47
41	49	77	91	-95	66
-39	57	10	5	-21	16
31	20	38	45	-47	112
89	93	91	55	4	18
53	17	0	12	-139	38
79	49	0	12	-143	148
47	49	18	11	-111	71
71	107	-2	23	7	44
25	37	32	76	129	96
12	47	29	16	1619	2466
91	135	7	21	356	380
40	81	10	12	631	243
-4	10	5	10	71	88
5	11	-3	17	-406	128
62	47	17	27	-12	113
169	268	12	19	245	182
-30	52	9	7	11	34
226	261	0	10	40	53
-42	62	10	10	-47	86
27	54	16	22	-419	420
40	14	19	23	-2	17
21	40	37	50	-7	43
17	47	91	131	-531	172
-105	58	16	19	-19	35
41	28	30	18	-13	37
61	47	22	19	6	51
174	130	8	15	-10	26
162	138	0	3	33	37
-98	71	141	232	36	26
132	155	138	183	-70	46
4	52	15	34	2	28

159	181	-11	7
688	543	-11	11
170	206	-2	21
62	21	14	9
-6	32	24	37
6	30	4	18
14	61	2	10
157	148	-7	9
47	74	-14	6
81	107	-21	8
62	50	62	28
4	34	-19	7
-5	16	10	14
52	17	-21	8
108	181	-14	11
74	102	8	14
50	64	15	9
61	69	3	6
-1	17	-8	10
16	45	-4	8
1212	1746	19	41
68	79	5	7
121	112	13	11
51	46	12	3
35	254	12	24
117	62	10	11
-114	115	31	28
71	31	9	11
439	145	34	26
105	43	-5	16
66	112	39	11
11	29	-10	22
92	84	7	9
56	88	-1	11
65	48	-2	7
140	158	3	5
47	76	-11	8
590	364	7	19
627	503	10	7
-22	49	-1	11
125	30	2	16
1643	238	35	26
26	14	-10	5
171	449	8	4
12	37	-12	8
261	156	-3	5
36	25	-14	4
842	1817	8233	237
62	44	-5	10
152	225	16	24
35	34	-3	5
36	46	18	19
265	82	0	12
186	235	2	7
60	80	-50	19
-47	40	2	8
63	85	-10	4
51	58	1	12
82	103	-8	3
-44	39	-16	11
-38	78	-16	12
68	57	-21	2
23	46	-46	8
-25	83	-13	18
354	85	15	14
-30	39	-14	5
124	29	-9	6
63	59	-14	18
248	38	-15	1
49	26	-6	1
345	207	0	4
87	22	-3	6
436	396	2	17
7	42	-14	9
69	29	8	6
185	57	0	20
103	56	14	6
36	97	-13	14
55	68	-8	12
226	15	14	26
-15	26	0	12
48	62	-9	10
121	72	-23	15

257	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4GlcNAcb-Sp8
258	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0
259	Neu5Aca2-3Galb1-4GlcNAcb-Sp0
260	Neu5Aca2-3Galb1-4GlcNAcb-Sp8
261	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0
262	Fuca1-2Galb1-4(6S)Glc-Sp0
263	Neu5Aca2-3Galb1-4Glc-Sp0
264	Neu5Aca2-3Galb1-4Glc-Sp8
265	Neu5Aca2-6GalNAca-Sp8
266	Neu5Aca2-6GalNAcb1-4GlcNAcb-Sp0
267	Neu5Aca2-6Galb1-4(6S)GlcNAcb-Sp8
268	Neu5Aca2-6Galb1-4GlcNAcb-Sp0
269	Neu5Aca2-6Galb1-4GlcNAcb-Sp8
270	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0
271	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0
272	Neu5Aca2-6Galb1-4Glc-Sp0
273	Neu5Aca2-6Galb1-4Glc-Sp8
274	Neu5Aca2-6Gal-Sp8
275	Neu5Aca2-8Neu5Aca-Sp8
276	Neu5Aca2-8Neu5Aca2-3Galb1-4Glc-Sp0
277	Galb1-3(Fuca1-4)GlcNAcb1-3Galb1-3(Fuca1-4)GlcNAcb-Sp0
278	Neu5Acb2-6GalNAca-Sp8
279	Neu5Acb2-6Galb1-4GlcNAcb-Sp8
280	Neu5Gca2-3Galb1-3(Fuca1-4)GlcNAcb-Sp0
281	Neu5Gca2-3Galb1-3GlcNAcb-Sp0
282	Neu5Gca2-3Galb1-4(Fuca1-3)GlcNAcb-Sp0
283	Neu5Gca2-3Galb1-4GlcNAcb-Sp0
284	Neu5Gca2-3Galb1-4Glc-Sp0
285	Neu5Gca2-6GalNAca-Sp0
286	Neu5Gca2-6Galb1-4GlcNAcb-Sp0
287	Neu5Gca-Sp8
288	Neu5Aca2-3Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp14
289	Galb1-3GlcNAcb1-3Galb1-3GlcNAcb-Sp0
290	Galb1-4(Fuca1-3)(6S)GlcNAcb-Sp0
291	Galb1-4(Fuca1-3)(6S)Glc-Sp0
292	Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-3(Fuca1-4)GlcNAcb-Sp0
293	Galb1-4GlcNAcb1-3Galb1-3GlcNAcb-Sp0
294	Neu5Aca2-3Galb1-3GlcNAcb1-3Galb1-3GlcNAcb-Sp0
295	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-3GlcNAcb-Sp0
296	4S(3S)Galb1-4GlcNAcb-Sp0
297	(6S)Galb1-4(6S)GlcNAcb-Sp0
298	(6P)Glc-Sp10
299	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb1-6(Galb1-3)GalNAca-Sp14
300	Galb1-3Galb1-4GlcNAcb-Sp8
301	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12
302	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3)Galb1-4GlcNAcb-Sp0
303	GlcNAcb1-6(Galb1-4GlcNAcb1-3)Galb1-4GlcNAcb-Sp0
304	Galb1-4GlcNAca1-6Galb1-4GlcNAcb-Sp0
305	Galb1-4GlcNAcb1-6Galb1-4GlcNAcb-Sp0
306	GalNAcb1-3Gal-Sp8
307	GlcAb1-3GlcNAcb-Sp8
308	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12
309	GlcNAcb1-3Man-Sp10
310	GlcNAcb1-4GlcNAcb-Sp10
311	GlcNAcb1-4GlcNAcb-Sp12
312	MurNAcb1-4GlcNAcb-Sp10
313	Mana1-6Manb-Sp10
314	Mana1-6(Mana1-3)Mana1-6(Mana1-3)Manb-Sp10
315	Mana1-2Mana1-6(Mana1-3)Mana1-6(Mana1-2Mana1-2Mana1-3)Mana-Sp9
316	Mana1-2Mana1-6(Mana1-2Mana1-3)Mana1-6(Mana1-2Mana1-2Mana1-3)Mana-Sp9
317	Neu5Aca2-3Galb1-4GlcNAcb1-6(Neu5Aca2-3Galb1-3)GalNAca-Sp14
318	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12
319	Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12
320	Neu5Aca2-8Neu5Acb-Sp17
321	Neu5Aca2-8Neu5Aca2-8Neu5Acb-Sp8
322	Neu5Gcb2-6Galb1-4GlcNAcb-Sp8
323	Galb1-3GlcNAcb1-2Mana1-6(Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19
324	Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12
325	Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12
326	Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-6(Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20
327	Neu5,9Ac2a2-3Galb1-4GlcNAcb-Sp0
328	Neu5,9Ac2a2-3Galb1-3GlcNAcb-Sp0
329	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-3GlcNAcb-Sp0
330	Neu5Aca2-3Galb1-3(Fuca1-4)GlcNAcb1-3Galb1-3(Fuca1-4)GlcNAcb-Sp0
331	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0
332	Gala1-4Galb1-4GlcNAcb1-3Galb1-4Glc-Sp0
333	GalNAcb1-3Gala1-4Galb1-4GlcNAcb1-3Galb1-4Glc-Sp0
334	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0
335	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0

