

Figure 1A

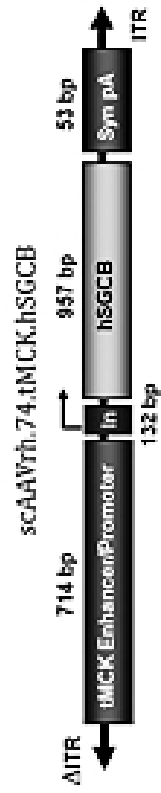


Figure 1B

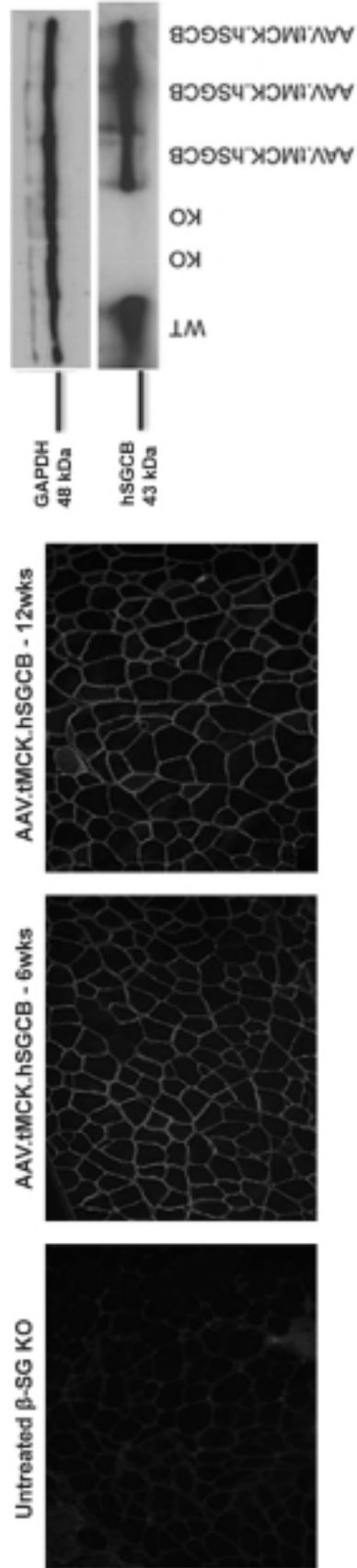


Figure 1C

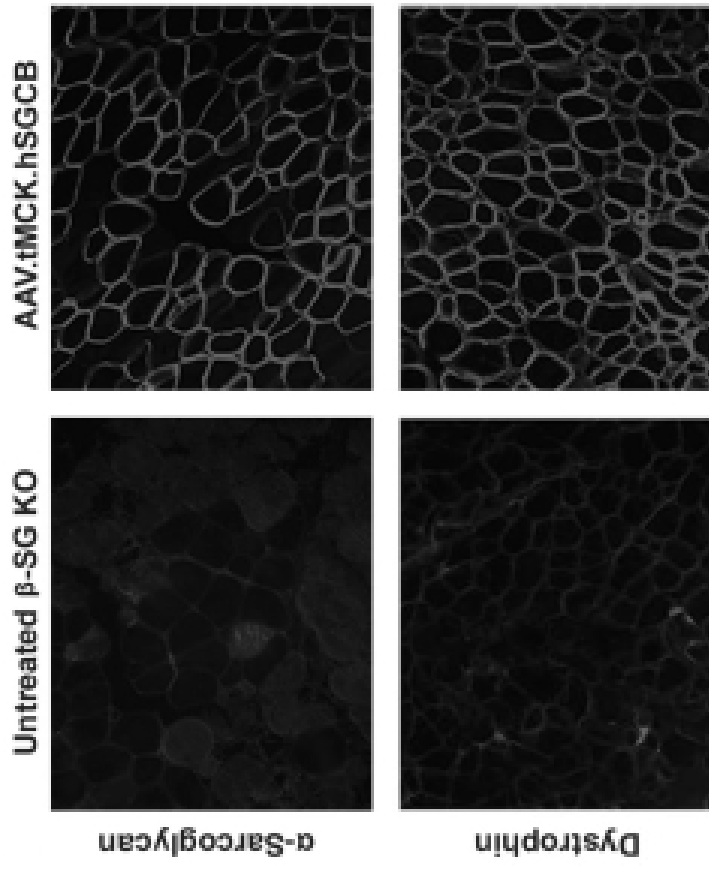


Figure 1D

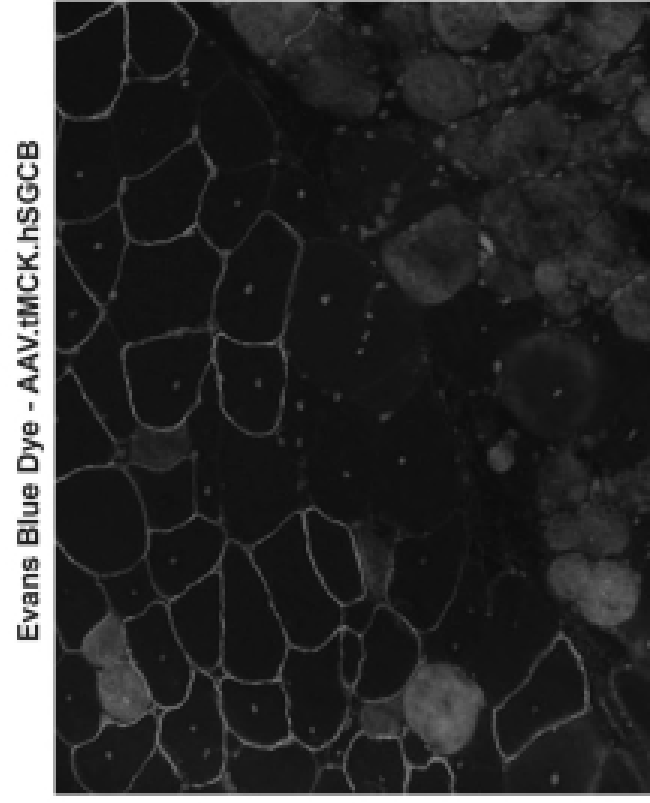
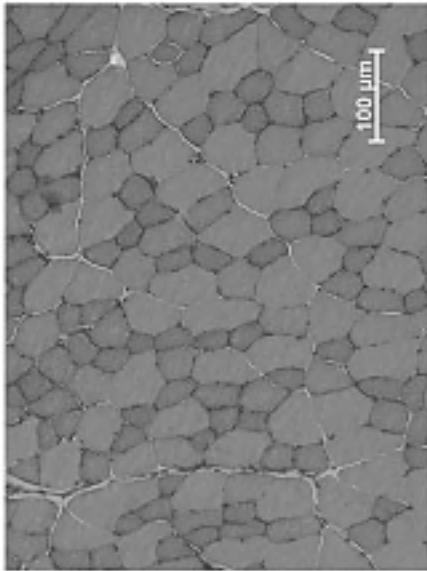
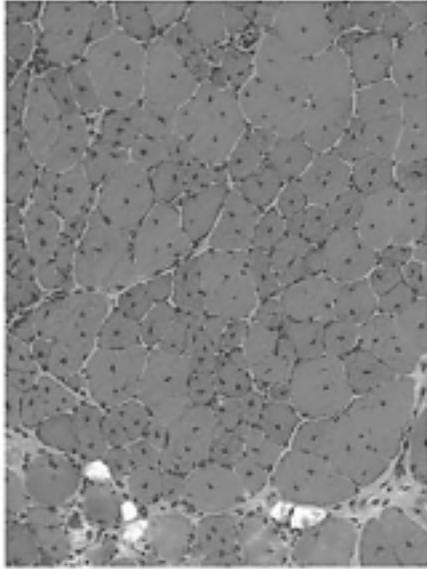


Figure 2A

C57BL/6 WT

Untreated β -SG KO

AAV1MCK.hSGCB

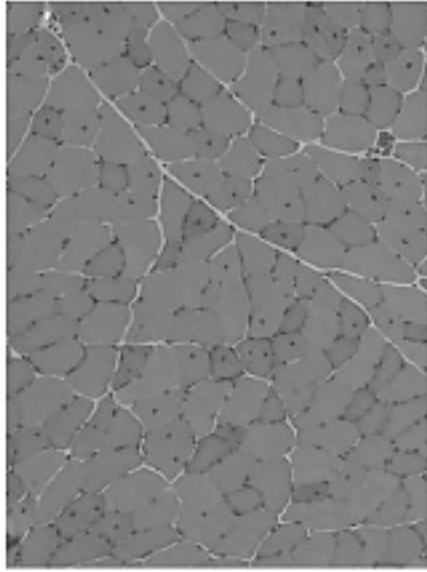
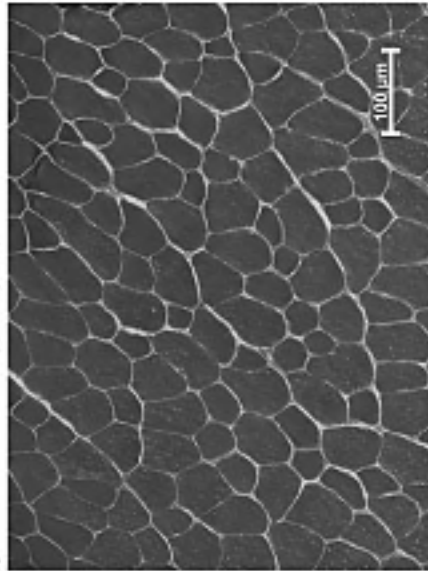
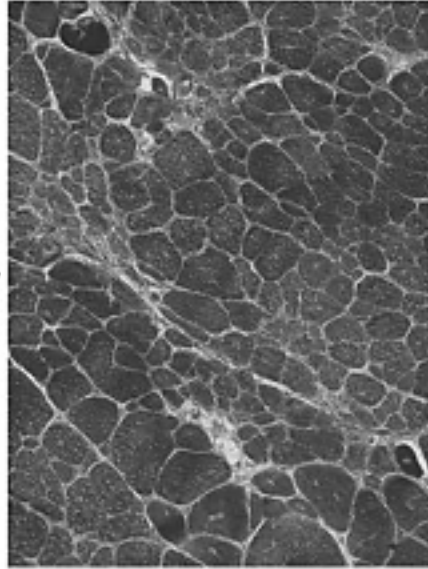


