

Table S1

Lab Notation	Strain/Plasmid Name	Description	Reference
	<i>Escherichia coli</i> DH5 α	F- ϕ 80 <i>lacZ</i> Δ M15 Δ (<i>lacZYA-argF</i>)U169 <i>recA1 endA1 hsdR17</i> (<i>rk -</i> , <i>mk+</i>) <i>phoA supE44 thi-1 gyrA96 relA1</i> λ - <i>tonA</i>	Invitrogen [1]
RT275	<i>Bacillus subtilis</i> BS49	CU2189::Tn916	[2, 3]
RT694	<i>C. difficile</i> 630 Δ erm	Ribotype 012, erythromycin-sensitive derivative of <i>C. difficile</i> 630	[4]
RT762	<i>C. difficile</i> 630 Δ erm pMC123::P <i>cpr</i>	630 Δ erm with control vector	[5]
RT763	<i>C. difficile</i> 630 Δ erm pDccA	Strain contains plasmid with the diguanylate cyclase gene <i>dccA</i> under the control of the nisin-inducible <i>cpr</i> promoter	[5]
RT764	<i>C. difficile</i> 630 Δ erm pDccA ^{mut}	Strain contains plasmid with <i>dccA</i> allele encoding enzymatically inactive diguanylate cyclase gene under the control of the nisin-inducible <i>cpr</i> promoter	[5]
RT2224	630 Δ erm pMC- <i>Ptet</i>	Contains control plasmid	This work
RT2225	630 Δ erm pCD1987	Expresses putative adhesion under the control of <i>Ptet</i>	This work
RT2226	630 Δ erm pCD2795	Expresses putative adhesion under the control of <i>Ptet</i>	This work
RT2227	630 Δ erm pCD2796	Expresses putative adhesion under the control of <i>Ptet</i>	This work
RT2228	630 Δ erm pCD2797	Expresses putative adhesion under the control of <i>Ptet</i>	This work
RT2229	630 Δ erm pCD2831	Expresses putative adhesion under the control of <i>Ptet</i>	This work
RT2230	630 Δ erm pCD3246	Expresses putative adhesion under the control of <i>Ptet</i>	This work
RT2136	630 Δ erm pSMB47::P ₁₉₉₀₀ - <i>phoZ</i>	CD630_19900 promoter fused to <i>phoZ</i> and integrated on the <i>C. difficile</i> chromosome	This work
RT2137	630 Δ erm pSMB47::P ₁₉₉₀₀ - <i>phoZ</i> pMC-P <i>cpr</i>	RT2136 bearing control vector pMC-P <i>cpr</i>	This work
RT2138	630 Δ erm pSMB47::P ₁₉₉₀₀ - <i>phoZ</i> pDccA	RT2136 bearing pDccA	This work
RT2139	630 Δ erm pSMB47::P ₂₇₉₇₀ - <i>phoZ</i>	CD630_27970 promoter fused to <i>phoZ</i> and integrated on the <i>C. difficile</i> chromosome	This work
RT2140	630 Δ erm pSMB47::P ₂₇₉₇₀ - <i>phoZ</i> pMC-P <i>cpr</i>	RT2139 bearing control vector pMC-P <i>cpr</i>	This work
RT2141	630 Δ erm pSMB47::P ₂₇₉₇₀ - <i>phoZ</i> pDccA	RT2139 bearing pDccA	This work
RT2142	630 Δ erm pSMB47::P _{flgB} - <i>phoZ</i>	<i>flgB</i> promoter fused to <i>phoZ</i> and integrated on the <i>C. difficile</i> chromosome	This work
RT2143	630 Δ erm pSMB47::P _{flgB} - <i>phoZ</i> pMC-P <i>cpr</i>	RT2142 bearing control vector pMC-P <i>cpr</i>	This work
RT2144	630 Δ erm pSMB47::P _{flgB} - <i>phoZ</i> pDccA	RT2142 bearing pDccA	This work
RT2145	630 Δ erm pSMB47::P ₁₉₉₀₃ - <i>phoZ</i>	CD630_19903 promoter fused to <i>phoZ</i> and integrated on the <i>C. difficile</i> chromosome	This work
RT2146	630 Δ erm pSMB47::P ₁₉₉₀₃ - <i>phoZ</i> pMC-P <i>cpr</i>	RT2145 bearing control vector pMC-P <i>cpr</i>	This work
RT2147	630 Δ erm pSMB47::P ₁₉₉₀₃ - <i>phoZ</i> pDccA	RT2145 bearing pDccA	This work
RT2148	630 Δ erm pSMB47::P ₂₃₀₉₀ - <i>phoZ</i>	CD630_23090 promoter fused to <i>phoZ</i> and integrated on the <i>C. difficile</i> chromosome	This work
RT2149	630 Δ erm pSMB47::P ₂₃₀₉₀ - <i>phoZ</i> pMC-P <i>cpr</i>	RT2148 bearing control vector pMC-P <i>cpr</i>	This work
RT2150	630 Δ erm pSMB47::P ₂₃₀₉₀ - <i>phoZ</i> pDccA	RT2148 bearing pDccA	This work
RT2151	630 Δ erm pSMB47::P ₃₃₆₈₂ - <i>phoZ</i>	CD630_33682 promoter fused to <i>phoZ</i> and integrated on the <i>C. difficile</i> chromosome	This work