30	62	11	59	233	83
-9	46	36	24	821	708
-15	79	2	4	-6	148
38	38	122	200	761	628
41	48	1	7	131	26
33	42	7	14	-36	133
-33	27	20	10	47	23
124	72	556	145	-120	48
3	43	5	10	140	39
16	69	0	17	-61	58
-190	47	4	6	18	30
11	18	13	21	16	41
-1	44	16	23	-47	119
103	98	3911	718	-83	100
69	57	154	137	-73	47
2	21	31	26	22	33
103	88	17	28	11	58
81	69	46	41	40	26
94	80	74	66	-27	61
-3	36	7	8	29	35
-20	88	68	67	70	88
1132	2242	-16	9	49	102
139	190	32	25	-19	34
6	56	19	13	44	33
-2	23	2	14	6	7
4	25	83	38	192	393
6	44	10	26	69	216
39	18	23	41	193	145
-2	40	23	17	85	84
5	45	15	12	183	103
27	58	125	155	16	24
-63	21	62	37	120	48
128	186	53	97	-105	29
-16	37	36	35	168	58
190	63	76	86	176	278
-85	21	200	55	-19	46
-56	21	364	185	-16	31
5	50	51	72	224	150
-16	24	65	23	84	162
40	23	21	28	-90	38
68	57	220	224	33	55
30	65	319	214	-4	24
12	62	100	83	34	44
137	40	31	18	27	25
4	16	10	6	-17	31
67	43	30	30	0	17
-56	31	58	44	121	49
56	18	19	16	249	423
-34	25	141	94	53	87
5	34	-5	7	273	151
13	50	27	19	201	276
45	18	27	32	31	42
-57	35	73	29	208	63
142	196	14507	2428	189	182
48	29	6	4	17	275
16	36	208	145	-131	47
-14	35	118	95	12	14
201	115	121	80	-40	52
99	38	265	425	-107	73
-10	81	15	19	-403	63
37	151	111	97	-72	59
-26	11	188	95	2619	3185
75	46	73	52	3	29
-14	10	88	110	-19	14
45	45	2339	1250	11	27
14	75	73	104	-26	18
-20	48	24	13	-51	33
211	268	34	35	-44	49
-42	16	-2	6	85	16
16	52	17	15	6	2
40	59	6	8	72	40
7	32	30	70	234	165
-11	42	74	52	170	73
-43	33	189	104	-8	18
123	150	4476	1077	250	35
68	20	281	223	66	25
44	68	20	36	203	218
47	37	226	182	-112	37
-25	26	241	439	59	55

1711	3074	16	13
46	39	-19	12
6	21	-14	10
-26	129	4	6
44	92	-24	8
1	25	172	34
258	77	-2	14
88	78	3	22
93	87	-12	7
10	31	2	4
441	238	-19	14
57	35	-19	5
210	225	-3	5
95	10	33	23
45	40	-3	10
48	61	-12	15
96	47	23	31
50	61	-7	11
43	26	-4	9
190	34	-14	5
78	51	1	5
161	318	-10	27
53	39	-15	7
667	173	5	17
63	62	-9	6
543	368	-20	7
186	182	-3	10
222	674	40	16
36	33	-11	7
128	121	-12	11
-66	67	19	15
-141	71	-16	7
-7	25	5	15
43	119	124	45
143	51	23	21
178	66	9	18
21	48	812	137
-10	7	-9	15
-5	28	-14	10
16	13	-9	6
9	28	-19	15
147	131	21	11
194	19	140	56
68	72	23	17
-5	13	4087	418
27	24	27990	1342
203	268	12250	475
41	7	1064	68
372	486	6208	217
186	286	13	13
324	570	0	7
250	125	9	16
-29	17	-3	12
42	26	4	12
883	1462	-8	11
-13	63	10	20
244	114	22	18
66	80	0	1
64	30	14	12
4	46	-19	8
59	97	8	7
35	72	-17	7
-43	84	360	42
46	11	36	26
65	27	-10	15
61	19	52	25
123	28	39	29
51	28	-9	6
424	54	0	21
17	23	11	16
-141	78	5	13
-23	130	-10	10
-35	147	6	13
168	189	8	11
-46	46	-16	12
119	52	10	10
53	38	-11	6
-6	42	12	25
905	362	667	96

