

Table 14: Expression changes in TCA cycle for the gastric bypass study. Alphabetized list of reactions in TCA cycle (as defined by Recon 1). Ratio is the average log₁₀ expression ratio ($n=3$) of post-/pregene expression measurements (see text for details). Negative ratios (green) indicate a decrease in expression postsurgery whereas positive ratios indicate an increase (red). Values denoted with “n/a” indicate that gene expression values were unavailable, or that expression ratios conflicted at the probe or patient levels.

Reaction	Putative function	Locus	Ratio
ACITL	ATP-Citrate lyase	47.1	0.254
ACITL	ATP-Citrate lyase	47.2	n/a
ACONT	aconitase	48.1	-0.075
ACONT	aconitase	3658.1	-0.065
ACONTm	Aconitate hydratase	50.1	-0.06
AKGDm	2-oxoglutarate dehydrogenase	8050.1	-0.128
AKGDm	2-oxoglutarate dehydrogenase	1738.1	-0.051
AKGDm	2-oxoglutarate dehydrogenase	4967.2	n/a
AKGDm	2-oxoglutarate dehydrogenase	1743.1	n/a
AKGDm	2-oxoglutarate dehydrogenase	4967.1	n/a
CITL	Citrate lyase	171425.1	n/a
CITL	Citrate lyase	171425.2	n/a
CSm	citrate synthase	1431.1	n/a
CSm	citrate synthase	1431.2	n/a
FUM	fumarase	2271.1	n/a
FUMm	fumarase, mitochondrial	2271.1	n/a
ICDHxm	Isocitrate dehydrogenase (NAD+)	3421.1	n/a
ICDHxm	Isocitrate dehydrogenase (NAD+)	3421.2	n/a
ICDHxm	Isocitrate dehydrogenase (NAD+)	3419.1	n/a
ICDHxm	Isocitrate dehydrogenase (NAD+)	3420.3	n/a
ICDHxm	Isocitrate dehydrogenase (NAD+)	3420.1	n/a
ICDHxm	Isocitrate dehydrogenase (NAD+)	3420.2	n/a
ICDHx	isocitrate dehydrogenase (NADP)	3417.1	-0.118
ICDHyp	Isocitrate dehydrogenase (NADP+)	3417.1	-0.118
ICDHxym	Isocitrate dehydrogenase (NADP+)	3418.1	n/a
MDH	malate dehydrogenase	4190.1	-0.059
MDH	malate dehydrogenase	130752.1	n/a
MDHm	malate dehydrogenase, mitochondrial	4191.1	n/a
SUCD1m	succinate dehydrogenase	6392.1	-0.252
SUCD1m	succinate dehydrogenase	6391.1	-0.069
SUCD1m	succinate dehydrogenase	6390.1	n/a
SUCD1m	succinate dehydrogenase	6389.1	n/a
SUCOAS1m	Succinate--CoA ligase (GDP-forming)	8802.1	-0.058
SUCOAS1m	Succinate--CoA ligase (GDP-forming)	8801.1	0.028
SUCOASm	Succinate--CoA ligase (ADP-forming)	8802.1	-0.058
SUCOASm	Succinate--CoA ligase (ADP-forming)	8803.1	n/a