Supplemental Materials

*Molecular Biology of the Cell*

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Supplemental Table 1: Candidate TRIM9 and TRIM67 interaction partners. All candidate TRIM9 (sheet 1) and TRIM67 (sheet 2) interaction partners listed in order of their FDR (lowest to highest).

Supplemental Table 2: Peptide counts and label free quantitation intensities for all identified proteins.

Supplemental Figures and Legends

Supplemental Figure 1: Myo16 interacts specifically with TRIM9 and TRIM67. Sequence analysis and alignment of FN3 domains of human Class I TRIM proteins.
Supplement Figure 2: Knockdown of Myo16 inhibits netrin-dependent axonal branching.

(A) Myo16 knockdown does not alter neuronal staging (stage 2 vs. stage 3) in in-vitro cultures of embryonic cortical neurons. (B) Quantification of axon length from cortical neurons at 3 DIV in wildtype (Trim9+/−:Trim67+/−), Trim9−/−:Trim67+/− with or without 24 hrs of netrin treatment shown as violin plots with individual data points from 3 biological replicates. n (cells) = 103 Trim9+/− C siRNA, 92 Trim9+/− C siRNA + netrin, 88 Trim9+/− Myo16 siRNA, 105 Trim9+/− Myo16 siRNA + netrin, 85 Trim9−/− C siRNA, 74 Trim9−/− C siRNA + netrin, 88 Trim9−/− Myo16 siRNA, 63 Trim9−/− Myo16 siRNA + netrin. Nonparametric analysis of variance (ANOVA) with Tukey’s post-hoc correction was performed. **, P < 0.01; ***, P < 0.005).