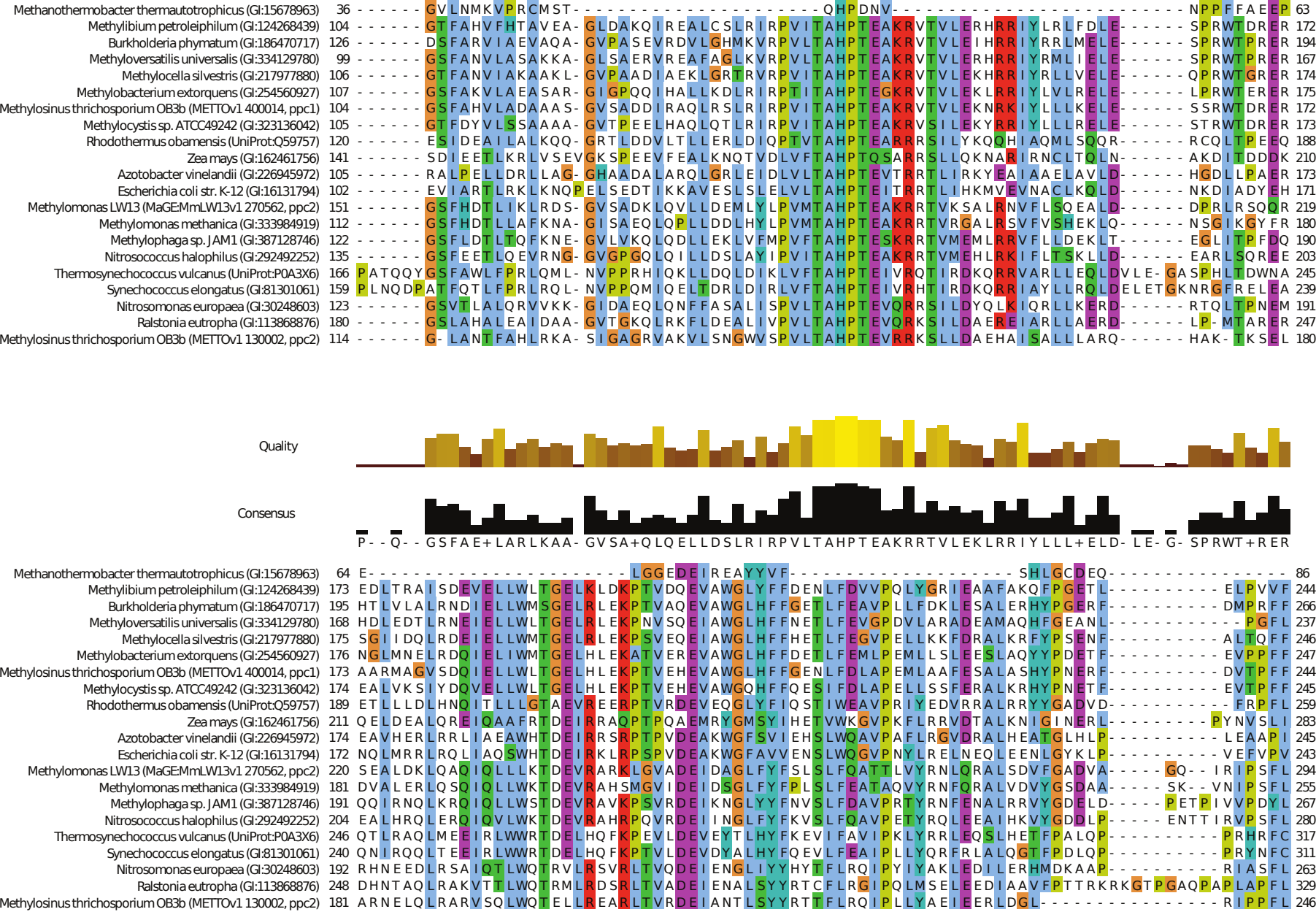
Methanothermobacter thermautotrophicus (GI:15678963) 36 GVLNMKVPRCMST QHPDNV NPPFFAEEP 63
Methylibium petroleiphilum (GI:124268439) 104 GTFAHVFHTAVEA GLDAKQIREALCSLRIRPVITAHPTEAKRVTVLERHRRIYLRLFDLE SPRWTDRER 172
Burkholderia phymatum (GI:186470717) 126 DSFARVIAEVAQA GVPASEVRDVLGHMKVRPVLTAHPTEAKRVTVLEIHRRIYRRLMELE SPRWTPRER 194
Methyloversatilis universalis (GI:334129780) 99 GSFANVLASAKKA GLSAERVREAFAGLKVRPVLTAHPTEAKRVTVLERHRRIYRMLIELE SPRWTPRER 167
Methylocella silvestris (GI:217977880) 106 GTFANVIAKAAKL GVPAADIAEKLGRTRVRPVITAHPTEAKRVTVLEKHRRIYRLLVELE QPRWTGRER 174
Methylobacterium extorquens (GI:254560927) 107 GSFAKVLAEASAR GIGPQQIHALLKDLRIRPTITAHPTEGKRVTVLEKLRRIYLVLRELE LPRWTERER 175
Methylosinus trichosporium OB3b (METTOv1 400014, ppc1) 104 GSFAHVLADAAAS GVSADDIRAQLRSLRIRPVITAHPTEAKRVTVLEKNRKIYLLLKELE SSRWTDRER 172
Methylocystis sp. ATCC49242 (GI:323136042) 105 GTFDYVLSSAAAA GVTPEELHAQLQTLRIRPVITAHPTEAKRVSILEKYRRIYLLLRELE STRWTDRER 173
Rhodothermus obamensis (UniProt:Q59757) 120 ESIDEAILALKQQ GRTLDDVLTLLERLDIQPTVTAHPTEARRRSILYKQQHIAQMLSQQR RCQLTPEEQ 188
Zea mays (GI:162461756) 141 SDIEETLKRLVSEV GKSPEEVFEALKNQTVDLVFTAHPTQSARRSLLQKNARIRNCLTQLN AKDITDDDK 210
Azotobacter vinelandii (GI:226945972) 105 RALPELLDRLLAG GHAADALARQLGRLEIDLVLTAHPTEVTRRTLIRKYEAIAAELAVLD HGDLLPAER 173
Escherichia coli str. K-12 (GI:16131794) 102 EVIARTLRKLKNQ PELSEDTIKKAVESLSLELVLTAHPTEITRRTLIHKMVEVNACLKQLD NKDIADYEH 171
Methylomonas LW13 (MaGE:MmLW13v1 270562, ppc2) 151 GSFHDTLIKLRDS GVSADKLQVLLDEMLYLPVMTAHPTEAKRRTVKSALRNVFLSQEALD DPRLRSQQR 219
Methylomonas methanica (GI:333984919) 112 GSFHDTLLAFKNA GISAEQLQPLLDDLHYLPVMTAHPTEAKRRTVRGALRSVFVSHEKLQ NSGIKGYFR 180
Methylophaga sp. JAM1 (GI:387128746) 122 GSFLDTLTQFKNE GVLVKQLQDLLEKLVFMPVFTAHPTESKRRTVMEMLRRVFLLDEKLT EGLITPFDQ 190
