Supplementary material

Extracellular electron transfer via outer membrane cytochromes in a methanotrophic bacterium *Methylococcus capsulatus* (Bath)

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Fig. S1, Table S1-S2

**Figure S1.** Production of Fe(II) via reduction of ferrihydrite by the −Cu and +Cu cells of *M. capsuatus* (Bath) in the presence or absence of methanol. Data are presented as means of triplicate experiments, and error bars represent standard deviation.

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**Table S1.** Primers used for qRT-PCR.

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| Primer name | Target gene | Sequence (5′ to 3′) |
| MmoX\_129F | *mmoX* | GAC CAA GTA CGC CAC CAA GT |
| MmoX\_332R | *mmoX* | TCC AGG AAG TTC GAA ACC AC |
| PmoA\_338F | *pmoA* | ACT TCC CGA TCA ACT TCG TG |
| PmoA\_534R | *pmoA* | CAT CAG CAT GCC GTT GTA TT |
| MCA0421\_1850F | MCA0421 | TCT ACG ACG CCT ATC CGT TC |
| MCA0421\_2041R | MCA0421 | TTG ATG TCG AAA CCC TCC TC |
| MopB\_57F | *mopB* | ACA GGC CGA AGA GAC TTT CA |
| MopB\_246R | *mopB* | GGT GGT GTT GCC TTC GTA AT |

**Table S2.** Primers used for construction of the mutant strain.

|  |  |
| --- | --- |
| Primer name | Sequence (5′ to 3′) |
| MCA0421\_upstF | CGA ATT CCT GCA GCC CGG GGG ATC GGA ACA GGT CGG GAA GAA TG |
| MCA0421\_upstR | GGT CTG GAG ATG TCG TAG ATG TCG ATG G |
| MCA0421\_dwstF | ATC TAC GAC ATC TCC AGA CCA GCT TCA TC |
| MCA0421\_dwstR | CGG CCG CTC TAG AAC TAG TGG ATC CGG GAT AAG GAT TGG CGT TC |
| MCA0421\_SeqF | GTG AAC AGG ATG AAC AGC AGG ATG CCG ACG |
| MCA0421\_SeqR | GTT GAG GGT GTT GTA AGG AAT GAG CGG ATT G |