

Table 4. Bacterial strains and plasmids used in this study

Strain or plasmid	Relevant characteristic(s)	Source
<i>Escherichia coli</i>		
XL1-Blue MRF'	$\Delta(mcrA)183 \Delta(mcrCB-hsdSMR-mrr)173 endA1 supE44 thi-1 recA1 gyrA96 relA1 lac$ [F' <i>proAB lac^fZDM15 Tn10</i> (Tet ^r)]	Stratagene
DH5 α MCR	F ⁻ <i>mcrA</i> Δ 1 (<i>mrr-hsd RMS-mcrBC</i>) Φ 80 <i>dlacZ</i> Δ (<i>lacZYA-argF</i>)U169 <i>deoR recA1 endA1 supE44 λthi-1 gyr-496 relA1</i>	GIBCO/BRL
<i>B. pseudofirmus</i> OF4		
811M	Met ⁻ (wild-type)	Ref. 1
811M-M	811M spontaneous mutant strain that improves motility	Ref. 1
SC34	811M $\Delta ncbA::Spc^R$	This study
SC34-M	SC34 spontaneous mutant strain that improves motility	This study
SC34-R	SC34 <i>ncbA</i> restored	This study
SC34-MR	SC34-M <i>ncbA</i> restored	This study
Mot6	811M $\Delta motPS::Cm^R$	Ref. 1
SC34/Mot6	811M $\Delta ncbA::Spc^R \Delta motPS::Cm^R$	This study
Plasmids		
pG ⁺ host4	Temperature-sensitive plasmid vector Erm ^R	Appligene
pMW118	Cloning vector Amp ^R	Nippon Gene
pGEM3-zf (+)	Cloning vector Amp ^R	Promega
pYM1	Cloning vector Amp ^R Cm ^R Erm ^R	Ref. 1
pTracer TM -CMV2	Mammalian expression vectors	Invitrogen
pCMVSC7	PTracer-CMV2+ <i>ncbA</i>	This study
pCMVSC7-Ca	PTracer-CMV2+ <i>ncbA</i> (₁₉₁ LESWAS ₁₉₆ → ₁₉₁ LDDWAD ₁₉₆)	This study
PMW $\Delta ncbA$	PMW118+ $\Delta ncbA$	This study
pMW $\Delta ncbA::Spc^R$	pMW118+ $\Delta ncbA::Spc^R$	This study
pG $\Delta ncbA::Spc^R$	pG ⁺ host4+ $\Delta ncbA::Spc^R$	This study
PSC	pYM1+ <i>ncbA</i>	This study
pSC-Ca	pYM1+ <i>ncbA</i> (₁₉₁ LESWAS ₁₉₆ → ₁₉₁ LDDWAD ₁₉₆)	This study
pGSCR11	pGEM3-zf (+)+ <i>ncbA</i> (E244E)	This study
pG ⁺ host4-SCR11	pG ⁺ host4+ <i>ncbA</i> (E244E)	This study

1. Ito, M., Hicks, D. B., Henkin, T. M., Guffanti, A. A., Powers, B., Zvi, L., Uematsu, K. & Krulwich, T. A. (2004). *Mol. Microbiol.*, in press.