

Supplemental Table 1: Experimental Groups and Outcomes

Group		Abbreviation	Outcome Measures									
			Histology ¹		qt-PCR ²		Alamar Blue ³		Biomechanics ³		Lactate ⁴	
			WT	TS5KO	WT	TS5KO	WT	TS5KO	WT	TS5KO	WT	TS5KO
<i>In-Vivo</i>	Un-Injured	UI	N=4	N=4	N=3 (12,20,22)	N=3 (20,18,20)	-	-	-	-	-	-
	3 days	3d	N=4	N=2	N=3 (12 each)	N=3 (13,10,10)	-	-	-	-	-	-
	14 days	14d	N=2	N=3	N=3 (20,20,21)	N=3 (20,18)*	-	-	-	-	-	-
	28 days	28d	N=3	N=4	N=3 (18,16,18)	N=3 (18,15,15)	-	-	-	-	-	-
	Sham	Sham	-	-	N=1 (24)	-	-	-	-	-	-	-
<i>In-Vitro</i>	Freshly Excised	FE	N=3	N=4	N=1 (22)	N=1 (20)	N=3	N=3	N=6	N=6	N=2 (22)	N=2 (20)
	20% O ₂	Basal	N=3	N=3	N=1 (13)	N=1 (13)	N=3	N=3	N=6	N=6	N=2 (13)	N=2 (13)
	20% O ₂ + TGF-β ₁	+TGF-β ₁	N=3	N=3	N=1 (16)	N=1 (18)	N=3	N=3	N=6	N=6	N=2 (16)	N=2 (18)
	2.5% O ₂	2.5% O ₂	N=3	N=3	N=1 (16)	N=1 (18)	N=3	N=3	N=5	N=5	N=2 (16)	N=2 (18)
	20% O ₂ +TGF-β ₁ +LY2109761	+TGF-β ₁ +LY2109761	N=3	N=3	N=1 (21)	N=1 (15)	N=3	N=3	-	-	N=2 (21)	N=2 (15)
	2.5% O ₂ +LY2109761	2.5% O ₂ +LY2109761	N=3	N=3	N=1 (16)	N=1 (17)	N=3	N=3	-	-	N=2 (16)	N=2 (17)

Footnote 1 - Individual legs (*in-vivo*) or tendons (*in-vitro*)

2 - Tissue pools with number of tendons per pool in parenthesis

3 - Individual Tendons

4 - Number of media samples measured with total number of tendons used per group in parenthesis

* 3rd pool removed from post-analysis due to outlier (Abundance values for all genes approximately 1.5 standard deviations below the average)