Figure 2B

C57BL/6 WT

Untreated β -SG KO

AAV1MCK.hSGCB

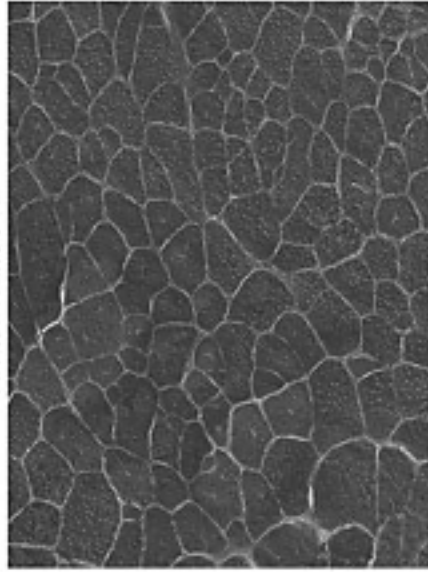


Figure 2C

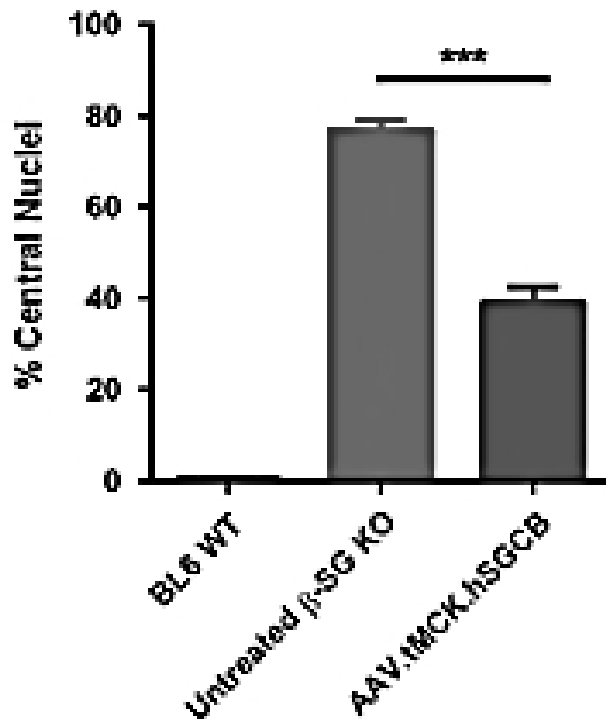


Figure 2D

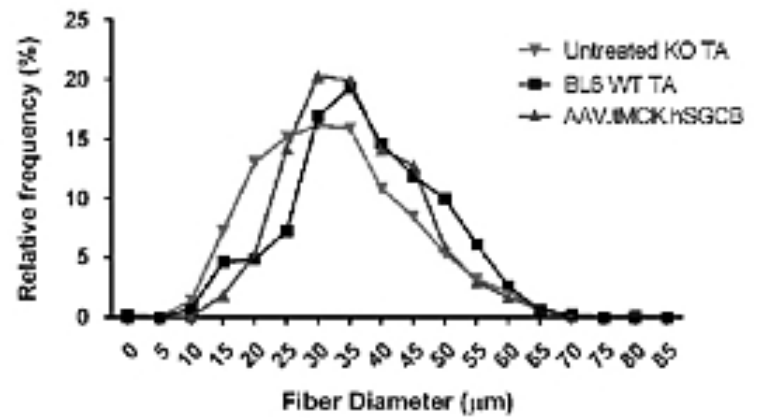


Figure 2E

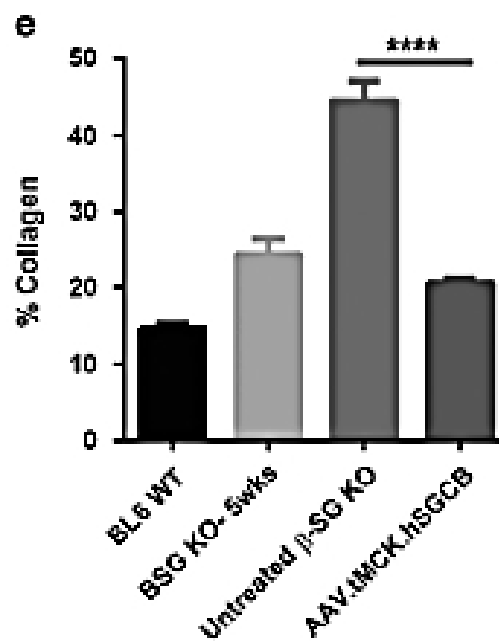


Figure 3A

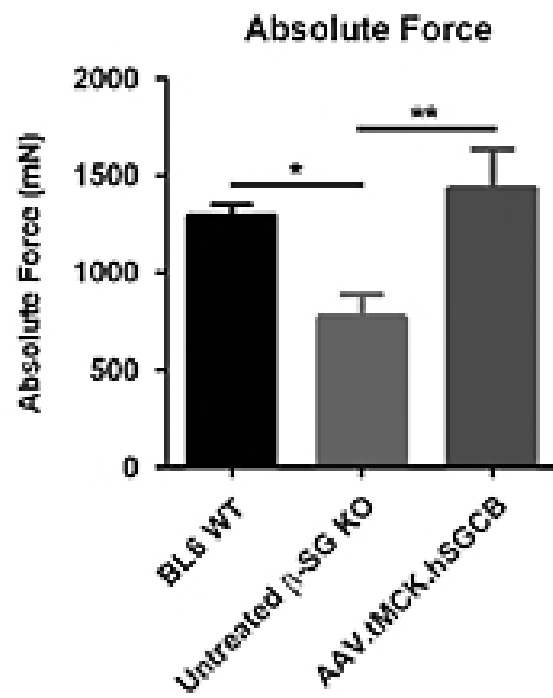


Figure 3B

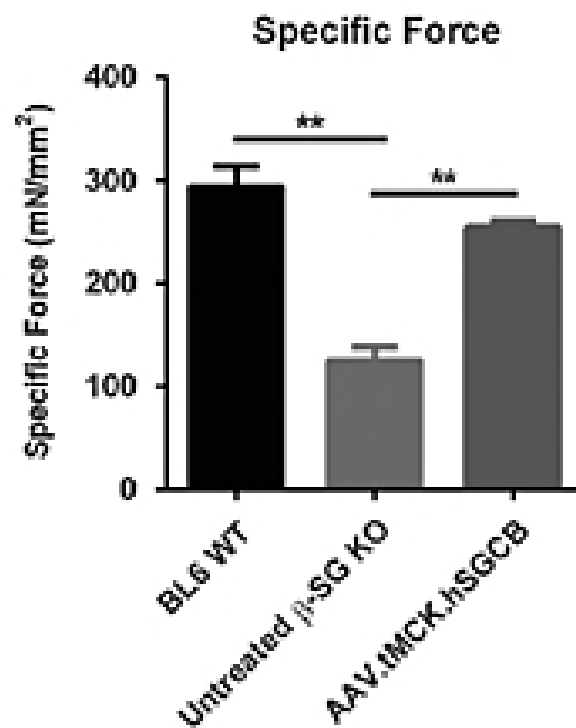


Figure 3C

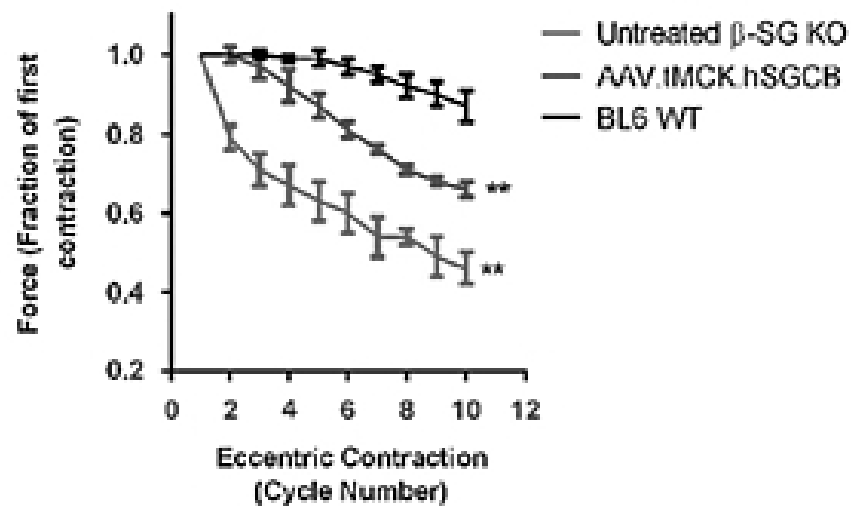
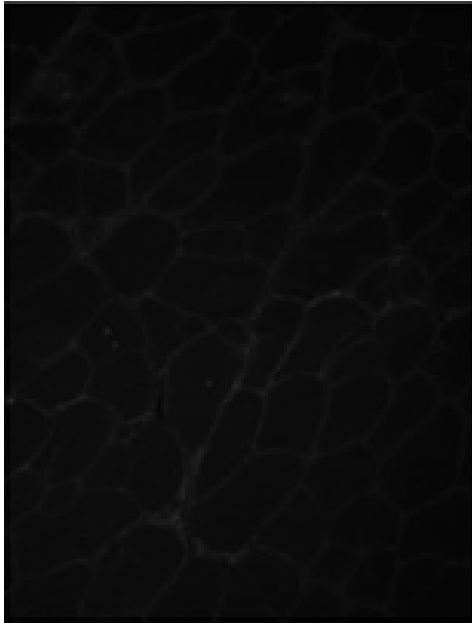
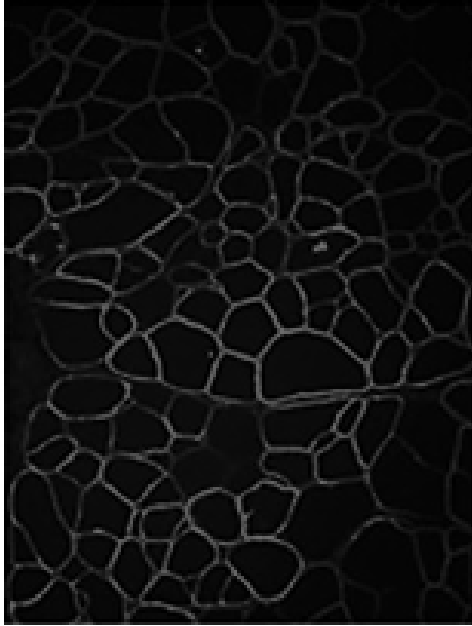
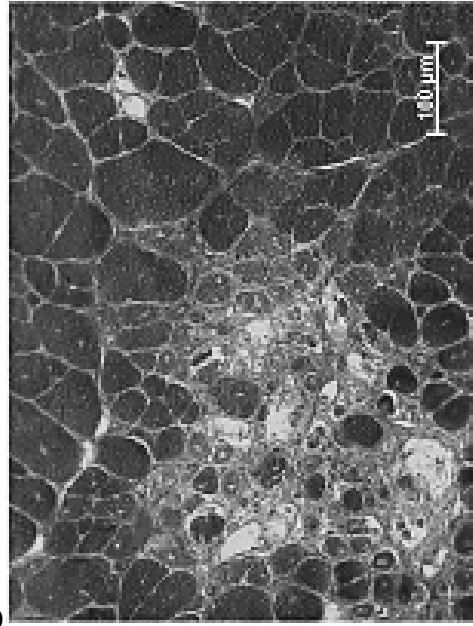


