

Table S1. Calculation of Enhancement of MLV Assembly at Cell-Cell Contact Sites in Movie 3.

Frame	Contact		Non-contact	
	Assembly Events [#]	Surface Area(μm^2)	Assembly Events [#]	Surface Area(μm^2)
1	1	112.63	1	1029.919892
3	0	147.4897	1	982.789455
6	1	160.0843	1	971.832762
9	2	171.1891	0	1040.349109
10	1	139.7071	0	983.1040898
11	1	124.7527	1	1010.421791
14	1	107.42	0	985.7969932
16	1	110.1869	0	996.068893
17	2	134.4323	0	993.1076246
19	2	115.5172	0	979.6431074
21	2	106.1337	0	1003.832969
22	1	95.8433	0	997.5587811
23	1	120.5606	0	995.9485914
25	1	101.1736	0	1003.314747
26	0	109.6965	1	949.3641381
28	1	104.8937	0	1000.464526
29	1	105.4582	0	1010.847473
30	1	98.26784	0	1016.686724
32	2	87.60727	0	1017.343756
35	1	113.9626	0	989.6188803
36	1	104.2737	0	938.8423813
38	1	84.2851	0	1013.383059
40	4	82.62864	0	974.4979035
41	0	71.28328	2	960.3208311
42	2	71.2185	0	945.6903145
43	1	75.94728	0	971.7772382
46	1	61.83499	0	966.71532
53	1	69.40473	0	971.7957461
57	2	87.4222	0	937.6301121
58	1	76.12311	0	944.8574577
59	1	83.28567	0	952.2051049
61	0	70.82984	1	942.0812686
62	1	92.49337	0	984.6402478
69	2	71.11671	0	935.7978273
73	1	68.50709	0	922.9995954
74	1	58.15191	0	985.3157871
76	1	50.5359	0	876.3226024

	Total Assembly Events [#]	Average Surface Area(μm^2)	Total Assembly Events [#]	Average Surface Area(μm^2)
37 Event Frames	44	98.54996	8	977.9158675
Events/ μm^2	0.446474		0.008181	
Fold of Enhancement*	54.57676			
Overlay Frames	Total Assembly Events [#]	Surface Area(μm^2)	Total Assembly Events [#]	Surface Area(μm^2)
1-157	44	294.0262	8	784.3289491
Events/ μm^2	0.149647		0.010199802	
Fold of Enhancement*	14.67151355			

[#] *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.