

1 **SUPPLEMENTAL MATERIALS**

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3 **MOVIE LEGENDS**

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5 Movie 1: Intracellular Capsid Motility of AdV5 Wild Type.

6 A549 cells were infected with Alexa-labeled AdV5 wild type (WT) capsids at an MOI of 20 and imaged
7 at 16.5fps for 1 min at 34min p.i. AdV5 WT capsids move over long distances ($>1 \mu\text{m}$) in 82.7% of
8 examined cells. Movie is 6fold time-compressed, every 10th frame of the original movie is shown.
9 Movie corresponds to figure 6E.

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11 Movie 2: Intracellular Capsid Motility of AdV5 HVR1 Mutant.

12 A549 cells were infected with Alexa-labeled AdV5HVR48(1) capsids at an MOI of 20 and imaged at
13 16.5fps for 1 min at 25min p.i. AdV5HVR48(1) capsids move over long distances ($>1 \mu\text{m}$) in 27.1% of
14 examined cells. Movie is 6fold time-compressed, every 10th frame of the original movie is shown.
15 Movie corresponds to figure 6E.

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