

## SUPPORTING TABLE

**Table S1. Comparison of movements of VP26-GFP and APP-mRFP singly and together\***

	Average instantaneous velocity (AIV) ( $\mu\text{m/s}$ )	Range of AIV ( $\mu\text{m/s}$ )	Maximal velocity ( $\mu\text{m/s}$ )	Pauses		Run length ( $\mu\text{m}$ )
				% Total time	Duration (S)	
<b>Infected cells</b>						
VP26 and APP (n=118)	0.4 $\pm$ 0.1	0.3-1.0	2.0	30.2 $\pm$ 12.0	3-24	0.5-30.1
VP26 alone (n=15)	0.3 $\pm$ 0.1	0.2-0.3	1.2	25.9 $\pm$ 8.3	3-6	0.5-11.5
APP alone (n=64)	0.3 $\pm$ 0.1	0.2-0.4	1.3	22.5 $\pm$ 7.5	3-39	0.5-23.7
<b>Uninfected cells</b>						
APP alone (n=23)	1.1 $\pm$ 0.2	0.3-1.3	4.2	4.4 $\pm$ 1.2	3-12	13.2-149.7

\* Movements of VP26GFP-HSV particles alone or with APP-mRFP and of APP-mRFP vesicles alone inside infected or uninfected cells were measured using MetaMorph from at least 3 different cells in independent movies. Particles moving through at least 3 frames are designated as moving particles. Only particles moving into and out of a frame were measured.