

**Table S3.** Analysis of variance of mitochondrial and nuclear effects on mitochondrial enzyme activities

Dependent variable <sup>1</sup>	Factor	Df	F value	P value
Complex I	<b>mtDNA</b>	<b>1</b>	<b>31.22</b>	<b>3.6e-06</b>
	<b>Nuclear</b>	<b>1</b>	<b>10.03</b>	<b>0.0034</b>
	Sex	1	1.971	0.1700
	Block	2	0.093	0.9118
	<b>mtDNA*nuclear</b>	<b>1</b>	<b>7.624</b>	<b>0.0095</b>
	mtDNA*sex	1	0.591	0.4480
	Nuclear*sex	1	1.796	0.1897
	mtDNA*block	2	0.318	0.7299
	Nuclear*block	1	1.247	0.3010
	mtDNA*nuclear*sex	1	0.700	0.4088
	mtDNA*nuclear*sex*block	1	0.444	0.6453
	Residuals	32		
Complex II	mtDNA	1	0.019	0.8913
	Nuclear	1	0.075	0.7859
	<b>Sex</b>	<b>1</b>	<b>13.33</b>	<b>0.0007</b>
	<b>Block</b>	<b>2</b>	<b>24.87</b>	<b>5.9e-08</b>
	mtDNA*nuclear	1	1.484	0.2296
	mtDNA*sex	1	1.165	0.2863
	<b>Nuclear*sex</b>	<b>1</b>	<b>8.322</b>	<b>0.0060</b>
	mtDNA*block	2	0.743	0.4815
	Nuclear*block	2	0.283	0.7546
	mtDNA*nuclear*sex	1	2.461	0.1239
	mtDNA*nuclear*sex*block	2	1.836	0.1715
	Residuals	44		
Complex III	mtDNA	1	1.282	0.2636
	<b>Nuclear</b>	<b>1</b>	<b>15.06</b>	<b>0.0003</b>
	Sex	1	0.513	0.4776
	<b>Block</b>	<b>1</b>	<b>5.791</b>	<b>0.0204</b>
	<b>mtDNA*nuclear</b>	<b>1</b>	<b>11.59</b>	<b>0.0014</b>
	mtDNA*sex	1	2.335	0.1337
	Nuclear*sex	1	0.102	0.7506
	mtDNA*block	1	2.527	0.1190
	Nuclear*block	1	0.575	0.4522
	mtDNA*nuclear*sex	1	0.116	0.7352
	mtDNA*nuclear*sex*block	1	1.236	0.2723
	Residuals	44		
Complex IV	mtDNA	1	2.291	0.1358
	<b>Nuclear</b>	<b>1</b>	<b>14.56</b>	<b>0.0003</b>
	<b>Sex</b>	<b>1</b>	<b>56.84</b>	<b>4.5e-10</b>
	<b>mtDNA*nuclear</b>	<b>1</b>	<b>10.25</b>	<b>0.0023</b>
	mtDNA*sex	1	0.329	0.5684
	Nuclear*sex	1	0.114	0.7364
	mtDNA*nuclear*sex	1	0.178	0.6747
	Residuals	56		
	Citrate synthase	mtDNA	1	0.479
Nuclear		1	0.067	0.7979
<b>Sex</b>		<b>1</b>	<b>4.640</b>	<b>0.0415</b>
mtDNA*nuclear		1	0.050	0.8241
mtDNA*sex		1	1.663	0.2095
Nuclear*sex		1	0.528	0.4744
mtDNA*nuclear*sex		1	0.131	0.7207
Residuals		24		

<sup>1</sup> Data include the following genotypes: (*ore*);*OreR*, (*ore*);*AutW132*, (*simw*<sup>501</sup>);*OreR*, (*simw*<sup>501</sup>);*AutW132*.