

Table 2 | Continued

Gene ID	Predicted function	Gene	Replicate 1	Replicate 2
METTOv1_370002	NAD-linked formate dehydrogenase, subunit D	<i>fdsD</i>	368	312
METTOv1_220028	NAD-linked formate dehydrogenase, subunit A	<i>fdhA2</i>	9	7
C1-ASSIMILATION:SERINE CYCLE				
METTOv1_130002	Phosphoenolpyruvate carboxylase	<i>ppc2</i>	104	89
METTOv1_400011	Glycerate kinase	<i>gckA</i>	229	211
METTOv1_400012	Conserved protein of unknown function	<i>orf1</i>	626	708
METTOv1_400013	Maly-CoA lyase/beta-methylmaly-CoA lyase	<i>mclA</i>	1713	1615
METTOv1_400014	Phosphoenolpyruvate carboxylase	<i>ppc1</i>	141	139
METTOv1_400015	Malate thiokinase, small subunit	<i>mtkB</i>	516	485
METTOv1_400016	Malate thiokinase, large subunit	<i>mtkA</i>	534	455
METTOv1_400017	Methenyltetrahydrofolate cyclohydrolase	<i>fch</i>	355	281
METTOv1_400018	NADP-dependent methylenetetrahydrofolate dehydrogenase	<i>mtdA</i>	281	243
METTOv1_400019	2-Hydroxyacid dehydrogenase NAD-binding	<i>hprA</i>	375	348
METTOv1_400020	Serine-glyoxylate transaminase	<i>sga</i>	1840	1969
METTOv1_400021	Formate-tetrahydrofolate ligase	<i>ftfL</i>	448	412
METTOv1_670019	Serine hydroxymethyltransferase	<i>glyA</i>	1342	1197
METTOv1_20135	Enolase	<i>eno</i>	432	408
C1-ASSIMILATION:EMP PATHWAY AND PHB CYCLE				
METTOv1_100079	Acetyl-CoA acetyltransferase	<i>phaA</i>	597	561
METTOv1_100080	Acetoacetyl-CoA reductase	<i>phaB</i>	1160	1060
METTOv1_50006	Crotonase	<i>croR</i>	235	275
METTOv1_110068	Crotonyl-CoA reductase	<i>ccr</i>	577	523
METTOv1_60013	Ethylmalonyl-CoA mutase	<i>ecm</i>	187	162
METTOv1_510010	Methylsuccinyl-CoA dehydrogenase	<i>ibd</i>	309	295
METTOv1_110043	Mesaconyl-CoA hydratase	<i>meaC</i>	341	317
METTOv1_30129	Methylmalonyl-CoA epimerase	<i>epm</i>	428	394
METTOv1_220010	Maly-CoA lyase/beta-Methylmaly-CoA lyase	<i>mclA2</i>	137	135
METTOv1_200020	Acetyl/propionyl-CoA carboxylase	<i>ppcA</i>	353	310
METTOv1_220035	Propionyl-CoA carboxylase	<i>ppcB</i>	472	455
METTOv1_50067	Methylmalonyl-CoA mutase, large subunit	<i>mcmA</i>	201	188
METTOv1_10062	Methylmalonyl-CoA mutase small subunit B	<i>mcmB</i>	144	144
METTOv1_270063	3-Hydroxybutyrate dehydrogenase	<i>bdhA</i>	235	232
METTOv1_130047	Poly-beta-hydroxybutyrate polymerase	<i>phaC</i>	30	30
METTOv1_200042	Acetoacetate decarboxylase	<i>aad</i>	123	114
METTOv1_200022	Acetoacetyl-coenzyme A synthetase	<i>aas</i>	116	114
METTOv1_630008	Polyhydroxyalkanoate depolymerase	<i>phaZ</i>	237	263
C1-ASSIMILATION: TCA CYCLE				
METTOv1_360040	Malate dehydrogenase	<i>mdh</i>	539	473
METTOv1_360041	Succinyl-CoA synthetase, beta subunit	<i>sucC</i>	660	631
METTOv1_510003	Succinyl-CoA synthetase, alpha subunit	<i>sucD</i>	1198	1135
METTOv1_510002	2-Oxoglutarate dehydrogenase E1	<i>sucA</i>	236	237
METTOv1_370050	2-Oxoglutarate dehydrogenase E2	<i>sucB</i>	191	181
METTOv1_80046	Succinate:ubiquinone oxidoreductase	<i>sdhB</i>	327	348
METTOv1_80046	Succinate:ubiquinone oxidoreductase	<i>sdhA</i>	311	299
METTOv1_80051	Succinate:ubiquinone oxidoreductase, cytochrome b556 subunit	<i>sdhC</i>	318	329
METTOv1_40061	Fumarate hydratase	<i>fum</i>	196	185
METTOv1_1080004	2-Oxoacid ferredoxin oxidoreductase	<i>ofr</i>	79	77
INTERMEDIARY METABOLISM AND ANAPLEROTIC CO₂-FIXATION				
METTOv1_70038	Phosphoenolpyruvate synthase	<i>pps</i>	28	26
METTOv1_120036	Pyruvate carboxylase	<i>pcx</i>	145	140
METTOv1_830002	Acetyl-coenzyme A carboxylase subunit beta	<i>accD</i>	246	228
METTOv1_380021	Acetyl-CoA carboxylase subunit alpha	<i>accA</i>	211	204

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