336	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb1-6(Neu5Aca2-3Galb1-3)GalNAc-Sp14
337	GlcNAca1-4Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0
338	GlcNAca1-4Galb1-4GlcNAcb-Sp0
339	GlcNAca1-4Galb1-3GlcNAcb-Sp0
340	GlcNAca1-4Galb1-4GlcNAcb1-3Galb1-4Glc-Sp0
341	GlcNAca1-4Galb1-4GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0
342	GlcNAca1-4Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0
343	GlcNAca1-4Galb1-3GalNAc-Sp14
344	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp12
345	Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp12
346	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6Manb1-4GlcNAcb1-4GlcNAc-Sp12
347	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3Manb1-4GlcNAcb1-4GlcNAc-Sp12
348	Galb1-4GlcNAcb1-2Mana1-3Manb1-4GlcNAcb1-4GlcNAc-Sp12
349	Galb1-4GlcNAcb1-2Mana1-6Manb1-4GlcNAcb1-4GlcNAc-Sp12
350	Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp12
351	GlcNAcb1-2Mana1-6(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22
352	Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22
353	Galb1-3GlcNAcb1-2Mana1-6(Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22
354	(6S)GlcNAcb1-3Galb1-4GlcNAcb-Sp0
355	KDNa2-3Galb1-4(Fuca1-3)GlcNAc-Sp0
356	KDNa2-6Galb1-4GlcNAc-Sp0
357	KDNa2-3Galb1-4Glc-Sp0
358	KDNa2-3Galb1-3GalNAc-Sp14
359	Fuca1-2Galb1-3GlcNAcb1-2Mana1-6(Fuca1-2Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20
360	Fuca1-2Galb1-4GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20
361	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20
362	Gala1-3Galb1-4GlcNAcb1-2Mana1-6(Gala1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20
363	Galb1-4GlcNAcb1-2Mana1-6(Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12
364	Fuca1-4(Galb1-3)GlcNAcb1-2Mana1-6(Fuca1-4(Galb1-3)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22
365	Neu5Aca2-6GlcNAcb1-4GlcNAc-Sp21
366	Neu5Aca2-6GlcNAcb1-4GlcNAcb1-4GlcNAc-Sp21
367	Galb1-4(Fuca1-3)GlcNAcb1-6(Fuca1-2Galb1-4GlcNAcb1-3)Galb1-4Glc-Sp21
368	Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-4(Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21
369	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-6(GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20
370	Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-6(Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20
371	Gala1-3Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-6(Gala1-3Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20
372	GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-6(GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20
373	Gala1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-6(Gala1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp20
374	Fuca1-4(Fuca1-2Galb1-3)GlcNAcb1-2Mana1-3(Fuca1-4(Fuca1-2Galb1-3)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19
375	Neu5Aca2-3Galb1-4GlcNAcb1-3GalNAc-Sp14
376	Neu5Aca2-6Galb1-4GlcNAcb1-3GalNAc-Sp14
377	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb1-3GalNAc-Sp14
378	GalNAcb1-4GlcNAcb1-2Mana1-6(GalNAcb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp12
379	Galb1-3GalNAca1-3(Fuca1-2)Galb1-4Glc-Sp0
380	Galb1-3GalNAca1-3(Fuca1-2)Galb1-4GlcNAc-Sp0
381	Galb1-3GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp0
382	Galb1-4(Fuca1-3)GlcNAcb1-6(Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp21
383	Galb1-4GlcNAcb1-6(Fuca1-4(Fuca1-2Galb1-3)GlcNAcb1-3)Galb1-4Glc-Sp21
384	Galb1-4(Fuca1-3)GlcNAcb1-6(Fuca1-4(Fuca1-2Galb1-3)GlcNAcb1-3)Galb1-4Glc-Sp21
385	Galb1-3GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-6(Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp21
386	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-4(Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21
387	GlcNAcb1-2Mana1-6(GlcNAcb1-4(GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21
388	Fuca1-2Galb1-3GalNAca1-3(Fuca1-2)Galb1-4Glc-Sp0
389	Fuca1-2Galb1-3GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb-Sp0
390	Galb1-3GlcNAcb1-3GalNAc-Sp14
391	GalNAcb1-4(Neu5Aca2-3)Galb1-4GlcNAcb1-3GalNAc-Sp14
392	GalNAca1-3(Fuca1-2)Galb1-3GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb-Sp0
393	Gala1-3Galb1-3GlcNAcb1-2Mana1-6(Gala1-3Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp19
394	Gala1-3Galb1-3(Fuca1-4)GlcNAcb1-2Mana1-6(Gala1-3Galb1-3(Fuca1-4)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp19
395	Neu5Aca2-3Galb1-3GlcNAcb1-2Mana1-6(Neu5Aca2-3Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp19