Figure 4A Untreated β -SG KO

AAV.IMCK.hSGCB

Figure 4B Untreated β -SG KO

AAV.IMCK.hSGCB

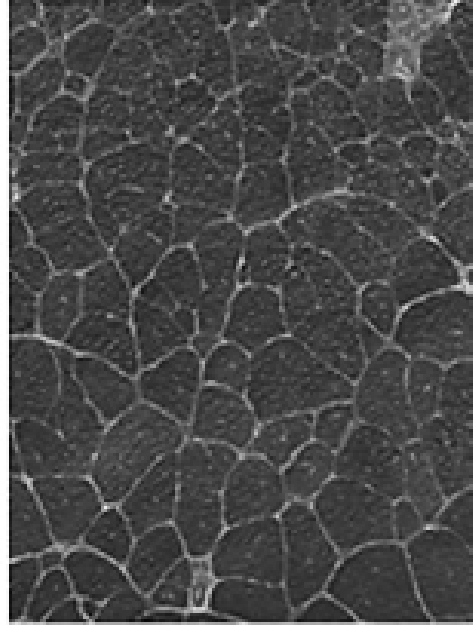


Figure 4C

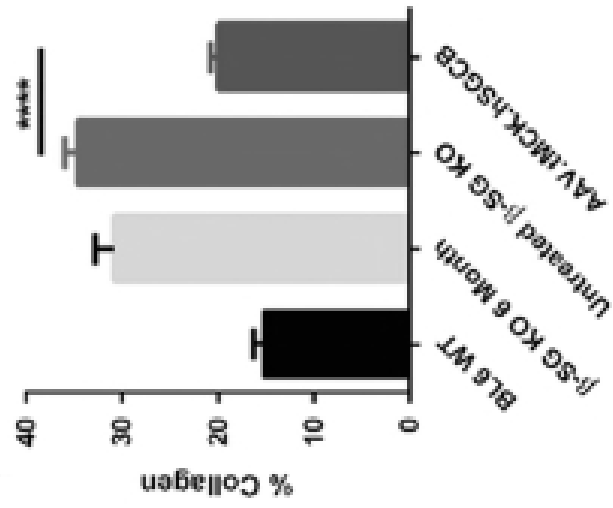


Figure 5A

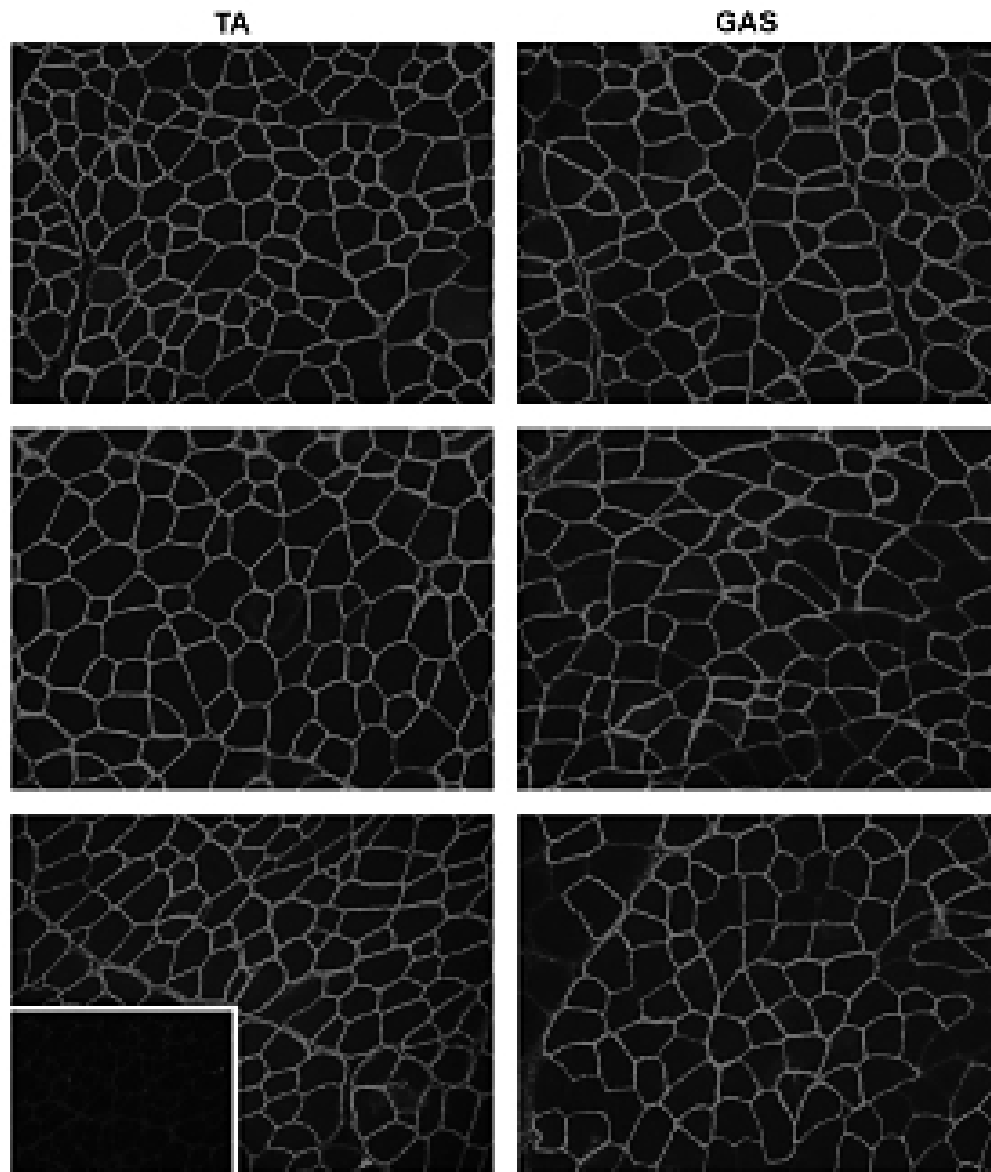
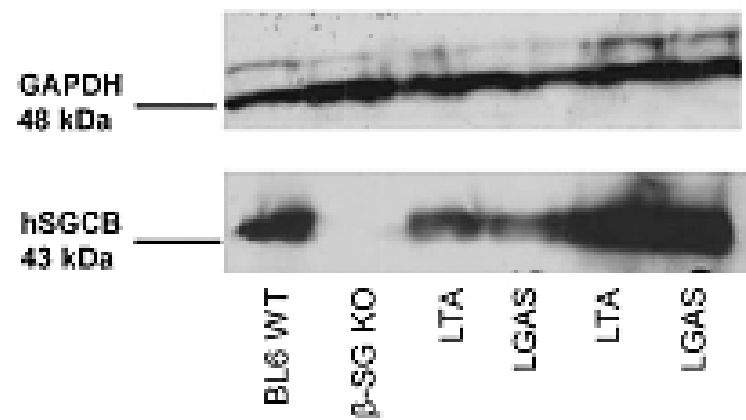


