

TCA cycle 10.0 Aconitate hydratase 2-oxoglutarate 3.96 dehydrogenase complex 7.5 Citrate synthase 4.85 4.88 5.0 Fumarate hydratase 4.88 3.97 socitrate dehydrogenase (NAD) -25 socitrate dehydrogenase Reaction flux 0.00 0.03 -0.55 -0.08 (NADP) Malate dehydrogenase 2 9.06 (NAD) Malic Enzyme 2 (NAD) 0.06 0.21 0.31 0.00 Malic Enzyme 3 (NADP) 0.00 0.47 0.00 Pyruvate carboxylase 0.00 0.00 1.50 0.62 -5.0 Pyruvate dehydrogenase 2.58 2.63 1.42 1.44 Succinate-CoA ligase -3.77-3.89(ADP) Glutamic pyruvate transaminase 0.00 0.00 -0.700.00 (alanine aminotransferase) 2 -10.0HEK293 high NAD 293mitoPARP high NAD HEK293 low NAD 293mitoPARP low NAD