

Table S3. Calculation of Enhancement of MLV Assembly at Cell-Cell Contact Sites for Wild Type Env and Mutant Env Lacking the Cytoplasmic Tail.

HEK293-XC		Env Δ H8							
Time Lapse Video	a		b		c		d		
	Contact	Non-contact	Contact	Non-contact	Contact	Non-contact	Contact	Non-contact	
Total Imaging Time (min)	105		114		114		105		
Frame Time (sec)	64		66		66		64		
S(μm^2)	94.50148	778.7766	203.0538	556.3281	353.3256	1201.007	44.44679	937.0749	
Assembly Events [#]	15	16	53	5	38	3	7	8	
Events/ μm^2	0.158728	0.020545	0.261015	0.008988	0.10755	0.002498	0.157492	0.008537	
Fold of Enhancement*	7.73		29.04		43.06		18.45		
HEK293-XC		Env Δ H8 Δ CT							
Time Lapse Video	e		f		g		h		
	Contact	Non-contact	Contact	Non-contact	Contact	Non-contact	Contact	Non-contact	
Total Imaging Time (min)	71		74		92		114		
Frame Time (sec)	77		53		65		65		
S(μm^2)	252.3834	959.451	122.6243	771.3919	15.2968	767.1999	126.9829	622.2828	
Particle Number [#]	3	54	5	26	1	43	1	13	
Particle/ μm^2	0.011887	0.056282	0.040775	0.033705	0.065373	0.056048	0.007875	0.020891	
Fold of Enhancement*	0.21		1.21		1.17		0.38		

[#] *de novo* assembled particle numbers; * Ratio of *de novo* assembled particle numbers per unit surface in contacting region to the one in non-contacting region.