Table S1 Key hypertrophy related genes in DEG analysis

Gene Symbol	Gene Name	Function	Expression Change
igf1	Insulin-like growth factor 1	Central regulator of muscle hypertrophy	Upregulated (2.3-fold at 4 mo)
mtor	Mechanistic target of rapamycin	Master regulator of protein synthesis	Upregulated (1.8-fold at 9 mo)
akt2	AKT serine/threonine kinase 2	IGF1 signaling pathway	Upregulated (2.1-fold at 15 mo)
myod1	Myogenic differentiation 1	Muscle satellite cell activation	Upregulated (1.9-fold at 4 mo)
myog	Myogenin	Myoblast differentiation	Upregulated (2.2-fold at 9 mo)
foxo3	Forkhead box O3	Negative regulator of hypertrophy (atrophy-related)	Downregulated (0.6-fold at 15 mo)