

## **Description of Additional Supplementary Files**

File Name: Supplementary Movie 1

Description: cy5 RBFOXi+Dextran; 19.5 hours post transfection, with a gap between 12.5 to 15 hours due to lens focus escape

File Name: Supplementary Movie 2

Description: cy5 RBFOXi+Dextran\_2; 21.5 hours post transfection, with a gap between 10 to 12.5 hours due to lens focus escape

File Name: Supplementary Movie 3

Description: cy5 RBFOXi+Dextran\_3; 18 hours post transfection

File Name: Supplementary Data 1

Description: Quantification of Cy5-labeled FBFOXi decoy in cytoplasm and nucleus 24 hours post transfection

File Name: Supplementary Data 2

Description: Proteomic analysis of proteins bound by the biotin-RBFOXi decoy oligonucleotide

File Name: Supplementary Data 3

Description: RNA-seq analysis following transfection with FBFOXi decoy oligonucleotide and comparison to Damianov et al.

File Name: Supplementary Data 4

Description: Proteomic analysis of proteins bound by the biotin-PTBP1i decoy oligonucleotide

File Name: Supplementary Data 5

Description: Proteomic analysis of proteins bound by the biotin-SF2i2 decoy oligonucleotide