Nitrosococcus halophilus (GI:292492252) 135 GSFEETLQEVRNG GVGPGQLQILLDSLAYIPVITAHPTEAKRRTVMEHLRKIFLTSKLLD EARLSQREE 203
Thermosynechococcus vulcanus (UniProt:P0A3X6) 166 PATQQYGSFAWLFPRLQML NVPPRHIQKLLDQLDIKLVFTAHPTEIVRQTIRDKQRRVARLLEQLDVLE GASPHLTDWNA 245
Synechococcus elongatus (GI:81301061) 159 PLNQDPATFQTLFPRLRQL NVPPQMIQELTDRLDIRLVFTAHPTEIVRHTIRDKQRRIAYLLRQLDELET GKNRGFRELEA 239
Nitrosomonas europaea (GI:30248603) 123 GSVTLALQRVVKK GIDAEQLQNFFASALISPVLTAHPTEVQRRSILDYQLKIQRLLKERD RTQLTPNEM 191
Ralstonia eutropha (GI:113868876) 180 GSLAHALEAIDAA GVTGKQLRKFLDEALIVPVLTAHPTEVQRKSILDAEREIARLLAERD LP-MTARER 247
Methylosinus trichosporium OB3b (METTOv1 130002, ppc2) 114 G-LANTFAHLRKA SIGAGRVAKVLSNGWVSPVLTAHPTEVRRKSLLDAEHAISALLLARQ HAK-TKSEL 180
Quality
Consensus
P--Q--GSFAE+LARLKAA-GVSA+QLQELLDSLRIRPVLTAHPTEAKRRTVLEKLRRIYLLL+ELD-LE-G-SPRWT+RER
Methanothermobacter thermautotrophicus (GI:15678963) 64 E LGGEDEIREAYYVF SHLGCDEQ 86
Methylibium petroleiphilum (GI:124268439) 173 EDLTRAISDEVELLWLTGELKLDKPTVDQEVAWGLYFFDENLFDVVPQLYGRIEAAFAKQFPGETL ELPVVF 244
Burkholderia phymatum (GI:186470717) 195 HTLVLALRNDIELLWMSGELRLEKPTVAQEVAWGLHFFGETLFEAVPLLFDKLESALERHYPGERF DMPRFF 266
Methyloversatilis universalis (GI:334129780) 168 HDLEDTLRNEIELLWLTGELRLEKPNVSQEIAWGLHFFNETLFEVGPDVLARADEAMAQHFGEANL PGFL 237
Methylocella silvestris (GI:217977880) 175 SGIIDQLRDEIELLWMTGELRLEKPSVEQEIAWGLHFFHETLFEGVPELLKKFDRALKRFYPSENF ALTQFF 246
Methylobacterium extorquens (GI:254560927) 176 NGLMNELRDQIELIWMTGELHLEKATVERELAWGLHFFDETLFEMLPEMLLSLEESLAQYYPDETF EVPPFF 247
Methylosinus trichosporium OB3b (METTOv1 400014, ppc1) 173 AARMAGVSDQIELLWLTGELHLEKPTVEHEVAWGLHFFGENLFDLAPEMLAAFESALASHYPNERF DVTPFF 244
