

Table 11. qRT-PCR analyses of *M. smithii* transcription *in vivo* in the presence or absence of *B. thetaiotaomicron* VPI-5482

Gene	Annotation	Fold Difference ¹	SEM	P-value
CELL SURFACE				
MSM1539	sialic acid synthase, NeuB	2.30	0.79	0.23
MSM1305	adhesin-like protein	1.84	0.22	0.04
MSM1112	adhesin-like protein	1.31	0.08	0.39
MSM1113	adhesin-like protein	0.93	0.09	0.85
MSM0411	adhesin-like protein	0.65	0.02	0.0006
MSM1399	adhesin-like protein	0.60	0.05	0.0008
MSM0995	adhesin-like protein	0.55	0.03	0.0009
MSM1534	adhesin-like protein	0.52	0.10	0.03
METHANOGENESIS				
MSM1381	putative alcohol dehydrogenase, Adh	2.31	0.62	0.003
MSM0049	F ₄₂₀ -dependent NADP reductase, Fno	3.75	0.41	0.006
MSM0515	methanol:cobalamin methyltransferase, MtaB	2.37	0.32	0.01
MSM0848	ribofuranosylaminobenzene 5'-phosphate synthase, RfaS	4.62	0.85	0.01
CARBON ASSIMILATION				
MSM0330	acetyl-CoA synthetase, Acs	1.02	0.36	0.76
MSM0228	succinyl-CoA synthetase, alpha subunit, Suc	1.33	0.24	0.31
MSM0560	pyruvate:ferredoxin oxidoreductase, beta subunit, Por	4.92	0.60	0.0006
MSM0988	phosphoenolpyruvate synthase, PpsA	2.72	0.42	0.002
MSM0654	carbonic anhydrase, Cab	1.69	0.10	0.005
MSM0991	bicarbonate ABC transporter, substrate-binding component,	0.55	0.05	0.005
MSM0291	bicarbonate ABC transporter, permease component, BtcB	0.45	0.04	0.0006
NITROGEN ASSIMILATION				
MSM0234	ammonium transporter, AmtB	2.88	0.24	0.0002
MSM0888	glutamate dehydrogenase, AdhA	2.55	0.72	0.05
MSM0027	glutamate synthase, AltB	2.35	0.64	0.006
MSM0368	glutamate synthase (NADPH), alpha subunit, GltA	2.89	0.60	0.008
MSM1418	glutamine synthetase, GlnA	19.06	5.35	0.0005
LIPID METABOLISM				
MSM0227	hydroxymethylglutaryl-CoA (HMG-CoA) reductase, HmgA	0.78	0.11	0.15

¹ *M. smithii* gene expression *in vivo* in the presence of *B. thetaiotaomicron* vs. alone