

Supplementary Table 1A. LC/ESI-FTICR-MS Glycopeptide Compositions for C.97ZA012 gp140 ΔCFI

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	*Mod	Glycan Composition
C1	3+	1686.5120	1686.4249	52	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]3[HexNAc]2[Fuc]1
	3+	1862.1899	1862.1532	20	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]5[HexNAc]3[Fuc]1
	3+	1853.7943	1853.8094	8	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]7[HexNAc]2
	3+	1961.8061	1961.8446	20	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]9[HexNAc]2
	4+	1228.5843	1228.5560	23	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]3[HexNAc]2
	4+	1279.3458	1279.3259	16	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]3[HexNAc]3
	4+	1315.8685	1315.8403	21	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]3[HexNAc]3[Fuc]1
	4+	1366.6483	1366.6102	28	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]3[HexNAc]4[Fuc]1
	4+	1380.8803	1380.8656	11	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]3[HexNAc]5
	4+	1417.4301	1417.3800	35	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]3[HexNAc]5[Fuc]1
	4+	1468.2086	1468.1499	40	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]3[HexNAc]6[Fuc]1
	4+	1269.0853	1269.0692	13	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]4[HexNAc]2
	4+	1319.8610	1319.8391	17	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]4[HexNAc]3
	4+	1356.3880	1356.3535	25	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]4[HexNAc]3[Fuc]1
	4+	1370.6337	1370.6089	18	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]4[HexNAc]4
	4+	1421.4149	1421.3788	25	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]4[HexNAc]5
	4+	1457.9081	1457.8932	10	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]4[HexNAc]5[Fuc]1
	4+	1508.7104	1508.6631	31	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]4[HexNAc]6[Fuc]1
	4+	1309.6095	1309.5824	21	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]5[HexNAc]2
	4+	1360.3998	1360.3523	35	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]5[HexNAc]3
	4+	1447.6798	1447.6366	30	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]5[HexNAc]4[Fuc]1
	4+	1498.4729	1498.4064	44	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]5[HexNAc]5[Fuc]1
	4+	1350.1311	1350.0956	26	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]6[HexNAc]2
	4+	1400.9080	1400.8655	30	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]6[HexNAc]3
	4+	1437.4307	1437.3692	43	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]6[HexNAc]3[Fuc]1
	4+	1451.6797	1451.6353	31	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]6[HexNAc]4
	4+	1538.9764	1538.9196	37	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]6[HexNAc]5[Fuc]1
	4+	1589.7191	1589.6895	19	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]6[HexNAc]6[Fuc]1
	4+	1390.6262	1390.6088	13	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]7[HexNAc]2
	4+	1630.2246	1630.2027	13	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]7[HexNAc]6[Fuc]1
	4+	1681.0378	1680.9725	39	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]7[HexNAc]7[Fuc]1
	4+	1431.1611	1431.1220	27	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]8[HexNAc]2
	4+	1471.6718	1471.6352	25	EVHNVWATHACVPTDNPQE IVLENTENFNMWK		[Hex]9[HexNAc]2
V1	2+	1384.6777	1384.6350	31	LTPLCVTLHCTNATFK		[Hex]3[HexNAc]2
	2+	1457.7006	1457.6640	25	LTPLCVTLHCTNATFK		[Hex]3[HexNAc]2[Fuc]1
	2+	1559.2514	1559.2037	31	LTPLCVTLHCTNATFK		[Hex]3[HexNAc]3[Fuc]1
	2+	1660.8085	1660.7433	39	LTPLCVTLHCTNATFK		[Hex]3[HexNAc]4[Fuc]1
	2+	1465.7070	1465.6615	31	LTPLCVTLHCTNATFK		[Hex]4[HexNAc]2
	2+	1538.7398	1538.6904	32	LTPLCVTLHCTNATFK		[Hex]4[HexNAc]2[Fuc]1
	2+	1567.2351	1567.2011	22	LTPLCVTLHCTNATFK		[Hex]4[HexNAc]3
	2+	1640.2806	1640.2301	31	LTPLCVTLHCTNATFK		[Hex]4[HexNAc]3[Fuc]1
	2+	1546.7388	1546.6878	33	LTPLCVTLHCTNATFK		[Hex]5[HexNAc]2
	2+	1648.2718	1648.2275	27	LTPLCVTLHCTNATFK		[Hex]5[HexNAc]3
	2+	1721.3096	1721.2565	31	LTPLCVTLHCTNATFK		[Hex]5[HexNAc]3[Fuc]1
	2+	1895.3128	1895.3149	1	LTPLCVTLHCTNATFK		[Hex]5[HexNAc]4[NeuNAc]1
	2+	1932.3649	1932.3333	16	LTPLCVTLHCTNATFK		[Hex]6[HexNAc]5
	2+	1789.8316	1789.7671	36	LTPLCVTLHCTNATFK		[Hex]8[HexNAc]2
	3+	1175.2204	1175.1911	25	LTPLCVTLHCTNATFK		[Hex]3[HexNAc]5[Fuc]1
	3+	1242.9176	1242.8842	27	LTPLCVTLHCTNATFK		[Hex]3[HexNAc]6[Fuc]1

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	*Mod	Glycan Composition
	3+	1229.2470	1229.2087	31	LTPLCVTLHCTNATFK		[Hex]4[HexNAc]5[Fuc]1
	3+	1215.5632	1215.5332	25	LTPLCVTLHCTNATFK		[Hex]5[HexNAc]4[Fuc]1
	3+	1283.2672	1283.2263	32	LTPLCVTLHCTNATFK		[Hex]5[HexNAc]5[Fuc]1
	3+	1085.5037	1085.4786	23	LTPLCVTLHCTNATFK		[Hex]6[HexNAc]2
	3+	1153.1944	1153.1717	20	LTPLCVTLHCTNATFK		[Hex]6[HexNAc]3
	3+	1337.2996	1337.2439	42	LTPLCVTLHCTNATFK		[Hex]6[HexNAc]5[Fuc]1
	3+	1434.3174	1434.2757	29	LTPLCVTLHCTNATFK		[Hex]6[HexNAc]5[Fuc]1[NeuNAc]1
	3+	1404.9861	1404.9370	35	LTPLCVTLHCTNATFK		[Hex]6[HexNAc]6[Fuc]1
	3+	1139.5243	1139.4962	25	LTPLCVTLHCTNATFK		[Hex]7[HexNAc]2
	3+	1247.5654	1247.5314	27	LTPLCVTLHCTNATFK		[Hex]9[HexNAc]2
	2+	1272.0752	1272.0499	20	NNVTNDMNKEIR		[Hex]3[HexNAc]3
	2+	1345.0995	1345.0788	15	NNVTNDMNKEIR		[Hex]3[HexNAc]3[Fuc]1
	2+	1373.618	1373.5895	21	NNVTNDMNKEIR		[Hex]3[HexNAc]4
	2+	1446.6509	1446.6185	22	NNVTNDMNKEIR		[Hex]3[HexNAc]4[Fuc]1
	2+	1475.1438	1475.1293	10	NNVTNDMNKEIR		[Hex]3[HexNAc]5
	2+	1548.1662	1548.1582	5	NNVTNDMNKEIR		[Hex]3[HexNAc]5[Fuc]1
	2+	1649.746	1649.6979	29	NNVTNDMNKEIR		[Hex]3[HexNAc]6[Fuc]1
	2+	1779.8017	1779.7483	30	NNVTNDMNKEIR		[Hex]3[HexNAc]8
	2+	1251.5479	1251.5366	9	NNVTNDMNKEIR		[Hex]4[HexNAc]2
	2+	1426.1328	1426.1052	19	NNVTNDMNKEIR		[Hex]4[HexNAc]3[Fuc]1
	2+	1454.6366	1454.6160	14	NNVTNDMNKEIR		[Hex]4[HexNAc]4
	2+	1332.5883	1332.5630	19	NNVTNDMNKEIR		[Hex]5[HexNAc]2
	2+	1413.5913	1413.5894	1	NNVTNDMNKEIR		[Hex]6[HexNAc]2
	2+	1494.6314	1494.6158	10	NNVTNDMNKEIR		[Hex]7[HexNAc]2
	2+	1575.6732	1575.6422	20	NNVTNDMNKEIR		[Hex]8[HexNAc]2
	3+	1797.1473	1797.1064	23	LTPLCVTLHCTNATFKNNVTNDMNKEIR		[Hex]6[HexNAc]6[Fuc]2
	3+	1864.8564	1864.7995	31	LTPLCVTLHCTNATFKNNVTNDMNKEIR		[Hex]6[HexNAc]7[Fuc]2
	3+	1932.4516	1932.4926	21	LTPLCVTLHCTNATFKNNVTNDMNKEIR		[Hex]6[HexNAc]8[Fuc]2
	4+	1348.0982	1348.0861	9	LTPLCVTLHCTNATFKNNVTNDMNKEIR		[Hex]6[HexNAc]6[Fuc]2
	4+	1449.6774	1449.6213	39	LTPLCVTLHCTNATFKNNVTNDMNKEIR		[Hex]6[HexNAc]8[Fuc]2
	4+	1500.4533	1500.3911	42	LTPLCVTLHCTNATFKNNVTNDMNKEIR		[Hex]6[HexNAc]9[Fuc]2
	4+	1551.1456	1551.1610	10	LTPLCVTLHCTNATFKNNVTNDMNKEIR		[Hex]6[HexNAc]10[Fuc]2
	4+	1392.6260	1392.5935	23	LTPLCVTLHCTNATFKNNVTNDMNKEIR		[Hex]8[HexNAc]6[Fuc]1
	4+	1443.4314	1443.3634	47	LTPLCVTLHCTNATFKNNVTNDMNKEIR		[Hex]8[HexNAc]7[Fuc]1
VI/V2	2+	1117.9978	1117.9650	29	NCSFNTTTEIR		[Hex]3[HexNAc]2
	2+	1191.0145	1190.9940	17	NCSFNTTTEIR		[Hex]3[HexNAc]2[Fuc]1
	2+	1292.5666	1292.5337	25	NCSFNTTTEIR		[Hex]3[HexNAc]3[Fuc]1
	2+	1394.1208	1394.0733	34	NCSFNTTTEIR		[Hex]3[HexNAc]4[Fuc]1
	2+	1495.6714	1495.6131	39	NCSFNTTTEIR		[Hex]3[HexNAc]5[Fuc]1
	2+	1597.2174	1597.1528	40	NCSFNTTTEIR		[Hex]3[HexNAc]6[Fuc]1
	2+	1199.0479	1198.9915	47	NCSFNTTTEIR		[Hex]4[HexNAc]2
	2+	1373.6023	1373.5601	31	NCSFNTTTEIR		[Hex]4[HexNAc]3[Fuc]1
	2+	1576.7074	1576.6394	43	NCSFNTTTEIR		[Hex]4[HexNAc]5[Fuc]1
	2+	1280.0545	1280.0178	29	NCSFNTTTEIR		[Hex]5[HexNAc]2
	2+	1381.6064	1381.5575	35	NCSFNTTTEIR		[Hex]5[HexNAc]3
	2+	1454.6422	1454.5865	38	NCSFNTTTEIR		[Hex]5[HexNAc]3[Fuc]1
	2+	1361.0869	1361.0443	31	NCSFNTTTEIR		[Hex]6 [HexNAc]2

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	*Mod	Glycan Composition
	2+	1462.6308	1462.5839	32	NCSFNTTTEIR		[Hex]6[HexNAc]3
	2+	1608.2094	1608.1316	48	NCSFNTTTEIR		[Hex]6[HexNAc]3[NeuNAc]1
	2+	1738.7870	1738.6923	54	NCSFNTTTEIR		[Hex]6[HexNAc]5[Fuc]1
	2+	1442.1192	1442.0707	34	NCSFNTTTEIR		[Hex]7[HexNAc]2
	2+	1523.144	1523.0971	31	NCSFNTTTEIR		[Hex]8[HexNAc]2
	3+	1706.3176	1706.3405	13	NCSFNTTTEIR		[Hex]7[HexNAc]13
	3+	1760.3012	1760.3581	32	NCSFNTTTEIR		[Hex]8[HexNAc]13
	3+	1611.3716	1611.2964	47	NCSFNTTTEIR		[Hex]9[HexNAc]10
	3+	1679.0649	1678.9895	45	NCSFNTTTEIR		[Hex]9[HexNAc]11
	3+	1746.7584	1746.6826	43	NCSFNTTTEIR		[Hex]9[HexNAc]12
	3+	1814.3407	1814.3757	19	NCSFNTTTEIR		[Hex]9[HexNAc]13
C2	2+	876.3345	876.3297	6	CNNK		[Hex]5[HexNAc]2
	2+	957.3649	957.3561	9	CNNK		[Hex]6[HexNAc]2
	2+	1038.3876	1038.3825	9	CNNK		[Hex]7[HexNAc]2
	2+	1119.4129	1119.4089	4	CNNK		[Hex]8[HexNAc]2
	2+	1200.4354	1200.4353	0.1	CNNK		[Hex]9[HexNAc]2
	5+	1296.6599	1296.6055	42	GPCNNVSTVQCTHGIKPVVSTQLLNGSLAEKEIIR		[Hex]10[HexNAc]4
	5+	1329.0505	1329.0160	26	GPCNNVSTVQCTHGIKPVVSTQLLNGSLAEKEIIR		[Hex]11[HexNAc]4
	5+	1361.4399	1361.4266	10	GPCNNVSTVQCTHGIKPVVSTQLLNGSLAEKEIIR		[Hex]12[HexNAc]4
	5+	1393.8780	1393.8371	29	GPCNNVSTVQCTHGIKPVVSTQLLNGSLAEKEIIR		[Hex]13[HexNAc]4
	5+	1426.2056	1426.2477	30	GPCNNVSTVQCTHGIKPVVSTQLLNGSLAEKEIIR		[Hex]14[HexNAc]4
	5+	1458.6355	1458.6583	16	GPCNNVSTVQCTHGIKPVVSTQLLNGSLAEKEIIR		[Hex]15[HexNAc]4
	5+	1491.0972	1491.0688	19	GPCNNVSTVQCTHGIKPVVSTQLLNGSLAEKEIIR		[Hex]16[HexNAc]4
	5+	1523.4186	1523.4793	40	GPCNNVSTVQCTHGIKPVVSTQLLNGSLAEKEIIR		[Hex]17[HexNAc]4
	5+	1555.9773	1555.8900	56	GPCNNVSTVQCTHGIKPVVSTQLLNGSLAEKEIIR		[Hex]18[HexNAc]4
	2+	956.4303	956.4125	19	SENLDNVK		[Hex]3[HexNAc]2
	2+	1029.4577	1029.4414	16	SENLDNVK		[Hex]3[HexNAc]2[Fuc]1
	2+	1057.9724	1057.9522	19	SENLDNVK		[Hex]3[HexNAc]3
	2+	1131.0034	1130.9811	20	SENLDNVK		[Hex]3[HexNAc]3[Fuc]1
	2+	1159.5209	1159.4918	25	SENLDNVK		[Hex]3[HexNAc]4
	2+	1232.5498	1232.5208	24	SENLDNVK		[Hex]3[HexNAc]4[Fuc]1
	2+	1261.0560	1261.0316	19	SENLDNVK		[Hex]3[HexNAc]5
	2+	1334.0944	1334.0605	25	SENLDNVK		[Hex]3[HexNAc]5[Fuc]1
	2+	1435.6382	1435.6002	26	SENLDNVK		[Hex]3[HexNAc]6[Fuc]1
	2+	1037.4598	1037.4389	20	SENLDNVK		[Hex]4[HexNAc]2
	2+	1110.4972	1110.4678	26	SENLDNVK		[Hex]4[HexNAc]2[Fuc]1
	2+	1139.0038	1138.9786	22	SENLDNVK		[Hex]4[HexNAc]3
	2+	1212.0326	1212.0075	21	SENLDNVK		[Hex]4[HexNAc]3[Fuc]1
	2+	1357.5870	1357.5552	23	SENLDNVK		[Hex]4[HexNAc]3[Fuc]1[NeuNAc]1
	2+	1240.5444	1240.5183	21	SENLDNVK		[Hex]4[HexNAc]4
	2+	1342.0880	1342.0580	22	SENLDNVK		[Hex]4[HexNAc]5
	2+	1415.1224	1415.0868	25	SENLDNVK		[Hex]4[HexNAc]5[Fuc]1
	2+	1560.6747	1560.6346	26	SENLDNVK		[Hex]4[HexNAc]5[Fuc]1[NeuNAc]1
	2+	1118.4875	1118.4653	20	SENLDNVK		[Hex]5[HexNAc]2
	2+	1220.0333	1220.0050	23	SENLDNVK		[Hex]5[HexNAc]3
	2+	1293.0656	1293.0339	25	SENLDNVK		[Hex]5[HexNAc]3[Fuc]1
	2+	1365.5911	1365.5527	28	SENLDNVK		[Hex]5[HexNAc]3[NeuNAc]1
	2+	1321.5876	1321.5447	32	SENLDNVK		[Hex]5[HexNAc]4
	2+	1394.6147	1394.5736	29	SENLDNVK		[Hex]5[HexNAc]4[Fuc]1
	2+	1540.1956	1540.1213	48	SENLDNVK		[Hex]5[HexNAc]4[Fuc]1[NeuNAc]1

