Additional file_7. Bacterial strains and vectors used

Strain or plasmid	Relevant characteristics	Source or reference
E. coli DH5a	F⁻ *endA1 hsdR17*(rK⁻ mK⁺) *supE44 thi-1* λ⁻ *gyrA96 relA1Δ*(*lacZYA argF*) *U169* (Φ80 *lacZΔ*M15) *recA*	Roche Diagnostics
E. coli SG13009(pREP4)	F⁻ *his pyrD Δlon-100 rpsL* (pREP4)	Qiagen
E. coli BL21(DE3)	F⁻ *ompT hsdS* (rB⁻ mB⁻) *gal dcm* (DE3)	Novagen
C. cellulolyticum H10	Wild-type, ATCC35519 DSM 5812	DSMZ
C. cellulolyticum MTL*cuaD*	ATCC35319, *cuaD* ::intron, Ermʳ	This study
C. cellulolyticum MTL*cuaD* adapted	ATCC35319 derivative, *cuaD* ::intron, Ermʳ, able to grow on cellobiose/cellulose	This study
pET22b(+) and pET28a(+)	*E. coli* expression vector, Ampʳ and Kanʳ respectively	Novagen
pET*cuaD*	pET22b+ derivative carrying the NdeI-XhoI fragment encoding mature CuaD	This study
pET*cuaA*	pET22b+ derivative carrying the NdeI-XhoI fragment encoding mature CuaA	This study
pET*cbpA*	pET28a+ derivative carrying the NdeI-XhoI fragment encoding CbpA	This study
pBAD24	*E. coli* expression vector, Kanʳ	(46) gift M. Ansaldi
pBAD*cuaR*	pBAD24 derivative carrying the EcoRI-PstI fragment encoding CuaR	This study
pUA66	*E coli* (pSC101), Kanᴿ, *gfpmut2*	(47) gift M Ansaldi
pUA66-IG1	pUA66 derivative carrying the 580 bp XhoI-BamHI intergenic region upstream of the gene at the locus Ccel_2108	This study
pUA66-IG2	pUA66 derivative carrying the 423 bp XhoI-BamHI intergenic region upstream of *cuaD*	This study
pUA66-IG3	pUA66 derivative carrying the 535 bp XhoI-BamHI intergenic region upstream of *cuaA*	This study
pUA66-IG4	pUA66 derivative carrying the 924 bp XhoI-BamHI intergenic region upstream of *cbpA*	This study
pMTL007	*E. coli/Clostridium* shuttle vector (ColE1, pCB102)Ll.*ltr*Bintron (*erm*BtdRAM2) under the control of P*fac*, *ltr*A; Cmʳ/Tmʳ	(23)
pMTL007*cuaD*	pMTL007 derivative targeting *cuaD* (locus Ccel_2115)	This study
pSOSzero-Tm	*E. coli/Clostridium* shuttle vector (ColE1, pIM13); Apʳ, Cmʳ/Tmʳ	(45)
pSOS954	*E. coli/Clostridium* shuttle vector (ColE1, pIM13); Apʳ,Emᴿ, containing an expression cassette controled by the *thiolase* gene promotor (P*thl*) from *C. acetobutylicum*	(24)
pSOS956	pSOSzero-Tm derivative carrying the SalI-SalI expression cassette from *C. acetobutylicum* from pSOS954, Apʳ, Cmʳ/Tmʳ	This study
pSOS*cuaABC*	pSOS956 carrying the BamHI-NarI fragment encoding full length *cuaA*, *cuaB*, *cuaC* genes, Apʳ, Cmʳ/Tmʳ	This study
pSOS*cuaABC-cbpA*	pSOS956 carrying the BamHI-NarI fragment encoding full length *cuaA*, *cuaB*, *cuaC*, *cbpA* genes, Apʳ, Cmʳ/Tmʳ	This study
pSOS*cbpA*	pSOS956 carrying the BamHI-NarI fragment encoding full length *cbpA*, Apʳ, Cmʳ/Tmʳ	This study

Apʳ, ampicilline resistance ; Ermʳ, erythromycin resistance ; Kanʳ, kanamycine resistance ; Cmʳ/Tmʳ, chloramphenicol/thiamphenicol resistance