Figure 5B

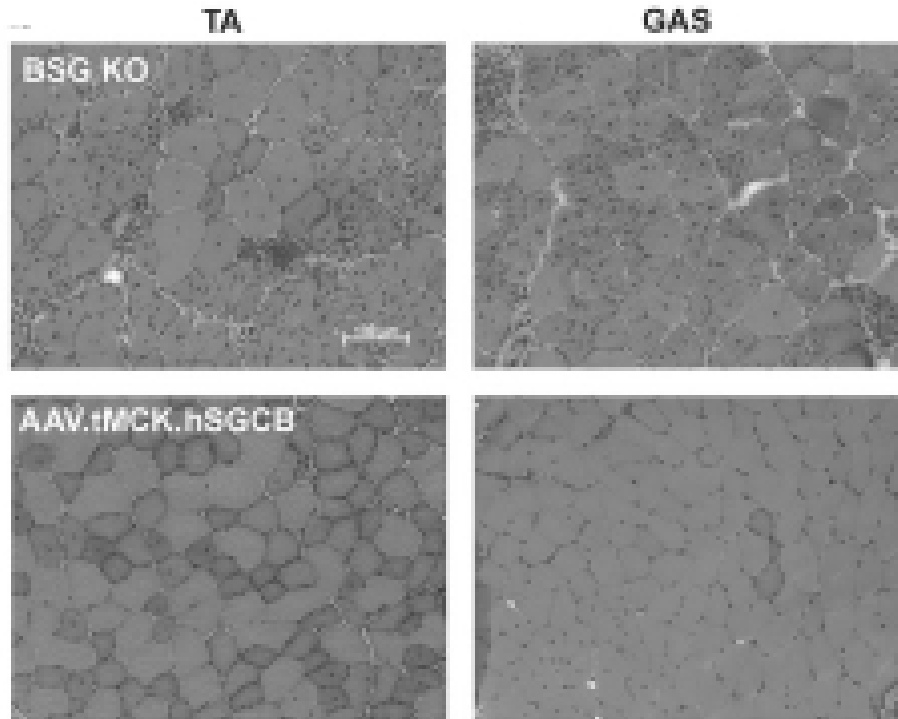


Figure 5C

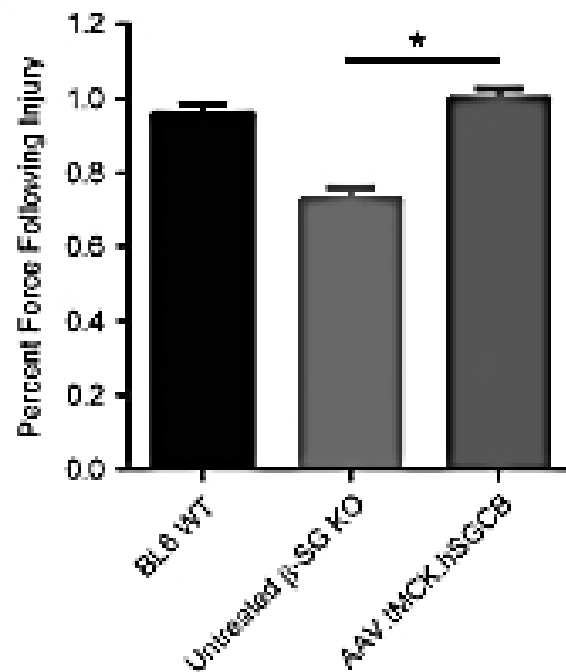


Figure 6A

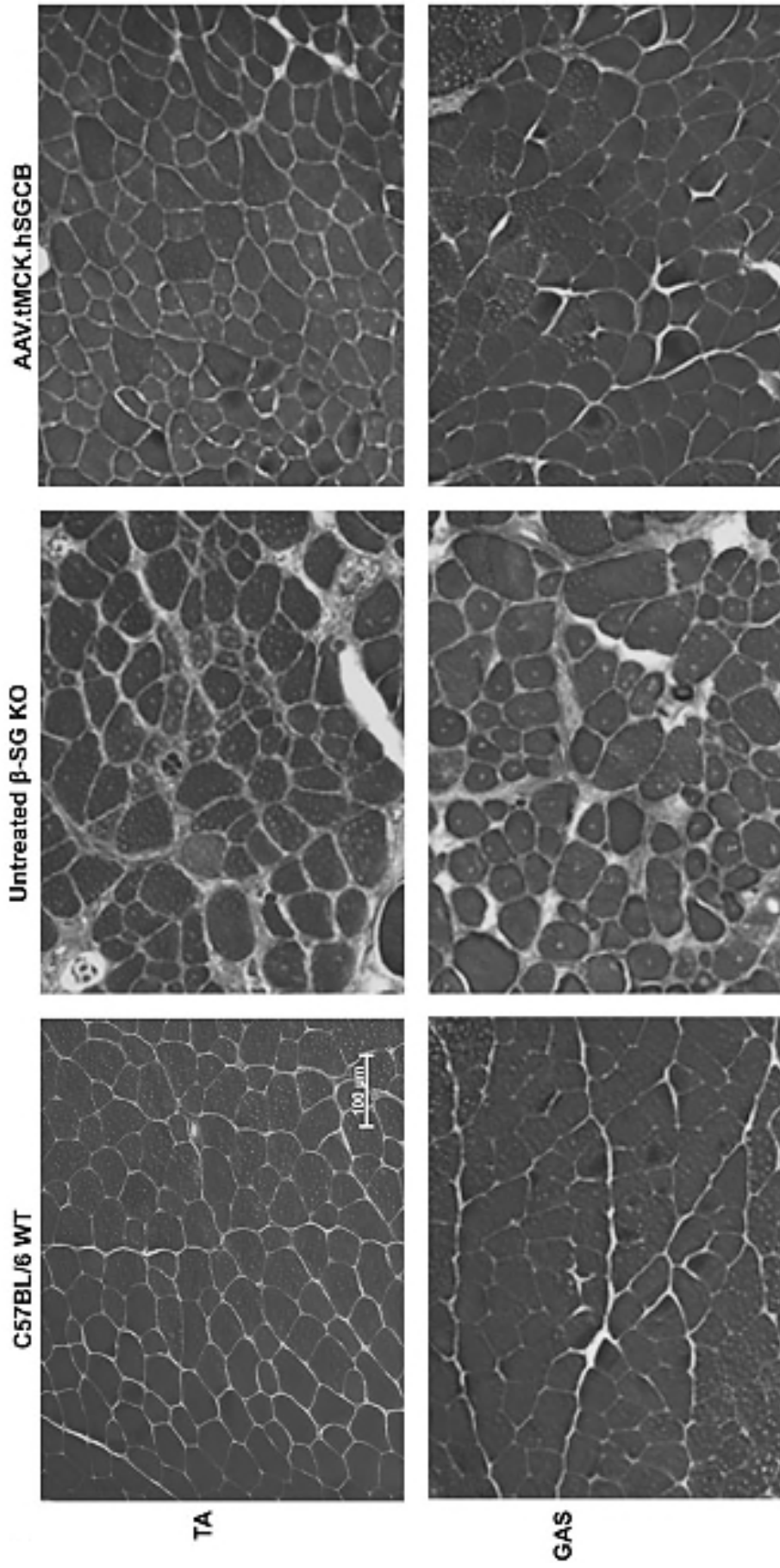


Figure 6B

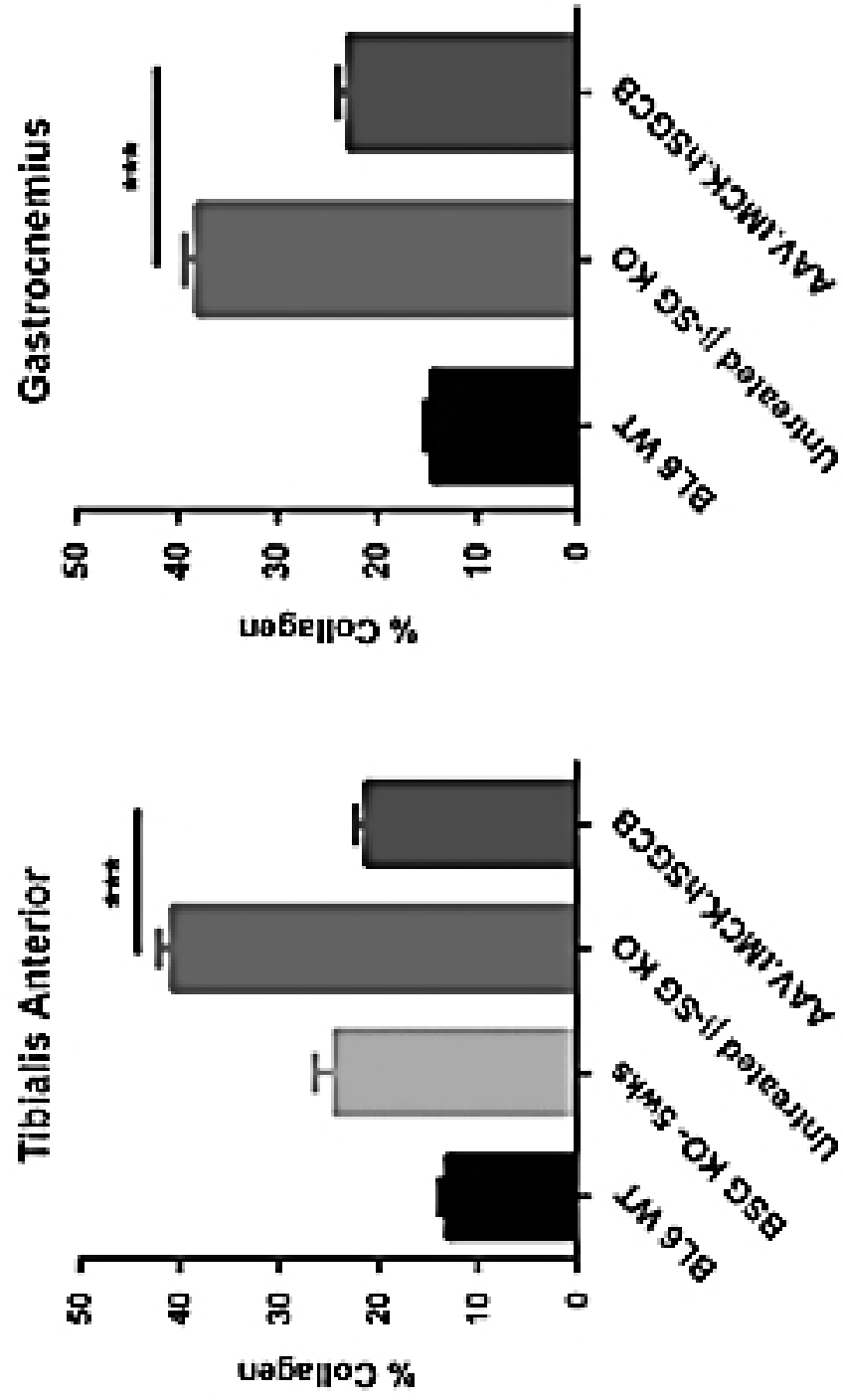


Figure 7B

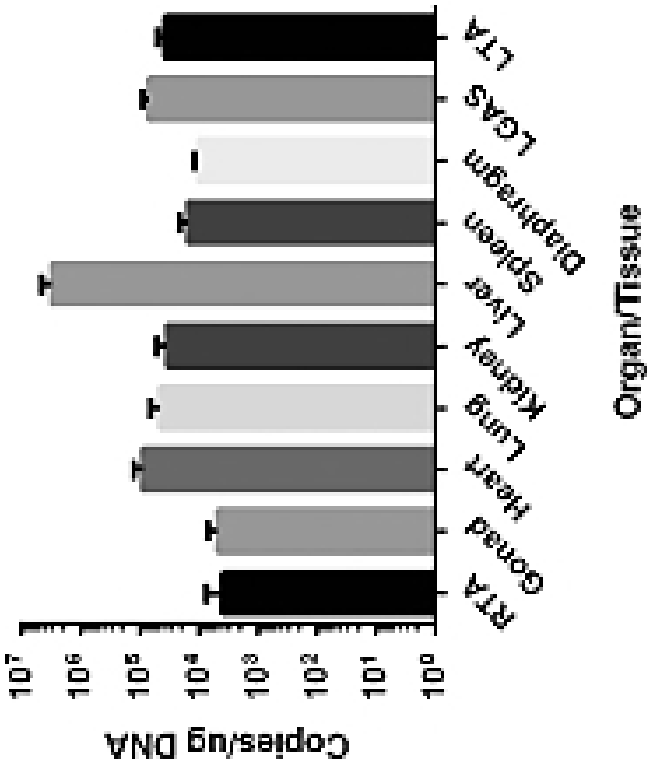


Figure 7A



Figure 8A

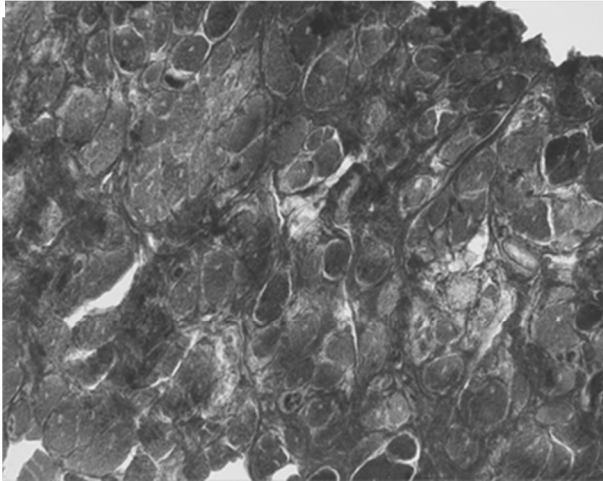


Figure 8C

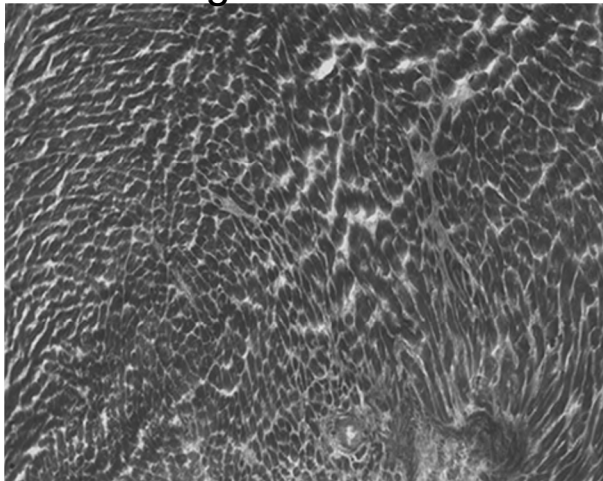


Figure 8B

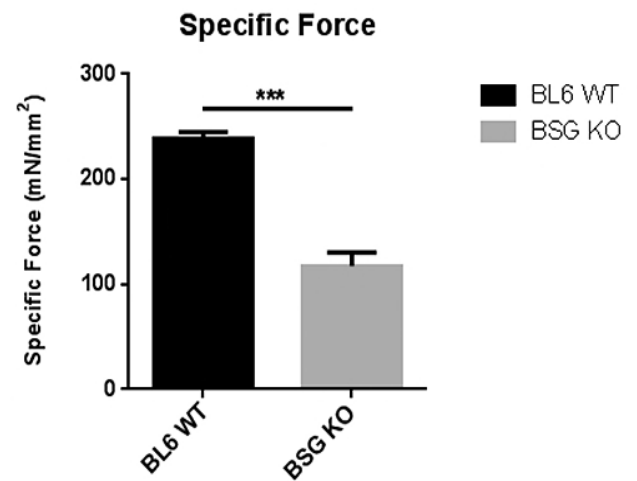


Figure 8D

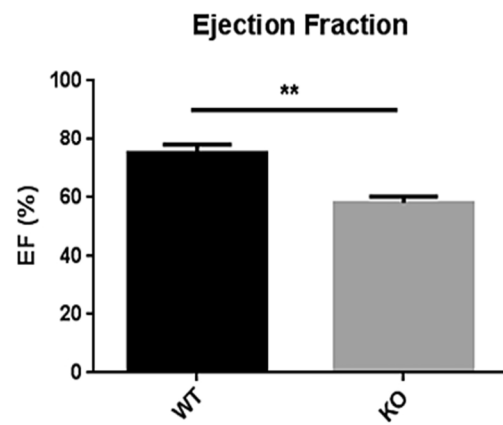
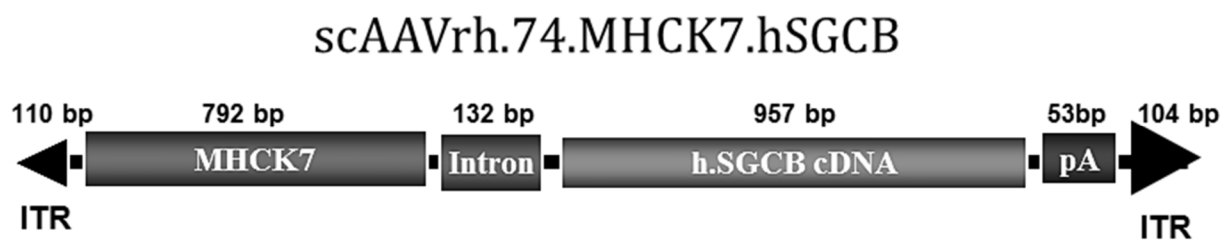


Figure 9



scAAV.MHCK7.hSGCB cassette

Figure 10

Delivery of scAAVrh.74.MHCK7.hSGCB via the tail vein of SGC^B-/- mice results in nearly 100% transduction of muscle fibers in every muscle

