

**Table S3: Gene expression of antioxidant enzymes in *Cox6a2*<sup>-/-</sup> vs WT mice**

	Diaphragm		Gastrocnemius	
	FC*	p-value	FC*	p-value
Sod1 (superoxide dismutase 1)	1,05	NS	0.97	NS
Sod2 (superoxide dismutase 2)	1,46	0.01	1.07	NS
Gpx1 (glutathione peroxidase 1)	1,72	0.006	1.03	NS
Gpx3 (glutathione peroxidase 2)	1,07	NS	1.04	NS
Gpx4 (glutathione peroxidase 3)	1,30	0.04	1.23	0.007
Cat (catalase)	1,53	0.004	0.79	0.03
Txn1 (thioredoxin 1)	1,36	0.004	0.96	NS
Txn2 (thioredoxin 2, mitochondrial)	1,14	0.01	1.17	0.0008
Prdx1 (peroxiredoxin 1)	1,02	NS	1.16	NS
Prdx2 (peroxiredoxin 2)	1,95	0.0009	1.08	NS
Prdx3 (peroxiredoxin 3)	1,40	0.003	1.18	0.02
Prdx4 (peroxiredoxin 4)	2,03	0.03	1.23	0.04
Prdx5 (peroxiredoxin 5)	1,32	0.008	1.06	NS
Prdx6 (peroxiredoxin 6)	1,72	0.004	1.11	NS

\* Fold change expression in *Cox6a2*<sup>-/-</sup> over WT mice