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	*Mod	Glycan Composition
	2+	1496.1582	1496.1133	30	SENLTDNVK		[Hex]5[HexNac]5[Fuc]1
	2+	1199.5260	1199.4917	29	SENLTDNVK		[Hex]6[HexNac]2
	2+	1301.0584	1301.0313	21	SENLTDNVK		[Hex]6[HexNac]3
	2+	1374.0952	1374.0603	25	SENLTDNVK		[Hex]6[HexNac]3[Fuc]1
	2+	1446.6307	1446.5791	36	SENLTDNVK		[Hex]6[HexNac]3[NeuNac]1
	2+	1548.1885	1548.1187	45	SENLTDNVK		[Hex]6[HexNac]4[NeuNac]1
	2+	1577.1939	1577.1397	34	SENLTDNVK		[Hex]6[HexNac]5[Fuc]1
	2+	1722.7309	1722.6874	25	SENLTDNVK		[Hex]6[HexNac]5[Fuc]1[NeuNac]1
	2+	1678.7197	1678.6794	24	SENLTDNVK		[Hex]6[HexNac]6[Fuc]1
	2+	1780.2788	1780.2190	34	SENLTDNVK		[Hex]6[HexNac]7[Fuc]1
	2+	1280.5508	1280.5181	26	SENLTDNVK		[Hex]7[HexNac]2
	2+	1382.0808	1382.0577	17	SENLTDNVK		[Hex]7[HexNac]3
	2+	1759.7514	1759.7058	26	SENLTDNVK		[Hex]7[HexNac]6[Fuc]1
	2+	1905.3157	1905.2535	33	SENLTDNVK		[Hex]7[HexNac]6[Fuc]1[NeuNac]1
	2+	1361.5776	1361.5445	24	SENLTDNVK		[Hex]8[HexNac]2
	2+	1442.6102	1442.5709	27	SENLTDNVK		[Hex]9[HexNac]2
	2+	915.4720	915.4538	20	TIIVHLNK		[Hex]3[HexNac]2
	2+	988.4410	988.4827	42	TIIVHLNK		[Hex]3[HexNac]2[Fuc]1
	2+	1017.0183	1016.9934	24	TIIVHLNK		[Hex]3[HexNac]3
	2+	1090.0482	1090.0224	24	TIIVHLNK		[Hex]3[HexNac]3[Fuc]1
	2+	1191.5970	1191.5621	29	TIIVHLNK		[Hex]3[HexNac]4[Fuc]1
	2+	1191.5062	1191.5620	47	TIIVHLNK		[Hex]3[HexNac]4[Fuc]1
	2+	1293.1412	1293.1018	30	TIIVHLNK		[Hex]3[HexNac]5[Fuc]1
	2+	1394.6893	1394.6415	34	TIIVHLNK		[Hex]3[HexNac]6[Fuc]1
	2+	996.5012	996.4802	21	TIIVHLNK		[Hex]4[HexNac]2
	2+	1069.5296	1069.5091	19	TIIVHLNK		[Hex]4[HexNac]2[Fuc]1
	2+	1098.0471	1098.0198	25	TIIVHLNK		[Hex]4[HexNac]3
	2+	1243.5482	1243.5675	16	TIIVHLNK		[Hex]4[HexNac]3[NeuNac]1
	2+	1171.0464	1171.0488	2	TIIVHLNK		[Hex]4[HexNac]3[Fuc]1
	2+	1272.5818	1272.5885	5	TIIVHLNK		[Hex]4[HexNac]4[Fuc]1
	2+	1374.1820	1374.1281	39	TIIVHLNK		[Hex]4[HexNac]5[Fuc]1
	2+	1475.7241	1475.6678	38	TIIVHLNK		[Hex]4[HexNac]6[Fuc]1
	2+	1077.5315	1077.5065	23	TIIVHLNK		[Hex]5[HexNac]2
	2+	1179.0788	1179.0463	28	TIIVHLNK		[Hex]5[HexNac]3
	2+	1273.5971	1273.5781	15	TIIVHLNK	u	[Hex]5[HexNac]3[Fuc]1
	2+	1324.6427	1324.5939	37	TIIVHLNK		[Hex]5[HexNac]3[NeuNac]1
	2+	1280.5825	1280.5859	3	TIIVHLNK		[Hex]5[HexNac]4
	2+	1353.6611	1353.6149	34	TIIVHLNK		[Hex]5[HexNac]4[Fuc]1
	2+	1455.2162	1455.1546	42	TIIVHLNK		[Hex]5[HexNac]5[Fuc]1
	2+	1158.5623	1158.5330	25	TIIVHLNK		[Hex]6 [HexNac]2
	2+	1260.1105	1260.0727	30	TIIVHLNK		[Hex]6[HexNac]3
	2+	1536.2442	1536.1810	41	TIIVHLNK		[Hex]6[HexNac]5[Fuc]1
	2+	1637.8065	1637.7207	52	TIIVHLNK		[Hex]6[HexNac]6[Fuc]1
	2+	1239.5926	1239.5594	27	TIIVHLNK		[Hex]7[HexNac]2
	2+	1442.6243	1442.6387	10	TIIVHLNK		[Hex]7[HexNac]4
	2+	1718.8062	1718.7471	34	TIIVHLNK		[Hex]7[HexNac]6[Fuc]1
	2+	1320.6260	1320.5858	30	TIIVHLNK		[Hex]8[HexNac]2
	2+	1401.6595	1401.6122	34	TIIVHLNK		[Hex]9[HexNac]2
V3	2+	1276.5904	1276.5737	13	SVEIVCTRPNNNTR		[Hex]3[HexNac]2
	2+	1349.6405	1349.6027	28	SVEIVCTRPNNNTR		[Hex]3[HexNac]2[Fuc]1
	2+	1378.1364	1378.1135	17	SVEIVCTRPNNNTR		[Hex]3[HexNac]3
	2+	1451.1843	1451.1424	29	SVEIVCTRPNNNTR		[Hex]3[HexNac]3[Fuc]1
	2+	1552.7354	1552.6821	34	SVEIVCTRPNNNTR		[Hex]3[HexNac]4[Fuc]1

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	*Mod	Glycan Composition
	2+	1654.2851	1654.2218	38	SVEIVCTRPNNNTR		[Hex]3[HexNAc]5[Fuc]1
	2+	1755.8392	1755.7615	44	SVEIVCTRPNNNTR		[Hex]3[HexNAc]6[Fuc]1
	2+	1357.6521	1357.6002	38	SVEIVCTRPNNNTR		[Hex]4[HexNAc]2
	2+	1430.6608	1430.6291	22	SVEIVCTRPNNNTR		[Hex]4[HexNAc]2[Fuc]1
	2+	1459.1633	1459.1399	16	SVEIVCTRPNNNTR		[Hex]4[HexNAc]3
	2+	1519.7144	1519.6530	40	SVEIVCTRPNNNTR		[Hex]4[HexNAc]3[Fuc]1
	2+	1779.3263	1779.2562	39	SVEIVCTRPNNNTR		[Hex]4[HexNAc]4[Fuc]1[NeuNAc]1
	2+	1735.3202	1735.2482	41	SVEIVCTRPNNNTR		[Hex]4[HexNAc]5[Fuc]1
	2+	1836.8581	1836.7879	38	SVEIVCTRPNNNTR		[Hex]4[HexNAc]6[Fuc]1
	2+	1438.6718	1438.6266	31	SVEIVCTRPNNNTR		[Hex]5[HexNAc]2
	2+	1540.2219	1540.1663	36	SVEIVCTRPNNNTR		[Hex]5[HexNAc]3
	2+	1685.7918	1685.7140	46	SVEIVCTRPNNNTR		[Hex]5[HexNAc]3 [NeuNAc]1
	2+	1613.2550	1613.1952	37	SVEIVCTRPNNNTR		[Hex]5[HexNAc]3[Fuc]1
	2+	1714.8037	1714.7349	40	SVEIVCTRPNNNTR		[Hex]5[HexNAc]4[Fuc]1
	2+	1860.3649	1860.2826	44	SVEIVCTRPNNNTR		[Hex]5[HexNAc]4[Fuc]1[NeuNAc]1
	2+	1816.3529	1816.2746	43	SVEIVCTRPNNNTR		[Hex]5[HexNAc]5[Fuc]1
	2+	1532.2272	1532.1688	38	SVEIVCTRPNNNTR		[Hex]6[HexNAc]2
	2+	1621.2623	1621.1927	43	SVEIVCTRPNNNTR		[Hex]6[HexNAc]3
	2+	1694.3083	1694.2216	51	SVEIVCTRPNNNTR		[Hex]6[HexNAc]3[Fuc]1
	2+	1766.8233	1766.7404	47	SVEIVCTRPNNNTR		[Hex]6[HexNAc]3[NeuNAc]1
	2+	1897.3697	1897.3010	36	SVEIVCTRPNNNTR		[Hex]6[HexNAc]5[Fuc]1
	2+	1998.9021	1998.8407	31	SVEIVCTRPNNNTR		[Hex]6[HexNAc]6[Fuc]1
	2+	1600.7324	1600.6794	33	SVEIVCTRPNNNTR		[Hex]7[HexNAc]2
	2+	1681.7540	1681.7058	29	SVEIVCTRPNNNTR		[Hex]8[HexNAc]2
	2+	1762.7966	1762.7322	37	SVEIVCTRPNNNTR		[Hex]9[HexNAc]2
	3+	1089.4754	1089.4748	0.6	SVEIVCTRPNNNTR		[Hex]4[HexNAc]4[Fuc]1
	3+	1251.5655	1251.5276	30	SVEIVCTRPNNNTR		[Hex]7[HexNAc]4[Fuc]1
V3-C3	2+	1172.4950	1172.4725	19	QAYCNISGSK		[Hex]5[HexNAc]2
	2+	1253.5254	1253.4990	21	QAYCNISGSK		[Hex]6 [HexNAc]2
	2+	1334.5520	1334.5254	20	QAYCNISGSK		[Hex]7[HexNAc]2
	2+	1415.5828	1415.5518	22	QAYCNISGSK		[Hex]8[HexNAc]2
	2+	1496.5630	1496.5782	10	QAYCNISGSK		[Hex]9[HexNAc]2
	3+	1334.6001	1334.5698	23	QAYCNISGSKWNETLKR		[Hex]7[HexNAc]4
	3+	1388.6230	1388.5874	26	QAYCNISGSKWNETLKR		[Hex]8[HexNAc]4
	3+	1442.6330	1442.6050	19	QAYCNISGSKWNETLKR		[Hex]9[HexNAc]4
	3+	1496.6594	1496.6226	25	QAYCNISGSKWNETLKR		[Hex]10[HexNAc]4
	3+	1550.6893	1550.6402	32	QAYCNISGSKWNETLKR		[Hex]11[HexNAc]4
	3+	1604.7089	1604.6578	32	QAYCNISGSKWNETLKR		[Hex]12[HexNAc]4
	3+	1658.7397	1658.6754	39	QAYCNISGSKWNETLKR		[Hex]13[HexNAc]4
	3+	1712.7547	1712.6930	36	QAYCNISGSKWNETLKR		[Hex]14[HexNAc]4
	3+	1766.8082	1766.7106	55	QAYCNISGSKWNETLKR		[Hex]15[HexNAc]4
	3+	1820.8056	1820.7282	43	QAYCNISGSKWNETLKR		[Hex]16[HexNAc]4
	3+	1874.8961	1874.7459	80	QAYCNISGSKWNETLKR		[Hex]17[HexNAc]4
	3+	1928.8834	1928.7635	62	QAYCNISGSKWNETLKR		[Hex]18[HexNAc]4
C3	2+	919.9367	919.9175	21	WNETLKR		[Hex]3[HexNAc]2
	2+	1123.0239	1122.9969	24	WNETLKR		[Hex]3[HexNAc]4
	2+	1224.5699	1224.5366	27	WNETLKR		[Hex]3[HexNAc]5
	2+	1399.1470	1399.1053	30	WNETLKR		[Hex]3[HexNAc]6[Fuc]1
	2+	1204.0549	1204.0233	26	WNETLKR		[Hex]4 [HexNAc]4

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	*Mod	Glycan Composition
	2+	1000.9697	1000.9440	26	WNETLKR		[Hex]4[HexNAc]2
	2+	1102.5087	1102.4836	23	WNETLKR		[Hex]4[HexNAc]3
	2+	1305.6017	1305.5630	30	WNETLKR		[Hex]4[HexNAc]5
	2+	1081.9945	1081.9703	22	WNETLKR		[Hex]5[HexNAc]2
	2+	1183.5387	1183.5100	24	WNETLKR		[Hex]5 [HexNAc]3
	2+	1285.0841	1285.0497	27	WNETLKR		[Hex]5[HexNAc]4
	2+	1386.6634	1386.5894	53	WNETLKR		[Hex]5[HexNAc]5
	2+	1163.0235	1162.9968	23	WNETLKR		[Hex]6 [HexNAc]2
	2+	1264.5690	1264.5364	26	WNETLKR		[Hex]6[HexNAc]3
	2+	1244.0543	1244.0232	25	WNETLKR		[Hex]7[HexNAc]2
	2+	1345.5809	1345.5628	14	WNETLKR		[Hex]7[HexNAc]3
	2+	1325.0836	1325.0496	26	WNETLKR		[Hex]8[HexNAc]2
	2+	1406.1140	1406.0760	27	WNETLKR		[Hex]9[HexNAc]2
	2+	1088.9757	1088.9543	20	WNETLK		[Hex]3[HexNAc]3[NeuNAc]1
	2+	1451.1822	1451.1051	53	WNETLK		[Hex]3[HexNAc]8
	2+	1024.4533	1024.4330	20	WNETLK		[Hex]4[HexNAc]3
	2+	1105.4787	1105.4594	17	WNETLK		[Hex]5 [HexNAc]3
	2+	1003.9372	1003.9197	17	WNETLK		[Hex]5[HexNAc]2
	2+	1280.0909	1280.0281	49	WNETLK		[Hex]5[HexNAc]4[Fuc]1
	2+	1186.5135	1186.4858	23	WNETLK		[Hex]6[HexNAc]3
	2+	1165.9929	1165.9726	17	WNETLK		[Hex]7[HexNAc]2
	2+	1246.9933	1246.9990	5	WNETLK		[Hex]8[HexNAc]2
	2+	1328.0590	1328.0254	25	WNETLK		[Hex]9[HexNAc]2
C3-V4	2+	1093.9657	1093.9383	25	GEFFYCNTTR		[Hex]3[HexNAc]2
	2+	1166.9921	1166.9672	21	GEFFYCNTTR		[Hex]3[HexNAc]2[Fuc]1
	2+	1195.5113	1195.4780	28	GEFFYCNTTR		[Hex]3[HexNAc]3
	2+	1370.0910	1370.0466	32	GEFFYCNTTR		[Hex]3[HexNAc]4[Fuc]1
	2+	1471.6524	1471.5863	45	GEFFYCNTTR		[Hex]3[HexNAc]5[Fuc]1
	2+	1174.9952	1174.9647	26	GEFFYCNTTR		[Hex]4[HexNAc]2
	2+	1248.0019	1248.9936	7	GEFFYCNTTR		[Hex]4[HexNAc]2[Fuc]1
	2+	1276.5403	1276.5044	28	GEFFYCNTTR		[Hex]4[HexNAc]3
	2+	1256.0260	1255.9911	28	GEFFYCNTTR		[Hex]5[HexNAc]2
	2+	1357.5722	1357.5308	30	GEFFYCNTTR		[Hex]5[HexNAc]3
	2+	1459.1171	1459.0705	32	GEFFYCNTTR		[Hex]5[HexNAc]4
	2+	1532.1898	1532.0994	59	GEFFYCNTTR		[Hex]5[HexNAc]4[Fuc]1
	2+	1337.0591	1337.0175	31	GEFFYCNTTR		[Hex]6[HexNAc]2
	2+	1438.6049	1438.5572	33	GEFFYCNTTR		[Hex]6[HexNAc]3
	2+	1584.1540	1584.1049	31	GEFFYCNTTR		[Hex]6[HexNAc]3[NeuNAc]1
	2+	1418.0916	1418.0439	34	GEFFYCNTTR		[Hex]7[HexNAc]2
	2+	1499.1256	1499.0703	37	GEFFYCNTTR		[Hex]8[HexNAc]2
	2+	1580.1622	1580.0967	41	GEFFYCNTTR		[Hex]9[HexNAc]2
V4	2+	1450.6851	1450.6342	35	LFNNAATEDETITLPCR		[Hex]3[HexNAc]2
	2+	1523.7186	1523.6632	36	LFNNAATEDETITLPCR		[Hex]3[HexNAc]2[Fuc]1
	2+	1625.2556	1625.2029	32	LFNNAATEDETITLPCR		[Hex]3[HexNAc]3[Fuc]1
	2+	1552.1417	1552.1739	21	LFNNAATEDETITLPCR		[Hex]3[HexNAc]3
	2+	1645.7652	1645.7162	30	LFNNAATEDETITLPCR		[Hex]3[HexNAc]4
	2+	1726.8106	1726.7425	39	LFNNAATEDETITLPCR		[Hex]3[HexNAc]4[Fuc]1
	2+	1828.3565	1828.2823	41	LFNNAATEDETITLPCR		[Hex]3[HexNAc]5[Fuc]1
	2+	1929.9076	1929.8220	44	LFNNAATEDETITLPCR		[Hex]3[HexNAc]6[Fuc]1
	2+	1531.7085	1531.6607	31	LFNNAATEDETITLPCR		[Hex]4[HexNAc]2
	2+	1604.7392	1604.6896	31	LFNNAATEDETITLPCR		[Hex]4[HexNAc]2[Fuc]1
	2+	1633.2417	1633.2003	25	LFNNAATEDETITLPCR		[Hex]4[HexNAc]3

