

Title: Supplementary Data 1:

Description: SILAC AP-MS data derived from four independent biological replicates of a FLAG-based FST-NOT1 purification from parental or FST-NOT expressing HeLa cells (related to Figure 1).

Title: Supplementary Data 2:

Description: Transcriptome-wide mRNA half-lives measured in RNF219 KO HeLa cells or RNF219 KO cells stably expressing 3xFS-RNF219-WT or 3xFS-RNF219-RINGmut (related to Figure 7).

Title: Supplementary Data 3:

Description: Half-lives of IEGs, YTHDF2-, TTP- or Roquin-bound mRNAs measured in RNF219 KO HeLa cells or RNF219 KO cells stably expressing 3xFS-RNF219-WT or 3xFS-RNF219-RINGmut (related to Figure 7).

Title: Supplementary Data 4:

Description: Sequences of DNA and RNA oligonucleotides used in this study.