



**Figure 3 – figure supplement 2.** A) Plots of myogenic regulatory factor and rapsyn expression in *Pax7+S100b+* cells and *Pax7+S100b-* cells in cells enriched from young versus aged animals. Cells were filtered into groups based on raw expression greater than 0. (*Myog* and *Pax7* were not co-expressed among scRNA-Seq libraries). Not enough *Pax7+S100b+* cells were captured by scRNA-Seq to include in the violin plots. \*\*\*\* $p < 0.0001$  by Wilcox Sum Rank Test with Bonferroni correction for multiple testing. B) Representative IF images of Pax7 and S100 $\beta$  expression in MuSCs sorted from young and aged muscles. Scale bar indicates 200 $\mu$ m. Arrows point to Pax7+S100 $\beta$ + cells. Quantifications of Pax7 and S100 $\beta$  expression are included in Figure 3C. C) Split violin plots comparing gene expression across *Pax7+* and *Pax7-* cells in the NMJ cluster based on whether raw counts were greater than 0 (*Pax7+*) or equal to zero (*Pax7-*). \*\*\*\* $p < 0.0001$  by Wilcoxon Sum Rank test with Bonferroni correction for multiple comparison. Ns denotes not significant. D) Correlation between RNA levels as measured by smFISH and RNAseq. R, correlation coefficient.