Table 2 | Gene expression profile in methane-grown cells of *M. trichosporium* OB3b.

Gene ID	Predicted function	Gene	Replicate 1	Replicate 2
METHANE AND METHANOL OXIDATION				
METTOv1_1270003	Particulate methane monooxygenase subunit C	*pmoC*	123026	127241
METTOv1_1270002	Particulate methane monooxygenase subunit A	*pmoA*	37102	31813
METTOv1_1270001	Particulate methane monooxygenase subunit B	*pmoB*	27371	22917
METTOv1_310040	Particulate methane monooxygenase subunit C2	*pmoC2*	532	492
METTOv1_50081	Soluble methane monooxygenase alpha subunit	*mmoX*	9	8
METTOv1_50082	Soluble methane monooxygenase beta subunit	*mmoY*	13	9
METTOv1_50084	Soluble methane monooxygenase gamma subunit	*mmoZ*	20	19
METTOv1_240014	PQQ-dependent methanol dehydrogenase	*mxaF*	15313	13760
METTOv1_240011	PQQ-dependent methanol dehydrogenase	*mxaI*	24552	28474
METTOv1_240012	Cytochrome *c* class I	*mxaG*	5712	6117
METTOv1_240013	Extracellular solute-binding protein family 3	*mxaJ*	1942	1838
METTOv1_240001	Putative methanol utilization control sensor protein	*mxaY*	36	41
METTOv1_240002	Putative two-component response regulator	*mxaB*	303	317
METTOv1_240003	MxaH protein, involved in methanol oxidation	*mxaH*	399	391
METTOv1_240004	MxaD protein, involved in methanol oxidation	*mxaD*	1137	1077
METTOv1_240005	von Willebrand factor type A, involved in methanol oxidation	*mxaL*	191	201
METTOv1_240006	Protein of unknown function, involved in methanol oxidation	*mxaK*	124	132
METTOv1_240007	von Willebrand factor type A, involved in methanol oxidation	*mxaC*	144	141
METTOv1_240008	MxaA protein, involved in methanol oxidation	*mxaA*	137	127
METTOv1_240009	MxaS protein, involved in methanol oxidation	*mxaS*	202	167
METTOv1_240010	ATPase, involved in methanol oxidation	*mxaR*	563	538
METTOv1_110056	Coenzyme PQQ biosynthesis protein A	*pqqA*	11857	13927
METTOv1_160001	Coenzyme PQQ biosynthesis protein E	*pqqE*	166	161
METTOv1_160002	Coenzyme PQQ biosynthesis protein PqqC/D	*pqqC/D*	372	344
METTOv1_160003	Coenzyme PQQ biosynthesis protein B	*pqqB*	306	313
METTOv1_20046	Coenzyme PQQ biosynthesis protein F	*pqqF*	183	185
METTOv1_20047	Coenzyme PQQ biosynthesis protein G	*pqqG*	157	142
METTOv1_610028	Aldehyde dehydrogenase	*aldh*	37	37
METTOv1_290006	Aldehyde oxidase	*aor*	45	38
METTOv1_100046	Aldehyde dehydrogenase	*aldh-F7*	7	9
FORMALDEHYDE OXIDATION				
METTOv1_40010	Methenyltetrahydromethanopterin cyclohydrolase	*mch*	393	312
METTOv1_40011	Tetrahydromethanopterin-linked C1 transfer pathway protein. Orf5	*orf5*	128	111
METTOv1_40012	Tetrahydromethanopterin-linked C1 transfer pathway protein, Orf7	*orf7*	73	72
METTOv1_40013	Formaldehyde activating enzyme	*fae1*	24353	24787
METTOv1_40014	Formaldehyde activating enzyme	*fae1-2*	4024	3676
METTOv1_840013	Formaldehyde activating enzyme homolog	*fae2*	535	581
METTOv1_40015	Tetrahydromethanopterin-linked C1 transfer pathway protein	*orf17*	38	45
METTOv1_110058	Tetrahydromethanopterin formyltransferase, subunit C	*fhcC*	535	453
METTOv1_110059	Tetrahydromethanopterin formyltransferase, subunit D	*fhcD*	496	470
METTOv1_110060	Tetrahydromethanopterin formyltransferase, subunit A	*fhcA*	591	546
METTOv1_110061	Tetrahydromethanopterin formyltransferase, subunit B	*fhcB*	620	570
METTOv1_560001	Tetrahydromethanopterin -linked C1 transfer pathway protein	*orf9*	172	167
METTOv1_560002	Methylenetetrahydrofolate dehydrogenase (NAD)	*mtdB*	688	607
METTOv1_440045	Ribofuranosylaminobenzene 5^{0}-phosphate synthase	*mptG*	94	80
FORMATE OXIDATION				
METTOv1_630016	Transcriptional regulator, LysR family	*fdsR*	52	39
METTOv1_630017	NAD-linked formate dehydrogenase, subunit G	*fdsG*	672	608
METTOv1_630018	NAD-linked formate dehydrogenase, subunit B	*fdsB*	585	531
METTOv1_630019	NAD-linked formate dehydrogenase, subunit A	*fdsA*	593	554
METTOv1_370001	Formate dehydrogenase family accessory protein	*fdsC*	210	199

(Continued)