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	*Mod	Glycan Composition
	2+	1706.2875	1706.2293	34	LFNNNATEDETITLPCR		[Hex]4[HexNAc]3[Fuc]1
	2+	1734.7963	1734.7400	32	LFNNNATEDETITLPCR		[Hex]4[HexNAc]4
	2+	1807.7922	1807.7690	13	LFNNNATEDETITLPCR		[Hex]4[HexNAc]4[Fuc]1
	2+	1909.3931	1909.3086	44	LFNNNATEDETITLPCR		[Hex]4[HexNAc]5[Fuc]1
	2+	1612.7440	1612.6870	35	LFNNNATEDETITLPCR		[Hex]5[HexNAc]2
	2+	1714.2858	1714.2267	34	LFNNNATEDETITLPCR		[Hex]5[HexNAc]3
	2+	1859.8508	1859.7744	41	LFNNNATEDETITLPCR		[Hex]5[HexNAc]3 [NeuNAc]1
	2+	1787.3205	1787.2557	36	LFNNNATEDETITLPCR		[Hex]5[HexNAc]3[Fuc]1
	2+	1815.8237	1815.7664	32	LFNNNATEDETITLPCR		[Hex]5[HexNAc]4
	2+	1888.8723	1888.7954	41	LFNNNATEDETITLPCR		[Hex]5[HexNAc]4[Fuc]1
	2+	1990.4325	1990.3351	49	LFNNNATEDETITLPCR		[Hex]5[HexNAc]5[Fuc]1
	2+	1693.7797	1693.7135	39	LFNNNATEDETITLPCR		[Hex]6 [HexNAc]2
	2+	1795.3187	1795.2531	37	LFNNNATEDETITLPCR		[Hex]6[HexNAc]3
	2+	1940.8899	1940.8008	46	LFNNNATEDETITLPCR		[Hex]6[HexNAc]3[NeuNAc]1
	2+	1774.8088	1774.7399	39	LFNNNATEDETITLPCR		[Hex]7[HexNAc]2
	2+	1977.8640	1977.8192	23	LFNNNATEDETITLPCR		[Hex]7[HexNAc]4
	2+	1855.8297	1855.7663	34	LFNNNATEDETITLPCR		[Hex]8[HexNAc]2
	2+	1936.8764	1936.7927	43	LFNNNATEDETITLPCR		[Hex]9[HexNAc]2
C4	2+	1200.0686	1200.0344	28	AMYAPPIAGNITCK		[Hex]3[HexNAc]2
	2+	1273.1003	1273.0634	29	AMYAPPIAGNITCK		[Hex]3[HexNAc]2[Fuc]1
	2+	1301.6181	1301.5741	34	AMYAPPIAGNITCK		[Hex]3[HexNAc]3
	2+	1374.6435	1374.6031	29	AMYAPPIAGNITCK		[Hex]3[HexNAc]3[Fuc]1
	2+	1476.1918	1476.1427	33	AMYAPPIAGNITCK		[Hex]3[HexNAc]4[Fuc]1
	2+	1577.7494	1577.6825	42	AMYAPPIAGNITCK		[Hex]3[HexNAc]5[Fuc]1
	2+	1679.2974	1679.2221	45	AMYAPPIAGNITCK		[Hex]3[HexNAc]6[Fuc]1
	2+	1281.1006	1281.0609	31	AMYAPPIAGNITCK		[Hex]4[HexNAc]2
	2+	1354.1294	1354.0898	29	AMYAPPIAGNITCK		[Hex]4[HexNAc]2[Fuc]1
	2+	1382.6351	1382.6005	25	AMYAPPIAGNITCK		[Hex]4[HexNAc]3
	2+	1455.6522	1455.6294	16	AMYAPPIAGNITCK		[Hex]4[HexNAc]3[Fuc]1
	2+	1601.1928	1601.1772	10	AMYAPPIAGNITCK		[Hex]4[HexNAc]3[Fuc]1[NeuNAc]1
	2+	1557.1989	1557.1691	19	AMYAPPIAGNITCK		[Hex]4[HexNAc]4[Fuc]1
	2+	1702.7136	1702.7168	2	AMYAPPIAGNITCK		[Hex]4[HexNAc]4[Fuc]1[NeuNAc]1
	2+	1658.7412	1658.7088	20	AMYAPPIAGNITCK		[Hex]4[HexNAc]5[Fuc]1
	2+	1804.3092	1804.2566	29	AMYAPPIAGNITCK		[Hex]4[HexNAc]5[Fuc]1[NeuNAc]1
	2+	1362.1292	1362.0872	31	AMYAPPIAGNITCK		[Hex]5[HexNAc]2
	2+	1463.6758	1463.6269	33	AMYAPPIAGNITCK		[Hex]5[HexNAc]3
	2+	1536.6811	1536.6558	17	AMYAPPIAGNITCK		[Hex]5[HexNAc]3[Fuc]1
	2+	1682.2059	1682.2035	1	AMYAPPIAGNITCK		[Hex]5[HexNAc]3[Fuc]1[NeuNAc]1
	2+	1565.2205	1565.1666	34	AMYAPPIAGNITCK		[Hex]5[HexNAc]4
	2+	1638.2647	1638.1956	42	AMYAPPIAGNITCK		[Hex]5[HexNAc]4[Fuc]1
	2+	1783.8007	1783.7433	32	AMYAPPIAGNITCK		[Hex]5[HexNAc]4[Fuc]1[NeuNAc]1
	2+	1739.8263	1739.7353	52	AMYAPPIAGNITCK		[Hex]5[HexNAc]5[Fuc]1
	2+	1443.1611	1443.1137	33	AMYAPPIAGNITCK		[Hex]6[HexNAc]2
	2+	1544.7135	1544.6533	39	AMYAPPIAGNITCK		[Hex]6[HexNAc]3
	2+	1690.2101	1690.2010	5	AMYAPPIAGNITCK		[Hex]6[HexNAc]3[Fuc]1
	2+	1820.8195	1820.7617	32	AMYAPPIAGNITCK		[Hex]6[HexNAc]5[Fuc]1
	2+	1922.4336	1922.3014	69	AMYAPPIAGNITCK		[Hex]6[HexNAc]6[Fuc]1
	2+	1524.1966	1524.1401	37	AMYAPPIAGNITCK		[Hex]7[HexNAc]2
	2+	1605.2277	1605.1665	38	AMYAPPIAGNITCK		[Hex]8[HexNAc]2
	2+	1686.2629	1686.1929	42	AMYAPPIAGNITCK		[Hex]9[HexNAc]2
	2+	989.5169	989.4961	21	SNITGLLLVR		[Hex]3[HexNAc]2

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	*Mod	Glycan Composition
	2+	1091.0551	1091.0358	18	SNITGLLLVR		[Hex]3[HexNAc]3
	2+	1164.0906	1164.0648	22	SNITGLLLVR		[Hex]3[HexNAc]3[Fuc]1
	2+	1265.6380	1265.6044	27	SNITGLLLVR		[Hex]3[HexNAc]4[Fuc]1
	2+	1367.1844	1367.1442	29	SNITGLLLVR		[Hex]3[HexNAc]5[Fuc]1
	2+	1468.7285	1468.6839	30	SNITGLLLVR		[Hex]3[HexNAc]6[Fuc]1
	2+	1070.5063	1070.5226	15	SNITGLLLVR		[Hex]4[HexNAc]2
	2+	1143.5409	1143.5515	9	SNITGLLLVR		[Hex]4[HexNAc]2[Fuc]1
	2+	1172.0637	1172.0622	1	SNITGLLLVR		[Hex]4[HexNAc]3
	2+	1245.1227	1245.0912	25	SNITGLLLVR		[Hex]4[HexNAc]3[Fuc]1
	2+	1346.6433	1346.6309	9	SNITGLLLVR		[Hex]4[HexNAc]4[Fuc]1
	2+	1448.2194	1448.1705	34	SNITGLLLVR		[Hex]4[HexNAc]5[Fuc]1
	2+	1151.5758	1151.5489	23	SNITGLLLVR		[Hex]5[HexNAc]2
	2+	1253.1304	1253.0886	33	SNITGLLLVR	for	[Hex]5[HexNAc]3
	2+	1354.6676	1354.6283	29	SNITGLLLVR		[Hex]5[HexNAc]4
	2+	1427.7146	1427.6573	40	SNITGLLLVR		[Hex]5[HexNAc]4[Fuc]1
	2+	1232.6060	1232.5754	25	SNITGLLLVR		[Hex]6[HexNAc]2
	2+	1334.1509	1334.1150	27	SNITGLLLVR		[Hex]6[HexNAc]3
	2+	1435.6395	1435.6547	11	SNITGLLLVR		[Hex]6[HexNAc]4
	2+	1421.1467	1421.1414	4	SNITGLLLVR		[Hex]6[HexNAc]3[Fuc]1
	2+	1313.6385	1313.6018	28	SNITGLLLVR		[Hex]7[HexNAc]2
	2+	1394.6699	1394.6282	30	SNITGLLLVR		[Hex]8[HexNAc]2
	2+	1475.7002	1475.6546	31	SNITGLLLVR		[Hex]9[HexNAc]2
C4-V5	3+	1063.8152	1063.7889	25	DGGEDNKTEEIFRPGGGNMK		[Hex]3[HexNAc]2[Fuc]1
	3+	1131.5104	1131.4821	25	DGGEDNKTEEIFRPGGGNMK		[Hex]3[HexNAc]3[Fuc]1
	3+	1199.2089	1199.1752	28	DGGEDNKTEEIFRPGGGNMK		[Hex]3[HexNAc]4[Fuc]1
	3+	1239.5698	1239.5173	42	DGGEDNKTEEIFRPGGGNMK		[Hex]3[HexNAc]5[Fuc]1
	3+	1334.6035	1334.5615	31	DGGEDNKTEEIFRPGGGNMK		[Hex]3[HexNAc]6[Fuc]1
	3+	1069.1379	1069.1206	16	DGGEDNKTEEIFRPGGGNMK		[Hex]4[HexNAc]2
	3+	1117.8079	1117.8065	1	DGGEDNKTEEIFRPGGGNMK		[Hex]4[HexNAc]2[Fuc]1
	3+	1185.5072	1185.4997	6	DGGEDNKTEEIFRPGGGNMK		[Hex]4[HexNAc]3[Fuc]1
	3+	1253.1859	1253.1928	6	DGGEDNKTEEIFRPGGGNMK		[Hex]4[HexNAc]4[Fuc]1
	3+	1307.2475	1307.2104	28	DGGEDNKTEEIFRPGGGNMK		[Hex]4[HexNAc]5[Fuc]1
	3+	1417.9376	1417.9177	14	DGGEDNKTEEIFRPGGGNMK		[Hex]4 [HexNAc]5 [Fuc]1[NeuNAc]1
	3+	1388.5921	1388.5790	9	DGGEDNKTEEIFRPGGGNMK		[Hex]4[HexNAc]6[Fuc]1
	3+	1436.9137	1436.9249	8	DGGEDNKTEEIFRPGGGNMK		[Hex]4 [HexNAc]6[NeuNAc]1
	3+	1388.5921	1388.5790	9	DGGEDNKTEEIFRPGGGNMK		[Hex]4[HexNAc]6[Fuc]1
	3+	1485.6349	1485.6109	16	DGGEDNKTEEIFRPGGGNMK		[Hex]4 [HexNAc]6 [Fuc]1[NeuNAc]1
	3+	1123.1648	1123.1382	24	DGGEDNKTEEIFRPGGGNMK		[Hex]5[HexNAc]2
	3+	1266.9052	1266.8683	29	DGGEDNKTEEIFRPGGGNMK		[Hex]5[HexNAc]4[Fuc]1
	3+	1404.2641	1404.2422	16	DGGEDNKTEEIFRPGGGNMK		[Hex]5 [HexNAc]4[Fuc]1[NeuNAc]1
	3+	1374.9596	1374.9035	41	DGGEDNKTEEIFRPGGGNMK		[Hex]5[HexNAc]5[Fuc]1
	3+	1471.9661	1471.9353	21	DGGEDNKTEEIFRPGGGNMK		[Hex]5[HexNAc]5 [Fuc]1[NeuNAc]1
	3+	1177.2079	1177.1558	44	DGGEDNKTEEIFRPGGGNMK		[Hex]6 [HexNAc]2
	3+	1341.8994	1341.8807	14	DGGEDNKTEEIFRPGGGNMK		[Hex]6 [HexNAc]3[NeuNAc]1
	3+	1428.9265	1428.9211	4	DGGEDNKTEEIFRPGGGNMK		[Hex]6[HexNAc]5 [Fuc]1
	3+	1525.9502	1525.9529	2	DGGEDNKTEEIFRPGGGNMK		[Hex]6[HexNAc]5 [Fuc]1[NeuNAc]1
	3+	1622.9501	1622.9847	21	DGGEDNKTEEIFRPGGGNMK		[Hex]6[HexNAc]5 [Fuc]1[NeuNAc]2
	3+	1496.6116	1496.6143	2	DGGEDNKTEEIFRPGGGNMK		[Hex]6[HexNAc]6 [Fuc]1
	3+	1593.6965	1593.6460	32	DGGEDNKTEEIFRPGGGNMK		[Hex]6[HexNAc]6 [Fuc]1[NeuNAc]1
	3+	1690.7330	1690.6779	33	DGGEDNKTEEIFRPGGGNMK		[Hex]6[HexNAc]6 [Fuc]1[NeuNAc]2
	3+	1564.3675	1564.3074	38	DGGEDNKTEEIFRPGGGNMK		[Hex]6[HexNAc]7 [Fuc]1
	3+	1661.3996	1661.3391	36	DGGEDNKTEEIFRPGGGNMK		[Hex]6[HexNAc]7 [Fuc]1[NeuNAc]1
	3+	1758.4192	1758.3710	27	DGGEDNKTEEIFRPGGGNMK		[Hex]6[HexNAc]7 [Fuc]1[NeuNAc]2
	3+	1231.2050	1231.1734	26	DGGEDNKTEEIFRPGGGNMK		[Hex]7[HexNAc]2

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	*Mod	Glycan Composition
	3+	1550.6927	1550.6319	39	DGGEDNKTEEIFRPGGGNMK		[Hex]7[HexNAc]6[Fuc]1
	3+	1647.6790	1647.6637	9	DGGEDNKTEEIFRPGGGNMK		[Hex]7 [HexNAc]6 [Fuc]1[NeuNAc]1
	3+	1744.7422	1744.6955	27	DGGEDNKTEEIFRPGGGNMK		[Hex]7[HexNAc]6 [Fuc]1[NeuNAc]2
	3+	1618.4033	1618.3250	48	DGGEDNKTEEIFRPGGGNMK		[Hex]7[HexNAc]7[Fuc]1
	3+	1285.1906	1285.1910	0.3	DGGEDNKTEEIFRPGGGNMK		[Hex]8[HexNAc]2
	3+	1672.4321	1672.3426	54	DGGEDNKTEEIFRPGGGNMK		[Hex]8 [HexNAc]7 [Fuc]1
	3+	1769.4458	1769.3744	40	DGGEDNKTEEIFRPGGGNMK		[Hex]8[HexNAc]7[Fuc]1[NeuNAc]1
TM	5+	1306.8553	1306.9383	64	DQQLIWNMTWMEWDREIS NYTDIYR		[Hex]8[HexNAc]7 [Fuc]1
	5+	1347.4741	1347.5542	59	DQQLIWNMTWMEWDREIS NYTDIYR		[Hex]8[HexNAc]8 [Fuc]1
	5+	1388.1090	1388.1701	44	DQQLIWNMTWMEWDREIS NYTDIYR		[Hex]8[HexNAc]9 [Fuc]1
	5+	1469.2638	1469.4018	94	DQQLIWNMTWMEWDREIS NYTDIYR		[Hex]8[HexNAc]10[Fuc]1
	5+	1509.9526	1510.0177	43	DQQLIWNMTWMEWDREIS NYTDIYR		[Hex]8 [HexNAc]11[Fuc]1
	5+	1550.5604	1550.6336	47	DQQLIWNMTWMEWDREIS NYTDIYR		[Hex]8[HexNAc]12[Fuc]1

Supplementary Table 1B. MALDI-MS Glycopeptide Compositions for C.97ZA012 gp140 ΔCFI

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	*Mod	Glycan Composition	
C1-V1	1+	2768.6375	2768.2626	135	LTPLCVTLHCTNATFK		[Hex]3[HexNAc]2	
	1+	3117.8823	3117.3999	155	LTPLCVTLHCTNATFK		[Hex]3[HexNAc]3[Fuc]1	
	1+	3320.1946	3320.4793	86	LTPLCVTLHCTNATFK		[Hex]3[HexNAc]4[Fuc]1	
	1+	3523.3022	3523.5588	73	LTPLCVTLHCTNATFK		[Hex]3[HexNAc]5[Fuc]1	
	1+	3726.9652	3726.6381	88	LTPLCVTLHCTNATFK		[Hex]3[HexNAc]6[Fuc]1	
	1+	2930.6768	2930.3155	123	LTPLCVTLHCTNATFK		[Hex]4[HexNAc]2	
	1+	3076.1462	3076.3734	74	LTPLCVTLHCTNATFK		[Hex]4[HexNAc]2[Fuc]1	
	1+	3279.9219	3279.4527	143	LTPLCVTLHCTNATFK		[Hex]4[HexNAc]3[Fuc]1	
	1+	3092.8499	3092.3683	156	LTPLCVTLHCTNATFK		[Hex]5[HexNAc]2	
	1+	3441.1877	3441.5055	92	LTPLCVTLHCTNATFK		[Hex]5[HexNAc]3[Fuc]1	
	1+	3254.7438	3254.4212	99	LTPLCVTLHCTNATFK		[Hex]6 [HexNAc]2	
	1+	3457.9229	3457.5005	122	LTPLCVTLHCTNATFK		[Hex]6[HexNAc]3	
	1+	3416.0220	3416.4740	132	LTPLCVTLHCTNATFK		[Hex]7[HexNAc]2	
	1+	3577.8401	3578.5268	192	LTPLCVTLHCTNATFK		[Hex]8[HexNAc]2	
	1+	3741.1541	3740.5795	154	LTPLCVTLHCTNATFK		[Hex]9[HexNAc]2	
	1+	5593.8438	5595.8579	360	LTPLCVTLHCTNATFKNNVTNDMNK		[Hex]6[HexNAc]7[Fuc]2	
	1+	5796.7666	5799.0529	394	LTPLCVTLHCTNATFKNNVTNDMNK		[Hex]6[HexNAc]8[Fuc]2	
	1+	6000.4429	6002.2479	301	LTPLCVTLHCTNATFKNNVTNDMNK		[Hex]6[HexNAc]9[Fuc]2	
	1+	6204.2949	6205.4429	185	LTPLCVTLHCTNATFKNNVTNDMNK		[Hex]6[HexNAc]10[Fuc]2	
	1+	6408.4199	6408.6379	34	LTPLCVTLHCTNATFKNNVTNDMNK		[Hex]6[HexNAc]11[Fuc]2	
	1+	6609.8266	6611.8329	303	LTPLCVTLHCTNATFKNNVTNDMNK		[Hex]6[HexNAc]12[Fuc]2	
	1+	5002.2456	5002.2723	5	LTPLCVTLHCTNATFKNNVTNDMNK		[Hex]7[HexNAc]4[Fuc]1	
	1+	5609.7690	5611.8573	372	LTPLCVTLHCTNATFKNNVTNDMNK		[Hex]7[HexNAc]7[Fuc]1	
	1+	5812.6270	5815.0523	417	LTPLCVTLHCTNATFKNNVTNDMNK		[Hex]7[HexNAc]8[Fuc]1	
	1+	6016.3584	6018.2473	314	LTPLCVTLHCTNATFKNNVTNDMNK		[Hex]7[HexNAc]9[Fuc]1	
	1+	6218.3501	6221.4423	497	LTPLCVTLHCTNATFKNNVTNDMNK		[Hex]7[HexNAc]10[Fuc]1	
	1+	5365.9458	5367.6097	310	LTPLCVTLHCTNATFKNNVTNDMNK		[Hex]8[HexNAc]5[Fuc]1	
	1+	5569.0229	5570.8047	320	LTPLCVTLHCTNATFKNNVTNDMNK		[Hex]8[HexNAc]6[Fuc]1	
	1+	5772.4007	5773.9997	277	LTPLCVTLHCTNATFKNNVTNDMNK		[Hex]8[HexNAc]7[Fuc]1	
	V1/V2	1+	2381.3403	2380.9807	151	NCSFNTTTEIR		[Hex]3[HexNAc]2[Fuc]1
		1+	2584.4363	2584.0601	146	NCSFNTTTEIR		[Hex]3[HexNAc]3[Fuc]1
		1+	2641.5129	2641.0815	163	NCSFNTTTEIR		[Hex]3[HexNAc]4
		1+	2786.9348	2787.1393	73	NCSFNTTTEIR		[Hex]3[HexNAc]4[Fuc]1
1+		2990.6638	2990.2189	149	NCSFNTTTEIR		[Hex]3[HexNAc]5[Fuc]1	
1+		3193.7451	3193.2982	140	NCSFNTTTEIR		[Hex]3[HexNAc]6[Fuc]1	
1+		3396.8713	3396.3775	145	NCSFNTTTEIR		[Hex]3[HexNAc]7[Fuc]1	
1+		2397.3435	2396.9757	153	NCSFNTTTEIR		[Hex]4[HexNAc]2	
1+		3152.7612	3152.2715	155	NCSFNTTTEIR		[Hex]4[HexNAc]5[Fuc]1	
1+		3355.9355	3355.3510	174	NCSFNTTTEIR		[Hex]4[HexNAc]6[Fuc]1	
1+		2559.4106	2559.0284	149	NCSFNTTTEIR		[Hex]5[HexNAc]2	
1+		3111.6232	3111.2450	122	NCSFNTTTEIR		[Hex]5[HexNAc]4[Fuc]1	
1+		3314.6782	3314.3244	107	NCSFNTTTEIR		[Hex]5[HexNAc]5[Fuc]1	
1+		4638.5146	4637.8320	147	NCSFNTTTEIR		[Hex]6[HexNAc]10[Fuc]2	
1+		4841.7495	4840.9114	173	NCSFNTTTEIR		[Hex]6[HexNAc]11[Fuc]2	
1+		5043.6177	5046.9397	658	NCSFNTTTEIR		[Hex]6[HexNAc]12[Fuc]2	
1+		2721.5376	2721.0813	168	NCSFNTTTEIR		[Hex]6[HexNAc]2	
1+		3476.7881	3476.3773	118	NCSFNTTTEIR		[Hex]6[HexNAc]5[Fuc]1	
1+		3679.8981	3679.4566	120	NCSFNTTTEIR		[Hex]6[HexNAc]6[Fuc]1	
1+		3826.5186	3825.5145	262	NCSFNTTTEIR		[Hex]6[HexNAc]6[Fuc]2	

