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Supplemental information

Molecular determinants and modifiers of Matrin-3 toxicity, condensate dynamics, and droplet morphology

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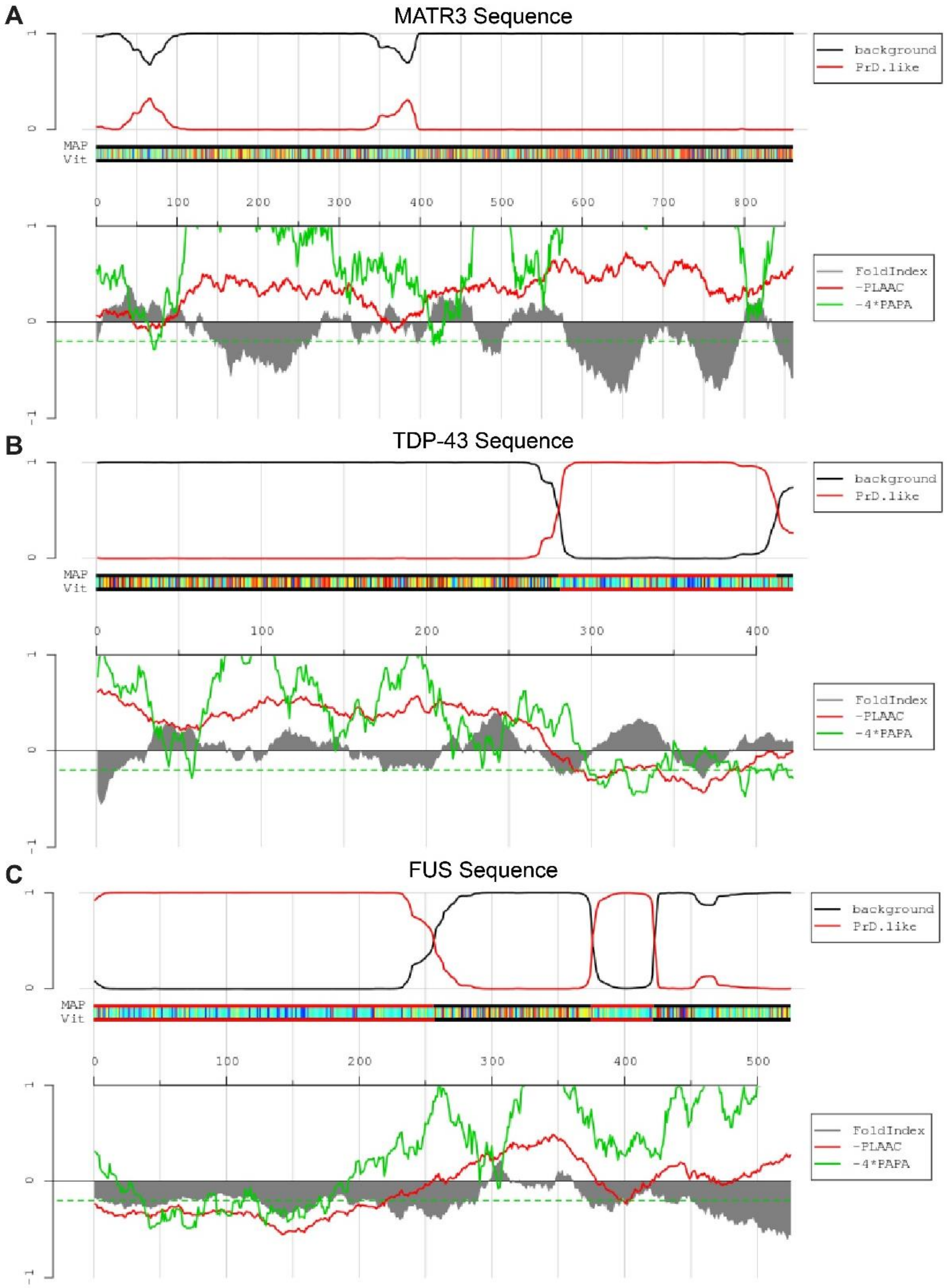
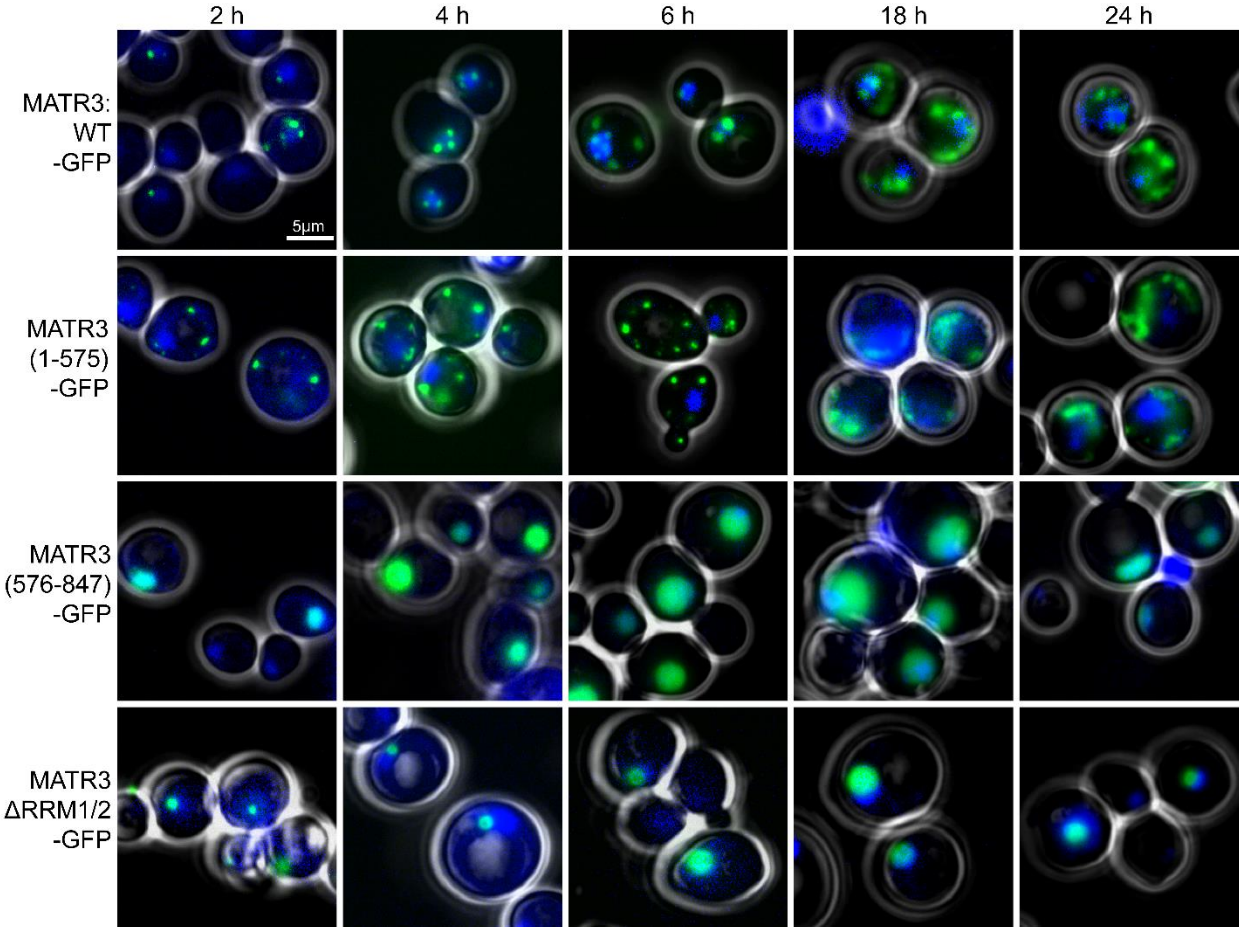


Supplemental Figure 1: PLAAC Scores of MATR3, TDP-43, and FUS, related to Figure 1. Computational analysis of (A) MATR3, (B) TDP-43, and (C) FUS protein sequences by the PLAAC algorithm. A PLAAC score of one indicates a region with prion-like amino acid composition. The C-terminal region of TDP-43 and the N-terminal region of FUS both have PLAAC scores of one, indicating prion-like domains. The PLAAC score of MATR3 never reaches a value of one, indicating that MATR3 does not have a region with amino acid composition similar to that of yeast prions.



Supplemental Figure 2: Foci formation of MATR3 variants at various induction times, related to Figure 5. The indicated strains from Figure 5 were induced and imaged at the indicated timepoints. Merge channel includes GFP (green), Hoechst (blue), and bright field (gray) images. Representative images are shown. Scale bar, 5μm.