

Table S2. Functional annotation of differentially expressed genes from microarray.

List of significant (local false discovery rate [FDR]<0.1) gene ontology terms associated with genes differentially expressed in WT vs. PCKO mice.

Gene ontology: Biological Processes (GO:BP)			
GO term	Description	conditional p-value	conditional local FDR
GO:0003009	skeletal muscle contraction	2.69E-06	0.002292486
GO:0055002	striated muscle cell development	2.59E-05	0.024674814
GO:0030239	myofibril assembly	4.61E-05	0.073886325
GO:0043501	skeletal muscle adaptation	5.41771E-05	0.086232277
GO:0055001	muscle cell development	1.15E-04	0.039372473
GO:0019318	hexose metabolic process	0.000138181	0.044788427
GO:0006096	glycolytic process	0.000170698	0.082184906
GO:0005996	monosaccharide metabolic process	0.0002943	0.031162582
GO:0006941	striated muscle contraction	0.000338281	0.033404457
GO:0044723	single-organism carbohydrate metabolic process	0.000372411	0.029795978
GO:0044262	cellular carbohydrate metabolic process	0.000599512	0.046469034
GO:0005975	carbohydrate metabolic process	0.000771294	0.078740185
GO:0090257	regulation of muscle system process	0.000940396	0.062308227
GO:0046031	ADP metabolic process	0.00108688	0.068654595
GO:0006936	muscle contraction	0.00136644	0.048082629
GO:0060047	heart contraction	0.001790202	0.054319616
GO:0007517	muscle organ development	0.001922365	0.099960539
GO:0009179	purine ribonucleoside diphos. metabolic process	0.001938981	0.056356816
GO:0016052	carbohydrate catabolic process	0.002647306	0.065189033
GO:0061061	muscle structure development	0.004528557	0.083845881
GO:0060537	muscle tissue development	0.004693927	0.085248806
GO:0050879	multicellular organismal movement	0.006570948	0.099361804

Gene ontology: Cellular Components (GO:CC)			
GO term	Description	conditional p-value	conditional local FDR
GO:0030018	Z disc	2.84E-08	6.94E-05
GO:0016529	sarcoplasmic reticulum	1.27495E-05	0.004838942
GO:0030017	sarcomere	9.13256E-05	0.032803167
GO:0042383	sarcolemma	1.05E-04	0.043717674
GO:0005865	striated muscle thin filament	2.72E-04	0.087621139
GO:0030016	myofibril	0.000930534	0.086682422
GO:1902495	transmembrane transporter complex	0.002049219	0.040147262
GO:0034702	ion channel complex	0.002416511	0.068155696
GO:0042995	cell projection	0.016861336	0.099063716