

## **Description of Additional Supplementary Files**

File Name: Supplementary Data 1

Description: Relative metabolite pool sizes in mitochondria and cytosol.

File Name: Supplementary Data 2

Description: Absolute metabolite pool sizes in mitochondria and cytosol.

File Name: Supplementary Data 3

Description: Mass-isotopomer distribution of metabolites in mitochondrial and cytosolic fraction under normoxia.

File Name: Supplementary Data 4

Description: Mass-isotopomer distribution of metabolites in mitochondrial and cytosolic fraction under hypoxia.

File Name: Supplementary Data 5

Description: Mass-isotopomer distribution of metabolites in mitochondrial and cytosolic fraction of SDH-WT cells.

File Name: Supplementary Data 6

Description: Mass-isotopomer distribution of metabolites in mitochondrial and cytosolic fraction of SDH-KO cells.

File Name: Supplementary Data 7

Description: Mass-isotopomer distributions of metabolites in mitochondrial and cytosolic fraction given physiological concentration of glutamine (0.5 mM).

File Name: Supplementary Data 8

Description: Inferred fluxes.