316	66	58	54	-81	22
53	25	34	45	-115	25
166	121	65	85	-94	90
15	54	31	37	-154	221
27	20	8	19	-72	40
-15	26	158	104	-521	186
-4	18	95	24	11	23
163	174	15424	7079	-81	54
-6	17	45	22	-141	153
-2	21	29	19	39	22
72	37	24	17	30	26
19	42	28	30	-35	14
-54	22	19	19	106	72
-7	46	25	23	19	67
-38	18	120	25	32	64
-46	43	42	45	261	110
-30	59	52	81	295	201
-5	43	117	84	-11	9
-19	53	10	14	165	61
91	54	253	125	9	38
-48	38	90	105	122	72
1	19	248	89	-9	40
25	36	29	49	41	67
136	30	192	48	73	48
69	72	54	38	15	41
-1	57	304	272	33	44
297	332	138	37	81	137
-52	12	63	63	15	120
-12	48	66	46	-82	107
25	44	151	116	-232	173
53	45	133	33	-118	29
-38	24	36	13	-37	14
52	8	50	20	-116	7
-51	33	326	118	48	53
19	44	77	23	5	18
3	42	7	11	41	19
-7	50	3	16	11	52
-11	20	35	43	244	138
55	51	106	29	11	11
-79	24	75	82	257	225
-3	36	-1	10	233	203
14	58	9	8	304	149
64	47	0	5	36	25
-73	15	39	53	266	234
55	57	301	334	456	105
836	1730	23	39	231	214
1	50	74	78	264	143
-45	22	-2	4	11	68
43	56	36	38	13	23
-7	34	34	57	9	10
48	23	53	31	21	12
49	46	41	53	157	209
-7	39	23	21	62	156
12	27	20	33	-110	41
-11	33	54	49	-89	58
-37	14	62	45	-7	36
-7	15	25	28	-2	49
69	54	158	71	-193	112
67	49	82	87	-132	15
-6	57	27	45	-12	26

152	99	67	9
59	28	49	11
77	45	-34	7
36	64	12	27
39	16	-26	7
157	140	48	35
-35	14	6	20
25	50	17	15
25	23	-12	31
57	56	13	14
-4	16	-41	22
56	91	13	12
192	45	4914	349
77	63	1470	198
-64	217	4352	497
163	85	1	3
1211	1198	3744	336
146	202	13	12
35	48	2127	107
178	31	11	9
60	80	-10	3
46	75	10	6
710	1068	23	18
400	64	27	27
242	45	7137	455
648	153	-9	7
611	803	63	23
104	60	4763	747
535	225	24	26
-19	40	-26	11
3	74	-10	20
115	44	30	4
498	100	22655	795
91	25	31	43
759	440	38	13
409	39	8	16
47	57	30	34
88	55	-5	8
341	242	26	11
219	219	-13	9
993	879	-1	16
43	49	2	13
2209	1198	678	88
6	79	13	23
21	23	-2	16
3	31	109	22
224	174	2	3
123	99	767	178
74	111	187	76
-94	88	56	43
204	78	20315	1730
23	23	26	21
65	46	4	7
110	336	19	30
70	111	4	15
593	158	67	31
10	26	38	20
404	41	72	23
304	79	112	23
252	72	7	7

396	GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp12
397	Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp12
398	Neu5Aca2-3Galb1-3GlcNAcb1-3GalNAca-Sp14
399	Fuca1-2Galb1-4GlcNAcb1-3GalNAca-Sp14
400	Galb1-4(Fuca1-3)GlcNAcb1-3GalNAca-Sp14
401	GalNAca1-3GalNAcb1-3Gala1-4Galb1-4GlcNAcb-Sp0
402	Gala1-4Galb1-3GlcNAcb1-2Mana1-6(Gala1-4Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp19
403	Gala1-4Galb1-4GlcNAcb1-2Mana1-6(Gala1-4Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp24
404	Gala1-3Galb1-4GlcNAcb1-3GalNAca-Sp14
405	Galb1-3GlcNAcb1-6Galb1-4GlcNAcb-Sp0
406	Galb1-3GlcNAca1-6Galb1-4GlcNAcb-Sp0
407	GalNAcb1-3Gala1-6Galb1-4Glc-Sp8
408	Gala1-3(Fuca1-2)Galb1-4(Fuca1-3)Glc-Sp21
409	Galb1-4GlcNAcb1-6(Neu5Aca2-6Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp21
410	Galb1-3GalNAcb1-4(Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp0
411	Neu5Aca2-3Galb1-3GalNAcb1-4(Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp0
412	Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-3GalNAca-Sp14
413	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-3GalNAca-Sp14
414	GalNAca1-3GalNAcb1-3Gala1-4Galb1-4Glc-Sp0
415	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-3GalNAca-Sp14
416	Gala1-3(Fuca1-2)Galb1-4(Fuca1-3)GlcNAcb1-3GalNAca-Sp14
417	GalNAca1-3(Fuca1-2)Galb1-4(Fuca1-3)GlcNAcb1-3GalNAc-Sp14
418	Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-6(Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22
419	Fuca1-2Galb1-4GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22
420	GlcNAcb1-2(GlcNAcb1-6)Mana1-6(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp19
421	Fuca1-2Galb1-3GlcNAcb1-3GalNAc-Sp14
422	Gala1-3(Fuca1-2)Galb1-3GlcNAcb1-3GalNAc-Sp14
423	GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-3GalNAc-Sp14
424	Gala1-3Galb1-3GlcNAcb1-3GalNAc-Sp14
425	Fuca1-2Galb1-3GlcNAcb1-2Mana1-6(Fuca1-2Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22
426	Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-6(Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22
427	Galb1-3GlcNAcb1-6(Galb1-3GlcNAcb1-2)Mana1-6(Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp19
428	Galb1-4GlcNAcb1-6(Fuca1-2Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp21
429	Fuca1-3GlcNAcb1-6(Galb1-4GlcNAcb1-3)Galb1-4Glc-Sp21
430	GlcNAcb1-2Mana1-6(GlcNAcb1-4)(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21
431	GlcNAcb1-2Mana1-6(GlcNAcb1-4)(GlcNAcb1-4)(GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21
432	GlcNAcb1-6(GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21
433	GlcNAcb1-6(GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(GlcNAcb1-4)(GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21
434	Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-4)(Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21
435	Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-4)(Galb1-4GlcNAcb1-4)(Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21
436	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21
437	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(Galb1-4GlcNAcb1-4)(Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp21
438	Galb1-4Galb-Sp10
439	Galb1-6Galb-Sp10
440	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb-Sp8
441	GalNAcb1-6GalNAcb-Sp8
442	(6S)Galb1-3GlcNAcb-Sp0
443	(6S)Galb1-3(6S)GlcNAc-Sp0
444	Fuca1-2Galb1-4 GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4GlcNAcb1-2)(Fuca1-2Galb1-4GlcNAcb1-4)Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp12
445	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-4(Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp12
446	Galb1-4(Fuca1-3)GlcNAcb1-6GalNAc-Sp14
447	Galb1-4GlcNAcb1-2Mana-Sp0
448	Fuca1-2Galb1-4GlcNAcb1-6(Fuca1-2Galb1-4GlcNAcb1-3)GalNAc-Sp14
449	Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-6(Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-3)GalNAc-Sp14
450	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-6(GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-3)GalNAc-Sp14
451	Neu5Aca2-8Neu5Aca2-3Galb1-3GalNAcb1-4(Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp0
452	GalNAcb1-4Galb1-4Glc-Sp0
453	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana1-6(GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22
454	Gala1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-6(Gala1-3(Fuca1-2)Galb1-3GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22
455	Neu5Aca2-6Galb1-4GlcNAcb1-6(Fuca1-2Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp21
456	GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-2Mana1-6(GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp22

