

**Supplemental Table 1** Relative abundance of *N*-glycans from gp120 produced by different cell lines determined by label-free mass spectrometric analysis.

Number of carbohydrates added to <i>N</i> -glycan core <sup>a</sup>			293T		Jurkat		RD		HepG2		CHO	
Hex	HexNAc	Fuc	Peak intensity	Relative abundance <sup>b</sup>	Peak intensity	Relative abundance	Peak intensity	Relative abundance	Peak intensity	Relative abundance	Peak intensity	Relative abundance
High mannose glycans												
2	0	0	2.57.E+03	11.7	2.61.E+03	13.5	1.75.E+02	2.3	5.11E+02	5.0	1.15.E+04	17.7
3	0	0	1.37.E+03	6.2	2.26.E+03	11.7	1.46.E+03	19.4	1.78E+02	1.7	6.03.E+03	9.3
4	0	0	3.13.E+03	14.2	4.70.E+03	24.4	3.80.E+03	50.4	2.38E+03	23.1	9.07.E+03	14.0
5	0	0	8.76.E+03	39.8	1.34.E+04	69.4	7.54.E+03	100.0	6.73E+03	65.3	2.10.E+04	32.4
6	0	0	2.20.E+04	100.0	1.93.E+04	100.0	5.35.E+03	71.0	1.03E+04	100.0	6.48.E+04	100.0
Complex / hybrid glycans												
1	1	0							3.09.E+01	0.3	8.89.E+02	1.4
1	1	1									2.27.E+02	0.4
2	1	1	1.54.E+03	7.0	7.69E+02	4.0						
3	1	0	1.36.E+03	6.2								
3	1	1	6.95.E+02	3.2	5.45E+02	2.8						
1	2	1	6.08.E+02	2.8			3.02.E+01	0.4	4.73.E+02	4.6	1.58.E+02	0.2
2	2	0			5.13E+02	2.7	3.86.E+01	0.5	9.18.E+02	8.9	1.95.E+03	3.0
2	2	1	1.73.E+03	7.9	7.87E+02	4.1	9.62.E+01	1.3	2.75.E+03	26.7	1.51.E+04	23.3
2	2	2							4.40.E+02	4.3		
3	2	0	2.02.E+03	9.2			8.50.E+01	1.1	1.78.E+03	17.3		
3	2	1									8.83.E+02	1.4
4	2	0	1.76.E+02	0.8								
0	3	1	1.19.E+02	0.5								
1	3	1	8.54.E+02	3.9			5.40.E+01	0.7	1.22.E+02	1.2		
2	3	0							3.06.E+01	0.3		
2	3	1	2.69.E+02	1.2			2.07.E+01	0.3	3.86.E+02	3.8		
2	3	2							6.15.E+01	0.6		
3	3	0	1.42.E+01	0.1	3.20E+02	1.7			3.81.E+02	3.7	4.02.E+02	0.6
3	3	1	3.12.E+02	1.4	1.35E+02	0.7	2.46.E+01	0.3	1.66.E+03	16.1	6.88.E+02	1.1
3	3	2							5.34.E+02	5.2		
0	4	1					3.05.E+01	0.4				
1	4	1	8.95.E+02	4.1								
2	4	1	2.33.E+02	1.1	4.85E+01	0.3			7.64.E+01	0.7		
3	4	1			8.90E+01	0.5			5.46.E+02	5.3		
4	4	0	1.46.E+02	0.7					7.30.E+01	0.7		
4	4	1			3.38E+01	0.2			1.49.E+03	14.5		

<sup>a</sup>*N*-glycan core is (GlcNAc)2(Man)3; <sup>b</sup>Relative abundance was calculated relative to the most intense peak in each sample being set to 100%.