	1+	4029.2298	4028.5939	158	NCSFNTTTEIR	[Hex]6[HexNAc]7[Fuc]2
	1+	4232.9280	4231.6733	297	NCSFNTTTEIR	[Hex]6[HexNAc]8[Fuc]2
	1+	4435.1451	4434.7527	88	NCSFNTTTEIR	[Hex]6[HexNAc]9[Fuc]2
	1+	2883.5496	2883.1341	144	NCSFNTTTEIR	[Hex]7[HexNAc]2
	1+	3841.9787	3841.5095	122	NCSFNTTTEIR	[Hex]7[HexNAc]6[Fuc]1
	1+	4045.1007	4044.5889	127	NCSFNTTTEIR	[Hex]7[HexNAc]7[Fuc]1
	1+	3045.6541	3045.1869	153	NCSFNTTTEIR	[Hex]8[HexNAc]2
	1+	3207.5246	3207.2396	89	NCSFNTTTEIR	[Hex]9[HexNAc]2
	1+	4717.7271	4717.8317	22	NCSFNTTTEIR	[Hex]9[HexNAc]8[Fuc]2
	1+	4854.6875	4854.8529	34	NCSFNTTTEIR	[Hex]12[HexNAc]7[Fuc]1
	1+	4854.7280	4854.8529	26	NCSFNTTTEIR	[Hex]12[HexNAc]7[Fuc]1
	1+	5057.9082	5057.9323	5	NCSFNTTTEIR	[Hex]12[HexNAc]8[Fuc]1
	1+	5017.2749	5016.9057	74	NCSFNTTTEIR	[Hex]13[HexNAc]7[Fuc]1
	1+	5178.5628	5178.9586	76	NCSFNTTTEIR	[Hex]14[HexNAc]7[Fuc]1
V2-C2	1+	6850.6270	6853.8645	472	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]9[HexNAc]9[Fuc]3
	1+	7054.8477	7057.0595	313	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]9[HexNAc]10[Fuc]3
	1+	7259.3809	7260.2545	120	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]9[HexNAc]11[Fuc]3
	1+	7460.8887	7463.4495	343	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]9[HexNAc]12[Fuc]3
	1+	7664.3257	7666.6445	302	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]9[HexNAc]13[Fuc]3
	1+	7867.7725	7869.8395	263	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]9[HexNAc]14[Fuc]3
	1+	8071.5049	8073.0345	189	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]9[HexNAc]15[[Fuc]3
	1+	8234.1221	8235.1767	128	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]10[HexNAc]15[[Fuc]3
	1+	8396.0820	8397.3193	147	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]11[HexNAc]15[[Fuc]3
	1+	8558.0605	8559.4617	164	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]12[HexNAc]15[[Fuc]3
	1+	8720.5313	8721.6041	123	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]13[HexNAc]15[[Fuc]3
	1+	8274.6113	8274.1615	54	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]14[HexNAc]12[[Fuc]3
	1+	8478.3398	8477.3565	116	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]14[HexNAc]13[[Fuc]3
	1+	8681.7305	8680.5515	136	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]14[HexNAc]14[[Fuc]3
	1+	8882.3887	8883.7465	153	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]14[HexNAc]15[[Fuc]3
	1+	9085.4365	9086.9415	166	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]14[HexNAc]16[Fuc]3
	1+	9288.9727	9290.1365	125	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]14[HexNAc]17[Fuc]3
	1+	8638.5039	8639.4989	115	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]15[HexNAc]13[[Fuc]3
	1+	8842.1719	8842.6939	59	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]15[HexNAc]14[[Fuc]3
	1+	9043.9814	9045.8889	211	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]15[HexNAc]15[[Fuc]3
	1+	9247.3203	9249.0939	192	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]15[HexNAc]16[Fuc]3
	1+	9451.0400	9452.2789	131	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]15[HexNAc]17[Fuc]3
	1+	9003.9785	9004.8363	95	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]16[HexNAc]14[[Fuc]3
	1+	9206.9795	9208.0313	114	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]16[HexNAc]15[[Fuc]3
	1+	9409.2471	9411.2263	210	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]16[HexNAc]16[Fuc]3
	1+	9612.5127	9614.4213	199	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]16[HexNAc]17[Fuc]3
	1+	9368.8691	9370.1737	139	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]17[HexNAc]15[[Fuc]3
	1+	9573.3760	9573.3687	1	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]17[HexNAc]16[Fuc]3
	1+	9533.1592	9532.3161	88	ENRNNNSNNSEYILINCNAST ITQACPK	[Hex]18[HexNAc]15[[Fuc]3
C2	1+	6018.8848	6020.2857	233	GPCNNVSTVQCTHGKIPVVSTQLLNGSLAEK	[Hex]11[HexNAc]4
	1+	6180.7349	6182.4281	274	GPCNNVSTVQCTHGKIPVVSTQLLNGSLAEK	[Hex]12[HexNAc]4
	1+	6343.1597	6344.5705	222	GPCNNVSTVQCTHGKIPVVSTQLLNGSLAEK	[Hex]13[HexNAc]4
	1+	6509.2466	6506.7129	389	GPCNNVSTVQCTHGKIPVVSTQLLNGSLAEK	[Hex]14[HexNAc]4
	1+	6667.8735	6668.8553	147	GPCNNVSTVQCTHGKIPVVSTQLLNGSLAEK	[Hex]15[HexNAc]4
	1+	6830.0796	6830.9998	135	GPCNNVSTVQCTHGKIPVVSTQLLNGSLAEK	[Hex]16[HexNAc]4
	1+	6992.1899	6993.1401	136	GPCNNVSTVQCTHGKIPVVSTQLLNGSLAEK	[Hex]17[HexNAc]4
	1+	7154.3979	7155.2825	124	GPCNNVSTVQCTHGKIPVVSTQLLNGSLAEK	[Hex]18[HexNAc]4
	1+	2747.5952	2747.2489	126	TIIVHLNK	[Hex]4[HexNAc]5[Fuc]1
	1+	2762.5998	2763.2439	233	TIIVHLNK	[Hex]5[HexNAc]5

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	*Mod	Glycan Composition
	1+	2909.5474	2909.3018	84	TIIVHLNK		[Hex]5[HexNAc]5[Fuc]1
	1+	2802.6902	2802.2170	169	TIIVHLNK		[Hex]9[HexNAc]2
C2-V3	1+	2552.3789	2552.1403	93	SVEIVCTRPNNNTR		[Hex]3[HexNAc]2
	1+	2698.4282	2698.1982	85	SVEIVCTRPNNNTR		[Hex]3[HexNAc]2[Fuc]1
	1+	2901.4927	2901.2776	74	SVEIVCTRPNNNTR		[Hex]3[HexNAc]3[Fuc]1
	1+	3104.6260	3104.3569	87	SVEIVCTRPNNNTR		[Hex]3[HexNAc]4[Fuc]1
	1+	3104.7175	3104.3569	116	SVEIVCTRPNNNTR		[Hex]3[HexNAc]4[Fuc]1
	1+	3161.4487	3161.3783	22	SVEIVCTRPNNNTR		[Hex]3[HexNAc]5
	1+	3307.7290	3307.4364	88	SVEIVCTRPNNNTR		[Hex]3[HexNAc]5[Fuc]1
	1+	3364.1064	3364.4577	104	SVEIVCTRPNNNTR		[Hex]3[HexNAc]6
	1+	3510.8657	3510.5158	100	SVEIVCTRPNNNTR		[Hex]3[HexNAc]6[Fuc]1
	1+	2714.3630	2714.1932	63	SVEIVCTRPNNNTR		[Hex]4[HexNAc]2
	1+	2860.4585	2860.2510	73	SVEIVCTRPNNNTR		[Hex]4[HexNAc]2[Fuc]1
	1+	3063.5925	3063.3304	86	SVEIVCTRPNNNTR		[Hex]4[HexNAc]3[Fuc]1
	1+	3323.4292	3323.4311	1	SVEIVCTRPNNNTR		[Hex]4[HexNAc]5
	1+	3469.7898	3469.4891	87	SVEIVCTRPNNNTR		[Hex]4[HexNAc]5[Fuc]1
	1+	2876.0778	2876.2457	58	SVEIVCTRPNNNTR		[Hex]5[HexNAc]2
	1+	3079.6530	3079.3253	106	SVEIVCTRPNNNTR		[Hex]5[HexNAc]3
	1+	3225.5913	3225.3832	65	SVEIVCTRPNNNTR		[Hex]5[HexNAc]3[Fuc]1
	1+	3282.2622	3282.4045	43	SVEIVCTRPNNNTR		[Hex]5[HexNAc]4
	1+	3428.7512	3428.4626	84	SVEIVCTRPNNNTR		[Hex]5[HexNAc]4[Fuc]1
	1+	3631.8633	3631.5420	88	SVEIVCTRPNNNTR		[Hex]5[HexNAc]5[Fuc]1
	1+	3834.9658	3834.6213	90	SVEIVCTRPNNNTR		[Hex]5[HexNAc]6[Fuc]1
	1+	3038.5696	3038.2988	89	SVEIVCTRPNNNTR		[Hex]6[HexNAc]2
	1+	3241.5649	3241.3781	58	SVEIVCTRPNNNTR		[Hex]6[HexNAc]3
	1+	3647.5479	3647.5367	3	SVEIVCTRPNNNTR		[Hex]6[HexNAc]5
	1+	3793.9846	3793.5948	103	SVEIVCTRPNNNTR		[Hex]6[HexNAc]5[Fuc]1
	1+	3996.7792	3996.6742	26	SVEIVCTRPNNNTR		[Hex]6[HexNAc]6[Fuc]1
	1+	3200.6902	3200.3516	106	SVEIVCTRPNNNTR		[Hex]7[HexNAc]2
	1+	3630.9077	3631.5420	175	SVEIVCTRPNNNTR		[Hex]7[HexNAc]4
	1+	4159.5445	4158.7270	197	SVEIVCTRPNNNTR		[Hex]7[HexNAc]6[Fuc]1
	1+	3362.7129	3362.4044	92	SVEIVCTRPNNNTR		[Hex]8[HexNAc]2
	1+	4377.6685	4377.8011	30	SVEIVCTRPNNNTR		[Hex]8[HexNAc]7
	1+	3524.7378	3524.4572	80	SVEIVCTRPNNNTR		[Hex]9[HexNAc]2
	1+	2680.4763	2680.2353	90	SVEIVCTRPNNNTRK		[Hex]3[HexNAc]2
	1+	2826.6704	2826.2930	134	SVEIVCTRPNNNTRK		[Hex]3[HexNAc]2[Fuc]1
	1+	3029.6438	3029.3724	90	SVEIVCTRPNNNTRK		[Hex]3[HexNAc]3[Fuc]1
	1+	3232.6987	3232.4517	76	SVEIVCTRPNNNTRK		[Hex]3[HexNAc]4[Fuc]1
	1+	3435.8384	3435.5312	89	SVEIVCTRPNNNTRK		[Hex]3[HexNAc]5[Fuc]1
	1+	3492.9939	3492.5529	126	SVEIVCTRPNNNTRK		[Hex]3[HexNAc]6
	1+	3638.9526	3638.6106	94	SVEIVCTRPNNNTRK		[Hex]3[HexNAc]6[Fuc]1
	1+	2988.5857	2988.3460	80	SVEIVCTRPNNNTRK		[Hex]4[HexNAc]2[Fuc]1
	1+	3191.7240	3191.4254	94	SVEIVCTRPNNNTRK		[Hex]4[HexNAc]3[Fuc]1
	1+	3597.2867	3597.5839	83	SVEIVCTRPNNNTRK		[Hex]4[HexNAc]5[Fuc]1
	1+	3004.5952	3004.3407	85	SVEIVCTRPNNNTRK		[Hex]5[HexNAc]2
	1+	3354.0039	3353.4780	157	SVEIVCTRPNNNTRK		[Hex]5[HexNAc]3[Fuc]1
	1+	3556.2683	3556.5574	81	SVEIVCTRPNNNTRK		[Hex]5[HexNAc]4[Fuc]1
	1+	3613.4614	3613.5789	33	SVEIVCTRPNNNTRK		[Hex]5[HexNAc]5
	1+	3760.0186	3759.6368	102	SVEIVCTRPNNNTRK		[Hex]5[HexNAc]5[Fuc]1
	1+	3166.6555	3166.3936	83	SVEIVCTRPNNNTRK		[Hex]6[HexNAc]2
	1+	3369.7590	3369.4731	85	SVEIVCTRPNNNTRK		[Hex]6[HexNAc]3
	1+	3328.7400	3328.4464	88	SVEIVCTRPNNNTRK		[Hex]7[HexNAc]2
	1+	3490.8054	3490.4992	88	SVEIVCTRPNNNTRK		[Hex]8[HexNAc]2

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	*Mod	Glycan Composition	
	1+	3652.7300	3652.5520	49	SVEIVCTRPNNNTRK		[Hex]9[HexNAc]2	
V3-C3	1+	2182.0459	2181.8850	74	QAYCNISGSK		[Hex]4[HexNAc]2	
	1+	2343.9756	2343.9378	16	QAYCNISGSK		[Hex]5[HexNAc]2	
	1+	2506.0266	2505.9907	14	QAYCNISGSK		[Hex]6 [HexNAc]2	
	1+	2668.1257	2668.0435	31	QAYCNISGSK		[Hex]7[HexNAc]2	
	1+	2830.1934	2830.0963	34	QAYCNISGSK		[Hex]8[HexNAc]2	
C3	1+	1838.9613	1838.8277	73	WNETLKR		[Hex]3[HexNAc]2	
	1+	1985.1536	1984.8856	135	WNETLKR		[Hex]3[HexNAc]2[Fuc]1	
	1+	2042.1031	2041.9071	96	WNETLKR		[Hex]3[HexNAc]3	
	1+	2188.1785	2187.9650	98	WNETLKR		[Hex]3[HexNAc]3[Fuc]1	
	1+	2245.0957	2244.9864	49	WNETLKR		[Hex]3[HexNAc]4	
	1+	2391.0015	2391.0443	18	WNETLKR		[Hex]3[HexNAc]4[Fuc]1	
	1+	2447.9756	2448.0659	37	WNETLKR		[Hex]3[HexNAc]5	
	1+	2593.9299	2594.1238	75	WNETLKR		[Hex]3[HexNAc]5[Fuc]1	
	1+	2797.3740	2797.2032	61	WNETLKR		[Hex]3[HexNAc]6[Fuc]1	
	1+	2797.4727	2797.2032	96	WNETLKR		[Hex]3[HexNAc]6[Fuc]1	
	1+	2000.8911	2000.8806	5	WNETLKR		[Hex]4[HexNAc]2	
	1+	2204.0288	2203.9599	31	WNETLKR		[Hex]4[HexNAc]3	
	1+	2350.1836	2350.0178	71	WNETLKR		[Hex]4[HexNAc]3[Fuc]1	
	1+	2406.8362	2407.0393	84	WNETLKR		[Hex]4[HexNAc]4	
	1+	2610.3003	2610.1187	70	WNETLKR		[Hex]4[HexNAc]5	
	1+	2755.9500	2756.1765	82	WNETLKR		[Hex]4[HexNAc]5[Fuc]1	
	1+	2162.9966	2162.9333	29	WNETLKR		[Hex]5[HexNAc]2	
	1+	2366.0339	2366.0127	9	WNETLKR		[Hex]5[HexNAc]3	
	1+	2569.0332	2569.0921	23	WNETLKR		[Hex]5[HexNAc]4	
	1+	2715.3651	2715.1500	79	WNETLKR		[Hex]5[HexNAc]4[Fuc]1	
	1+	2772.3098	2772.1715	50	WNETLKR		[Hex]5[HexNAc]5	
	1+	2325.0457	2324.9862	26	WNETLKR		[Hex]6[HexNAc]2	
	1+	2527.9797	2528.0655	34	WNETLKR		[Hex]6[HexNAc]3	
	1+	2731.4769	2731.1449	122	WNETLKR		[Hex]6[HexNAc]4	
	1+	3080.6221	3080.2833	110	WNETLKR		[Hex]6[HexNAc]5[Fuc]1	
	1+	2487.0879	2487.0390	20	WNETLKR		[Hex]7[HexNAc]2	
	1+	2648.8674	2649.0918	85	WNETLKR		[Hex]8[HexNAc]2	
	1+	2811.4019	2811.1446	92	WNETLKR		[Hex]9[HexNAc]2	
	1+	3420.4957	3420.3827	33	WNETLKR		[Hex]9[HexNAc]5	
	1+	3566.7229	3566.4406	79	WNETLKR		[Hex]9[HexNAc]5[Fuc]1	
		1+	2603.2473	2603.0494	76	LQENYNNNK		[Hex]3[HexNAc]4[Fuc]1Na1
		1+	2806.4282	2806.1289	107	LQENYNNNK		[Hex]3[HexNAc]5[Fuc]1Na1
	1+	2841.3701	2841.1678	71	LQENYNNNK		[Hex]3[HexNAc]6	
	1+	2987.2815	2987.2257	19	LQENYNNNK		[Hex]3[HexNAc]6[Fuc]1	
	1+	3266.5864	3267.2556	205	LQENYNNNK		[Hex]8[HexNAc]4Na1	
C3-V4	1+	2187.1726	2186.8693	139	GEFFYCNTR		[Hex]3[HexNAc]2	
	1+	2333.5029	2332.9271	247	GEFFYCNTR		[Hex]3[HexNAc]2[Fuc]1	
	1+	2390.5481	2389.9487	251	GEFFYCNTR		[Hex]3[HexNAc]3	
	1+	2536.3533	2536.0066	137	GEFFYCNTR		[Hex]3[HexNAc]3[Fuc]1	
	1+	2593.6770	2593.0279	250	GEFFYCNTR		[Hex]3[HexNAc]4	
	1+	2739.4827	2739.0859	145	GEFFYCNTR		[Hex]3[HexNAc]4[Fuc]1	
	1+	2796.8623	2796.1074	270	GEFFYCNTR		[Hex]3[HexNAc]5	
	1+	2942.5886	2942.1654	144	GEFFYCNTR		[Hex]3[HexNAc]5[Fuc]1	
	1+	3145.6780	3145.2448	138	GEFFYCNTR		[Hex]3[HexNAc]6[Fuc]1	
	1+	2349.2771	2348.9222	151	GEFFYCNTR		[Hex]4[HexNAc]2	