13	31	-5	4	-84	38
-23	30	-2	13	76	74
5	37	41	29	22	41
-79	42	28	22	138	144
-44	21	31	37	112	42
-22	69	-5	6	176	85
10	82	5	7	368	419
21	31	30	14	154	51
-11	39	-42	14	545	288
-14	61	0	5	43	166
19	56	45	41	201	191
45	32	1	6	10	26
56	68	8	14	-11	20
41	40	121	113	48	10
31	116	105	84	11	47
145	44	31	26	84	53
-29	25	75	51	11	61
44	58	107	14	-56	49
-14	23	81	33	-93	103
39	56	22	2	24	26
-79	43	55	36	-115	217
93	34	150	80	-39	27
74	80	180	143	-18	20
-4	14	5	5	63	52
-65	6	-2	3	-16	35
6	21	4	6	-10	80
46	67	5	23	-71	18
-49	36	17	21	66	47
56	23	-1	10	-29	221
14	17	3	12	11	162
-18	43	151	219	67	189
-37	30	22	16	275	117
-20	40	6	14	80	26
-11	54	128	124	248	113
-93	45	204	237	3	44
46	33	-1	9	12	24
24	55	105	32	12	15
-21	40	17	17	-7	46
-76	37	8	26	-8	31
-25	24		34	11	75
20	17	38	33	-182	85
-20	15	174	103	-12	66
25	47	68	81	-3	7
73	38	81	46	-36	58
44	96	24	34	-64	62
5	27	213	285	-12	34
83	93	11	22	-33	85
-84	56	50	17	-53	69
67	72	-4	7	12	34
-25	35	46	32	-4	27
49	17	39	24	47	27
-36	48	26	20	104	64
14	30	32	16	155	162
13	32	1195	116	-77	82
0	34	29	18	173	139
-32	41	29	16	106	64
38	40	126	56	37	7
-47	19	25	31	337	305
57	32	135	62	-7	10
-88	60	8	6	9	22
67	69	96	66	26	56

42	59	5804	416
343	110	3303	163
146	72	9	14
-23	230	715	39
124	63	7	16
135	152	-9	22
560	464	9	6
2121	1304	200	19
71	62	-7	13
12	53	-18	15
61	256	-10	5
52	70	2	6
110	41	17	14
39	42	803	83
32	37	-15	6
44	28	8	13
119	50	-8	10
215	300	22	7
13	37	6	21
186	40	162	44
260	184	153	62
201	91	108	16
205	65	179	13
338	75	2141	331
118	47	-9	3
305	792	-26	14
111	66	-3	10
1493	1062	27	28
124	83	-18	7
560	374	-23	8
1155	996	4	20
267	106	31	25
161	106	1702	149
594	450	6192	186
44724	3896	-7	5
13118	517	-11	6
261	71	14	59
353	58	7	26
41537	3159	6782	590
44035	5661	5296	438
9066	989	11158	797
12528	1871	9011	493
81	14	-15	25
170	22	8	9
2	21	12	30
74	76	-22	8
63	74	-33	13
232	137	-17	15
344	79	5387	267
675	99	16	22
82	4	26	25
845	922	12	21
106	109	2716	94
115	345	-7	14
257	159	33	7
52	211	7636	433
458	294	-3	14
346	222	-12	16
102	160	-15	8
196	135	17	20
120	37	-17	10

