

Table 2 | Continued

Gene ID	Predicted function	Gene	Replicate 1	Replicate 2
METTOv1_130018	Acetyl-CoA carboxylase, biotin carboxyl carrier protein	<i>accB</i>	307	276
METTOv1_150014	Pyruvate kinase	<i>pyk1</i>	245	224
METTOv1_340039	Pyruvate dehydrogenase (acetyl-transferring) E1	<i>pdhA</i>	181	175
METTOv1_340041	Pyruvate dehydrogenase subunit beta	<i>pdhB</i>	160	158
METTOv1_340042	Pyruvate dehydrogenase	<i>pdhC</i>	101	106
METTOv1_350050	Pyruvate phosphate dikinase	<i>pdk</i>	50	52
METTOv1_80025	Malic enzyme	<i>mae</i>	107	106
METTOv1_680013	Phosphoglycerate mutase	<i>gpmA</i>	136	135
METTOv1_100061	Phosphoglycerate mutase (modular protein)	<i>pgm</i>	101	99
METTOv1_10180	Phosphoglycerate mutase (modular protein)	<i>pgm</i>	72	65
METTOv1_280049	Phosphoglycerate kinase	<i>pgk</i>	199	208
METTOv1_280047	Glyceraldehyde-3-phosphate dehydrogenase	<i>gpd</i>	391	407
METTOv1_620016	Ribokinase	<i>rik</i>	140	144
METTOv1_620017	Phosphoribulokinase	<i>prk</i>	173	164
METTOv1_620018	Transketolase	<i>tkl</i>	147	123
METTOv1_620019	Fructose-bisphosphate aldolase, class II	<i>fba</i>	427	461
METTOv1_220030	6-Phosphofructokinase	<i>pfk</i>	243	239
METTOv1_200031	Fructose 1,6-bisphosphatase II	<i>glp</i>	68	56
METTOv1_550029	Glucose-6-phosphate isomerase	<i>pgi</i>	88	84
METTOv1_620022	Ribulose-phosphate 3-epimerase	<i>rpe</i>	51	53
NITROGEN, Cu, Fe METABOLISM				
METTOv1_310019	Nitrate transporter component	<i>nrtA</i>	151	154
METTOv1_310020	Nitrite reductase (NAD(P)H), large subunit	<i>nasB</i>	1762	1562
METTOv1_310021	Nitrite reductase (NAD(P)H), small subunit	<i>nasD</i>	726	610
METTOv1_310022	Nitrate reductase, large subunit	<i>nasA</i>	646	597
METTOv1_130049	Ammonium transporter	<i>amtB</i>	2029	1766
METTOv1_300058	Glutamate synthase large subunit (NADPH/GOGAT)	<i>gltB</i>	199	183
METTOv1_300033	Glutamate synthase small subunit (NADPH/GOGAT)	<i>gltD</i>	431	401
METTOv1_190023	Glutamate dehydrogenase	<i>gdh</i>	2	2
METTOv1_200046	Glutamate-ammonia ligase	<i>glnS</i>	1413	1375
METTOv1_200047	Nitrogen regulatory protein P-II	<i>glnK</i>	2400	2277
METTOv1_200048	Glutamine synthetase, type I	<i>glnA</i>	2452	2321
METTOv1_280018	Alanine dehydrogenase	<i>aldA</i>	29	36
METTOv1_80043	Phosphoserine aminotransferase	<i>serC</i>	415	364
METTOv1_560023	Cytochrome c ^Q alpha	<i>cycA</i>	336	370
METTOv1_230076	Putative oxygenase		6	8
METTOv1_230077	Hydroxylamine reductase	<i>hcp</i>	21	16
METTOv1_230078	Putative transcriptional regulator	<i>nsrR</i>	38	35
METTOv1_730005	Putative FecR iron sensor protein	<i>fecR</i>	48	58
METTOv1_730006	Putative TonB-dependent receptor protein	<i>tonB</i>	382	383
METTOv1_CDS4222756D	Methanobactin precursor	<i>Mb</i>	1439	2177
METTOv1_730007	Putative lyase		306	384
METTOv1_730008	Conserved protein of unknown function	<i>hp</i>	170	175
METTOv1_730009	Conserved protein of unknown function	<i>hp</i>	116	143
METTOv1_660011	L-Omithine 5-monooxygenase	<i>pvdA1</i>	1410	1450
METTOv1_760004	Putative hydroxy-L-ornithine formylase	<i>pvdF</i>	2255	2676
METTOv1_760006	L-Omithine 5-monooxygenase	<i>pvdA2</i>	979	1116
METTOv1_760007	Diaminobutyrate-2-oxoglutarate aminotransferase	<i>pvdH</i>	720	770
METTOv1_760008	Sigma-24 (FecI-like)	<i>pvdS</i>	1260	1522
METTOv1_760009	Putative pyoverdine ABC export system, permease	<i>pvdE</i>	532	500
METTOv1_760010	TonB-dependent siderophore receptor	<i>fpvA</i>	2197	2174
METTOv1_760011	FecR-like protein	<i>fecR</i>	330	321

(Continued)