Figure 1-Source Data 1

ORF1punctaTracking\_GEMspa\_NucCyto\_all\_data.csv

* Output data matrix from GEMspa with tracking data for all tracked ORF1 particle trajectories, with the following columns:
  + id: movie identification number
  + file name: movie file name
  + location: Cytoplasm or Nucleus, based on input image masks for nuclei
  + roi: If a mask image was used to identify separate cells, then the label of the region is listed here.
  + group: analysis group (Cytoplasm vs Nucleus)
  + D\_median: median Deff over all tracks in the file/ROI
  + D\_mean: mean Deff (as above)
  + D\_median\_filt: median Deff over all tracks where min <= Deff <= max from Run parameters; in this case, min=0.005 but the filtered data was not used for analysis
  + D\_mean\_filt: mean filtered Deff (as above)
  + Trajectory: trajectory identification number
  + int\_mean: mean intensity of the particle
  + int\_std: standard deviation of the particle intensity
  + D: Deff for the given track/trajectory
  + err: one standard deviation error on the estimated parameter (D)
  + r\_sq: r2 for the fit
  + rmse: root mean square error (residuals)
  + track\_len: the length of the given track/trajectory
  + D\_max\_tlag: max tlag considered for fitting the diffusion equation