457	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19
458	Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-4)(Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21
459	Neu5Aca2-3Galb1-4GlcNAcb1-4Mana1-6(GlcNAcb1-4)(Neu5Aca2-3Galb1-4GlcNAcb1-4)(Neu5Aca2-3Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21
460	Neu5Aca2-3Galb1-4GlcNAcb1-6(Neu5Aca2-3Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21
461	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
462	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-4)(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21
463	Neu5Aca2-6Galb1-4GlcNAcb1-4Mana1-6(GlcNAcb1-4)(Neu5Aca2-6Galb1-4GlcNAcb1-4)(Neu5Aca2-6Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21
464	Neu5Aca2-6Galb1-4GlcNAcb1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21
465	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
466	Gala1-3(Fuca1-2)Galb1-3GalNAca-Sp8
467	Gala1-3(Fuca1-2)Galb1-3GalNAcb-Sp8
468	Glc1-6Glc1-6Glc1-6Glc-Sp10
469	Glc1-4Glc1-4Glc1-4Glc-Sp10
470	Neu5Aca2-3Galb1-4GlcNAcb1-6(Neu5Aca2-3Galb1-4GlcNAcb1-3)GalNAca-Sp14
471	Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24
472	Fuca1-2Galb1-3(Fuca1-4)GlcNAcb1-2Mana1-6(Fuca1-2Galb1-3(Fuca1-4)GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp19
473	Neu5Aca2-3Galb1-3GlcNAcb1-6(Neu5Aca2-3Galb1-3GlcNAcb1-2)Mana1-6(Neu5Aca2-3Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp19
474	GlcNAcb1-6(GlcNAcb1-2)Mana1-6(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24
475	Galb1-3GlcNAcb1-2Mana1-6(GlcNAcb1-4)(Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21
476	Neu5Aca2-6Galb1-4GlcNAcb1-6(Galb1-3GlcNAcb1-3)Galb1-4Glc-Sp21
477	Neu5Aca2-3Galb1-4GlcNAcb1-2Mana-Sp0
478	Neu5Aca2-3Galb1-4GlcNAcb1-6GalNAca-Sp14
479	Neu5Aca2-6Galb1-4GlcNAcb1-6GalNAca-Sp14
480	Neu5Aca2-6Galb1-4 GlcNAcb1-6(Neu5Aca2-6Galb1-4GlcNAcb1-3)GalNAca-Sp14
481	Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24
482	Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24
483	Mana1-6(Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp19
484	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24
485	Neu5Aca2-3Galb1-3GlcNAcb1-2Mana1-6(GlcNAcb1-4)(Neu5Aca2-3Galb1-3GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp21
486	Neu5Aca2-6Galb1-4GlcNAcb1-6(Fuca1-2Galb1-4(Fuca1-3)GlcNAcb1-3)Galb1-4Glc-Sp21
487	Galb1-3GlcNAcb1-6GalNAca-Sp14
488	Gala1-3Galb1-3GlcNAcb1-6GalNAca-Sp14
489	Galb1-3(Fuca1-4)GlcNAcb1-6GalNAca-Sp14
490	Neu5Aca2-3Galb1-3GlcNAcb1-6GalNAca-Sp14
491	(3S)Galb1-3(Fuca1-4)GlcNAcb-Sp0
492	Galb1-4(Fuca1-3)GlcNAcb1-6(Neu5Aca2-6(Neu5Aca2-3Galb1-3)GlcNAcb1-3)Galb1-4Glc-Sp21
493	Fuca1-2Galb1-4GlcNAcb1-6GalNAca-Sp14
494	Gala1-3Galb1-4GlcNAcb1-6GalNAca-Sp14
495	Galb1-4(Fuca1-3)GlcNAcb1-2Mana-Sp0
496	Fuca1-2(6S)Galb1-3GlcNAcb-Sp0
497	Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-6GalNAca-Sp14
498	Fuca1-2Galb1-4GlcNAcb1-2Mana-Sp0
499	Fuca1-2Galb1-3(6S)GlcNAcb-Sp0
500	Fuca1-2(6S)Galb1-3(6S)GlcNAcb-Sp0
501	Neu5Aca2-6GalNAcb1-4(6S)GlcNAcb-Sp8
502	GalNAcb1-4(Fuca1-3)(6S)GlcNAcb-Sp8
503	(3S)GalNAcb1-4(Fuca1-3)GlcNAcb-Sp8
504	Fuca1-2Galb1-3GlcNAcb1-6(Fuca1-2Galb1-3GlcNAcb1-3)GalNAca-Sp14
505	GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-6GalNAca-Sp14
506	GlcNAcb1-6(GlcNAcb1-2)Mana1-6(GlcNAcb1-4)(GlcNAcb1-4(GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp21
507	Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-4)Galb1-4GlcNAcb1-4(Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp21
508	Galb1-3GlcNAca1-3Galb1-4GlcNAcb-Sp8
509	Galb1-3(6S)GlcNAcb-Sp8
510	(6S)(4S)GalNAcb1-4GlcNAcb-Sp8
511	(6S)GalNAcb1-4GlcNAcb-Sp8
512	(3S)GalNAcb1-4(3S)GlcNAcb-Sp8
513	GalNAcb1-4(6S)GlcNAcb-Sp8
514	(3S)GalNAcb1-4GlcNAcb-Sp8
515	(4S)GalNAcb-Sp10
516	Galb1-4(6P)GlcNAcb-Sp0

20	86	33	17	20	19
-72	90	-7	6	7	30
10	59	275	209	197	169
-47	45	98	35	56	83
-6	69	328	120	-16	74
12	39	15	44	-49	24
0	36	54	32	9	19
-4	14	188	113	-22	24
66	79	273	38	-134	50
-40	11	33	42	20	16
-1	16	5	12	42	64
-123	42	15	25	126	99
25	46	37	43	-7	28
43	68	8	31	121	198
20	4	155	298	30	65
32	16	152	317	13	6
42	10	97	73	-63	11
57	33	47	45	-48	21
30	42	2	7	-47	117
26	46	25	22	-4	93
-36	37	13	34	112	49
41	50	-3	16	33	17
-11	52	50	10	8	45
38	11	39	32	1	37
-34	61	36	18	45	53
24	34	-3	5	-25	56
-17	73	145	70	36	34
82	29	153	149	60	47
25	55	14	16	-50	31
263	168	55	64	-129	175
2	39	45	57	31	51
34	17	147	164	-7	23
-12	12	106	68	-81	60
-51	39	23	21	107	43
28	22	14	10	-13	12
-10	60	12	26	49	24
140	117	3	9	-6	75
39	41	-4	8	33	18
-69	25	-2	5	20	28
-16	17	34	38	-78	18
32	22	54	35	24	40
20	44	11	8	243	262
36	52	17	6	-98	92
61	61	125	111	-34	51
33	44	25	32	-82	27
-21	58	76	112	-13	24
13	37	23	22	-290	217
126	57	139	148	-7	20
-209	52	-1	8	-6	51
-17	24	17	31	-276	146
85	69	95	73	23	26
27	53	23	48	69	98
161	192	16	8	32	59
-33	40	48	78	56	62
-59	53	103	76	8	20
-9	65	177	18	-65	30
12	14	1	12	83	131
12	39	10	8	30	45
9	10	20	20	56	39
139	62	135	137	-80	44