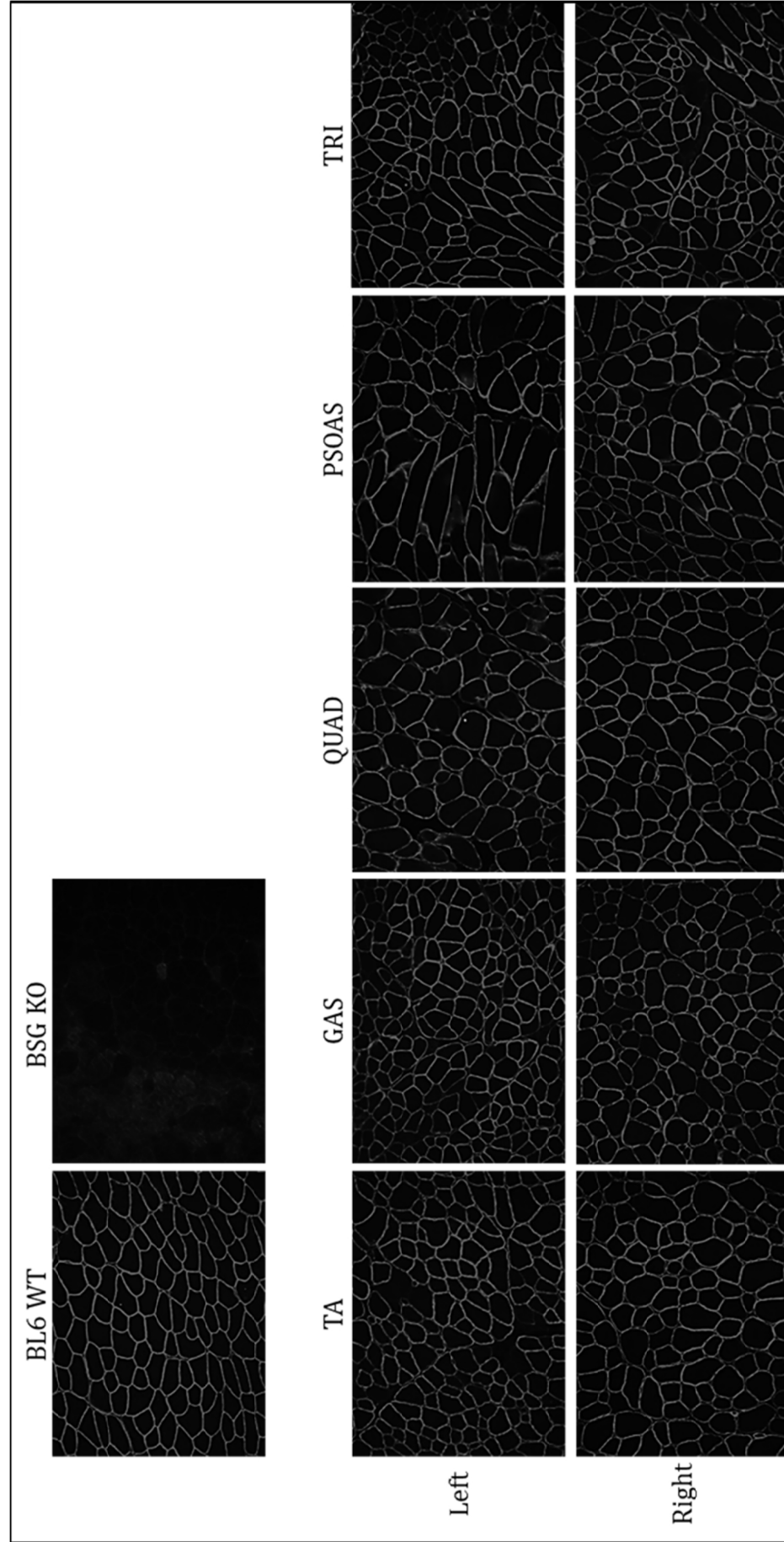


Figure 11

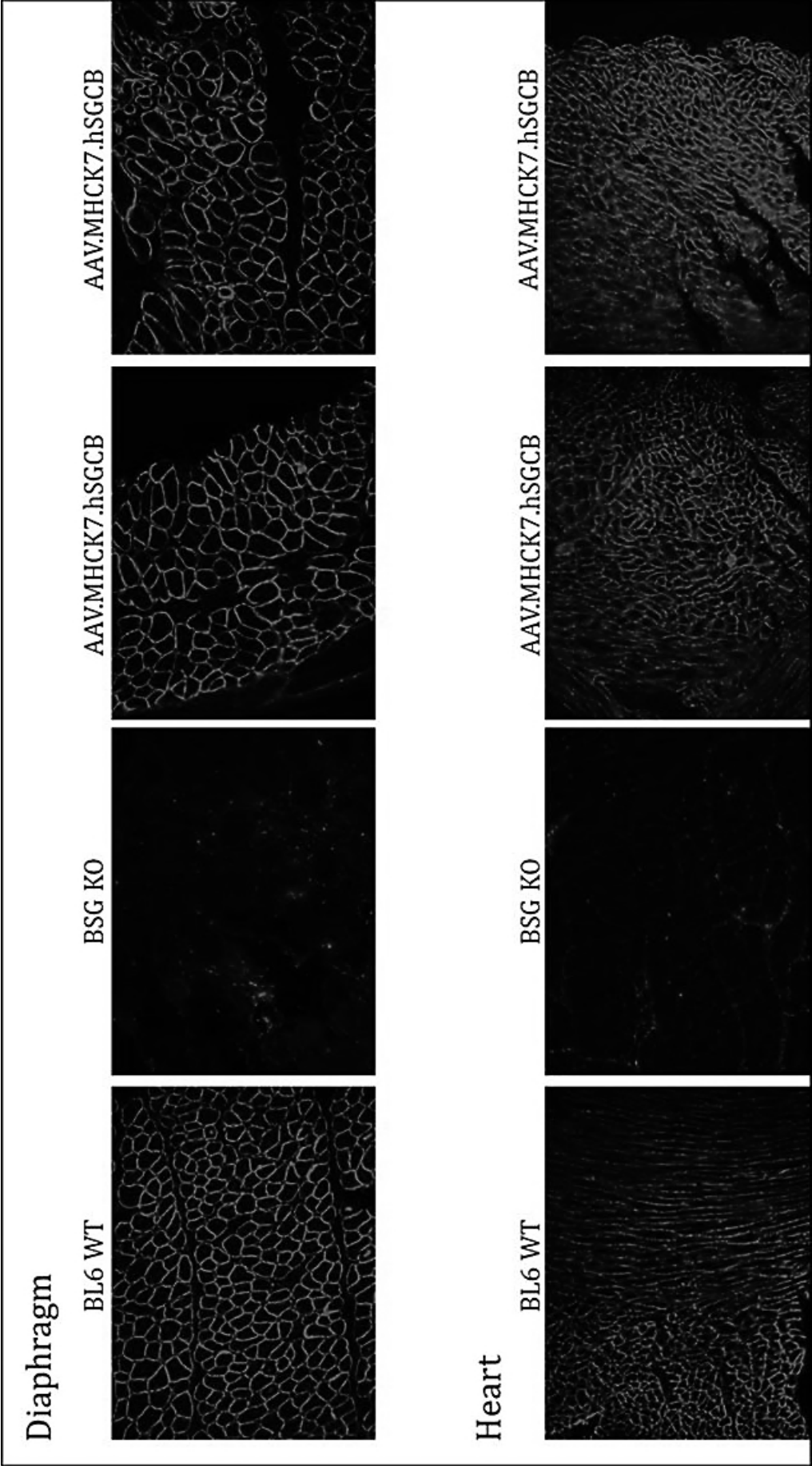


Figure 12A

sCAAVrh.74.MHCK7.hSGCB



Figure 12C

hSGCB Expression in Muscle

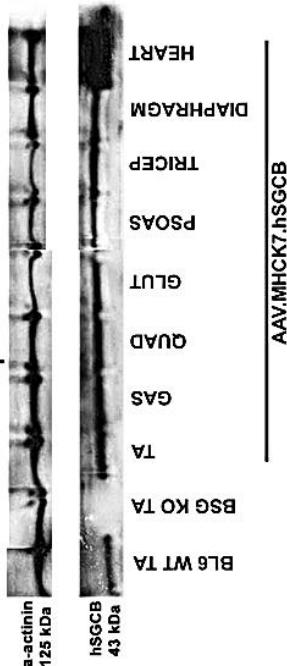
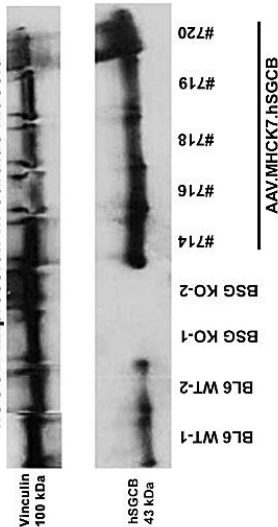


