

Table S1. Nuclear-Encoded Mitochondrial mRNAs/Proteins Showing Discordance during PGC-1 α Overexpression in C2C12**Mouse Myotubes, Related to Figure 1**

Entrez Gene	Gene Symbol	SILAC PGC/GFP	MicroarrayPGC /GFP	Mircoarray/SIL AC	OxPhos	Iron-Binding
73724	Mcee	0.35	2.72	7.71	0	0
67308	Mrpl46	0.96	2.84	2.96	0	0
217707	Coq6	0.89	2.56	2.87	0	0
232536	Mrps35	0.99	2.72	2.76	0	0
108841	Rdh13	0.93	2.38	2.54	0	0
118451	Mrps2	0.99	2.44	2.47	0	0
27395	Mrpl15	0.91	2.22	2.43	0	0
213012	Abhd10	0.88	2.14	2.42	0	0
20917	Suclg2	0.52	1.15	2.21	0	0
68971	1500001M20Rik	0.72	1.58	2.19	0	0
57312	Mrps31	0.60	1.30	2.16	0	0
67264	Ndufb8	0.81	1.72	2.14	1	0
407785	Ndufs6	0.82	1.69	2.06	1	0
228026	Pdk1	0.94	1.92	2.04	0	0
66821	Bcs1l	0.96	1.94	2.03	0	0
319518	4930402E16Rik	0.99	2.01	2.03	0	0
66525	Timm50	0.90	1.81	2.00	0	0
66218	Ndufb9	0.79	1.55	1.98	1	0
66445	Cycl	0.99	1.91	1.93	1	1
79464	Lias	0.83	1.59	1.93	0	1
66163	Mrpl4	1.00	1.92	1.93	0	0
12894	Cpt1a	0.98	1.88	1.91	0	0
227197	Ndufs1	0.96	1.84	1.91	1	1
59054	Mrps30	0.99	1.89	1.91	0	0
73694	2410091C18Rik	0.66	1.24	1.89	0	0
56280	Mrpl37	0.93	1.72	1.85	0	0
110821	Pcca	0.74	1.36	1.85	0	0
60441	Mrpl38	0.98	1.82	1.84	0	0
104776	Aldh6a1	0.61	1.09	1.80	0	0

66399	Tsfm	0.95	1.67	1.76	0	0
68537	Mrpl3	0.98	1.70	1.74	0	0
94061	Mrpl1	1.00	1.74	1.74	0	0
12896	Cpt2	0.98	1.68	1.72	0	0
12257	Bzrp	0.85	1.46	1.71	0	0
66916	Ndufb7	0.96	1.63	1.70	1	0
229211	Acad9	0.85	1.45	1.69	0	0
216821	Tmem11	0.90	1.52	1.69	0	0
230935	Dnajc11	0.93	1.55	1.66	0	0
217830	9030617003Rik	0.80	1.32	1.64	0	0
70047	Trnt1	0.99	1.58	1.60	0	0
52538	Acaa2	0.94	1.51	1.60	0	0
76784	Mtif2	0.99	1.56	1.58	0	0
226646	Ndufs2	0.96	1.52	1.58	1	1
66701	Spryd4	0.91	1.43	1.57	0	0
72039	Mccc1	0.79	1.24	1.57	0	0
99045	Mrps26	0.84	1.29	1.54	0	0
68572	Ict1	0.97	1.49	1.54	0	0
69029	1500032L24Rik	0.86	1.32	1.54	0	0
94063	Mrpl16	0.78	1.19	1.53	0	0
66414	Ndufa12	0.92	1.40	1.52	1	0
69527	Mrps9	0.98	1.49	1.51	0	0
68165	B230118G17Rik	0.88	1.33	1.51	0	1
108147	Atic	1.03	0.69	0.67	0	0
28200	Dhrs4	1.08	0.72	0.67	0	0
216188	Aldh1l2	1.06	0.70	0.66	0	0
14467	Gbas	1.15	0.74	0.64	0	0
56748	Hirip5	1.32	0.83	0.63	0	1
20655	Sod1	1.03	0.63	0.62	0	0

Differentiated myotubes were analyzed after 3 days of PGC-1 α overexpression. Top 58 nuclear-encoded mitochondrial

mRNAs/proteins showing discordance in expression fold change (PGC-1 α /GFP) are displayed. Oxidative phosphorylation (OxPhos) and

iron-binding proteins are indicated. SILAC, stable isotope labeling by amino acids in cell culture; PGC, peroxisome proliferator-activated receptor gamma, coactivator 1 alpha; GFP, green fluorescent protein.

Table S2. Primary Antibodies Used for Immunoblotting

Antigen	Host	Dilution	Supplier
β -actin	Mouse	1:10,000	Sigma-Aldrich
Calreticulin	Rabbit	1:1,000	Cell Signaling Technology
Cl subunit 8kDa	Mouse	1:1,000	MitoSciences
COXIV	Mouse	1:2,000	MitoSciences
Cytochrome <i>c</i>	Mouse	1:8,000	MitoSciences
GFP	Mouse	1:1,000	Santa Cruz Biotechnology
Lamin A	Mouse	1:500	Abcam
NDUFS3	Mouse	1:1,000	MitoSciences
PGC-1 β	Rabbit	1:500	Sigma-Aldrich
TFRC	Mouse	1:1,000	Invitrogen
VDAC	Rabbit	1:8,000	Abcam