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**Description of Additional Supplementary Files**

- File Name: Supplementary Data 1
- Description: Complete analysis relative 3' isoform usage of signature APA genes across all cell types in the Fly Cell Atlas.
- File Name: Supplementary Data 2
- Description: Numbers of cells used for each of the Fly Cell Atlas cell type assignments.
- File Name: Supplementary Data 3
- Description: Genes expressing distinctive TUTR-APA or ALE-APA isoforms in neurons.
- File Name: Supplementary Data 4
- Description: Genes undergoing TUTR-APA or ALE-APA shifts in the male germline lineage.
- File Name: Supplementary Data 5
- Description: Genes undergoing TUTR-APA or ALE-APA shifts in the intestinal stem cell lineage.
- File Name: Supplementary Data 6
- Description: List of RNA binding proteins (RBPs) assessed in this study.
- File Name: Supplementary Data 7
- Description: RBPs with differential cell-specific expression within cell types of the FCA body, gut and testis datasets.
- File Name: Supplementary Data 8
- Description: RBPs with differential cell-specific expression between male germline stem cells and spermatocytes.
- File Name: Supplementary Data 9
- Description: Relative numbers of miRNA binding sites discovered from 3' UTRs of spermatogenesis shortening genes.
- File Name: Supplementary Data 10
- Description: Relative numbers of RBP binding sites discovered from 3' UTRs of spermatogenesis shortening genes.