Figure 12D

hSGCB Expression in Cardiac Muscle



Cardiac SGCB Protein Expression

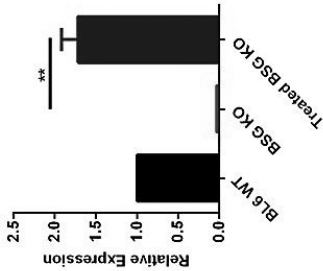


Figure 12B

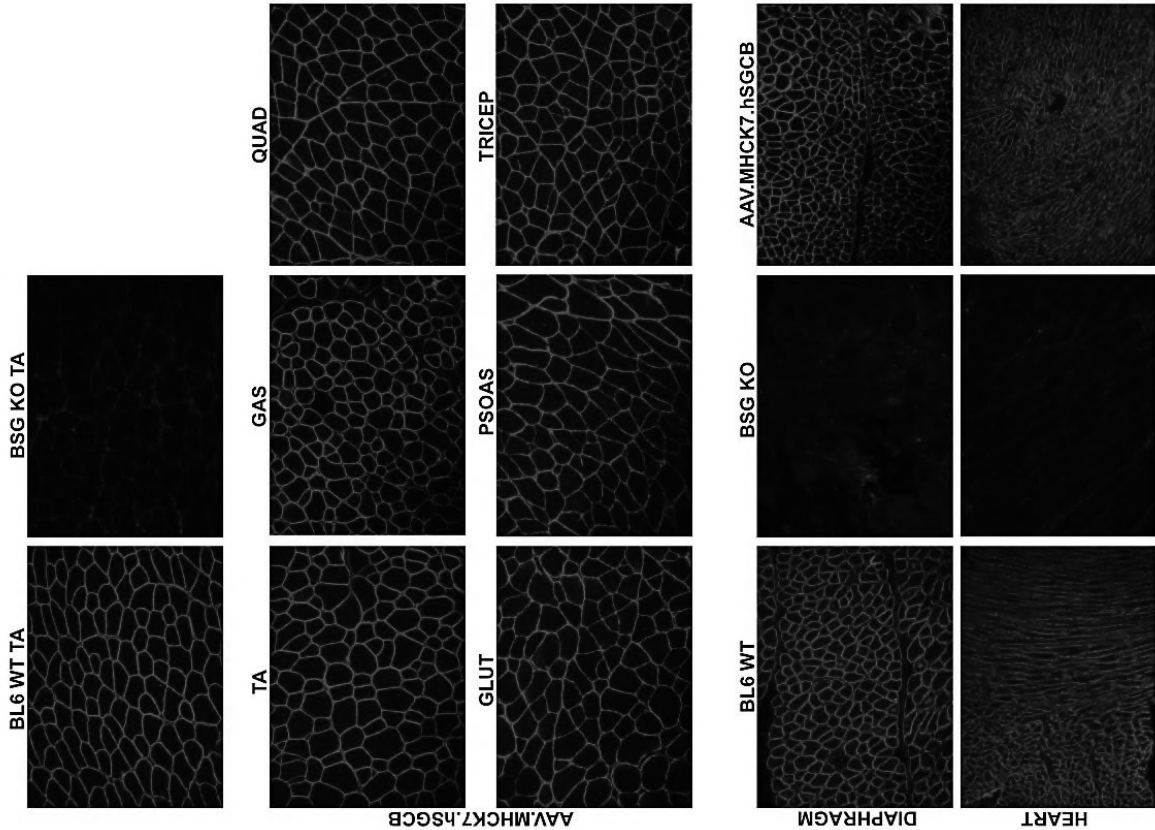


Figure 13A

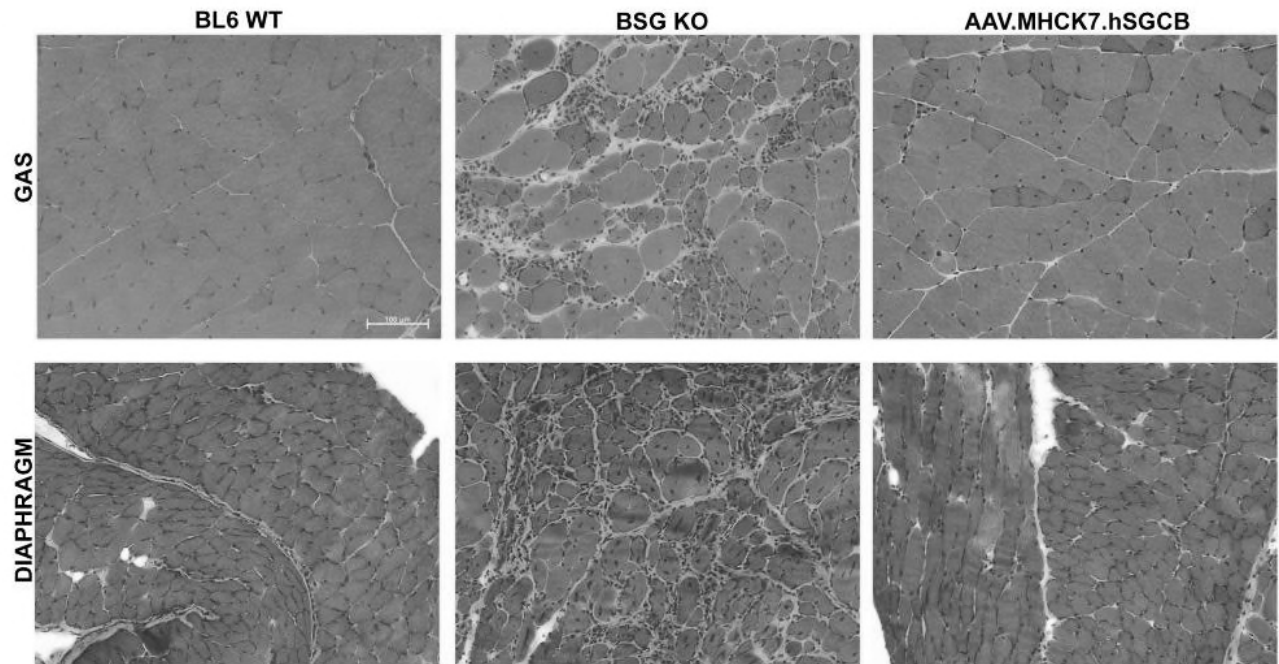


Figure 13B

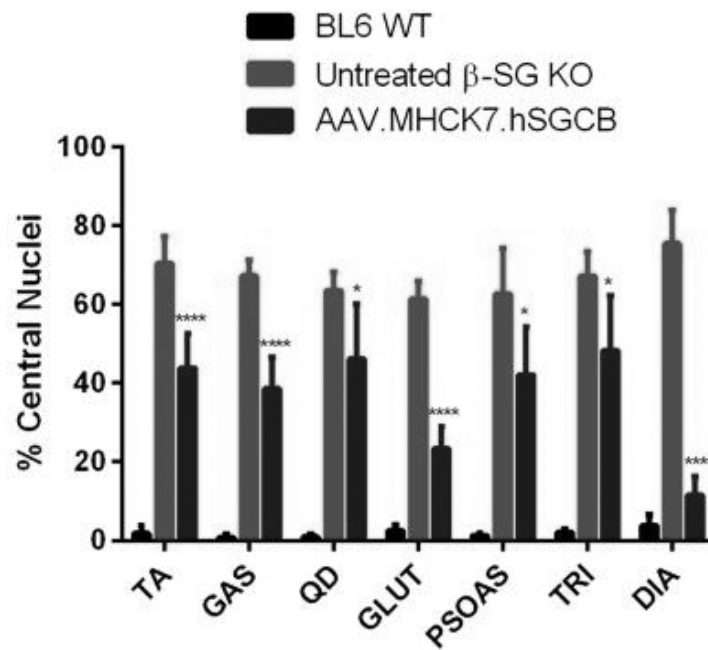


Figure 13C

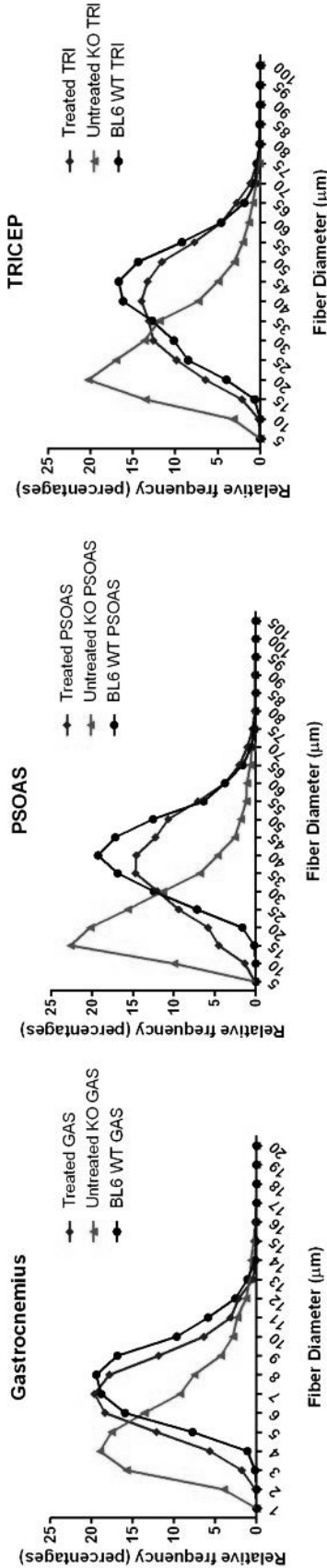


Figure 13D

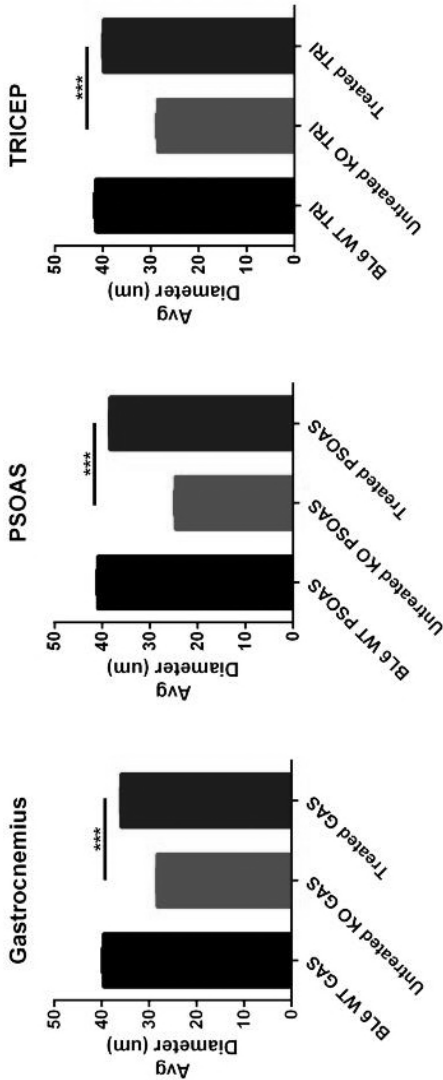


Figure 14A

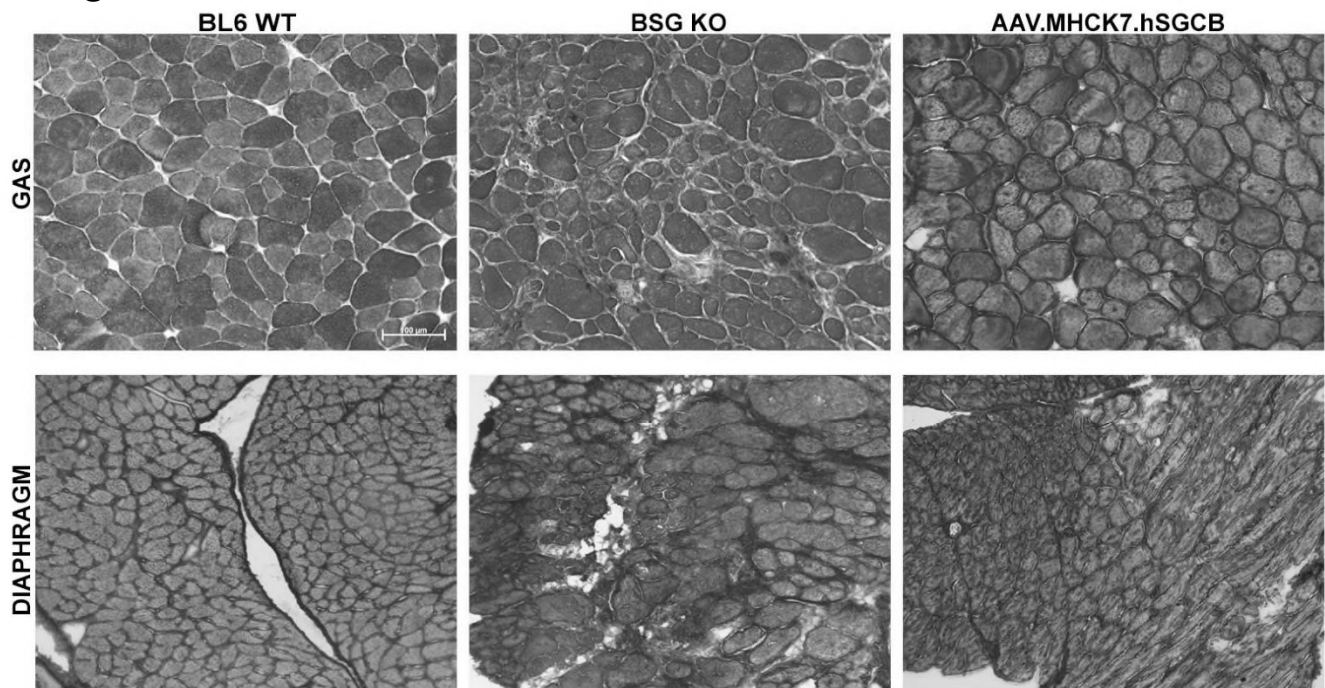


Figure 14B

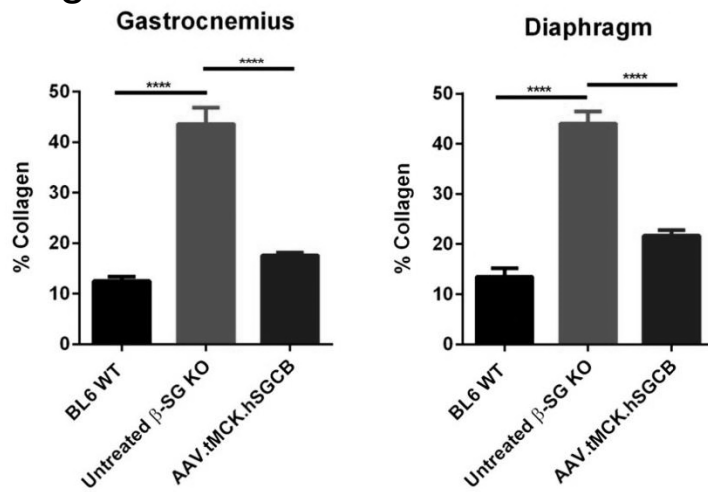


Figure 15

MHCK7.hSGCB 6 month IV 1e12vg

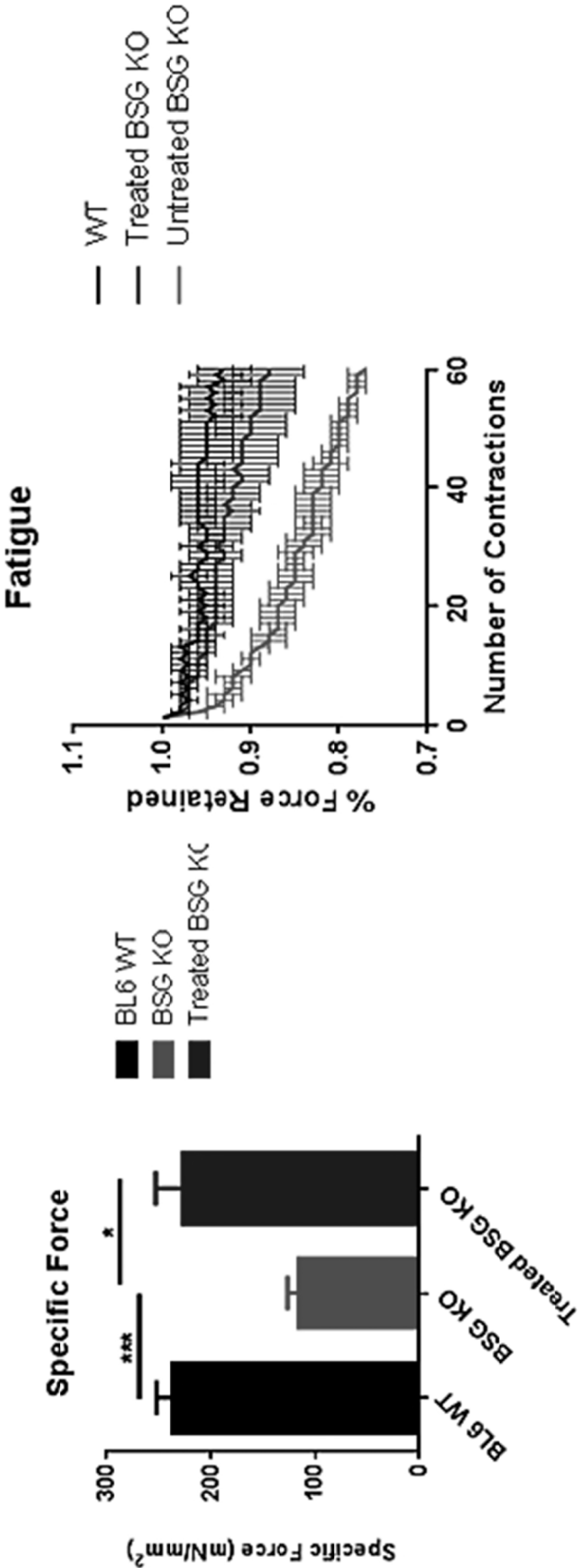
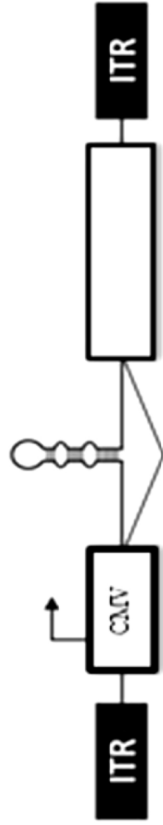


