

**Table 12: Expression changes in pentose phosphate pathway for the gastric bypass study.**

Alphabetized list of reactions in pentose phosphate pathway (as defined by Recon 1). Ratio is the average log<sub>10</sub> 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
DRBK	Deoxyribokinase	64080.1	-0.137
G6PDH1er	glucose-6-phosphate dehydrogenase, endoplasmic reticulum	9563.1	n/a
G6PDH1rer	glucose-6-phosphate dehydrogenase, endoplasmic reticulum	9563.1	n/a
G6PDH2r	glucose 6-phosphate dehydrogenase	2539.1	-0.094
G6PDH2rer	glucose 6-phosphate dehydrogenase, endoplasmic reticulum	9563.1	n/a
GND	phosphogluconate dehydrogenase	5226.1	n/a
PGL	6-phosphogluconolactonase	25796.1	-0.19
PGLer	6-phosphogluconolactonase, endoplasmic reticulum	9563.1	n/a
PPM	phosphopentomutase	5236.1	n/a
PRPPS	phosphoribosylpyrophosphate synthetase	5631.1	n/a
PRPPS	phosphoribosylpyrophosphate synthetase	221823.1	n/a
PRPPS	phosphoribosylpyrophosphate synthetase	5634.1	n/a
PRPPS	phosphoribosylpyrophosphate synthetase	221823.2	n/a
RBK	ribokinase	64080.1	-0.137
RPE	ribulose 5-phosphate 3-epimerase	6120.1	n/a
RPE	ribulose 5-phosphate 3-epimerase	6120.2	n/a
RPI	ribose-5-phosphate isomerase	22934.1	n/a
TALA	transaldolase	6888.1	n/a
TKT1	transketolase	8277.1	-0.063
TKT1	transketolase	84076.1	n/a
TKT1	transketolase	7086.1	n/a
TKT2	transketolase	8277.1	-0.063
TKT2	transketolase	84076.1	n/a
TKT2	transketolase	7086.1	n/a