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	*Mod	Glycan Composition
	1+	2552.6560	2552.0014	257	GEFFYCNTR		[Hex]4[HexNAc]3
	1+	2698.4495	2698.0594	145	GEFFYCNTR		[Hex]4[HexNAc]3[Fuc]1
	1+	2741.4919	2741.0652	156	GEFFYCNTR		[Hex]4[HexNAc]3[Fuc]1
	1+	2755.8064	2755.0808	263	GEFFYCNTR		[Hex]4 [HexNAc]4
	1+	3104.6350	3104.2181	134	GEFFYCNTR		[Hex]4[HexNAc]5[Fuc]1
	1+	2714.4368	2714.0543	141	GEFFYCNTR		[Hex]5 [HexNAc]3
	1+	2511.3293	2510.9749	141	GEFFYCNTR		[Hex]5[HexNAc]2
	1+	2860.4912	2860.1122	133	GEFFYCNTR		[Hex]5[HexNAc]3[Fuc]1
	1+	2917.5767	2917.1337	152	GEFFYCNTR		[Hex]5[HexNAc]4
	1+	3063.6741	3063.1916	158	GEFFYCNTR		[Hex]5[HexNAc]4[Fuc]1
	1+	3309.7674	3309.2768	148	GEFFYCNTR		[Hex]5[HexNAc]5[Fuc]1
	1+	2673.4072	2673.0278	142	GEFFYCNTR		[Hex]6 [HexNAc]2
	1+	2876.5330	2876.1071	148	GEFFYCNTR		[Hex]6[HexNAc]3
	1+	3631.1179	3631.4032	79	GEFFYCNTR		[Hex]6[HexNAc]6[Fuc]1
	1+	3632.1548	3631.4032	207	GEFFYCNTR		[Hex]6[HexNAc]6[Fuc]1
	1+	2835.4993	2835.0806	148	GEFFYCNTR		[Hex]7[HexNAc]2
	1+	2997.5784	2997.1334	148	GEFFYCNTR		[Hex]8[HexNAc]2
	1+	3159.6487	3159.1862	146	GEFFYCNTR		[Hex]9[HexNAc]2
V4	1+	2900.5276	2900.2611	92	LFNNNATEDETITLPCR		[Hex]3[HexNAc]2
	1+	3046.4199	3046.3190	33	LFNNNATEDETITLPCR		[Hex]3[HexNAc]2[Fuc]1
	1+	3103.8704	3103.3405	171	LFNNNATEDETITLPCR		[Hex]3[HexNAc]3
	1+	3249.2292	3249.3984	52	LFNNNATEDETITLPCR		[Hex]3[HexNAc]3[Fuc]1
	1+	3306.9861	3306.4198	171	LFNNNATEDETITLPCR		[Hex]3[HexNAc]4
	1+	3452.8025	3452.4778	94	LFNNNATEDETITLPCR		[Hex]3[HexNAc]4[Fuc]1
	1+	3510.1169	3509.4993	176	LFNNNATEDETITLPCR		[Hex]3[HexNAc]5
	1+	3656.1543	3655.5573	163	LFNNNATEDETITLPCR		[Hex]3[HexNAc]5[Fuc]1
	1+	3859.2209	3858.6367	151	LFNNNATEDETITLPCR		[Hex]3[HexNAc]6[Fuc]1
	1+	3062.4072	3062.3140	30	LFNNNATEDETITLPCR		[Hex]4[HexNAc]2
	1+	3208.7675	3208.3718	123	LFNNNATEDETITLPCR		[Hex]4[HexNAc]2[Fuc]1
	1+	3265.9363	3265.3933	166	LFNNNATEDETITLPCR		[Hex]4[HexNAc]3
	1+	3412.0398	3411.4512	173	LFNNNATEDETITLPCR		[Hex]4[HexNAc]3[Fuc]1
	1+	3671.6765	3671.5521	34	LFNNNATEDETITLPCR		[Hex]4[HexNAc]5
	1+	3453.0308	3452.4778	160	LFNNNATEDETITLPCR		[Hex]3[HexNAc]4[Fuc]1
	1+	3224.9063	3224.3667	167	LFNNNATEDETITLPCR		[Hex]5[HexNAc]2
	1+	3428.0364	3427.4461	172	LFNNNATEDETITLPCR		[Hex]5 [HexNAc]3
	1+	3574.0920	3573.5040	165	LFNNNATEDETITLPCR		[Hex]5[HexNAc]3[Fuc]1
	1+	3631.0891	3630.5255	155	LFNNNATEDETITLPCR		[Hex]5[HexNAc]4
	1+	3776.3142	3776.5835	71	LFNNNATEDETITLPCR		[Hex]5[HexNAc]4[Fuc]1
	1+	3980.3579	3979.6629	175	LFNNNATEDETITLPCR		[Hex]5[HexNAc]5[Fuc]1
	1+	3386.0396	3386.4196	112	LFNNNATEDETITLPCR		[Hex]6 [HexNAc]2
	1+	3590.0857	3589.4989	163	LFNNNATEDETITLPCR		[Hex]6[HexNAc]3
	1+	4141.0903	4141.7157	151	LFNNNATEDETITLPCR		[Hex]6[HexNAc]5[Fuc]1
	1+	4343.9691	4344.7951	190	LFNNNATEDETITLPCR		[Hex]6[HexNAc]6[Fuc]1
	1+	3548.9461	3548.4725	133	LFNNNATEDETITLPCR		[Hex]7[HexNAc]2
	1+	4709.4824	4709.9272	94	LFNNNATEDETITLPCR		[Hex]7[HexNAc]7[Fuc]1
	1+	3711.2085	3710.5253	184	LFNNNATEDETITLPCR		[Hex]8[HexNAc]2
	1+	3873.2175	3872.5781	165	LFNNNATEDETITLPCR		[Hex]9[HexNAc]2
C4	1+	2769.7715	2770.1813	148	AMYAPPIAGNITCK		[Hex]3[HexNAc]3[Fuc]1Na1
	1+	2973.9321	2973.2606	226	AMYAPPIAGNITCK		[Hex]3[HexNAc]4[Fuc]1Na1
	1+	3154.8516	3154.3576	157	AMYAPPIAGNITCK		[Hex]3[HexNAc]5[Fuc]1
	1+	3379.6811	3379.4169	78	AMYAPPIAGNITCK		[Hex]3[HexNAc]6[Fuc]1Na1
	1+	3233.2175	3233.3590	44	AMYAPPIAGNITCK		[Hex]3[HexNAc]6Na1

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	*Mod	Glycan Composition
	1+	2561.5374	2561.1144	165	AMYAPPIAGNITCK		[Hex]4[HexNAc]2
	1+	2786.7244	2786.1762	197	AMYAPPIAGNITCK		[Hex]4[HexNAc]3Na1
	1+	3192.4608	3192.3350	39	AMYAPPIAGNITCK		[Hex]4[HexNAc]5Na1
	1+	2723.5652	2723.1671	146	AMYAPPIAGNITCK		[Hex]5[HexNAc]2
	1+	2885.6477	2885.2200	148	AMYAPPIAGNITCK		[Hex]6 [HexNAc]2
	1+	3047.7236	3047.2727	148	AMYAPPIAGNITCK		[Hex]7[HexNAc]2
	1+	3209.8840	3209.3255	174	AMYAPPIAGNITCK		[Hex]8[HexNAc]2
	1+	3371.9814	3371.3784	179	AMYAPPIAGNITCK		[Hex]9[HexNAc]2
	1+	2124.5337	2124.0428	231	SNITGLLLVR		[Hex]3[HexNAc]2[Fuc]1
	1+	2181.6084	2181.0643	249	SNITGLLLVR		[Hex]3[HexNAc]3
	1+	2327.5767	2327.1222	195	SNITGLLLVR		[Hex]3[HexNAc]3[Fuc]1
	1+	2530.7100	2530.2015	201	SNITGLLLVR		[Hex]3[HexNAc]4[Fuc]1
	1+	2733.8196	2733.2810	197	SNITGLLLVR		[Hex]3[HexNAc]5[Fuc]1
	1+	2789.8621	2790.3025	158	SNITGLLLVR		[Hex]3[HexNAc]6
	1+	2936.9146	2936.3604	189	SNITGLLLVR		[Hex]3[HexNAc]6[Fuc]1
	1+	2139.6748	2140.0379	170	SNITGLLLVR		[Hex]4[HexNAc]2
	1+	2343.6458	2343.1172	226	SNITGLLLVR		[Hex]4[HexNAc]3
	1+	2488.7563	2489.1750	168	SNITGLLLVR		[Hex]4[HexNAc]3[Fuc]1
	1+	2896.0383	2895.3338	243	SNITGLLLVR		[Hex]4[HexNAc]5[Fuc]1
	1+	2302.6455	2302.0906	241	SNITGLLLVR		[Hex]5[HexNAc]2
	1+	2505.6138	2505.1699	177	SNITGLLLVR		[Hex]5 [HexNAc]3
	1+	2651.8623	2651.2279	239	SNITGLLLVR		[Hex]5[HexNAc]3[Fuc]1
	1+	2853.7754	2854.3073	186	SNITGLLLVR		[Hex]5[HexNAc]4[Fuc]1
	1+	2464.6006	2464.1434	186	SNITGLLLVR		[Hex]6 [HexNAc]2
	1+	2667.7576	2667.2227	201	SNITGLLLVR		[Hex]6[HexNAc]3
	1+	2813.9041	2813.2806	222	SNITGLLLVR		[Hex]6[HexNAc]3[Fuc]1
	1+	3220.1550	3219.4394	222	SNITGLLLVR		[Hex]6[HexNAc]5[Fuc]1
	1+	3277.0288	3276.4609	173	SNITGLLLVR		[Hex]6[HexNAc]6
	1+	3423.3174	3422.5188	233	SNITGLLLVR		[Hex]6[HexNAc]6[Fuc]1
	1+	2626.6946	2626.1962	190	SNITGLLLVR		[Hex]7[HexNAc]2
	1+	3584.7815	3584.5716	59	SNITGLLLVR		[Hex]7[HexNAc]6[Fuc]1
	1+	3787.0725	3787.6510	153	SNITGLLLVR		[Hex]7[HexNAc]7[Fuc]1
	1+	2788.7981	2788.2490	197	SNITGLLLVR		[Hex]8[HexNAc]2
	1+	2950.8735	2950.3018	194	SNITGLLLVR		[Hex]9[HexNAc]2
	1+	3706.3682	3705.5979	208	SNITGLLLVR		[Hex]9[HexNAc]5[Fuc]1
C4-V5	1+	3189.7012	3189.3522	109	DGGEDNKTEEIFRPGGGNMK		[Hex]3[HexNAc]2[Fuc]1
	1+	3392.9197	3392.4317	144	DGGEDNKTEEIFRPGGGNMK		[Hex]3[HexNAc]3[Fuc]1
	1+	3596.0244	3595.5109	143	DGGEDNKTEEIFRPGGGNMK		[Hex]3[HexNAc]4[Fuc]1
	1+	3799.1426	3798.5904	145	DGGEDNKTEEIFRPGGGNMK		[Hex]3[HexNAc]5[Fuc]1
	1+	4002.2839	4001.6698	153	DGGEDNKTEEIFRPGGGNMK		[Hex]3[HexNAc]6[Fuc]1
	1+	3205.6792	3205.3472	104	DGGEDNKTEEIFRPGGGNMK		[Hex]4[HexNAc]2
	1+	3409.1842	3408.4266	222	DGGEDNKTEEIFRPGGGNMK		[Hex]4[HexNAc]3
	1+	3611.7494	3611.5059	67	DGGEDNKTEEIFRPGGGNMK		[Hex]4 [HexNAc]4
	1+	3815.1971	3814.5853	160	DGGEDNKTEEIFRPGGGNMK		[Hex]4[HexNAc]5
	1+	3961.6841	3960.6432	263	DGGEDNKTEEIFRPGGGNMK		[Hex]4[HexNAc]5[Fuc]1
	1+	4164.3989	4163.7225	162	DGGEDNKTEEIFRPGGGNMK		[Hex]4[HexNAc]6[Fuc]1
	1+	3367.2325	3367.4000	50	DGGEDNKTEEIFRPGGGNMK		[Hex]5[HexNAc]2
	1+	3920.4485	3919.6166	212	DGGEDNKTEEIFRPGGGNMK		[Hex]5[HexNAc]4[Fuc]1
	1+	4123.4359	4122.6960	179	DGGEDNKTEEIFRPGGGNMK		[Hex]5[HexNAc]5[Fuc]1
	1+	4326.4136	4325.7753	148	DGGEDNKTEEIFRPGGGNMK		[Hex]5[HexNAc]6[Fuc]1
	1+	3529.9832	3529.4528	150	DGGEDNKTEEIFRPGGGNMK		[Hex]6 [HexNAc]2
	1+	4285.6850	4284.7488	218	DGGEDNKTEEIFRPGGGNMK		[Hex]6[HexNAc]5[Fuc]1

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	*Mod	Glycan Composition
	1+	4488.3572	4487.8282	118	DGGEDNKTEEIFRPGGGNMK		[Hex]6[HexNAc]6[Fuc]1
	1+	3692.0520	3691.5056	148	DGGEDNKTEEIFRPGGGNMK		[Hex]7[HexNAc]2
	1+	3854.1699	3853.5584	159	DGGEDNKTEEIFRPGGGNMK		[Hex]8[HexNAc]2
	1+	4016.1549	4015.6112	135	DGGEDNKTEEIFRPGGGNMK		[Hex]9[HexNAc]2

Supplementary Table 2A. LC/ESI-FTICR-MS Glycopeptide Compositions for C.CON gp140 ΔCF