Figure 16

scAAVrh.74.CMV.miR29c



SEQ ID NO: 9: miR-29C IN A miR-30 BACKBONE

GGCCGGCCtgtttgatgaggcttcagtactttacagaatCGTTGCCCTGCACATCTTGGAAACACTTGCTGGGATTAC
TTCCTCAGGTTAACCCTAACAGAGGCTCCAGAAAGGTATATTGCTCTTGACACTGAGCGCAACC
GATTTCAAATGGTGCTAGAGTGAAAGCCACAGATGTCTAGCACCATTTGAAATCGGTTATGCGCTA
CTGCCCTCGGAATTCAAGGGGCTACTTTAGGAGCAATTATCTTGTTACTAAAACCTGAATACCTT
GCTATCTCTTCATACATGGCCGGCC

Figure 17

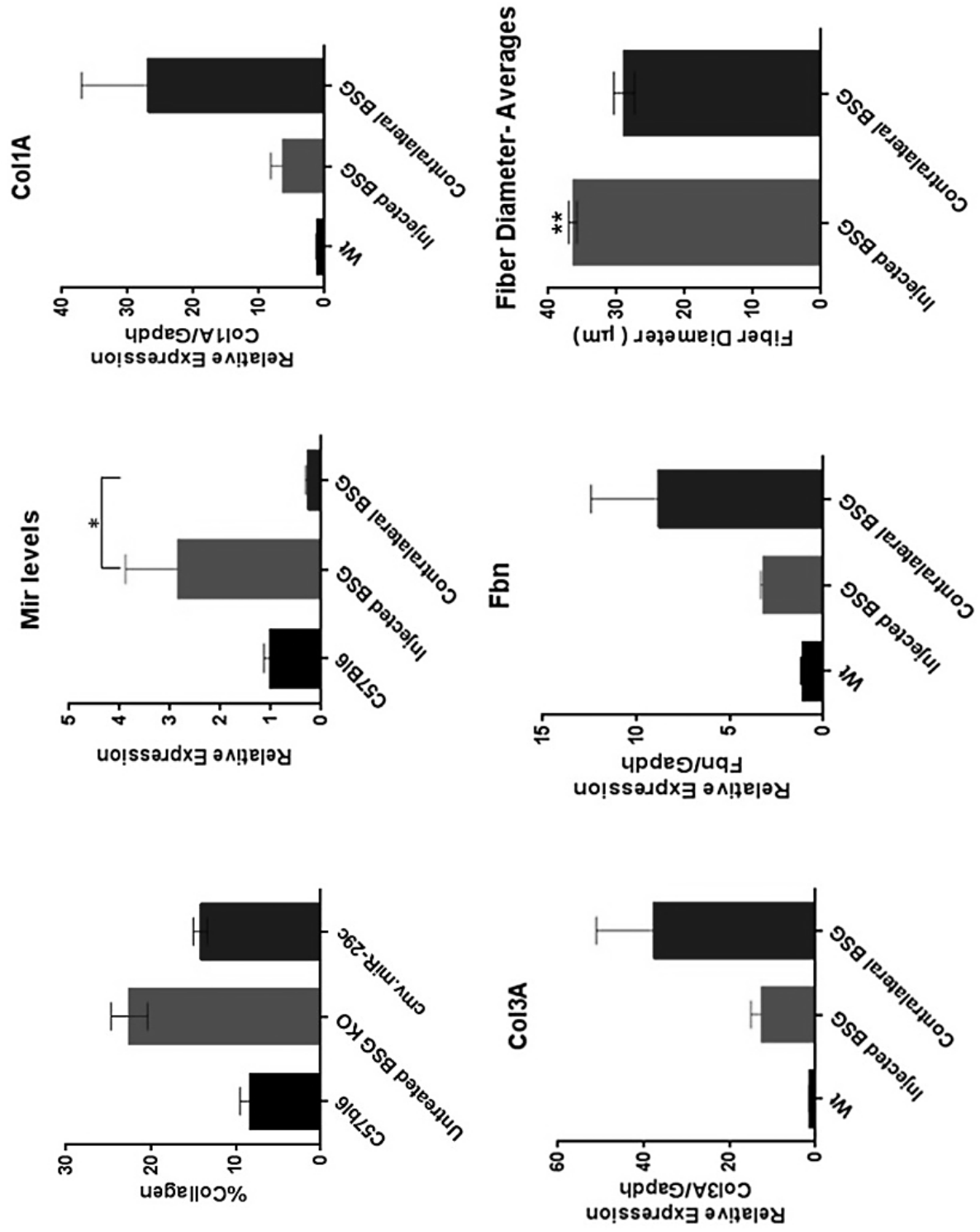
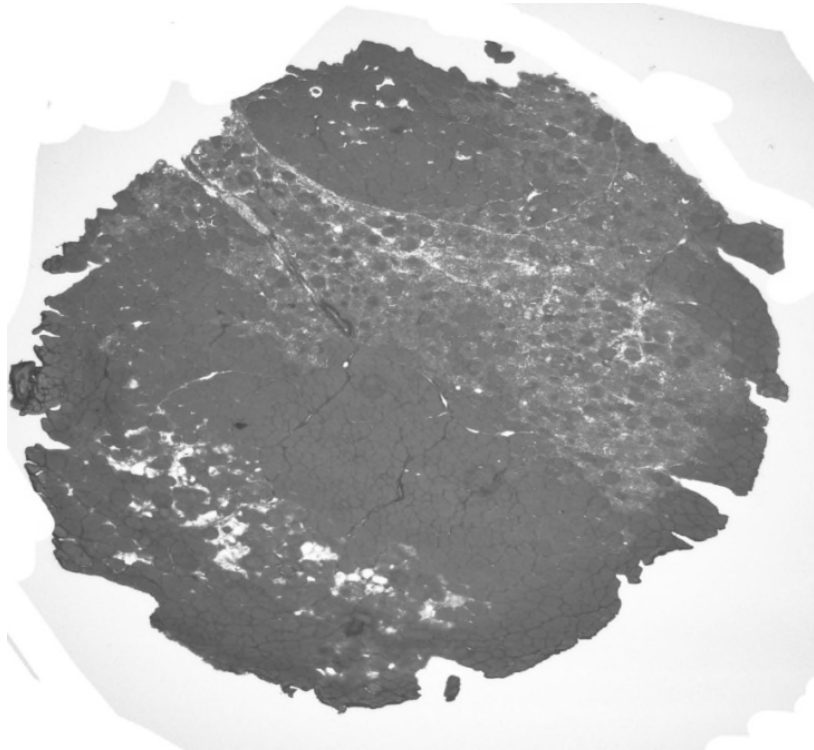


