

Table S2. Calculation of Enhancement of MLV Assembly at Cell-Cell Contact Sites.

HEK293-XCmCAT1-CFP		A		B		C	
Time Lapse Video	Contact	Non-contact	Contact	Non-contact	Contact	Non-contact	
Total Imaging Time (min)		150		150		171	
Frame Time (sec)		60		60		99	
Surface Area(μm^2)	294.0262	784.3289	272.1221	476.5329	239.7239	1317.357	
Assembly Events[#]	44	8	51	9	21	10	
Events/μm^2	0.149647	0.0102	0.187416	0.018886	0.087601	0.007591	
Fold of Enhancement*		14.67		9.92		11.54	
HEK293-XCmCAT1-CFP		D		E		F	
Time Lapse Video	Contact	Non-contact	Contact	Non-contact	Contact	Non-contact	
Total Imaging Time (min)		108		127		120	
Frame Time (sec)		52		56		68	
Surface Area(μm^2)	310.8221	1383.736	188.1979	735.4403	520.3689	1022.221	
Assembly Events[#]	16	5	18	9	51	16	
Events/μm^2	0.051476	0.003613	0.095644	0.012238	0.098007	0.015652	
Fold of Enhancement*		14.25		7.82		6.26	
HEK293-XCmCAT1-CFP		G		H		I	
Time Lapse Video	Contact	Non-contact	Contact	Non-contact	Contact	Non-contact	
Total Imaging Time (min)		141		143		126	
Frame Time (sec)		65		47		54	
Surface Area(μm^2)	212.1286	1622.905	149.3312	644.2702	145.5834	820.6415	
Assembly Events[#]	16	14	53	33	38	12	
Events/μm^2	0.075426	0.008627	0.354916	0.051221	0.261019	0.014623	
Fold of Enhancement*		8.74		6.93		17.85	
HEK293-XClifeAct-CFP		J		HEK293-HEK293mCAT1-CFP		K	
Time Lapse Video	Contact	Non-contact	Time Lapse Video		Contact	Non-contact	
Total Imaging Time (min)		83	Total Imaging Time (min)			141	
Frame Time (sec)		95	Frame Time (sec)			54	
Surface Area(μm^2)	322.5626	985.5138	Surface Area(μm^2)		261.4893	1240.077	
Assembly Events[#]	42	18	Assembly Events[#]		36	26	
Events/μm^2	0.130207	0.018265	Events/μm^2		0.137673	0.020966	
Fold of Enhancement*		7.1	Fold of Enhancement*			6.6	
Cos-XCmCAT1-CFP		L		M		N	
Time Lapse Video	Contact	Non-contact	Contact	Non-contact	Contact	Non-contact	
Total Imaging Time (min)		110		203		332	
Frame Time (sec)		44		82		132	
Surface Area(μm^2)	686.0865	3821.105	557.5471	2403.056	559.37	3052.409	
Assembly Events[#]	18	5	14	7	12	1	
Events/μm^2	0.026236	0.001309	0.02511	0.002913	0.021453	0.000328	
Fold of Enhancement*		20.05		8.62		65.48	

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