

## **Description of Additional Supplementary Files**

**File Name:** Supplementary Data 1

**Description:** Normalized Counts for GFP+ Samples

**File Name:** Supplementary Data 2

**Description:** Differential Gene Expression Analysis between Central and Peripheral Axons

**File Name:** Supplementary Data 3

**Description:** Enriched GO terms: Shared Between Central and Peripheral Axons

**File Name:** Supplementary Data 4

**Description:** Differential Gene Expression Analysis between Central Axons and DRG Soma

**File Name:** Supplementary Data 5

**Description:** Differential Gene Expression Analysis between Peripheral Axons and DRG soma

**File Name:** Supplementary Data 6

**Description:** Enriched GO terms: Central Axons (CA vs. PA)

**File Name:** Supplementary Data 7

**Description:** Enriched GO terms: Peripheral Axons (PA vs. CA)

**File Name:** Supplementary Data 8

**Description:** Differential Gene Expression Analysis between Pain-seq and TRAP-seq

**File Name:** Supplementary Data 9

**Description:** Background Filtered Gene Lists (Higher Confidence)

**File Name:** Supplementary Data 10

**Description:** Validated Locally Translated mRNAs in Central and Peripheral Axons

**File Name:** Supplementary Data 11

**Description:** Normalized Counts for all RIP Samples

**File Name:** Supplementary Data 12

**Description:** Differentially Expressed Genes in SFPQ-IP samples

**File Name:** Supplementary Data 13

**Description:** Differentially Expressed Genes in SRSF-IP samples

**File Name:** Supplementary Data 14

**Description:** Enriched GO terms: SFPQ IP

**File Name:** Supplementary Data 15

**Description:** Enriched GO terms: SRSF IP