

Table S 1. Bacterial strains and plasmids used in this study.

Strains and plasmids	Genotype and Phenotype	References or source
Strains		
<i>Escherichia coli</i>		
DH5 α	F ⁻ ϕ 80d/lacZ Δ M15 Δ (lacZYA-argF)U169 recA1 endA1 hsdR17 (r _K ⁻ m _K ⁺) supE44 λ ⁻ thi-1 gyrA relA1	[1]
BL21(DE3)	F ⁻ ompT gal dcm lon hsdS _B (r _B ⁻ m _B ⁻) λ (DE3 [lacI lacUV5-T7 gene 1 ind1 sam7 nin5])	Novagen
S17-1	294 (recA pro res mod ^r) TprSmr (pRP4-2-Tc::Mu-Km::Tn7)	[2]
<i>Allochromatium vinosum</i>		
Rif50	Rif ^r , spontaneous rifampin-resistant mutant of <i>A. vinosum</i> DSMZ 180 ^T	[3]
Δ dsrE	Rif ^r , Rif50 with <i>in-frame</i> deletion of dsrE	[4]
Δ dsrE + dsrE78FH	Rif ^r , Kan ^r , deletion mutant Δ dsrE carrying the plasmid pBBR1MCS2dsrE ₇₈ FH	this work
Δ dsrE + dsrEFH20	Rif ^r , Kan ^r , deletion mutant Δ dsrE carrying the plasmid pBBR1MCS2dsrEFH ₂₀	this work
Δ dsrE + dsrE78FH20	Rif ^r , Kan ^r , deletion mutant Δ dsrE carrying the plasmid pBBR1MCS2dsrE ₇₈ FH ₂₀	this work
Plasmids		
pETEFH	Ap ^r , T7 promotor, His-Tag, NdeI/BamHI fragment of amplified dsrEFH	[5]
pETE ₇₈ FH	Ap ^r , T7 promotor, His-Tag, NdeI/BamHI fragment of amplified dsrE ₇₈ FH	[4]
pETEFH ₂₀	Ap ^r , T7 promotor, His-Tag, NdeI/BamHI fragment of amplified dsrEFH ₂₀	[4]
pETE ₇₈ FH ₂₀	Ap ^r , T7 promotor, His-Tag, NdeI/BamHI fragment of amplified dsrE ₇₈ FH ₂₀	[4]
pETCEX	Ap ^r , T7 promotor, His-Tag, NdeI/BamHI fragment of amplified dsrC	[6]
pETCEXSer100	Ap ^r , T7 promotor, His-Tag, NdeI/BamHI fragment of amplified dsrC ₁₀₀	[6]
pETCEXSer111	Ap ^r , T7 promotor, His-Tag, NdeI/BamHI fragment of amplified dsrC ₁₁₁	[6]
pETCEXSer100/111	Ap ^r , T7 promotor, His-Tag, NdeI/BamHI fragment of amplified dsrC _{100/111}	[6]
pET15iscS	Ap ^r , T7 promotor, His-Tag, NdeI/BamHI fragment of amplified iscS	this work
pBBRMCS2-L	Kan ^r , dsr promotor, NdeI/BamHI fragment of amplified dsrL	[3]
pBBRMCS2dsrEFH	Kan ^r , dsr promotor, NdeI/BamHI fragment of amplified dsrEFH	[4]
pBBR1MCS2dsrE ₇₈ FH	Kan ^r , dsr promotor, NdeI/BamHI fragment of dsrE ₇₈ FH	this work
pBBR1MCS2dsrEFH ₂₀	Kan ^r , dsr promotor, NdeI/BamHI fragment of dsrEFH ₂₀	this work
pBBR1MCS2dsrE ₇₈ FH ₂₀	Kan ^r , dsr promotor, NdeI/BamHI fragment of dsrE ₇₈ FH ₂₀	this work

References

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