Supplemental Material

S1 Movie. Time-lapse image of a centered, dual-labeled HIV RGDA/Q112D particle challenging a Jurkat cell.

The mean intensity of the tracked particle is plotted (y axis) for iGFP (green) and tdTomato-Vpr (red) signals (Top Left). The first drop of GFP signal occurs with fusion and a second total drop occurs when the capsid integrity is lost (at ~18 minutes after fusion). The Right panel shows the signal for iGFP (green), tdTomato-Vpr (red), and bright field signal for cell reference (gray). Particle box shows the signal of GFP (green) and tdTomato-Vpr (red) over time. (Bottom Left) Smaller boxes show the signal (gray) of each individual fluorescence measurement as labeled and mixed signal for iGFP (green) and tdTomato-Vpr (red).

S2 Movie. Time-lapse image of a centered, dual-labeled HIV wild-type particle challenging a Jurkat cell.

The mean intensity of the tracked particle is plotted (y axis) for iGFP (green) and tdTomato-Vpr (red) signals (Top Left). The first drop of GFP signal occurs with fusion and a second total drop occurs when the capsid integrity is lost (at ~45 minutes after fusion). The Right panel shows the signal for iGFP (green), tdTomato-Vpr (red), and bright field signal for cell reference (gray). Particle box shows the signal of GFP (green) and tdTomato-Vpr (red) over time. (Bottom Left) Smaller boxes show the signal (gray) of each individual fluorescence measurement as labeled and mixed signal for iGFP (green) and tdTomato-Vpr (red).

S3 Movie. Time-lapse image of a centered, dual-labeled HIV RGDA/Q112D+Q4R particle challenging a Jurkat cell.

The mean intensity of the tracked particle is plotted (y axis) for iGFP (green) and tdTomato-Vpr (red) signals (Top Left). The first drop of GFP signal occurs with fusion and a second total drop occurs when the capsid integrity is lost (at ~10 minutes after fusion). The Right panel shows the signal for iGFP (green), tdTomato-Vpr (red), and bright field signal for cell reference (gray). Particle box shows the signal of GFP (green) and tdTomato-Vpr (red) over time. (Bottom Left) Smaller boxes show the signal (gray) of each individual fluorescence measurement as labeled and mixed signal for iGFP (green) and tdTomato-Vpr (red).