

DESCRIPTION OF ADDITIONAL SUPPLEMENTARY FILES

File name: Supplementary Movie 1

Description: Formation and transport of $[\text{dT}]_{40}$ and $[\text{RGRGG}]_5$ condensates visualized using Cy5-labeled $[\text{dT}]_{40}$ in the presence and absence of the NaCl gradients. The condensates were observed under a 10 $\times$ objective. Top: $c_1 = c_2 = 20$ mM; middle: $c_1 = c_2 = 1$ mM; bottom: $c_1 = 20$ mM, $c_2 = 1$ mM.

File name: Supplementary Movie 2

Description: Phase separation, transport, and dissolution of $[\text{dT}]_{40}$ - $[\text{RGRGG}]_5$ condensates observed under a 40 $\times$ objective. Top: $c_1 = c_2 = 20$ mM; middle: $c_1 = c_2 = 1$ mM; bottom: $c_1 = 20$ mM, $c_2 = 1$ mM.