**Table 2 | Continued**

| Gene ID | Predicted function | Gene | Replicate 1 | Replicate 2 |
|---|---|---|---|---|
| METTOv1_370002 | NAD-linked formate dehydrogenase, subunit D | *fdsD* | 368 | 312 |
| METTOv1_220028 | NAD-linked formate dehydrogenase, subunit A | *fdhA2* | 9 | 7 |
| **C1-ASSIMILATION:SERINE CYCLE** | | | | |
| METTOv1_130002 | Phosphoenolpyruvate carboxylase | *ppc2* | 104 | 89 |
| METTOv1_400011 | Glycerate kinase | *gckA* | 229 | 211 |
| METTOv1_400012 | Conserved protein of unknown function | *orf1* | 626 | 708 |
| METTOv1_400013 | Malyl-CoA lyase/beta-methylmalyl-CoA lyase | *mclA* | 1713 | 1615 |
| METTOv1_400014 | Phosphoenolpyruvate carboxylase | *ppc1* | 141 | 139 |
| METTOv1_400015 | Malate thiokinase, small subunit | *mtkB* | 516 | 485 |
| METTOv1_400016 | Malate thiokinase, large subunit | *mtkA* | 534 | 455 |
| METTOv1_400017 | Methenyltetrahydrofolate cyclohydrolase | *fch* | 355 | 281 |
| METTOv1_400018 | NADP-dependent methylenetetrahydrofolate dehydrogenase | *mtdA* | 281 | 243 |
| METTOv1_400019 | 2-Hydroxyacid dehydrogenase NAD-binding | *hprA* | 375 | 348 |
| METTOv1_400020 | Serine-glyoxylate transaminase | *sga* | 1840 | 1969 |
| METTOv1_400021 | Formate-tetrahydrofolate ligase | *ftfL* | 448 | 412 |
| METTOv1_670019 | Serine hydroxymethyltransferase | *glyA* | 1342 | 1197 |
| METTOv1_20135 | Enolase | *eno* | 432 | 408 |
| **C1-ASSIMILATION:EMP PATHWAY AND PHB CYCLE** | | | | |
| METTOv1_100079 | Acetyl-CoA acetyltransferase | *phaA* | 597 | 561 |
| METTOv1_100080 | Acetoacetyl-CoA reductase | *phaB* | 1160 | 1060 |
| METTOv1_50006 | Crotonase | *croR* | 235 | 275 |
| METTOv1_110068 | Crotonyl-CoA reductase | *ccr* | 577 | 523 |
| METTOv1_60013 | Ethylmalonyl-CoA mutase | *ecm* | 187 | 162 |
| METTOv1_510010 | Methylsuccinyl-CoA dehydrogenase | *ibd* | 309 | 295 |
| METTOv1_110043 | Mesaconyl-CoA hydratase | *meaC* | 341 | 317 |
| METTOv1_30129 | Methylmalonyl-CoA epimerase | *epm* | 428 | 394 |
| METTOv1_220010 | Malyl-CoA lyase/beta-Methylmalyl-CoA lyase | *mclA2* | 137 | 135 |
| METTOv1_200020 | Acetyl/propionyl-CoA carboxylase | *ppcA* | 353 | 310 |
| METTOv1_220035 | Propionyl-CoA carboxylase | *ppcB* | 472 | 455 |
| METTOv1_50067 | Methylmalonyl-CoA mutase, large subunit | *mcmA* | 201 | 188 |
| METTOv1_10062 | Methylmalonyl-CoA mutase small subunit B | *mcmB* | 144 | 144 |
| METTOv1_270063 | 3-Hydroxybutyrate dehydrogenase | *bdhA* | 235 | 232 |
| METTOv1_130047 | Poly-beta-hydroxybutyrate polymerase | *phaC* | 30 | 30 |
| METTOv1_200042 | Acetoacetate decarboxylase | *aad* | 123 | 114 |
| METTOv1_200022 | Acetoacetyl-coenzyme A synthetase | *aas* | 116 | 114 |
| METTOv1_630008 | Polyhydroxyalkanoate depolymerase | *phaZ* | 237 | 263 |
| **C1-ASSIMILATION:TCA CYCLE** | | | | |
| METTOv1_360040 | Malate dehydrogenase | *mdh* | 539 | 473 |
| METTOv1_360041 | Succinyl-CoA synthetase, beta subunit | *sucC* | 660 | 631 |
| METTOv1_510003 | Succinyl-CoA synthetase, alpha subunit | *sucD* | 1198 | 1135 |
| METTOv1_510002 | 2-Oxoglutarate dehydrogenase E1 | *sucA* | 236 | 237 |
| METTOv1_370050 | 2-Oxoglutarate dehydrogenase E2 | *sucB* | 191 | 181 |
| METTOv1_80046 | Succinate:ubiquinone oxidoreductase | *sdhB* | 327 | 348 |
| METTOv1_80046 | Succinate:ubiquinone oxidoreductase | *sdhA* | 311 | 299 |
| METTOv1_80051 | Succinate:ubiquinone oxidoreductase, cytochrome b556 subunit | *sdhC* | 318 | 329 |
| METTOv1_40061 | Fumarate hydratase | *fum* | 196 | 185 |
| METTOv1_1080004 | 2-Oxoacid ferredoxin oxidoreductase | *ofr* | 79 | 77 |
| **INTERMEDIARY METABOLISM AND ANAPLEROTIC $CO_2$-FIXATION** | | | | |
| METTOv1_70038 | Phosphoenolpyruvate synthase | *pps* | 28 | 26 |
| METTOv1_120036 | Pyruvate carboxylase | *pcx* | 145 | 140 |
| METTOv1_830002 | Acetyl-coenzyme A carboxylase subunit beta | *accD* | 246 | 228 |
| METTOv1_380021 | Acetyl-CoA carboxylase subunit alpha | *accA* | 211 | 204 |

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