

Table 15. Primers used for qRT-PCR assays

ORF	ANNOTATION	PRIMER	SEQUENCE (5' -> 3')	AMPLICON SIZE (bp)
MSM0027	glutamate synthase, GltB	MSM0027.F	GAAGGCCGTCGGATAGGTA	117
		MSM0027.R	CTCCAGTAGCTCCCCCTCTT	
MSM0049	F ₄₂₀ -dependent NADP reductase, Fno	MSM0049.F	GGGTTACAGCAGCAGAAAGG	118
		MSM0049.F	CATATCAATTGGGTCTGGA	
MSM0227	HMG-CoA reductase, HmgA	MSM0227.F	GGCTGTGAATTACCGCATATGG	117
		MSM0227.R	TAACGGTCCGGCTACACCTACA	
MSM0228	succinyl-CoA synthetase, Suc	MSM0228.F	TGCTCGTGAAATGGACACTACAG	165
		MSM0228.R	GTAAGCTGGCTGGCTACTTCGT	
MSM0234	ammonium transporter, AmtB	MSM0234.F	TTTCTGGTGGTGTGTGGGA	115
		MSM0234.R	TAACCATCCTCCACCCATA	
MSM0291	bicarbonate ABC transporter, permease component, BtcA	MSM0291.F	TCTGCAGTACCGCCTATAGTTTCC	101
		MSM0291.R	CCTAAACCGCTACTTGAACCTATCA	
MSM0330	acetyl-CoA synthetase, Acs	MSM0330.F	ATCGAAGAGGAAAGCGATGA	103
		MSM0330.R	GGAAGTCCGCCTGTACCTGA	
MSM0368	glutamate synthase (NADPH), alpha subunit, GltA	MSM0368.F	GGAATGCTTCCTGAAGAACCG	127
		MSM0368.R	GCCCCGTGACCTATTTTGT	
MSM0411	adhesin-like protein	MSM0411.F	TCAGAATTGCAGGTGGTTTGG	129
		MSM0411.R	CGTGAACATCCATCCCATTAC	
MSM0515	methanol:cobalamin methyltransferase, MtaB	MSM0515.F	ATGTGGTGCAAAAGGACCTC	112
		MSM0515.R	CAGAGTGCACAAAACAGCA	
MSM0516	corrinoid protein	MSM0516.F	CGTAGAAGCTTACCACACACCA	108
		MSM0516.R	CGGTACGAATCCCCTACAA	
MSM0518	methylcobalamin:coenzyme M methyltransferase	MSM0518.F	TATTGCATATCTCGGGTCA	112
		MSM0518.R	GATGCTTTCCTTGCTTTTG	
MSM0560	pyruvate:ferredoxin oxidoreductase, PorB	MSM0560.F	CAATCATTATCCGGAGCAATGG	104
		MSM0560.R	GGTGTTCACCACTTCTTTGGA	
MSM0572	methylene-H4MPT dehydrogenase, Hmd	MSM0572.F	ACCCAGGTGCTGTACCTGAAAT	119
		MSM0572.R	TGTGAATGCAGATCCTCTTGCT	
MSM0654	carbonic anhydrase, Cab	MSM0654.F	TGGTGCTGTGTTCATGGAT	112
		MSM0654.R	CAGCTCCAGCCCCATAATA	
MSM0848	ribofuranosylaminobenzene 5'-phosphate synthase, RfaS	MSM0848.F	CCAGCATTTGGCCATTCAA	146
		MSM0848.R	GGTCCAAAAGAGCTCATACTACAC	
MSM0888	glutamate dehydrogenase, GhdA	MSM0888.F	TGCTCTTCCATGTGCAACTC	100
		MSM0888.R	TAGGCATGTTTGCACCTCA	
MSM0986	conjugated bile salt acid hydrolase	MSM0986.F	TTATAGTCCGGGAATGGTTTC	109
		MSM0986.R	TTTCAGAATCTCCGAAACCG	
MSM0988	phosphoenolpyruvate synthase, PpsA	MSM0988.F	CAAGCTCATTATGGCGAACCA	110
		MSM0988.R	GCTACGCCATTGTCATCACCTA	
MSM0991	bicarbonate ABC transporter, substrate-binding component, Btc	MSM0991.F	TTGCACGTGAAGACGGTTATG	111
		MSM0991.R	CCTGACCCTGTTTAACTGCATCAT	
MSM0995	adhesin-like protein	MSM0995.F	GTGATGCATTAGAAGAGGCTCCTT	113
		MSM0995.R	ATCTCCGCAGGCATGATAGTT	
MSM1014	MtrE	MSM1014.F	AACAAAGCGGCTTCTGGTGAA	127
		MSM1014.R	CGACACAAGATCCCATTGCAAT	
MSM1078	sodium:bile transporter	MSM1078.F	GCTGTTTCTGGAAGTCCGCTTA	105
		MSM1078.R	CCTAGAAGCGGTGTCCAGATAAAGT	
MSM1112	adhesin-like protein	MSM1112.F	GCTAAATTCAGTACAGCACAGGA	114
		MSM1112.R	ACCCAAATCAGCTACACCGTCTT	
MSM1113	adhesin-like protein	MSM1113.F	TCGCATAGGACTTGGATTAGGA	107
		MSM1113.R	CAACAGCCCTTCAATTAACCT	
MSM1198	O-sialoglycoprotein endopeptidase	MSM1198.F	GCTGCCGAACATCATGGAT	162
		MSM1198.R	TAGTGCCAGTGTCTTGCAGAA	
MSM1282	adhesin-like protein	MSM1282.F	GCGGCATTATCTTTTCAGCTG	183
		MSM1282.R	AGCAGGTACATCCCCCTCCAGTA	
MSM1305	adhesin-like protein	MSM1305.F	ACATTAGACGGTCAAGGCAAACC	131
		MSM1305.R	TATTCACCGGCCATCAGTCTGATT	
MSM1381	alcohol dehydrogenase, Adh	MSM1381.F	AAGAAGTCCCGGAATGTGG	102
		MSM1381.R	TCCGATAGCTCTTCCCATA	
MSM1399	adhesin-like protein	MSM1399.F	CTGCAACTACTTCTGGAGGATCA	117
		MSM1399.R	CCATCACTAGAACCAGAGTCACTTG	
MSM1418	glutamine synthetase, GlnA	MSM1418.F	GACGGAAAACCATTTGTTGG	141
		MSM1418.R	GCATTTGGGTATCCTTCATCG	
MSM1534	adhesin-like protein	MSM1534.F	AATCCACATCTGATGCAGCTGTC	239
		MSM1534.R	TCCCATGTCCGGAGTTACAACA	
MSM1539	sialic acid synthase, NeuB	MSM1539.F	TGGCAAAATCTGGTGAGAT	116
		MSM1539.R	CCTGACCCTCCCATATTGTTT	