563	233	13802	1190
36702	1843	-33	15
36472	4561	-21	10
1051	142	-50	16
1598	498	-23	9
2	33	-41	16
105	81	13	20
30	22	-24	25
95	80	12	12
95	42	7	10
231	55	-10	8
103	23	28	19
-56	89	-11	15
125	75	3	21
732	782	0	10
88	55	16	25
263	164	-30	12
277	293	20	9
364	303	3	43
54	36	-7	6
232	186	2	11
1122	573	-9	5
109	37	22	36
107	123	6	33
41	62	29	55
217	48	-10	2
48	17	-10	15
265	179	26674	685
54	32	-18	21
75	61	30	11
28	64	-21	6
46	58	-3	3
124	31	81	32
70	101	-29	25
86	50	-13	5
-46	121	-18	8
173	258	450	59
33	289	-15	8
168	32	4	5
161	121	-27	3
148	76	26	16
71	89	-10	6
100	64	-5	14
148	94	-43	18
1917	2554	3	9
35	20	-22	10
66	78	-23	15
211	53	16	11
140	50	-27	8
495	189	9	17
4701	3129	15719	1337
-22	13	-35	8
26	20	14	17
22	21	-74	18
175	264	0	11
33	44	-25	20
-214	54	23404	1476
46	60	-27	9
85	18	-30	12
75	45	2486	495

517	(6P)Galb1-4GlcNAcb-SP0
518	GalNAca1-3(Fuca1-2)Galb1-4GlcNAcb1-6GalNAc-Sp14
519	Neu5Aca2-6Galb1-4GlcNAcb1-2Man-Sp0
520	Gala1-3Galb1-4GlcNAcb1-2Mana-Sp0
521	Gala1-3(Fuca1-2)Galb1-4GlcNAcb1-2Mana-Sp0
522	GalNAca1-3(Fuca1-2)Galb1-4 GlcNAcb1-2Mana-Sp0
523	Galb1-3GlcNAcb1-2Mana-Sp0
524	Gala1-3(Fuca1-2)Galb1-3GlcNAcb1-6GalNAc-Sp14
525	Neu5Aca2-3Galb1-3GlcNAcb1-2Mana-Sp0
526	Gala1-3Galb1-3GlcNAcb1-2Mana-Sp0
527	GalNAcb1-4GlcNAcb1-2Mana-Sp0
528	Neu5Aca2-3Galb1-3GalNAcb1-4Galb1-4Glc-Sp0
529	GlcNAcb1-2 Mana1-6(GlcNAcb1-4)(GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAc-Sp21
530	Galb1-4GlcNAcb1-2 Mana1-6(GlcNAcb1-4)(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAc-Sp21
531	Galb1-4GlcNAcb1-2 Mana1-6(Galb1-4GlcNAcb1-4)(Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAc-Sp21
532	Fuca1-4(Galb1-3)GlcNAcb1-2 Mana-Sp0
533	Neu5Aca2-3Galb1-4(Fuca1-3)GlcNAcb1-2Mana-Sp0
534	GlcNAcb1-3Galb1-4GlcNAcb1-6(GlcNAcb1-3)Galb1-4GlcNAc-Sp0
535	GalNAca1-3(Fuca1-2)Galb1-3GalNAcb1-3Gala1-4Galb1-4Glc-Sp21
536	Gala1-3(Fuca1-2)Galb1-3GalNAcb1-3Gala1-4Galb1-4Glc-Sp21
537	Galb1-3GalNAcb1-3Gal-Sp21
538	GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12
539	GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp25
540	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12
541	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp24
542	Neu5Gca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Gca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp24
543	Fuca1-2Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Fuca1-2Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp24
544	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12
545	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp25
546	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12
547	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp24
548	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp25
549	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp25
550	Galb1-3GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-3GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp25
551	Neu5Gca2-8Neu5Gca2-3Galb1-4GlcNAc-Sp0
552	Neu5Aca2-8Neu5Gca2-3Galb1-4GlcNAc-Sp0
553	Neu5Gca2-8Neu5Aca2-3Galb1-4GlcNAc-Sp0
554	Neu5Gca2-8Neu5Gca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAc-Sp0
555	Neu5Gca2-8Neu5Gca2-6Galb1-4GlcNAc-Sp0
556	Neu5Aca2-8Neu5Aca2-3Galb1-4GlcNAc-Sp0
557	GlcNAcb1-3Galb1-4GlcNAcb1-6(GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-2Man a1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp24
558	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp24
559	Gala1-3Galb1-4GlcNAcb1-2Mana1-6(Gala1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAc-Sp24
560	GlcNAcb1-3Galb1-4GlcNAcb1-6(GlcNAcb1-3Galb1-3)GalNAc-Sp14
561	GalNAcb1-3GlcNAcb-Sp0
562	GalNAcb1-4GlcNAcb1-3GalNAcb1-4GlcNAcb-Sp0
563	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp25
564	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp25
565	GlcNAcb1-3Galb1-3GalNAc-Sp14
566	Galb1-3GlcNAcb1-6(Galb1-3)GalNAc-Sp14
567	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp25
568	(3S)GlcAb1-3Galb1-4GlcNAcb1-3Galb1-4Glc-Sp0
569	(3S)GlcAb1-3Galb1-4GlcNAcb1-2Mana-Sp0