Figure 18

Untreated SGC8-/-



AAVrh.74.CMV.miR29C treated SGC8-/-

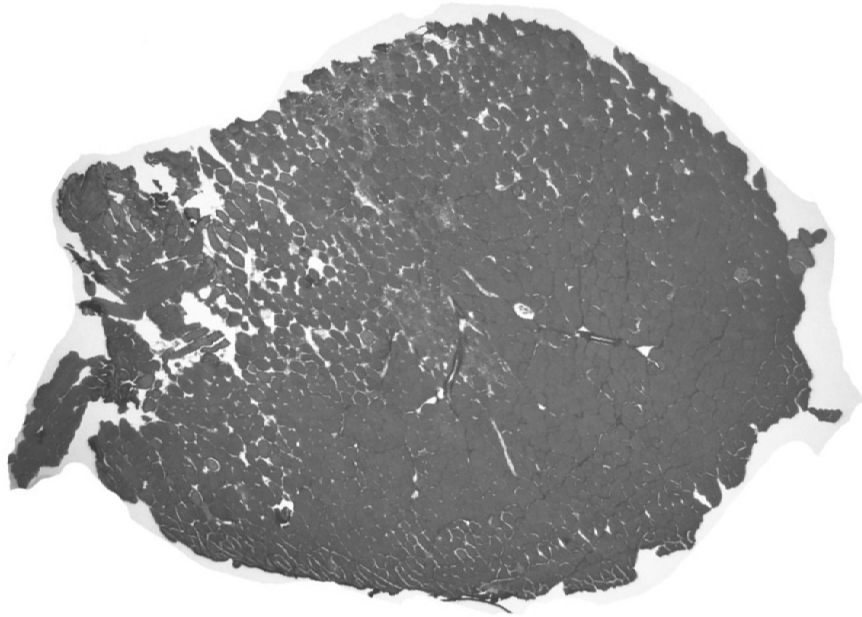


Figure 19A

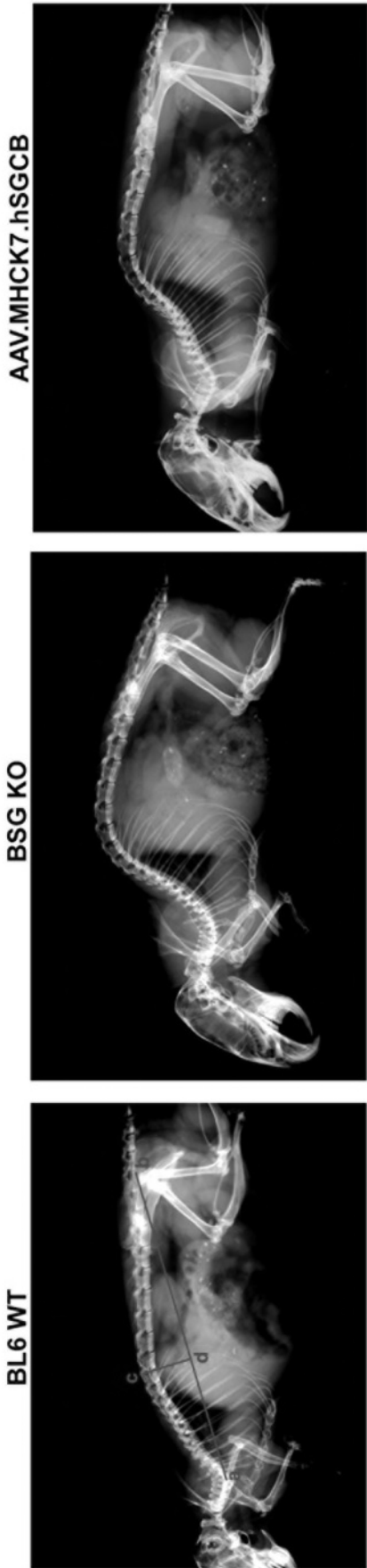


Figure 19B

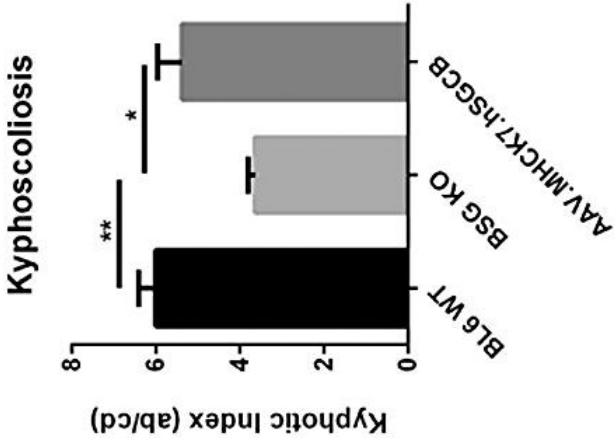


Figure 20A

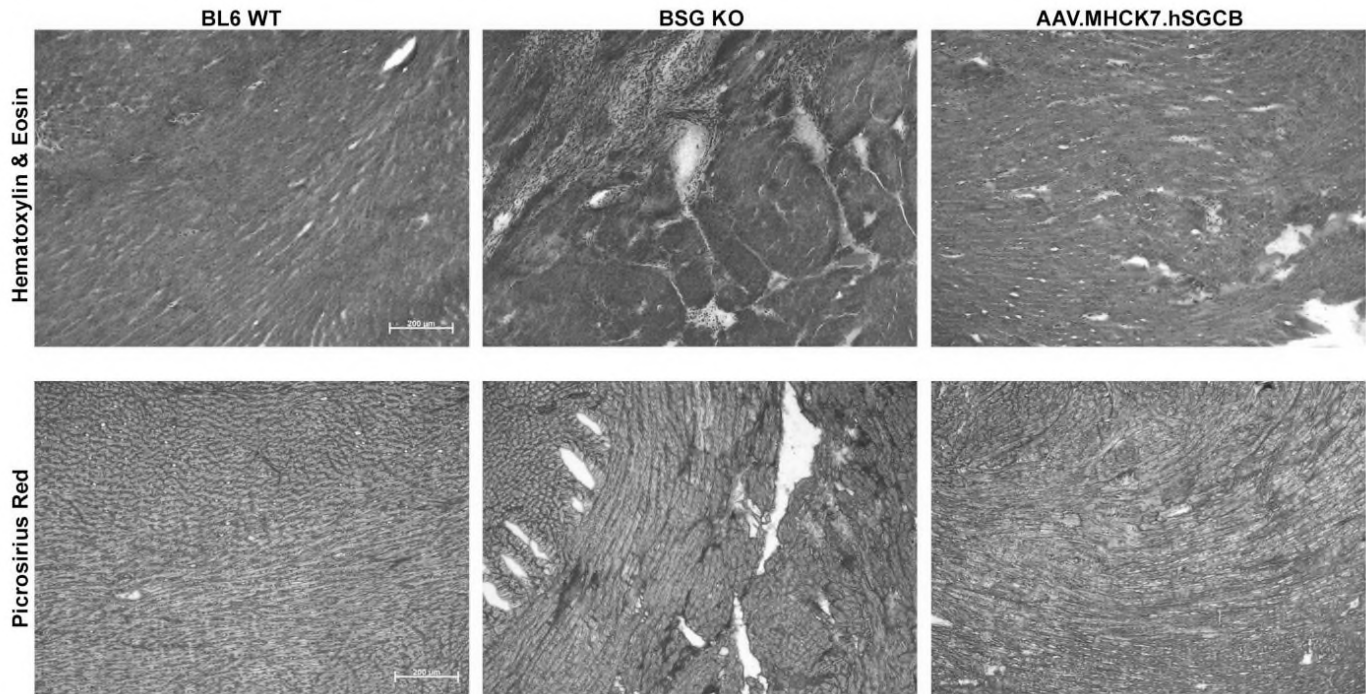


Figure 20B

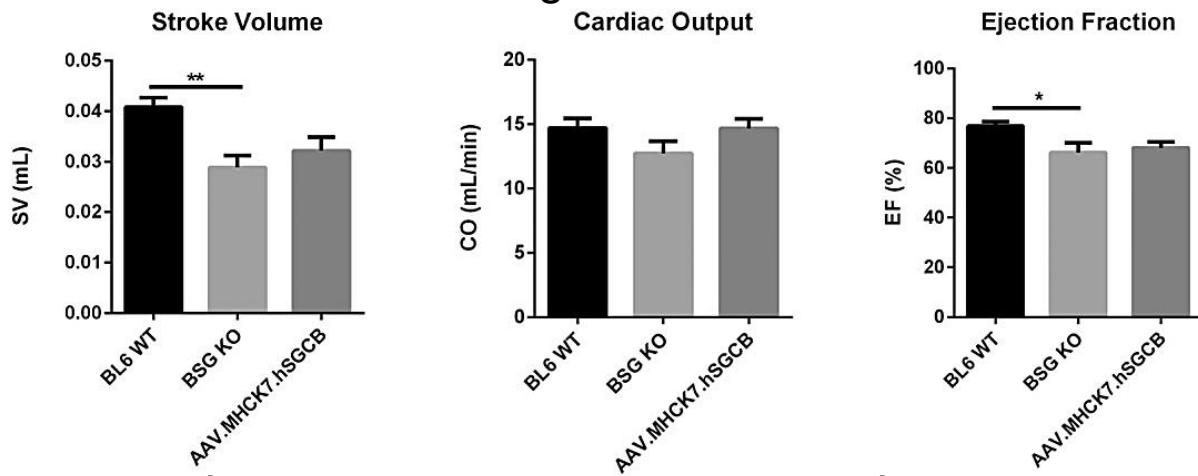


Figure 20C

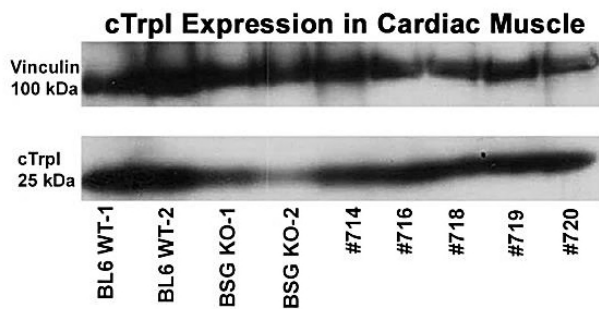


Figure 20D

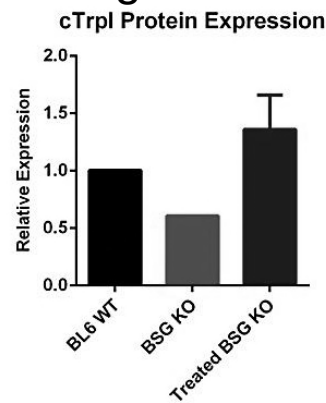


Figure 21A

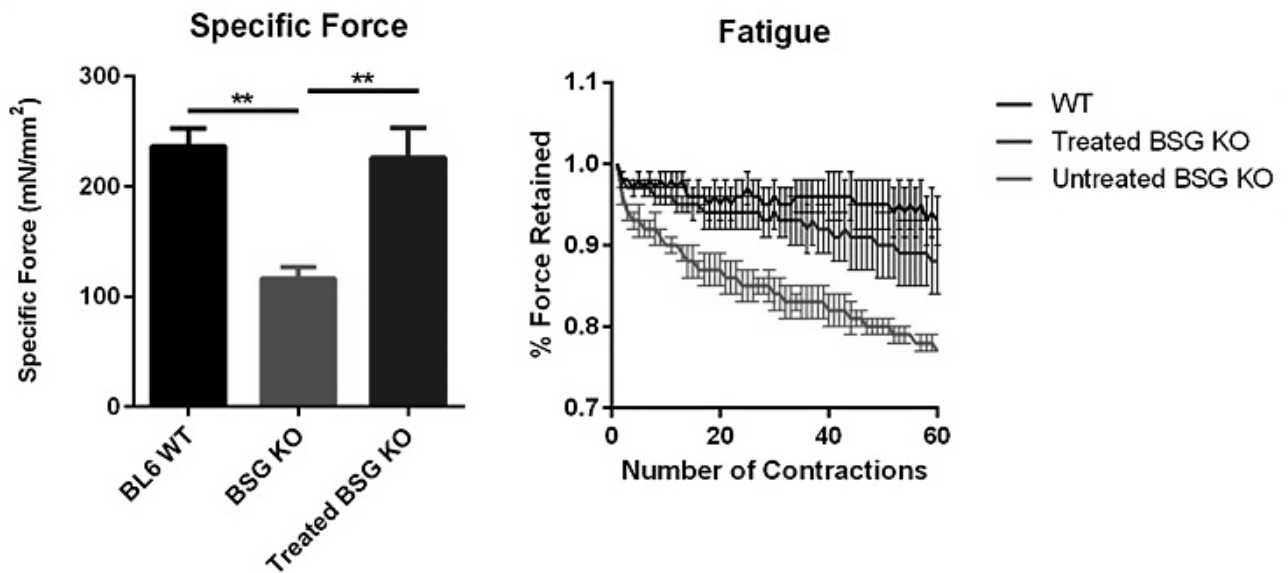


Figure 21B

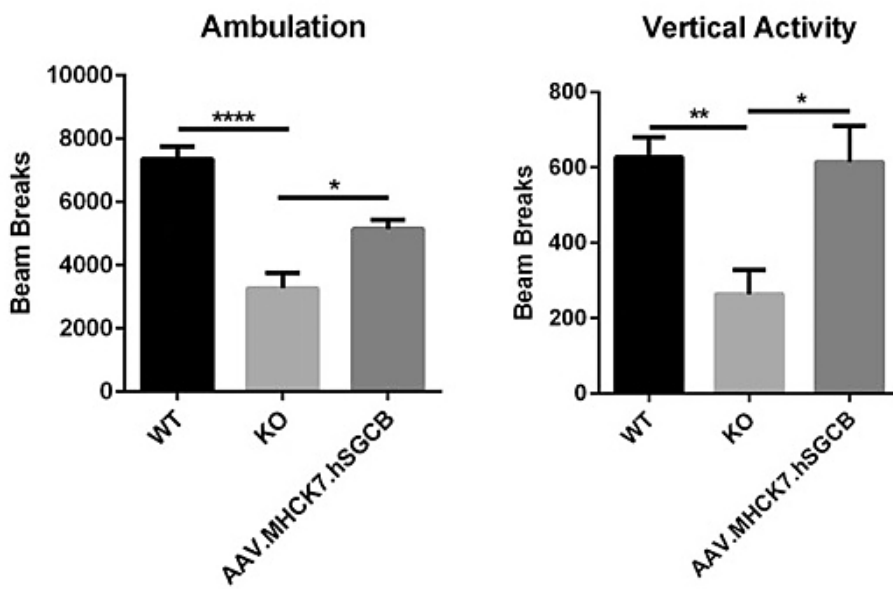


Figure 22A

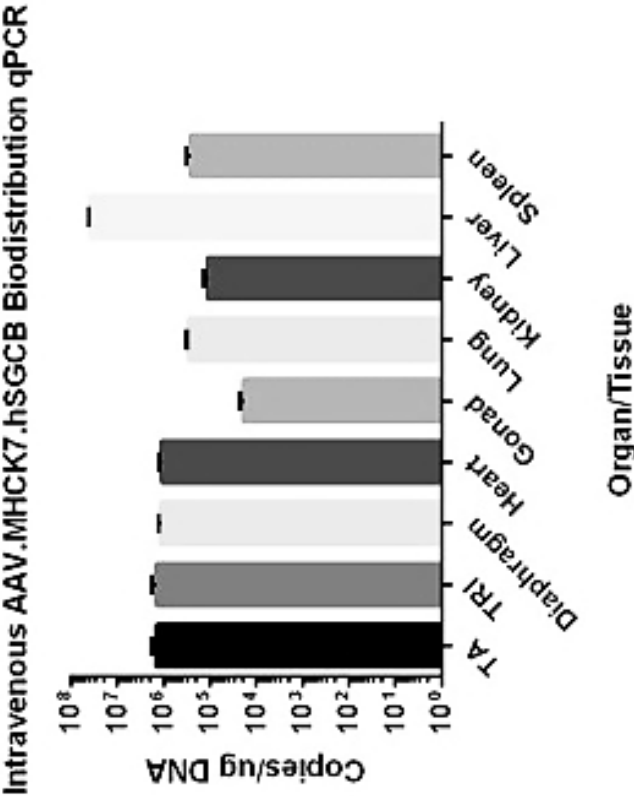


Figure 22B