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	Glycan Composition
C1	3+	1637.7817	1637.7389	26	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]3[HexNAc]2
	3+	1686.4875	1686.4249	37	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]3[HexNAc]2[Fuc]1
	3+	1961.8887	1961.8446	22	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]9[HexNAc]2
	4+	1279.3563	1279.3259	24	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]3[HexNAc]3
	4+	1315.8763	1315.8403	27	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]3[HexNAc]3[Fuc]1
	4+	1366.6536	1366.6102	32	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]3[HexNAc]4[Fuc]1
	4+	1366.6536	1366.6102	32	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]3[HexNAc]4[Fuc]1
	4+	1417.4248	1417.3800	32	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]3[HexNAc]5[Fuc]1
	4+	1417.4248	1417.3800	32	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]3[HexNAc]5[Fuc]1
	4+	1468.2108	1468.1499	41	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]3[HexNAc]6[Fuc]1
	4+	1269.0923	1269.0692	18	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]4[HexNAc]2
	4+	1319.8695	1319.8391	23	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]4[HexNAc]3
	4+	1356.3885	1356.3535	26	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]4[HexNAc]3[Fuc]1
	4+	1370.6345	1370.6089	19	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]4[HexNAc]4
	4+	1421.4125	1421.3788	24	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]4[HexNAc]5
	4+	1457.9145	1457.8932	15	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]4[HexNAc]5[Fuc]1
	4+	1360.3895	1360.3523	27	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]5 [HexNAc]3
	4+	1309.6132	1309.5824	24	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]5[HexNAc]2
	4+	1396.8993	1396.8667	23	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]5[HexNAc]3[Fuc]1
	4+	1447.6770	1447.6366	28	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]5[HexNAc]4[Fuc]1
4+	1498.4549	1498.4064	32	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]5[HexNAc]5[Fuc]1	
4+	1350.1262	1350.0956	23	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]6 [HexNAc]2	
4+	1437.4230	1437.3799	30	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]6[HexNAc]3[Fuc]1	
4+	1390.6477	1390.6088	28	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]7[HexNAc]2	
4+	1431.1592	1431.1220	26	EVHNVWATHACVPTDPNPQE IVLENTENFNMWK	[Hex]8[HexNAc]2	
V1/V2	2+	1225.5555	1225.5229	27	NCSFNITTEL	[Hex]3[HexNAc]3
	2+	1298.5895	1298.5519	29	NCSFNITTEL	[Hex]3[HexNAc]3[Fuc]1
	2+	1400.1331	1400.0915	30	NCSFNITTEL	[Hex]3[HexNAc]4[Fuc]1
	2+	1501.6802	1501.6313	33	NCSFNITTEL	[Hex]3[HexNAc]5[Fuc]1
	2+	1205.0422	1205.0097	27	NCSFNITTEL	[Hex]4[HexNAc]2
	2+	1306.5850	1306.5493	27	NCSFNITTEL	[Hex]4[HexNAc]3
	2+	1379.6094	1379.5783	23	NCSFNITTEL	[Hex]4[HexNAc]3[Fuc]1
	2+	1387.6170	1387.5757	30	NCSFNITTEL	[Hex]5 [HexNAc]3
	2+	1286.0717	1286.0360	28	NCSFNITTEL	[Hex]5[HexNAc]2
	2+	1468.6426	1468.6021	28	NCSFNITTEL	[Hex]6[HexNAc]3
	2+	1448.1323	1448.0889	30	NCSFNITTEL	[Hex]7[HexNAc]2
	2+	1529.1647	1529.1153	32	NCSFNITTEL	[Hex]8[HexNAc]2
	2+	1610.1965	1610.1417	34	NCSFNITTEL	[Hex]9[HexNAc]2
V2	2+	1321.6302	1321.5949	27	LDIVPLNENNSYR	[Hex]3[HexNAc]3
	2+	1394.6666	1394.6239	31	LDIVPLNENNSYR	[Hex]3[HexNAc]3[Fuc]1
	2+	1496.2114	1496.1635	32	LDIVPLNENNSYR	[Hex]3[HexNAc]4[Fuc]1
	2+	1597.7590	1597.7033	35	LDIVPLNENNSYR	[Hex]3[HexNAc]5[Fuc]1
	2+	1699.3060	1699.2430	37	LDIVPLNENNSYR	[Hex]3[HexNAc]6[Fuc]1
	2+	1301.1096	1301.0817	21	LDIVPLNENNSYR	[Hex]4[HexNAc]2
	2+	1475.6940	1475.6503	30	LDIVPLNENNSYR	[Hex]4[HexNAc]3[Fuc]1
	2+	1722.8026	1722.7377	38	LDIVPLNENNSYR	[Hex]4[HexNAc]4[Fuc]1[NeuNAc]1
	2+	1678.7942	1678.7296	38	LDIVPLNENNSYR	[Hex]4[HexNAc]5[Fuc]1
	2+	1824.3492	1824.2774	39	LDIVPLNENNSYR	[Hex]4[HexNAc]5[Fuc]1[NeuNAc]1
	2+	1925.8838	1925.8171	35	LDIVPLNENNSYR	[Hex]4[HexNAc]6[Fuc]1[NeuNAc]1
	2+	1483.6924	1483.6477	30	LDIVPLNENNSYR	[Hex]5 [HexNAc]3

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	Glycan Composition
	2+	1382.1458	1382.1080	27	LDIVPLNENNSYR	[Hex]5[HexNAc]2
	2+	1658.2547	1658.2164	23	LDIVPLNENNSYR	[Hex]5[HexNAc]4[Fuc]1
	2+	1803.8317	1803.7641	37	LDIVPLNENNSYR	[Hex]5[HexNAc]4[Fuc]1[NeuNAc]1
	2+	1759.8231	1759.7561	38	LDIVPLNENNSYR	[Hex]5[HexNAc]5[Fuc]1
	2+	1905.3775	1905.3038	39	LDIVPLNENNSYR	[Hex]5[HexNAc]5[Fuc]1[NeuNAc]1
	2+	1463.1772	1463.1345	29	LDIVPLNENNSYR	[Hex]6[HexNAc]2
	2+	1986.4237	1986.3302	47	LDIVPLNENNSYR	[Hex]6[HexNAc]5[Fuc]1[NeuNAc]1
V2-C2	2+	1292.1111	1292.0747	28	LINCNTSAITQACPK	[Hex]3[HexNAc]2
	2+	1365.1343	1365.1037	22	LINCNTSAITQACPK	[Hex]3[HexNAc]2[Fuc]1
	2+	1393.6633	1393.6144	35	LINCNTSAITQACPK	[Hex]3[HexNAc]3
	2+	1466.6869	1466.6434	30	LINCNTSAITQACPK	[Hex]3[HexNAc]3[Fuc]1
	2+	1568.2372	1568.183	35	LINCNTSAITQACPK	[Hex]3[HexNAc]4[Fuc]1
	2+	1669.7893	1669.7228	40	LINCNTSAITQACPK	[Hex]3[HexNAc]5[Fuc]1
	2+	1771.3388	1771.2625	43	LINCNTSAITQACPK	[Hex]3[HexNAc]6[Fuc]1
	2+	1373.1427	1373.1012	30	LINCNTSAITQACPK	[Hex]4[HexNAc]2
	2+	1446.1651	1446.1301	24	LINCNTSAITQACPK	[Hex]4[HexNAc]2[Fuc]1
	2+	1474.6872	1474.6408	31	LINCNTSAITQACPK	[Hex]4[HexNAc]3
	2+	1547.7246	1547.6698	35	LINCNTSAITQACPK	[Hex]4[HexNAc]3[Fuc]1
	2+	1693.2758	1693.2175	34	LINCNTSAITQACPK	[Hex]4[HexNAc]3[Fuc]1[NeuNAc]1
	2+	1794.8353	1794.7572	44	LINCNTSAITQACPK	[Hex]4[HexNAc]4[Fuc]1[NeuNAc]1
	2+	1750.8233	1750.7491	42	LINCNTSAITQACPK	[Hex]4[HexNAc]5[Fuc]1
	2+	1896.3878	1896.2969	48	LINCNTSAITQACPK	[Hex]4[HexNAc]5[Fuc]1[NeuNAc]1
	2+	1997.9343	1997.8366	49	LINCNTSAITQACPK	[Hex]4[HexNAc]6[Fuc]1[NeuNAc]1
	2+	1555.7226	1555.6672	36	LINCNTSAITQACPK	[Hex]5[HexNAc]3
	2+	1701.2466	1701.2149	19	LINCNTSAITQACPK	[Hex]5[HexNAc]3[NeuNAc]1
	2+	1454.1729	1454.1275	31	LINCNTSAITQACPK	[Hex]5[HexNAc]2
	2+	1628.7583	1628.6962	38	LINCNTSAITQACPK	[Hex]5[HexNAc]3[Fuc]1
	2+	1730.3086	1730.2359	42	LINCNTSAITQACPK	[Hex]5[HexNAc]4[Fuc]1
	3+	1250.9090	1250.8582	41	LINCNTSAITQACPK	[Hex]5[HexNAc]4[Fuc]1[NeuNAc]1
	2+	1831.8468	1831.7756	39	LINCNTSAITQACPK	[Hex]5[HexNAc]5[Fuc]1
	2+	1977.4281	1977.3233	53	LINCNTSAITQACPK	[Hex]5[HexNAc]5[Fuc]1[NeuNAc]1
	2+	1535.2032	1535.1540	32	LINCNTSAITQACPK	[Hex]6[HexNAc]2
	2+	1636.7577	1636.6936	39	LINCNTSAITQACPK	[Hex]6[HexNAc]3
	2+	1782.3187	1782.2413	43	LINCNTSAITQACPK	[Hex]6[HexNAc]3[NeuNAc]1
	2+	1912.8654	1912.802	33	LINCNTSAITQACPK	[Hex]6[HexNAc]5[Fuc]1
	3+	1372.6442	1372.5689	55	LINCNTSAITQACPK	[Hex]6[HexNAc]5[Fuc]1[NeuNAc]1
	2+	1616.2393	1616.1804	36	LINCNTSAITQACPK	[Hex]7[HexNAc]2
	3+	1131.8211	1131.8070	12	LINCNTSAITQACPK	[Hex]8[HexNAc]2
	3+	1185.8461	1185.8246	18	LINCNTSAITQACPK	[Hex]9[HexNAc]2
C2	2+	957.3676	957.3561	12	CNNK	[Hex]6[HexNAc]2
	2+	1038.4032	1038.3825	20	CNNK	[Hex]7[HexNAc]2
	2+	1119.4129	1119.4089	4	CNNK	[Hex]8[HexNAc]2
	2+	1200.4354	1200.4353	0	CNNK	[Hex]9[HexNAc]2
	5+	1871.0864	1870.9991	47	TFNGTGPCNNVSTVQCTHGIKPVVSTQLLLNGSLAEEIIIIR	[Hex]22[HexNAc]6
	5+	1903.4922	1903.4097	43	TFNGTGPCNNVSTVQCTHGIKPVVSTQLLLNGSLAEEIIIIR	[Hex]23[HexNAc]6
	5+	1935.7390	1935.8873	77	TFNGTGPCNNVSTVQCTHGIKPVVSTQLLLNGSLAEEIIIIR	[Hex]24[HexNAc]6
	5+	1968.2308	1968.2308	81	TFNGTGPCNNVSTVQCTHGIKPVVSTQLLLNGSLAEEIIIIR	[Hex]25[HexNAc]6
	2+	1205.5285	1205.4973	26	SENLTNNAK	[Hex]5[HexNAc]3
	2+	1103.9802	1103.9576	20	SENLTNNAK	[Hex]5[HexNAc]2
	2+	1307.0849	1307.0370	37	SENLTNNAK	[Hex]5[HexNAc]4
	2+	1185.0102	1184.9840	22	SENLTNNAK	[Hex]6[HexNAc]2

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	Glycan Composition
	2+	1286.5566	1286.5237	26	SENLTNNAK	[Hex]6[HexNAc]3
	2+	1266.0386	1266.0104	22	SENLTNNAK	[Hex]7[HexNAc]2
	2+	1347.0704	1347.0368	25	SENLTNNAK	[Hex]8[HexNAc]2
	2+	1428.1165	1428.0632	37	SENLTNNAK	[Hex]9[HexNAc]2
C2-V3	3+	1995.5054	1995.5043	1	TIIVHLNESVEIVCTRPNNNTR	[Hex]16[HexNAc]4
	3+	1941.4575	1941.4872	15	TIIVHLNESVEIVCTRPNNNTR	[Hex]15[HexNAc]4
	3+	1887.4963	1887.4691	14	TIIVHLNESVEIVCTRPNNNTR	[Hex]14[HexNAc]4
	3+	1833.4542	1833.4515	1	TIIVHLNESVEIVCTRPNNNTR	[Hex]13[HexNAc]4
	3+	1779.512	1779.4334	44	TIIVHLNESVEIVCTRPNNNTR	[Hex]12[HexNAc]4
	3+	1725.4309	1725.4163	8	TIIVHLNESVEIVCTRPNNNTR	[Hex]11[HexNAc]4
	3+	1725.5099	1725.4163	54	TIIVHLNESVEIVCTRPNNNTR	[Hex]11[HexNAc]4
	3+	1671.4459	1671.3987	28	TIIVHLNESVEIVCTRPNNNTR	[Hex]10[HexNAc]4
V3-C3	3+	1462.6507	1462.9032	173	QAHCNISEDKWVK	[Hex]12[HexNAc]4
	3+	1516.9489	1516.9208	19	QAHCNISEDKWVK	[Hex]13[HexNAc]4
	3+	1570.9668	1570.9384	18	QAHCNISEDKWVK	[Hex]14[HexNAc]4
	3+	1624.9948	1624.9560	24	QAHCNISEDKWVK	[Hex]15[HexNAc]4
	3+	1679.0208	1678.9736	28	QAHCNISEDKWVK	[Hex]16[HexNAc]4
	3+	1733.0442	1732.9913	31	QAHCNISEDKWVK	[Hex]17[HexNAc]4
	3+	1787.1003	1787.0089	51	QAHCNISEDKWVK	[Hex]18[HexNAc]4
C3	2+	1229.0829	1229.0493	27	LKEHFPNK	[Hex]3[HexNAc]4[Fuc]1
	2+	1208.5705	1208.5360	29	LKEHFPNK	[Hex]4[HexNAc]3[Fuc]1
	2+	1115.0203	1114.9938	24	LKEHFPNK	[Hex]5[HexNAc]2
	2+	1196.0593	1196.0202	33	LKEHFPNK	[Hex]6 [HexNAc]2
	2+	1297.6148	1297.5599	42	LKEHFPNK	[Hex]6[HexNAc]3
	2+	1399.1049	1399.0996	4	LKEHFPNK	[Hex]6[HexNAc]4
	2+	1277.0843	1277.0466	30	LKEHFPNK	[Hex]7[HexNAc]2
	2+	1358.1112	1358.0730	28	LKEHFPNK	[Hex]8[HexNAc]2
	2+	1439.1392	1439.0994	28	LKEHFPNK	[Hex]9[HexNAc]2
	3+	866.0968	866.0844	14	LKEHFPNKTIK	[Hex]3[HexNAc]3[Fuc]1
	3+	1001.4924	1001.4707	22	LKEHFPNKTIK	[Hex]3[HexNAc]5[Fuc]1
	3+	1069.1863	1069.1638	21	LKEHFPNKTIK	[Hex]3[HexNAc]6[Fuc]1
	2+	1379.6918	1379.6494	31	LKEHFPNKTIK	[Hex]4[HexNAc]3[Fuc]1
	3+	1055.5118	1055.4882	22	LKEHFPNKTIK	[Hex]4[HexNAc]5[Fuc]1
	2+	1460.6868	1460.6758	8	LKEHFPNKTIK	[Hex]5[HexNAc]3[Fuc]1
	3+	1041.8371	1041.8127	23	LKEHFPNKTIK	[Hex]5[HexNAc]4[Fuc]1
	3+	1109.5338	1109.5059	25	LKEHFPNKTIK	[Hex]5[HexNAc]5[Fuc]1
	3+	1163.5471	1163.5235	20	LKEHFPNKTIK	[Hex]6[HexNAc]5[Fuc]1
	3+	1231.2418	1231.2166	20	LKEHFPNKTIK	[Hex]6[HexNAc]6[Fuc]1
C3-V4	2+	1235.0099	1234.9802	24	GEFFYCNTSK	[Hex]5[HexNAc]2
	2+	1316.0454	1316.0066	29	GEFFYCNTSK	[Hex]6 [HexNAc]2
	2+	1397.0778	1397.0330	32	GEFFYCNTSK	[Hex]7[HexNAc]2
	2+	1478.1072	1478.0594	32	GEFFYCNTSK	[Hex]8[HexNAc]2
	2+	1519.1221	1519.0860	24	GEFFYCNTSK	[Hex]6[HexNAc]4
	2+	1559.1411	1559.0858	35	GEFFYCNTSK	[Hex]9[HexNAc]2
	2+	1575.6453	1575.6098		GEFFYCNTSK	[Hex]4[HexNAc]4[Fuc]1[NeuNAc]1
C4	2+	1200.0697	1200.0344	29	AMYAPPIAGNITCK	[Hex]3[HexNAc]2
	2+	1301.6216	1301.5741	36	AMYAPPIAGNITCK	[Hex]3[HexNAc]3
	2+	1476.1805	1476.1427	26	AMYAPPIAGNITCK	[Hex]3[HexNAc]4[Fuc]1
	2+	1577.7615	1577.6824	50	AMYAPPIAGNITCK	[Hex]3[HexNAc]5[Fuc]1

