



Supplement 1. SS and IS tendons repair surgery procedure: The first step to weave and transection of the tendon; the second is to make a tunnel through humeral head and to fix to the anatomical position. For delayed repair surgery, tendons were isolated and cleaned by removing surround scar tissue before being sutured to humeral head.

Gene	Forward Primer Sequence (5' →3')	Reverse Primer Sequence (5' →3')
Atrogin-1	CCATCAGGAGAAGTGGATCTATGTT	GCTTCCCCAAAGTGCAGTA
MuRF-1	TGTTCTGGTAGGTCGTTCCG	ATGCCGGTCCATGATCACTT
α-SMA	GGACGTACAACCTGGTATTGTGC	TCGGCAGTAGTCACGAAGGA
Collagen 1a	GCTCCTCTTAGGGGCCACT	ATTGGGGACCCTTAGGCCAT
Collagen 3a	CAGGACCTAAGGGCGAAGATG	TCCGGGCATACCCCGTATC
PPAR-g1	TCGCTGATGCACTGCCTATG	GAGAGGTCCACAGAGCTGATT
PPAR-g2	GGAAGACCACTCGCATTCTT	GTAATCAGCAACCATTGGGTCA
CEBP-a	GCGGGAACGCAACAACATC	GTCCTGGTCAACTCCAGCAC
ADIPOQ	GTTCCCAATGTACCCATTTCGC	TGTTGCAGTAGAACTTGCCAG

Supplement 2. Sequence of Murine Genes Primers