Title: Supplementary Video 1

**Description:** Fluorescent time-lapse imaging of cells transfected with MS2CP-1xDmrA

and DmrC-VPg(FCV) (A/C heterodimerizer concentration: 500 nM).

Title: Supplementary Video 2

Description: Fluorescent time-lapse imaging of cells transfected with MS2CP-1xDmrA

and DmrC-VPg(FCV) (A/C heterodimerizer concentration: 0 nM).