

the anatomical locations of thoracic muscles (triangularis sterni [TS]) in a mouse in supine position. **(C)** Schematic diagram of the anatomical locations of abdominal muscles (external oblique [EO] and rectus abdominis [RA]) in a mouse in supine position. **(D-F)** Bar charts showing the quantification of percentage of full, partial and vacant endplates in SMN Δ 7 mice compared to controls in cranial muscles (AAL and AS), thoracic muscles (TS), and abdominal muscles (EO and RA) respectively. Note that all cranial muscles show a significant increase in vacant motor endplates and a significant decrease in fully occupied endplates, whereas none of the thoracic or abdominal muscles show a significant increase in vacant endplates. Two-sided ANOVA with Sidak correction (ns= no significance, * $p \leq 0.05$, ** $p \leq 0.01$, *** $p \leq 0.001$ and **** $p \leq 0.0001$). $n=3$ for controls and SMN Δ 7 mice respectively. Error bars represent mean $\pm$ SEM.