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	Glycan Composition
	2+	1679.3109	1679.2221	53	AMYAPPIAGNITCK	[Hex]3[HexNAc]6[Fuc]1
	2+	1281.0992	1281.0608	30	AMYAPPIAGNITCK	[Hex]4[HexNAc]2
	2+	1382.6558	1382.6005	40	AMYAPPIAGNITCK	[Hex]4[HexNAc]3
	2+	1463.6767	1463.6269	34	AMYAPPIAGNITCK	[Hex]5 [HexNAc]3
	2+	1362.1304	1362.0872	32	AMYAPPIAGNITCK	[Hex]5[HexNAc]2
	2+	1443.1597	1443.1136	32	AMYAPPIAGNITCK	[Hex]6 [HexNAc]2
	2+	1524.1965	1524.1400	37	AMYAPPIAGNITCK	[Hex]7[HexNAc]2
	2+	1605.2305	1605.1664	40	AMYAPPIAGNITCK	[Hex]8[HexNAc]2
	2+	1686.2652	1686.1928	43	AMYAPPIAGNITCK	[Hex]9[HexNAc]2
	2+	990.5096	990.4857	24	SNITGLLLTR	[Hex]3[HexNAc]2
	2+	1092.0485	1092.0254	21	SNITGLLLTR	[Hex]3[HexNAc]3
	2+	1165.0845	1165.0544	26	SNITGLLLTR	[Hex]3[HexNAc]3[Fuc]1
	2+	1237.5773	1237.5731	3	SNITGLLLTR	[Hex]3[HexNAc]3[NeuNAc]1
	2+	1193.6089	1193.5651	37	SNITGLLLTR	[Hex]3[HexNAc]4
	2+	1266.6308	1266.5940	29	SNITGLLLTR	[Hex]3[HexNAc]4[Fuc]1
	2+	1295.1545	1295.1048	38	SNITGLLLTR	[Hex]3[HexNAc]5
	2+	1368.1593	1368.1338	19	SNITGLLLTR	[Hex]3[HexNAc]5[Fuc]1
	2+	1469.7062	1469.6735	22	SNITGLLLTR	[Hex]3[HexNAc]6[Fuc]1
	2+	1274.6418	1274.5915	39	SNITGLLLTR	[Hex]4 [HexNAc]4
	2+	1071.5379	1071.5122	24	SNITGLLLTR	[Hex]4[HexNAc]2
	2+	1173.0850	1173.0518	28	SNITGLLLTR	[Hex]4[HexNAc]3
	2+	1246.1144	1246.0808	27	SNITGLLLTR	[Hex]4[HexNAc]3[Fuc]1
	2+	1449.1642	1449.1601	3	SNITGLLLTR	[Hex]4[HexNAc]5[Fuc]1
	2+	1254.1127	1254.0782	28	SNITGLLLTR	[Hex]5 [HexNAc]3
	2+	1152.5688	1152.5385	26	SNITGLLLTR	[Hex]5[HexNAc]2
	2+	1327.1442	1327.1072	28	SNITGLLLTR	[Hex]5[HexNAc]3[Fuc]1
	2+	1428.6858	1428.6469	27	SNITGLLLTR	[Hex]5[HexNAc]4[Fuc]1
	2+	1675.7205	1675.7343	8	SNITGLLLTR	[Hex]5[HexNAc]5[Fuc]1[NeuNAc]1
	2+	1233.5995	1233.5650	28	SNITGLLLTR	[Hex]6 [HexNAc]2
	2+	1335.1468	1335.1046	32	SNITGLLLTR	[Hex]6[HexNAc]3
	2+	1480.7057	1480.6523	36	SNITGLLLTR	[Hex]6[HexNAc]3[NeuNAc]1
	2+	1314.6329	1314.5914	32	SNITGLLLTR	[Hex]7[HexNAc]2
	2+	1416.1557	1416.1310	17	SNITGLLLTR	[Hex]7[HexNAc]3
	2+	1395.6629	1395.6178	32	SNITGLLLTR	[Hex]8[HexNAc]2
	2+	1476.6938	1476.6442	34	SNITGLLLTR	[Hex]9[HexNAc]2
C4-V5	3+	1050.8028	1050.7769	25	DGGKNNTEFRPGGGDMR	[Hex]3[HexNAc]3[Fuc]1
	3+	1118.4990	1118.4700	26	DGGKNNTEFRPGGGDMR	[Hex]3[HexNAc]4[Fuc]1
	3+	1186.1962	1186.1632	28	DGGKNNTEFRPGGGDMR	[Hex]3[HexNAc]5[Fuc]1
	3+	1104.8234	1104.7945	26	DGGKNNTEFRPGGGDMR	[Hex]4[HexNAc]3[Fuc]1
	3+	1269.5431	1269.5195	19	DGGKNNTEFRPGGGDMR	[Hex]4[HexNAc]4[Fuc]1 [NeuNAc]1
	3+	1240.2155	1240.1808	28	DGGKNNTEFRPGGGDMR	[Hex]4[HexNAc]5[Fuc]1
	3+	1337.2565	1337.2126	33	DGGKNNTEFRPGGGDMR	[Hex]4[HexNAc]5[Fuc]1 [NeuNAc]1
	3+	1404.9519	1404.9057	33	DGGKNNTEFRPGGGDMR	[Hex]4[HexNAc]6[Fuc]1 [NeuNAc]1
	3+	1158.8431	1158.8121	27	DGGKNNTEFRPGGGDMR	[Hex]5[HexNAc]3[Fuc]1
	3+	1226.5415	1226.5053	30	DGGKNNTEFRPGGGDMR	[Hex]5[HexNAc]4[Fuc]1
	3+	1245.5370	1245.5124	20	DGGKNNTEFRPGGGDMR	[Hex]5[HexNAc]5
	3+	1294.2400	1294.1984	32	DGGKNNTEFRPGGGDMR	[Hex]5[HexNAc]5[Fuc]1
	3+	1391.2897	1391.2302	43	DGGKNNTEFRPGGGDMR	[Hex]5[HexNAc]5[Fuc]1 [NeuNAc]1
	3+	1096.4819	1096.4507	28	DGGKNNTEFRPGGGDMR	[Hex]6 [HexNAc]2
	3+	1348.2501	1348.2160	25	DGGKNNTEFRPGGGDMR	[Hex]6[HexNAc]5[Fuc]1
	3+	1445.3079	1445.2478	42	DGGKNNTEFRPGGGDMR	[Hex]6[HexNAc]5[Fuc]1 [NeuNAc]1
	3+	1415.9688	1415.9091	42	DGGKNNTEFRPGGGDMR	[Hex]6[HexNAc]6[Fuc]1
	3+	1150.5018	1150.4683	29	DGGKNNTEFRPGGGDMR	[Hex]7[HexNAc]2

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	Glycan Composition
	3+	1258.5368	1258.5035	26	DGGKNNTEFRPGGGDMR	[Hex]9[HexNAc]2
TM	2+	1480.1981	1480.1548	29	LICTTAVPWNSSWSNK	[Hex]3[HexNAc]3
	2+	1553.2335	1553.1838	32	LICTTAVPWNSSWSNK	[Hex]3[HexNAc]3[Fuc]1
	2+	1654.7867	1654.7234	38	LICTTAVPWNSSWSNK	[Hex]3[HexNAc]4[Fuc]1
	2+	1756.3298	1756.2632	38	LICTTAVPWNSSWSNK	[Hex]3[HexNAc]5[Fuc]1
	2+	1459.6937	1459.6416	36	LICTTAVPWDSSWSNK	[Hex]4[HexNAc]2
	2+	1561.2463	1561.1812	42	LICTTAVPWNSSWSNK	[Hex]4[HexNAc]3
	2+	1642.2718	1642.2076	39	LICTTAVPWNSSWSNK	[Hex]5 [HexNAc]3
	2+	1540.7214	1540.6679	35	LICTTAVPWNSSWSNK	[Hex]5[HexNAc]2
	2+	1962.3188	1962.324	3	LICTTAVPWNSSWSNK	[Hex]5[HexNAc]4[Fuc]1[NeuNAc]1
	2+	1621.7556	1621.6944	38	LICTTAVPWNSSWSNK	[Hex]6 [HexNAc]2
	2+	1723.2905	1723.234	33	LICTTAVPWNSSWSNK	[Hex]6[HexNAc]3
	2+	1702.7874	1702.7208	39	LICTTAVPWNSSWSNK	[Hex]7[HexNAc]2
	2+	1783.8153	1783.7472	38	LICTTAVPWNSSWSNK	[Hex]8[HexNAc]2
	2+	1308.5971	1308.5577	30	EISNYTDIYR	[Hex]3[HexNAc]3[Fuc]1
	2+	1410.1390	1410.0973	30	EISNYTDIYR	[Hex]3[HexNAc]4[Fuc]1
	2+	1511.6934	1511.6371	37	EISNYTDIYR	[Hex]3[HexNAc]5[Fuc]1
	2+	1613.2339	1613.1768	35	EISNYTDIYR	[Hex]3[HexNAc]6[Fuc]1
	2+	1389.6246	1389.5841	29	EISNYTDIYR	[Hex]4[HexNAc]3[Fuc]1
	2+	1296.0817	1296.0418	31	EISNYTDIYR	[Hex]5[HexNAc]2
	2+	1470.6725	1470.6105	42	EISNYTDIYR	[Hex]5[HexNAc]3[Fuc]1
2+	1377.1093	1377.0683	30	EISNYTDIYR	[Hex]6 [HexNAc]2	
2+	1624.2318	1624.1556	47	EISNYTDIYR	[Hex]6[HexNAc]3[NeuNAc]1	
2+	1458.1374	1458.0947	29	EISNYTDIYR	[Hex]7[HexNAc]2	
2+	1742.2623	1742.2004	36	EISNYTDIYR	[Hex]8[HexNAc]4	
2+	1620.2043	1620.1475	35	EISNYTDIYR	[Hex]9[HexNAc]2	
	2+	1070.9678	1070.9462	20	SQEDIWDNMTWMQWDR	non-glycosylated

Supplementary Table 2B. MALDI-MS Glycopeptide Compositions for C.CON gp140 ΔCF

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	*Mod	Glycan Composition
C1-V1	1+	5286.3784	5285.4991	166	LTPLCVTLNCTNATNATNTMGEIK		[Hex]7 [HexNAc]6 [Fuc]2
	1+	5489.3618	5488.6941	122	LTPLCVTLNCTNATNATNTMGEIK		[Hex]7 [HexNAc]7 [Fuc]2
	1+	5601.7202	5602.7981	192	LTPLCVTLNCTNATNATNTMGEIK		[Hex]7 [HexNAc]9
	1+	5806.0859	5805.9931	16	LTPLCVTLNCTNATNATNTMGEIK		[Hex]7 [HexNAc]10
	1+	5155.1592	5155.3555	38	LTPLCVTLNCTNATNATNTMGEIK		[Hex]8 [HexNAc]6
	1+	5360.3022	5358.5505	327	LTPLCVTLNCTNATNATNTMGEIK		[Hex]8 [HexNAc]7
	1+	5764.6094	5764.9405	57	LTPLCVTLNCTNATNATNTMGEIK		[Hex]8 [HexNAc]9
	1+	5967.8945	5968.1354	40	LTPLCVTLNCTNATNATNTMGEIK		[Hex]8 [HexNAc]10
	1+	6171.1860	6171.3305	23	LTPLCVTLNCTNATNATNTMGEIK		[Hex]8 [HexNAc]11
	1+	6374.4961	6374.5255	5	LTPLCVTLNCTNATNATNTMGEIK		[Hex]8 [HexNAc]12
	1+	6577.3652	6577.7205	54	LTPLCVTLNCTNATNATNTMGEIK		[Hex]8 [HexNAc]13
	1+	5113.6440	5114.3024	129	LTPLCVTLNCTNATNATNTMGEIK		[Hex]9 [HexNAc]5
	1+	5522.8213	5520.6929	386	LTPLCVTLNCTNATNATNTMGEIK		[Hex]9 [HexNAc]7
	1+	5724.1836	5723.8879	52	LTPLCVTLNCTNATNATNTMGEIK		[Hex]9 [HexNAc]8
	1+	5928.4111	5927.0829	224	LTPLCVTLNCTNATNATNTMGEIK		[Hex]9 [HexNAc]9
	1+	5072.6533	5073.2503	118	LTPLCVTLNCTNATNATNTMGEIK		[Hex]10 [HexNAc]4
	1+	5685.5425	5682.8353	476	LTPLCVTLNCTNATNATNTMGEIK		[Hex]10 [HexNAc]7
	1+	5234.4233	5235.3927	185	LTPLCVTLNCTNATNATNTMGEIK		[Hex]11 [HexNAc]4
1+	5396.5200	5397.5351	188	LTPLCVTLNCTNATNATNTMGEIK		[Hex]12 [HexNAc]4	
1+	6006.2280	6007.1201	149	LTPLCVTLNCTNATNATNTMGEIK		[Hex]12 [HexNAc]7	
V1/V2	1+	2799.6101	2799.1758	155	NCSFNITTELR		[Hex]3[HexNAc]4[Fuc]1
	1+	3002.6665	3002.2553	137	NCSFNITTELR		[Hex]3[HexNAc]5[Fuc]1
	1+	3205.7878	3205.3347	141	NCSFNITTELR		[Hex]3[HexNAc]6[Fuc]1
	1+	2758.5537	2758.1493	147	NCSFNITTELR		[Hex]4[HexNAc]3[Fuc]1
	1+	3164.7595	3164.3080	143	NCSFNITTELR		[Hex]4[HexNAc]5[Fuc]1
	1+	2571.4458	2571.0648	148	NCSFNITTELR		[Hex]5[HexNAc]2
	1+	2919.9165	2920.2021	98	NCSFNITTELR		[Hex]5[HexNAc]3[Fuc]1
	1+	3123.7192	3123.2815	140	NCSFNITTELR		[Hex]5[HexNAc]4[Fuc]1
	1+	3326.8188	3326.3609	138	NCSFNITTELR		[Hex]5[HexNAc]5[Fuc]1
	1+	2733.3591	2733.1177	88	NCSFNITTELR		[Hex]6 [HexNAc]2
	1+	3082.7095	3082.2549	147	NCSFNITTELR		[Hex]6[HexNAc]3[Fuc]1
	1+	3691.9773	3691.4931	131	NCSFNITTELR		[Hex]6[HexNAc]6[Fuc]1
	1+	4503.6958	4503.8105	25	NCSFNITTELR		[Hex]6[HexNAc]10[Fuc]1
	1+	2895.5461	2895.1705	130	NCSFNITTELR		[Hex]7[HexNAc]2
	1+	4665.7813	4665.8633	18	NCSFNITTELR		[Hex]7[HexNAc]10[Fuc]1
	1+	3057.6719	3057.2233	147	NCSFNITTELR		[Hex]8[HexNAc]2
	1+	4827.8433	4827.9161	15	NCSFNITTELR		[Hex]8[HexNAc]10[Fuc]1
	1+	3219.7573	3219.2761	149	NCSFNITTELR		[Hex]9[HexNAc]2
1+	4989.9180	4989.9690	10	NCSFNITTELR		[Hex]9[HexNAc]10[Fuc]1	
1+	5152.0703	5152.0218	9	NCSFNITTELR		[Hex]10[HexNAc]10[Fuc]1	
1+	5314.2603	5314.0746	35	NCSFNITTELR		[Hex]11[HexNAc]10[Fuc]1	
1+	5476.0086	5476.1274	22	NCSFNITTELR		[Hex]12[HexNAc]10[Fuc]1	
V2	1+	2438.6860	2439.1032	171	LDIVPLNENNSYR		[Hex]3[HexNAc]2
	1+	2641.8313	2642.1826	133	LDIVPLNENNSYR		[Hex]3[HexNAc]3
	1+	2788.6597	2788.2404	150	LDIVPLNENNSYR		[Hex]3[HexNAc]3[Fuc]1
	1+	2845.8538	2845.2619	208	LDIVPLNENNSYR		[Hex]3[HexNAc]4
	1+	2991.7131	2991.3197	132	LDIVPLNENNSYR		[Hex]3[HexNAc]4[Fuc]1
	1+	3048.9717	3048.3414	207	LDIVPLNENNSYR		[Hex]3[HexNAc]5
	1+	3194.8367	3194.3992	137	LDIVPLNENNSYR		[Hex]3[HexNAc]5[Fuc]1
	1+	3250.8193	3251.4207	185	LDIVPLNENNSYR		[Hex]3[HexNAc]6

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	*Mod	Glycan Composition
	1+	3397.1240	3397.4787	104	LDIVPLNENNSYR		[Hex]3[HexNAc]6[Fuc]1
	1+	3007.9524	3007.3148	212	LDIVPLNENNSYR		[Hex]4 [HexNAc]4
	1+	2600.8037	2601.1561	135	LDIVPLNENNSYR		[Hex]4[HexNAc]2
	1+	2804.8242	2804.2354	210	LDIVPLNENNSYR		[Hex]4[HexNAc]3
	1+	2950.6931	2950.2932	136	LDIVPLNENNSYR		[Hex]4[HexNAc]3[Fuc]1
	1+	3356.8442	3356.4519	117	LDIVPLNENNSYR		[Hex]4[HexNAc]5[Fuc]1
	1+	2966.6328	2966.2881	116	LDIVPLNENNSYR		[Hex]5 [HexNAc]3
	1+	2763.6226	2763.2087	150	LDIVPLNENNSYR		[Hex]5[HexNAc]2
	1+	3112.7966	3112.3460	145	LDIVPLNENNSYR		[Hex]5[HexNAc]3[Fuc]1
	1+	3315.9260	3315.4254	151	LDIVPLNENNSYR		[Hex]5[HexNAc]4[Fuc]1
	1+	3519.0183	3518.5048	146	LDIVPLNENNSYR		[Hex]5[HexNAc]5[Fuc]1
	1+	2924.8999	2925.2617	124	LDIVPLNENNSYR		[Hex]6 [HexNAc]2
	1+	3535.3845	3534.4998	250	LDIVPLNENNSYR		[Hex]6 [HexNAc]5
	1+	3129.0271	3128.3410	219	LDIVPLNENNSYR		[Hex]6[HexNAc]3
	1+	3738.3733	3737.5792	212	LDIVPLNENNSYR		[Hex]6[HexNAc]6
	1+	3883.0996	3883.6370	138	LDIVPLNENNSYR		[Hex]6[HexNAc]6[Fuc]1
	1+	3087.0163	3087.3145	97	LDIVPLNENNSYR		[Hex]7[HexNAc]2
	1+	3494.1809	3493.4732	203	LDIVPLNENNSYR		[Hex]7[HexNAc]4
	1+	4046.2751	4045.6898	145	LDIVPLNENNSYR		[Hex]7[HexNAc]6[Fuc]1
	1+	4249.3848	4248.7692	145	LDIVPLNENNSYR		[Hex]7[HexNAc]7[Fuc]1
	1+	3249.8628	3249.3672	153	LDIVPLNENNSYR		[Hex]8[HexNAc]2
	1+	3411.9031	3411.4200	142	LDIVPLNENNSYR		[Hex]9[HexNAc]2
V2-C2	1+	3135.7009	3135.3588	109	LINCNTSAITQACPK		[Hex]3[HexNAc]4[Fuc]1
	1+	3338.8423	3338.4383	121	LINCNTSAITQACPK		[Hex]3[HexNAc]5[Fuc]1
	1+	3395.8850	3395.4598	125	LINCNTSAITQACPK		[Hex]3[HexNAc]6
	1+	3541.7887	3541.5177	77	LINCNTSAITQACPK		[Hex]3[HexNAc]6[Fuc]1
	1+	3094.7599	3094.3323	138	LINCNTSAITQACPK		[Hex]4[HexNAc]3[Fuc]1
	1+	3500.9180	3500.4910	122	LINCNTSAITQACPK		[Hex]4[HexNAc]5[Fuc]1
	1+	3110.6927	3110.3272	118	LINCNTSAITQACPK		[Hex]5 [HexNAc]3
	1+	2907.5618	2907.2478	108	LINCNTSAITQACPK		[Hex]5[HexNAc]2
	1+	3256.9709	3256.3851	180	LINCNTSAITQACPK		[Hex]5[HexNAc]3[Fuc]1
	1+	3460.0225	3459.4645	161	LINCNTSAITQACPK		[Hex]5[HexNAc]4[Fuc]1
	1+	3069.1637	3069.3007	45	LINCNTSAITQACPK		[Hex]6 [HexNAc]2
	1+	3231.7561	3231.3535	125	LINCNTSAITQACPK		[Hex]7[HexNAc]2
	1+	3393.7733	3393.4063	108	LINCNTSAITQACPK		[Hex]8[HexNAc]2
	1+	3555.8867	3555.4592	120	LINCNTSAITQACPK		[Hex]9[HexNAc]2
V3-C3	1+	4550.1353	4548.7479	305	QAHCNISEDKWNK		[Hex]13[HexNAc]4
	1+	4711.2480	4710.7007	116	QAHCNISEDKWNK		[Hex]14[HexNAc]4
	1+	4874.2515	4872.8536	287	QAHCNISEDKWNK		[Hex]15[HexNAc]4
	1+	5035.0863	5034.9064	36	QAHCNISEDKWNK		[Hex]16[HexNAc]4
	1+	5197.1663	5196.9592	40	QAHCNISEDKWNK		[Hex]17[HexNAc]4
	1+	5359.7002	5359.012	128	QAHCNISEDKWNK		[Hex]18[HexNAc]4
C3	1+	2355.1382	2355.0596	33	EHPNKTIK		[Hex]3[HexNAc]3[Fuc]1
	1+	2558.2378	2558.1389	39	EHPNKTIK		[Hex]3[HexNAc]4[Fuc]1
	1+	2761.3391	2761.2184	44	EHPNKTIK		[Hex]3[HexNAc]5[Fuc]1
	1+	2964.5193	2964.2978	75	EHPNKTIK		[Hex]3[HexNAc]6[Fuc]1
	1+	2923.3567	2923.2711	29	EHPNKTIK		[Hex]4[HexNAc]5[Fuc]1
	1+	2229.1558	2228.9803	79	LKEHFPNK		[Hex]5[HexNAc]2
	1+	2660.2358	2660.1708	24	LKEHFPNK		[Hex]3[HexNAc]5[Fuc]1
	1+	2822.0769	2822.2235	52	LKEHFPNK		[Hex]4[HexNAc]5[Fuc]1
	1+	2863.3303	2863.2502	28	LKEHFPNK		[Hex]3[HexNAc]6[Fuc]1