Methylocystis sp. ATCC49242 (GI:323136042) 174 EALVKSIYDQVELLWLTGELHLEKPTVEHEVAWGQHFFQESIFDLAPELLSSFERALKRHYPNETF EVTPFF 245
Rhodothermus obamensis (UniProt:Q59757) 189 ETLLLDLHNQITLLLGTAEVREERPTVRDEVEQGLYFIQSTIWEAVPRIYEDVRRALRRYYGADVD FRPFL 259
Zea mays (GI:162461756) 211 QELDEALQREIQAAFRTDEIRRAQPTPQAEMRYGMSYIHETVWKGVPKFLRRVDTALKNIGINERL PYNVSLI 283
Azotobacter vinelandii (GI:226945972) 174 EAVHERLRRLIAEAWHTDEIRRSRPTPVDEAKWGFSVIEHSLWQAVPAFLRGVDRALHEATGLHLP LEAAPI 245
Escherichia coli str. K-12 (GI:16131794) 172 NQLMRRLRQLIAQSWHTDEIRKLRPSPVDEAKWGFAVVENSLWQGVPNYLRELNEQLEENLGYKLP VEFVPV 243
Methylomonas LW13 (MaGE:MmLW13v1 270562, ppc2) 220 SEALDKLQAQIQLLLKTDEVRARKLGVADEIDAGLFYFSLSLFQATTLVYRNLQRALSDVFGADVA GQ IRIPSFL 294
Methylomonas methanica (GI:333984919) 181 DVALERLQSQIQLLWKTDEVRAHSMGVIDEIDSGLFYFPLSLFEATAQVYRNFQRALVDVYGSDAA SK VNIPSFL 255
Methylophaga sp. JAM1 (GI:387128746) 191 QQIRNQLKRQIQLLWSTDEVRAVKPSVRDEIKNGLYYFNVSLFDAVPRTYRNFENALRRVYGDELD PETPIVVPDYL 267
Nitrosococcus halophilus (GI:292492252) 204 EALHRQLERQIQVLWKTDEVRAHRPQVRDEIINGLFYFKVSLFQAVPETYRQLEEAIHKVYGDDLP ENTTIRVPSFL 280
Thermosynechococcus vulcanus (UniProt:P0A3X6) 246 QTLRAQLMEEIRLWWRTDELHQFKPEVLDEVEYTLHYFKEVIFAVIPKLYRRLEQSLHETFPALQP PRHRFC 317
Synechococcus elongatus (GI:81301061) 240 QNIRQQLTEEIRLWWRTDELHQFKPTVLDEVDYALHYFQEVLFEAIPLLYQRFRLALQGTFPDLQP PRYNFC 311
Nitrosomonas europaea (GI:30248603) 192 RHNEEDLRSAIQTLWQTRVLRSVRLTVQDEIENGLIYYHYTFLRQIPYIYAKLEDILERHMDKAAP RIASFL 263
Ralstonia eutropha (GI:113868876) 248 DHNTAQLRAKVTTLWQTRMLRDSRLTVADEIENALSYYRTCFLRGIPQLMSELEEDIAAVFPTTRKRKGTPGAQPAPLAPFL 329
Methylosinus trichosporium OB3b (METTOv1 130002, ppc2) 181 ARNELQLRARVSQLWQTELLREARLTVRDEIANTLSYYRTTFLRQIPLLYAEIEERLDGL RIPPFL 246
Quality
Consensus
EAL+EQLRDQIELLWLTDELRLEKPTVEDEIAWGLHYF+ETLFEAVPELYRRLE+ALARHY+DE+P G-TPIRVPPFL