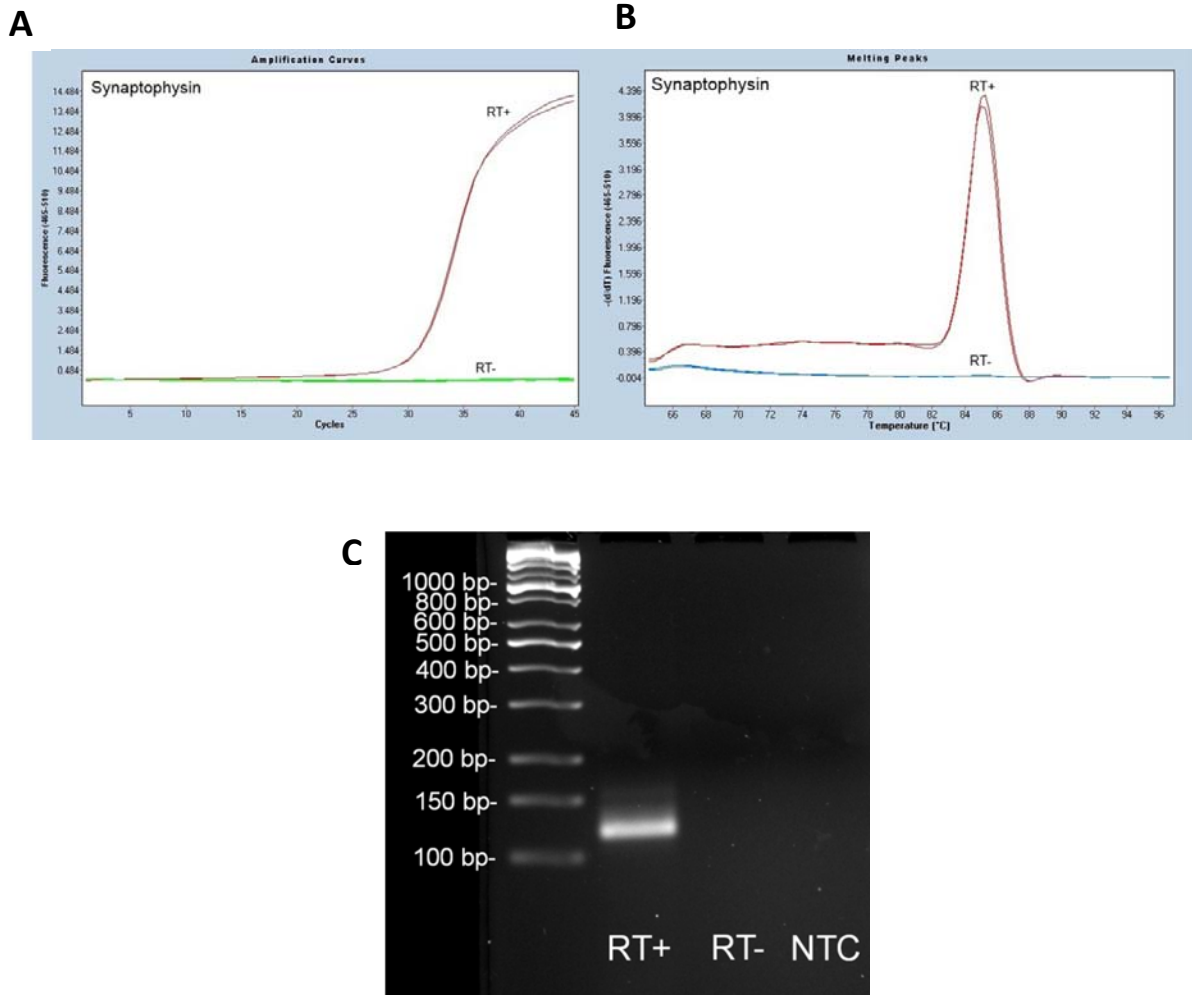


Supplemental Figure 1: Real time RT-PCR analysis of *Agrin* and *Z+ Agrin* expression in rat soleus muscle. A-D: Amplification plots and matching melting peaks for a pooled rat soleus muscle cDNA sample (RT+), the same RNA sample subjected to reverse transcription in the absence of reverse transcriptase enzyme (RT-), and a non-template control nuclear free water sample (NTC). E: Agarose gel (4%) electrophoresis of amplified product from the real time PCR reactions shown in A-D showing amplicon at expected size of 102 bp for *Agrin* (all variants) and 149 bp for nerve derived *Z+ Agrin* (Z8 and Z19 splice variants). Primers used for *Agrin* Forward: TTCTCAGCAACTACAAACCTG, Reverse: TTACACACAGCACCAAAGC. Primers used for *Z+ Agrin* Forward: TGTCCTGGGGGCTTCTCTGG and Reverse CTGGGATCTCATTGGTCAGCTC. **Sequence of *Agrin* F1/*Agrin* R3 amplicon (102 bp band) as determined by gel extraction/purification and sequencing:** TCAGCAACTACAAACCTGGAATCCACTTCACACCAGCGCTCCTACGCCTCTGATGTATGCAGGGGAATGTTATGTGGCTTTGGTGCTGTGTGTGAA. **Sequence of *Agrin* 30F/*Agrin* 32R amplicon (149 bp band) as determined by gel extraction/purification and sequencing:** GGGGCTTCTCTGGGCTGCACTGCGAAAAGGGGCTAGTTGAGAGTCAGTGGGGGACCTASAAACTGGCCTTTGATGGGCSGAC.CTACATCR AATACCTCAATGCTGTGATTGAGAGCGAGCTGACCAATGAGATCCCAG



Supplemental Figure 2: Real time RT-PCR analysis of synaptophysin expression in rat soleus muscle. A: Amplification plots for a pooled rat soleus muscle cDNA sample (RT+), the same RNA sample subjected to reverse transcription in the absence of reverse transcriptase enzyme (RT-), and a non-template control (nuclear free water) sample (NTC). B: Matching real time RT-PCR melting peaks for pooled rat soleus muscle cDNA sample (RT+), the same RNA sample subjected to reverse transcription in the absence of reverse transcriptase enzyme (RT-), and a non-template control nuclear free water sample (NTC). C: Agarose gel (4%) electrophoresis of amplified product from the real time PCR reactions shown in A & B showing amplicon at expected size of 121 bp. Primers used *Forward*: TTTGCTACGTGTGGCAGCTA, *Reverse*: ACACTTGGTGCAGCCTGAAG. **Sequence of 121 bp band as determined by gel extraction/purification and sequencing:** TTTTGCTACGTGTGGCAGCTACACCGGGGAGCTTCGGCTGAGCGTGGAGTGTGCCAACAAAGACGGAGAGTGCCCTCAACATCGAAGTTGAATTCGAGTACCCCTTCAGGCTGCACCACT