-11	5	-3	6	-1	30
64	55	2	15	-159	86
-62	57	-3	9	25	60
1	71	74	93	-114	17
-41	56	23	10	113	29
-42	22	83	116	-11	53
-73	69	30	23	154	45
13	34	45	57	120	159
131	240	27	22	-104	22
-8	23	17	23	-4	16
272	180	285	143	-28	15
-26	15	-7	7	-31	47
51	40	123	125	-7	39
-52	51	35	83	-20	25
61	20	10	10	253	128
-13	19	82	36	455	626
104	57	188	142	-77	27
-9	41	143	99	9	8
-17	24	1	2	-48	65
-25	43	17	6	23	40
-41	44	15	7	6	90
-106	27	-2	5	-9	31
1123	2157	245	59	-40	17
42	35	70	72	92	62
-118	43	-11	2	-80	48
6	26	84	22	47	69
-11	23	81	79	548	930
-36	26	78	103	394	194
-63	35	52	69	42	31
19	51	436	176	-31	41
-24	47	10883	661	261	261
-823	1376	16	9	-88	85
7904	4998	27111	3286	-132	23
105	167	19	42	-361	128
-26	17	9	5	1	31
21	51	15	18	-80	15
148	149	33	57	-374	98
95	39	7	20	182	113
-113	44	55	73	-20	185
7	14	53	61	-46	58
-126	46	171	137	-133	95
88	107	230	76	97	72
54	46	150	74	31	25
-29	61	198	80	455	218
47	47	4	9	53	15
67	21	38	10	109	41
20	112	234	175	-10	21
19775	436	29971	20597	-39	28
75	48	38	28	-609	266
-26	42	115	77	-45	98
16391	1880	35234	2388	1574	183
2	33	258	430	-136	31
-61	82	4	13	39	53

65	67	-28	11
-7	23	31	30
86	34	-2	19
21	14	32	19
502	420	476	155
3219	815	3	9
131	205	10	20
466	289	6	11
144	95	15	14
55	69	-13	17
-23	72	12985	988
60	64	-10	7
42251	2514	3	16
46669	2608	14075	893
77	89	15693	960
270	117	25	25
442	193	-9	4
7	27	19	12
21	153	-25	5
26	48	-15	6
344	597	57	123
16919	986	-38	14
42755	2889	47	17
4821	759	202	53
10123	895	16815	285
1203	417	-19	1
9019	2120	22030	553
3654	2094	136	28
9453	3954	41	32
4381	701	1408	227
11514	2337	21539	941
5397	507	-2	14
10823	1305	23116	462
3243	429	4	3
182	307	-28	4
18	16	-8	6
-42	42	-32	5
44	28	1	15
67	38	-15	15
1441	348	-9	15
2988	232	74	36
1198	238	11114	1112
3668	350	26	25
-40	22	-9	19
-25	41	-13	1
27	54	29139	1288
5426	588	3	6
20865	2769	24169	1215
111	156	5	13
131	76	39	19
1049	30	19285	297
29	110	14	36
64	32	-66	26

570	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
571	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
572	Neu5Aca2-8Neu5Aca2-3Galb1-3GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc-Sp21
573	GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24
574	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24
575	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24
576	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24
577	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
578	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24
579	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp19
580	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp19
581	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24
582	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
583	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24
584	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24
585	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24
586	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24
587	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2)Mana1-3)Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAcb-Sp24
588	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3GalNAca-Sp14
589	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp14
590	Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3)GalNAca-Sp14
591	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3GalNAca-Sp14
592	GlcNAcb1-3Galb1-4GlcNAcb1-3GalNAca-Sp14
593	GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp14
594	GlcNAcb1-3Galb1-4GlcNAcb1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3)GalNAca-Sp14
595	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3)GalNAca-Sp14
596	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3GalNAca-Sp14
597	GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3GalNAca-Sp14
598	Galb1-4GlcNAcb1-3Galb1-3GalNAca-Sp14
599	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp14
600	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp14
601	Neu5Aca2-6Galb1-4GlcNAcb1-6(Galb1-3)GalNAca-Sp14
602	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12
603	GlcNAcb1-6(Neu5Aca2-3Galb1-3)GalNAca-Sp14
604	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-6(Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3)GalNAca-Sp14

150	91	272	107	17	45
-2	29	202	98	27	33
49	136	34	43	-5	19
-70	69	321	140	30	64
156	281	1264	499	2	17
43	2	134	116	227	164
108	37	10476	2841	57	69
39	30	258	253	-77	55
1805	381	28967	1628	4	48
62	35	261	86	-13	44
924	327	46193	1303	2778	356
1442	165	764	257	-140	154
11	9	371	45	-150	38
3855	1863	17577	1609	37	42
56	43	76	92	-161	104
9793	3496	34118	583	1118	121
-98	61	50	71	1	22
13867	1076	48274	2173	3491	1156
-23	54	275	177	298	153
48	95	169	255	943	891
48	72	24	39	500	304
-38	57	16	14	510	296
-72	29	14	22	-94	176
140	23	181	186	80	112
-5	13	15	16	45	107
107	54	298	351	158	123
69	62	5061	439	16	5
-15	69	35	18	40	50
94	23	106	121	-39	16
65	21	17	8	-141	29
-6	12	25	8	-56	56
78	100	185	123	-165	185
14	25	290	285	423	80
-154	66	300	238	726	329
33	58	51	67	84	64

836	48	233	35
686	88	252	50
240	271	-8	7
40030	3088	8	13
19238	1602	19826	1802
12565	2645	18	13
8160	309	22767	939
28424	4162	23	27
5689	651	21275	207
26376	4903	22	35
7250	1882	22253	2375
3714	416	19567	4341
1370	186	35	10
2506	235	19980	5066
1084	89	46	33
1104	127	28668	1581
441	43	-14	46
301	503	30284	710
519	51	2479	189
839	58	2131	214
1106	71	2646	701
93	50	-7	21
110	50	-8	27
177	198	-12	16
15	84	11	34
536	275	253	108
65	46	-8	7
129	100	87	27
5	71	1087	91
324	32	18	5
575	62	36	14
109	72	3	12
5343	1231	446	35
28	5	-20	10
965	62	179	41

605	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12
606	Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12
607	Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-6(Neu5Aca2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-2Mana1-3)Manb1-4GlcNAcb1-4GlcNAcb-Sp12
608	GlcNAcb1-3Fuca-Sp21
609	Galb1-3GalNAcb1-4(Neu5Aca2-8Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc-Sp21

74	73	3351	847	229	249
6	26	60	30	123	33
86	42	886	340	-4	27
29	23	54	38	-3	25
59	72	8	12	33	100

1505	448	62	23
3513	455	122	24
2236	206	480	35
-21	117	12	52
217	66	38	17