

Table S2.

IFM dia vs IFM Ctrl	
Entrez Gene Name	Entrez Gene ID for Mouse
Oxidative Phosphorylation	
ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit	28080
cytochrome c oxidase subunit VIb polypeptide 1 (ubiquitous)	110323
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 7, 14.5kDa	66416
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 10, 42kDa	67273
NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1, 8kDa	70316
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6, 17kDa	230075
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 10, 22kDa	68342
NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa (NADH-coenzyme Q reductase)	227197
succinate dehydrogenase complex, subunit A, flavoprotein (Fp)	66945
succinate dehydrogenase complex, subunit B, iron sulfur (Ip)	67680
ubiquinol-cytochrome c reductase core protein I	22273
ubiquinol-cytochrome c reductase core protein II	67003
ubiquinol-cytochrome c reductase, complex III subunit VII, 9.5kDa	22272
Mitochondrial Dysfunction	
cytochrome c oxidase subunit VIb polypeptide 1 (ubiquitous)	110323
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 7, 14.5kDa	66416
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 10, 42kDa	67273
NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1, 8kDa	70316
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6, 17kDa	230075
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 10, 22kDa	68342
NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa (NADH-coenzyme Q reductase)	227197
peroxiredoxin 5	54683
succinate dehydrogenase complex, subunit A, flavoprotein (Fp)	66945
succinate dehydrogenase complex, subunit B, iron sulfur (Ip)	67680
ubiquinol-cytochrome c reductase core protein I	22273
ubiquinol-cytochrome c reductase core protein II	67003
Fatty Acid Elongation in Mitochondria	
hydroxyacyl-CoA dehydrogenase	15107
Citrate Cycle	
dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex)	78920
isocitrate dehydrogenase 3 (NAD+) gamma	15929
succinate dehydrogenase complex, subunit A, flavoprotein (Fp)	66945
succinate dehydrogenase complex, subunit B, iron sulfur (Ip)	67680
IFM-mPHGPx dia vs IFM dia	
Entrez Gene Name	Entrez Gene ID for Mouse
Oxidative Phosphorylation	

ATP synthase, H ⁺ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle	11946
ATP synthase, H ⁺ transporting, mitochondrial F1 complex, epsilon subunit	67126
cytochrome c-1	66445
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 6, 14kDa	67130
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 8, 19kDa	68375
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 10, 42kDa	67273
NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1, 8kDa	70316
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6, 17kDa	230075
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7, 18kDa	66916
NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa (NADH-coenzyme Q reductase)	227197
NADH dehydrogenase (ubiquinone) Fe-S protein 2, 49kDa (NADH-coenzyme Q reductase)	226646
NADH dehydrogenase (ubiquinone) Fe-S protein 3, 30kDa (NADH-coenzyme Q reductase)	68349
succinate dehydrogenase complex, subunit A, flavoprotein (Fp)	66945
succinate dehydrogenase complex, subunit B, iron sulfur (Ip)	67680
ubiquinol-cytochrome c reductase core protein I	22273
ubiquinol-cytochrome c reductase core protein II	67003
ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1	66694
Mitochondrial Dysfunction	
ATP synthase, H ⁺ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle	11946
cytochrome c-1	66445
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 6, 14kDa	67130
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 8, 19kDa	68375
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 10, 42kDa	67273
NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1, 8kDa	70316
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6, 17kDa	230075
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7, 18kDa	66916
NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa (NADH-coenzyme Q reductase)	227197
NADH dehydrogenase (ubiquinone) Fe-S protein 2, 49kDa (NADH-coenzyme Q reductase)	226646
NADH dehydrogenase (ubiquinone) Fe-S protein 3, 30kDa (NADH-coenzyme Q reductase)	68349
succinate dehydrogenase complex, subunit A, flavoprotein (Fp)	66945
succinate dehydrogenase complex, subunit B, iron sulfur (Ip)	67680
ubiquinol-cytochrome c reductase core protein I	22273
ubiquinol-cytochrome c reductase core protein II	67003
ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1	66694
Fatty Acid Elongation in Mitochondria	
enoyl CoA hydratase, short chain, 1, mitochondrial	93747
hydroxyacyl-CoA dehydrogenase	15107
hydroxyacyl-CoA dehydrogenase/3-ketoacyl-CoA thiolase/enoyl-CoA hydratase (trifunctional protein), beta subunit	231086
Citrate Cycle	
aconitase 2, mitochondrial	11429

citrate synthase	12974
isocitrate dehydrogenase 3 (NAD+) gamma	15929
malate dehydrogenase 2, NAD (mitochondrial)	17448
succinate dehydrogenase complex, subunit A, flavoprotein (Fp)	66945
succinate dehydrogenase complex, subunit B, iron sulfur (Ip)	67680
Pyruvate Metabolism	
malate dehydrogenase 2, NAD (mitochondrial)	17448