# Additional file 7. Bacterial strains and vectors used

<table>
<thead>
<tr>
<th>Strain or plasmid</th>
<th>Relevant characteristics</th>
<th>Source or reference</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>E. coli DH5a</strong></td>
<td>F' endA1 hsdr17(rK- mK') supE44 thi-1 λ- gyrA96 relA1 Δ(lacZYA argF) U169 (Φ80 lacZJM15) recA</td>
<td>Roche Diagnostics</td>
</tr>
<tr>
<td><strong>E. coli SG13009(pREP4)</strong></td>
<td>F' his pyrD Δlon-100 rpsL (pREP4)</td>
<td>Qiagen</td>
</tr>
<tr>
<td><strong>E. coli BL21(DE3)</strong></td>
<td>F' ompT hsdS (rB- mB-) gal dcm (DE3)</td>
<td>Novagen</td>
</tr>
<tr>
<td><strong>C. cellulositicum H10</strong></td>
<td>Wild-type, ATCC35519 DSM 5812</td>
<td>DSMZ</td>
</tr>
<tr>
<td><strong>C. cellulositicum MTLcuaD</strong></td>
<td>ATCC35319, cuaD::intron, Erm®</td>
<td>This study</td>
</tr>
<tr>
<td><strong>C. cellulositicum MTLcuaD adapted</strong></td>
<td>ATCC35319 derivative, cuaD::intron, Erm®, able to grow on cellulose/cellulose</td>
<td>This study</td>
</tr>
<tr>
<td><strong>pET22b(+) and pET28a(+)</strong></td>
<td>E. coli expression vector, Amp® and Kan® respectively</td>
<td>Novagen</td>
</tr>
<tr>
<td><strong>pETcuaD</strong></td>
<td>pET22b+ derivative carrying the Ndel-Xhol fragment encoding mature CuaD</td>
<td>This study</td>
</tr>
<tr>
<td><strong>pETcuaA</strong></td>
<td>pET22b+ derivative carrying the Ndel-Xhol fragment encoding mature CuaA</td>
<td>This study</td>
</tr>
<tr>
<td><strong>pETcplA</strong></td>
<td>pET28a+ derivative carrying the Ndel-Xhol fragment encoding CbpA</td>
<td>This study</td>
</tr>
<tr>
<td><strong>pBAD24</strong></td>
<td>E. coli expression vector, Kan®</td>
<td>(46) gift M. Ansaldi</td>
</tr>
<tr>
<td><strong>pBADcuaR</strong></td>
<td>pBAD24 derivative carrying the EcoRI-PstI fragment encoding CuaR</td>
<td>This study</td>
</tr>
<tr>
<td><strong>pUA66</strong></td>
<td>E. coli (pSC101), Kan®, gfpmut2</td>
<td>(47) gift M Ansaldi</td>
</tr>
<tr>
<td><strong>pUA66-IG1</strong></td>
<td>pUA66 derivative carrying the 580 bp Xhol-BamHI intergenic region upstream of the gene at the locus Ccel_2108</td>
<td>This study</td>
</tr>
<tr>
<td><strong>pUA66-IG2</strong></td>
<td>pUA66 derivative carrying the 423 bp Xhol-BamHI intergenic region upstream of cuaD</td>
<td>This study</td>
</tr>
<tr>
<td><strong>pUA66-IG3</strong></td>
<td>pUA66 derivative carrying the 535 bp Xhol-BamHI intergenic region upstream of cuaA</td>
<td>This study</td>
</tr>
<tr>
<td><strong>pUA66-IG4</strong></td>
<td>pUA66 derivative carrying the 924 bp Xhol-BamHI intergenic region upstream of cbaA</td>
<td>This study</td>
</tr>
<tr>
<td><strong>pMTL007</strong></td>
<td>E. coli/Clostridium shuttle vector (CoE1, pCB102)LL/IrrBintron (ermBtdRAM2) under the control of Pfac, IrrA; Cm®/Tm®</td>
<td>(23)</td>
</tr>
<tr>
<td><strong>pMTL007cuaD</strong></td>
<td>pMTL007 derivative targeting cuaD (locus Ccel_2115)</td>
<td>This study</td>
</tr>
<tr>
<td><strong>pSOS-zero-Tm</strong></td>
<td>E. coli/Clostridium shuttle vector (CoE1, pM13); Ap®, Cm®/Tm®</td>
<td>(45)</td>
</tr>
<tr>
<td><strong>pSOS954</strong></td>
<td>E. coli/Clostridium shuttle vector (CoE1, pM13); Ap®,Em®, containing an expression cassette controled by the thiolase gene promoter (Pso) from C. acetobutylicum</td>
<td>(24)</td>
</tr>
<tr>
<td><strong>pSOS956</strong></td>
<td>pSOS-zero-Tm derivative carrying the Sall-Sall expression cassette from C. acetobutylicum from pSOS954, Ap®, Cm®/Tm®</td>
<td>This study</td>
</tr>
<tr>
<td><strong>pSOScuaABC</strong></td>
<td>pSOS956 carrying the BamHI-NarI fragment encoding full length cuaA, cuaB, cuaC genes, Ap®, Cm®/Tm®</td>
<td>This study</td>
</tr>
<tr>
<td><strong>pSOScuaABC-cbpA</strong></td>
<td>pSOS956 carrying the BamHI-NarI fragment encoding full length cuaA, cuaB, cuaC, cbpA genes, Ap®, Cm®/Tm®</td>
<td>This study</td>
</tr>
<tr>
<td><strong>pSOScbpA</strong></td>
<td>pSOS956 carrying the BamHI-NarI fragment encoding full length cbpA, Ap®, Cm®/Tm®</td>
<td>This study</td>
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</tbody>
</table>

Ap, ampicilline resistance; Emr, erythromycin resistance; Kan, kanamycin resistance; Cm/Tm, chloramphenicol/thiamphenicol resistance