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	*Mod	Glycan Composition
	1+	2457.1396	2457.0913	20	LKEHFPNK		[Hex]3[HexNAc]4[Fuc]1
	1+	2714.8149	2715.1388	119	LKEHFPNK		[Hex]8[HexNAc]2
	1+	2596.4309	2596.2388	74	LKEHFPNKTIK		[Hex]3[HexNAc]3[Fuc]1
	1+	2799.3229	2799.3180	2	LKEHFPNKTIK		[Hex]3[HexNAc]4[Fuc]1
	1+	3002.6062	3002.3975	70	LKEHFPNKTIK		[Hex]3[HexNAc]5[Fuc]1
	1+	3205.4588	3205.4769	6	LKEHFPNKTIK		[Hex]3[HexNAc]6[Fuc]1
	1+	3164.6772	3164.4503	72	LKEHFPNKTIK		[Hex]4[HexNAc]5[Fuc]1
	1+	2571.4624	2571.2071	99	LKEHFPNKTIK		[Hex]5[HexNAc]2
	1+	3082.3440	3082.3971	17	LKEHFPNKTIK		[Hex]6[HexNAc]3[Fuc]1
	1+	3057.6233	3057.3656	84	LKEHFPNKTIK		[Hex]8[HexNAc]2
C3-V4	1+	2350.1602	2349.9062	108	GEFFYCNTSK	u	[Hex]4[HexNAc]2
	1+	2469.2314	2468.9531	113	GEFFYCNTSK		[Hex]5[HexNAc]2
	1+	2631.2871	2631.0060	107	GEFFYCNTSK		[Hex]6 [HexNAc]2
	1+	2793.4138	2793.0588	127	GEFFYCNTSK		[Hex]7[HexNAc]2
	1+	2955.5032	2955.1116	133	GEFFYCNTSK		[Hex]8[HexNAc]2
	1+	3360.9097	3361.2703	107	GEFFYCNTSK		[Hex]8[HexNAc]4
	1+	3117.2520	3117.1644	28	GEFFYCNTSK		[Hex]9[HexNAc]2
V4	1+	5033.8232	5035.0910	252	LFNSTYNSTNSTITLPCR		[Hex]6 [HexNAc]9 [Fuc]1
	1+	5237.9712	5238.1704	38	LFNSTYNSTNSTITLPCR		[Hex]6 [HexNAc]10 [Fuc]1
	1+	5441.1465	5441.2498	19	LFNSTYNSTNSTITLPCR		[Hex]6 [HexNAc]11 [Fuc]1
	1+	5196.9292	5197.1439	41	LFNSTYNSTNSTITLPCR		[Hex]7 [HexNAc]9 [Fuc]1
	1+	5400.0229	5400.2232	37	LFNSTYNSTNSTITLPCR		[Hex]7 [HexNAc]10 [Fuc]1
	1+	5603.1012	5603.3026	36	LFNSTYNSTNSTITLPCR		[Hex]7 [HexNAc]11 [Fuc]1
	1+	4750.3035	4749.9586	73	LFNSTYNSTNSTITLPCR		[Hex]8 [HexNAc]6[Fuc]1
	1+	4953.6380	4953.0379	121	LFNSTYNSTNSTITLPCR		[Hex]8 [HexNAc]7 [Fuc]1
	1+	5009.9341	5010.0594	25	LFNSTYNSTNSTITLPCR		[Hex]8 [HexNAc]8
	1+	5359.0361	5359.1967	30	LFNSTYNSTNSTITLPCR		[Hex]8 [HexNAc]9 [Fuc]1
	1+	5562.1945	5562.2760	15	LFNSTYNSTNSTITLPCR		[Hex]8 [HexNAc]10 [Fuc]1
	1+	4912.4868	4912.0114	97	LFNSTYNSTNSTITLPCR		[Hex]9 [HexNAc]6 [Fuc]1
	1+	5115.5584	5115.0908	91	LFNSTYNSTNSTITLPCR		[Hex]9 [HexNAc]7 [Fuc]1
	1+	5463.9229	5464.2280	56	LFNSTYNSTNSTITLPCR		[Hex]9 [HexNAc]8 [Fuc]2
	1+	5520.9499	5521.2495	54	LFNSTYNSTNSTITLPCR		[Hex]9 [HexNAc]9 [Fuc]1
	1+	5983.6040	5984.4297	138	LFNSTYNSTNSTITLPCR		[Hex]9 [HexNAc]12
	1+	4871.5065	4870.9848	107	LFNSTYNSTNSTITLPCR		[Hex]10 [HexNAc]5 [Fuc]1
	1+	5074.5331	5074.0642	92	LFNSTYNSTNSTITLPCR		[Hex]10 [HexNAc]6 [Fuc]1
	1+	5276.7524	5277.1436	74	LFNSTYNSTNSTITLPCR		[Hex]10 [HexNAc]7 [Fuc]1
	1+	5626.3662	5626.2809	15	LFNSTYNSTNSTITLPCR		[Hex]10 [HexNAc]8 [Fuc]2
	1+	5832.8578	5832.7859	12	LFNSTYNSTNSTITLPCR		[Hex]10 [HexNAc]9 [Fuc]2
	1+	6146.3813	6146.4825	16	LFNSTYNSTNSTITLPCR		[Hex]10 [HexNAc]12
	1+	5788.2444	5788.3337	15	LFNSTYNSTNSTITLPCR		[Hex]11 [HexNAc]8 [Fuc]2
	1+	5996.0981	5994.9283	195	LFNSTYNSTNSTITLPCR		[Hex]11 [HexNAc]9 [Fuc]2
	1+	5658.2041	5658.2707	12	LFNSTYNSTNSTITLPCR		[Hex]12 [HexNAc]8
	1+	6155.1016	6157.0707	320	LFNSTYNSTNSTITLPCR		[Hex]12 [HexNAc]9 [Fuc]2
	1+	5820.0244	5820.3235	51	LFNSTYNSTNSTITLPCR		[Hex]13 [HexNAc]8
	1+	6319.3213	6319.2131	17	LFNSTYNSTNSTITLPCR		[Hex]13 [HexNAc]9 [Fuc]2
	1+	6226.5195	6226.4822	6	LFNSTYNSTNSTITLPCR		[Hex]13 [HexNAc]10
	1+	6429.5044	6429.5616	9	LFNSTYNSTNSTITLPCR		[Hex]13 [HexNAc]11
	1+	6928.7981	6926.8408	283	LFNSTYNSTNSTITLPCR		[Hex]13 [HexNAc]12 [Fuc]2
	1+	6387.9977	6388.5351	84	LFNSTYNSTNSTITLPCR		[Hex]14 [HexNAc]10
	1+	6886.6855	6887.7455	154	LFNSTYNSTNSTITLPCR		[Hex]14 [HexNAc]11 [Fuc]2
	1+	7090.7192	7090.9405	31	LFNSTYNSTNSTITLPCR		[Hex]14 [HexNAc]12 [Fuc]2
	1+	7294.2871	7294.1355	21	LFNSTYNSTNSTITLPCR		[Hex]14 [HexNAc]13 [Fuc]2

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	*Mod	Glycan Composition
	1+	7253.5742	7253.0829	68	LFNSTYNSTNSTITLPCR		[Hex]15 [HexNAc]12 [Fuc]2
	1+	6598.2700	6598.5978	50	LFNSTYNSTNSTITLPCR		[Hex]16 [HexNAc]8 [Fuc]2
C4	1+	2723.3911	2723.1671	82	AMYAPPIAGNITCK		[Hex]5[HexNAc]2
	1+	2885.4890	2885.2200	93	AMYAPPIAGNITCK		[Hex]6 [HexNAc]2
	1+	3047.5786	3047.2728	100	AMYAPPIAGNITCK		[Hex]7[HexNAc]2
	1+	3209.6536	3209.3256	102	AMYAPPIAGNITCK		[Hex]8[HexNAc]2
	1+	3371.7434	3371.3784	108	AMYAPPIAGNITCK		[Hex]9[HexNAc]2
	1+	2154.2725	2154.0172	119	SNITGLLLTR	for	[Hex]3[HexNAc]2[Fuc]1
	1+	2329.6628	2329.1015	241	SNITGLLLTR		[Hex]3[HexNAc]3[Fuc]1
	1+	2532.6377	2532.1808	180	SNITGLLLTR		[Hex]3[HexNAc]4[Fuc]1
	1+	2735.8140	2735.2603	202	SNITGLLLTR		[Hex]3[HexNAc]5[Fuc]1
	1+	2937.8950	2938.3397	151	SNITGLLLTR		[Hex]3[HexNAc]6[Fuc]1
	1+	2142.4172	2142.0171	187	SNITGLLLTR		[Hex]4[HexNAc]2
	1+	2490.5527	2491.1543	241	SNITGLLLTR		[Hex]4[HexNAc]3[Fuc]1
	1+	2507.5208	2507.1494	148	SNITGLLLTR		[Hex]5 [HexNAc]3
	1+	2304.3997	2304.0698	143	SNITGLLLTR		[Hex]5[HexNAc]2
	1+	2466.4861	2466.1229	147	SNITGLLLTR		[Hex]6 [HexNAc]2
	1+	3221.7856	3221.4187	114	SNITGLLLTR		[Hex]6[HexNAc]5[Fuc]1
	1+	2628.5491	2628.1757	142	SNITGLLLTR		[Hex]7[HexNAc]2
	1+	2790.6248	2790.2285	142	SNITGLLLTR		[Hex]8[HexNAc]2
	1+	2952.7112	2952.2813	146	SNITGLLLTR		[Hex]9[HexNAc]2
	1+	3589.9162	3589.5143	112	SNITGLLLTR	for	[Hex]9[HexNAc]5
C4-V5	1+	3539.4487	3539.4107	11	NNTETFRPGGGDMR		[Hex]6 [HexNAc]5
	1+	2793.4939	2793.1514	123	NNTETFRPGGGDMR		[Hex]3[HexNAc]3[Fuc]1
	1+	3199.6873	3199.3102	118	NNTETFRPGGGDMR		[Hex]3[HexNAc]5[Fuc]1
	1+	2996.6045	2996.2307	125	NNTETFRPGGGDMR		[Hex]3[HexNAc]4[Fuc]1
	1+	2947.5244	2947.2369	98	DGGKNNETFRPGGGDMR		[Hex]3[HexNAc]2[Fuc]1
	1+	3004.5134	3004.2584	85	DGGKNNETFRPGGGDMR		[Hex]3[HexNAc]3
	1+	3150.3438	3150.3163	9	DGGKNNETFRPGGGDMR		[Hex]3[HexNAc]3[Fuc]1
	1+	3209.2017	3209.2419	13	DGGKNNETFRPGGGDMR		[Hex]3[HexNAc]4
	1+	3353.6272	3353.3956	69	DGGKNNETFRPGGGDMR		[Hex]3[HexNAc]4[Fuc]1
	1+	3412.5823	3412.4369	43	DGGKNNETFRPGGGDMR		[Hex]3[HexNAc]5
	1+	3556.7319	3556.4751	72	DGGKNNETFRPGGGDMR		[Hex]3[HexNAc]5[Fuc]1
	1+	3615.5510	3615.6319	22	DGGKNNETFRPGGGDMR		[Hex]3[HexNAc]6
	1+	3761.3745	3761.7749	106	DGGKNNETFRPGGGDMR		[Hex]3[HexNAc]6 [Fuc]1
	1+	3759.8401	3759.5545	76	DGGKNNETFRPGGGDMR		[Hex]3[HexNAc]6[Fuc]1
	1+	3962.9216	3962.6336	73	DGGKNNETFRPGGGDMR		[Hex]3[HexNAc]7[Fuc]1
	1+	3369.7190	3369.3905	97	DGGKNNETFRPGGGDMR		[Hex]4 [HexNAc]4
	1+	3312.6216	3312.3691	76	DGGKNNETFRPGGGDMR		[Hex]4[HexNAc]3[Fuc]1
	1+	3370.6760	3371.3843	210	DGGKNNETFRPGGGDMR		[Hex]4[HexNAc]4
	1+	3516.7559	3517.5273	219	DGGKNNETFRPGGGDMR		[Hex]4[HexNAc]4 [Fuc]1
	1+	3572.7192	3572.4700	70	DGGKNNETFRPGGGDMR		[Hex]4[HexNAc]5
	1+	3718.8135	3718.5278	77	DGGKNNETFRPGGGDMR		[Hex]4[HexNAc]5[Fuc]1
	1+	3777.6079	3777.7743	44	DGGKNNETFRPGGGDMR		[Hex]4[HexNAc]6
	1+	3921.8999	3921.6071	75	DGGKNNETFRPGGGDMR		[Hex]4[HexNAc]6[Fuc]1
	1+	4125.1121	4124.6864	103	DGGKNNETFRPGGGDMR		[Hex]4[HexNAc]7[Fuc]1
	1+	3328.5667	3328.3640	61	DGGKNNETFRPGGGDMR		[Hex]5 [HexNAc]3
	1+	3125.5046	3125.2846	70	DGGKNNETFRPGGGDMR		[Hex]5[HexNAc]2
	1+	3474.6758	3474.4219	73	DGGKNNETFRPGGGDMR		[Hex]5[HexNAc]3[Fuc]1
	1+	3677.7734	3677.5013	74	DGGKNNETFRPGGGDMR		[Hex]5[HexNAc]4[Fuc]1
	1+	3880.8906	3880.5807	80	DGGKNNETFRPGGGDMR		[Hex]5[HexNAc]5[Fuc]1

Env Domain	Charge State	Experimental Mass	Theoretical Mass	Mass Error	Peptide Sequence	*Mod	Glycan Composition
	1+	4083.9895	4083.6599	81	DGGKNNTEFRPGGGDMR		[Hex]5[HexNAc]6[Fuc]1
	1+	4286.9059	4286.7393	39	DGGKNNTEFRPGGGDMR		[Hex]5[HexNAc]7[Fuc]1
	1+	3287.5950	3287.3375	78	DGGKNNTEFRPGGGDMR		[Hex]6 [HexNAc]2
	1+	3636.8081	3636.4747	92	DGGKNNTEFRPGGGDMR		[Hex]6[HexNAc]3[Fuc]1
	1+	4043.1326	4042.6333	124	DGGKNNTEFRPGGGDMR		[Hex]6[HexNAc]5[Fuc]1
	1+	4245.7936	4245.7127	19	DGGKNNTEFRPGGGDMR		[Hex]6[HexNAc]6[Fuc]1
	1+	4449.2774	4448.7921	109	DGGKNNTEFRPGGGDMR		[Hex]6[HexNAc]7[Fuc]1
	1+	3449.6587	3449.3903	78	DGGKNNTEFRPGGGDMR		[Hex]7[HexNAc]2
	1+	4612.0562	4610.8450	263	DGGKNNTEFRPGGGDMR		[Hex]7[HexNAc]7[Fuc]1
	1+	3611.7056	3611.4431	73	DGGKNNTEFRPGGGDMR		[Hex]8[HexNAc]2
	1+	3773.7676	3773.4959	72	DGGKNNTEFRPGGGDMR		[Hex]9[HexNAc]2
	1+	4545.1953	4544.7868	90	DGGKNNTEFRPGGGDMR	mox	[Hex]9[HexNAc]5[Fuc]1
	1+	5138.3198	5138.0301	56	DGGKNNTEFRPGGGDMR		[Hex]9[HexNAc]8[Fuc]1
TM	1+	2470.3130	2470.0502	106	EISNYTDIYR		[Hex]3[HexNAc]3
	1+	2616.1843	2616.1081	29	EISNYTDIYR		[Hex]3[HexNAc]3[Fuc]1
	1+	2819.2607	2819.1874	26	EISNYTDIYR		[Hex]3[HexNAc]4[Fuc]1
	1+	3022.3398	3022.2669	24	EISNYTDIYR		[Hex]3[HexNAc]5[Fuc]1
	1+	3225.4236	3225.3463	24	EISNYTDIYR		[Hex]3[HexNAc]6[Fuc]1
	1+	3184.4397	3184.3196	38	EISNYTDIYR		[Hex]4[HexNAc]5[Fuc]1
	1+	3387.5632	3387.3990	48	EISNYTDIYR		[Hex]4[HexNAc]6[Fuc]1
	1+	2793.5376	2794.1558	221	EISNYTDIYR		[Hex]5 [HexNAc]3
	1+	2591.1609	2591.0764	33	EISNYTDIYR		[Hex]5[HexNAc]2
	1+	2940.3191	2940.2130	36	EISNYTDIYR		[Hex]5[HexNAc]3[Fuc]1
	1+	3143.3533	3143.2931	19	EISNYTDIYR		[Hex]5[HexNAc]4[Fuc]1
	1+	3346.3785	3346.3725	2	EISNYTDIYR		[Hex]5[HexNAc]5[Fuc]1
	1+	2956.4944	2956.2086	97	EISNYTDIYR		[Hex]6[HexNAc]3
	1+	3508.5603	3508.4253	38	EISNYTDIYR		[Hex]6[HexNAc]5[Fuc]1
	1+	3711.6365	3711.5047	36	EISNYTDIYR		[Hex]6[HexNAc]6[Fuc]1
	1+	3873.9639	3873.5574	105	EISNYTDIYR		[Hex]7[HexNAc]6[Fuc]1

*Mod = peptide modification
for = formylation
u = carbamylation
PyroC = Cysteine Deamidation
PyroQ = Glutamic Acid Deamidation