

Table-S5. Microarray-based differential gene regulation in PTS-related genes in M1-SDH<sub>HBtail</sub> mutant

M1 SF370 SPy ORF No.	Carbohydrate transport system ( <i>gene name</i> )	Log <sub>2</sub> (Ratio) M1-SDH <sub>HBtail</sub> / M1-WT	P value
SPy0174	ascorbate-specific PTS system enzyme IIC	-1.1	0.024
SPy0252	Sialic acid ABC N-acetylneuraminase-binding protein	-1.89	0.024
SPy0572*	PTS system, beta-glucoside permease -specific IABC component	-0.93	0.74
SPy0629-0630*	PTS system, N-acetylgalactosamine-specific IID,C,B component	-0.46, +0.44	0.38
SPy0855	PTS system, fructose-specific IABC component	-2.27	0.0037
SPy1057-1060	PTS system, mannose/fructose family IIA,B,C,D component	-5.5, -5.6,-5.4,-4.9	≤0.0002
SPy1294-1296	Putative maltose/maltodextrin ABC transport-, <i>malM</i> , <i>malR</i>	-4.6,-3.85,-2.25	≤0.021
SPy1298-1301	maltodextrin transport system permease, <i>malA</i> , <i>malD</i> , <i>malC</i>	-2.2,-2.76, -3.56	≤0.00087
SPy1306	maltose/maltodextrin-binding protein, <i>malX</i>	-5.5	0.0005
SPy1591-1593	putative sugar-binding transport protein	-1.15, -0.5,-1.14	0.08-0.36
SPy1709-1711	PTS system, galactose- specific IIC ,IIB, IIA component	-2.87,-1.96,-2.2	0.024-1.4x10 <sup>-5</sup>
SPy1738-1740*	PTS system, mannose-specific component, <i>manL</i> , <i>manM</i>	0.11,0.19, -0.21	0.84,0.89,0.86
SPy1815*	PTS system, sucrose-specific IABC component, <i>scrA</i>	0.56	0.078
SPy1917	PTS system, lactose-specific IIBC component ( <i>lacE</i> )	-1.77	0.006
SPy1950*	Mannitol PTS	-0.44	0.62
SPy1976	multiple sugar-binding ABC transport system, <i>msmK</i>	-2.17	0.026
SPy1986¶	PTS system, glucose-specific IABC component	-1.09	0.16
SPy2052	PTS system, cellobiose-specific IABC component	-1.8	0.0005
SPy2097	Trehalose PTS	-1.38	0.0036

\* Shaded rows showing non-significant change

¶ Significant change with P >0.05