RT2152	630Δerm pSMB47::P ₃₃₆₈₂ - <i>phoZ</i> pMC-Pcpr	RT2151 bearing control vector pMC-Pcpr	This work
RT2153	630Δerm pSMB47::P ₃₃₆₈₂ - <i>phoZ</i> pDccA	RT2151 bearing pDccA	This work
RT2154	630Δerm pSMB47::P _{zmpl} - <i>phoZ</i>	<i>zmpl</i> promoter fused to <i>phoZ</i> and integrated on the <i>C. difficile</i> chromosome	This work
RT2155	630Δerm pSMB47::P _{zmpl} - <i>phoZ</i> pMC-Pcpr	RT2154 bearing control vector pMC-Pcpr	This work
RT2156	630Δerm pSMB47::P _{zmpl} - <i>phoZ</i> pDccA	RT2154 bearing pDccA	This work
RT2157	630Δerm pSMB47::P ₃₂₄₆₀ - <i>phoZ</i>	CD630_32460 promoter fused to <i>phoZ</i> and integrated on the <i>C. difficile</i> chromosome	This work
RT2158	630Δerm pSMB47::P ₃₂₄₆₀ - <i>phoZ</i> pMC-Pcpr	RT2157 bearing control vector pMC-Pcpr	This work
RT2159	630Δerm pSMB47::P ₃₂₄₆₀ - <i>phoZ</i> pDccA	RT2157 bearing pDccA	This work
RT2160	630Δerm pSMB47::P ₃₂₆₇₀ - <i>phoZ</i>	CD630_32670 promoter fused to <i>phoZ</i> and integrated on the <i>C. difficile</i> chromosome	This work
RT2161	630Δerm pSMB47::P ₃₂₆₇₀ - <i>phoZ</i> pMC-Pcpr	RT2160 bearing control vector pMC-Pcpr	This work
RT2162	630Δerm pSMB47::P ₃₂₆₇₀ - <i>phoZ</i> pDccA	RT2160 bearing pDccA	This work
RT2163	630Δerm pSMB47::P ₂₈₃₁₀ - <i>phoZ</i>	CD630_28310 promoter fused to <i>phoZ</i> and integrated on the <i>C. difficile</i> chromosome	This work
RT2164	630Δerm pSMB47::P ₂₈₃₁₀ - <i>phoZ</i> pMC-Pcpr	RT2163 bearing control vector pMC-Pcpr	This work
RT2165	630Δerm pSMB47::P ₂₈₃₁₀ - <i>phoZ</i> pDccA	RT2163 bearing pDccA	This work
RT2166	630Δerm pSMB47::P _{pilA1} - <i>phoZ</i>	<i>pilA1</i> promoter fused to <i>phoZ</i> and integrated on the <i>C. difficile</i> chromosome	This work
RT2167	630Δerm pSMB47::P _{pilA1} - <i>phoZ</i> pMC-Pcpr	RT2166 bearing control vector pMC-Pcpr	This work
RT2168	630Δerm pSMB47::P _{pilA1} - <i>phoZ</i> pDccA	RT2166 bearing pDccA	This work
RT2169	630Δerm pSMB47::P _{pilA1} -UTR- <i>phoZ</i>	<i>pilA1</i> promoter and native riboswitch fused to <i>phoZ</i> and integrated on the <i>C. difficile</i> chromosome	This work
RT2170	630Δerm pSMB47::P _{pilA1} -UTR- <i>phoZ</i>	RT2169 bearing control vector pMC-Pcpr	This work
RT2171	630Δerm pSMB47::P _{pilA1} -UTR- <i>phoZ</i>	RT2169 bearing pDccA	This work
RT2172	630Δerm pSMB47::P _{pilA1} -UTR ^{A70G} - <i>phoZ</i>	<i>pilA1</i> promoter with A70G mutation in the riboswitch fused to <i>phoZ</i> and integrated on the <i>C. difficile</i> chromosome	This work
RT2173	630Δerm pSMB47::P _{pilA1} -UTR ^{A70G} - <i>phoZ</i>	RT2172 bearing control vector pMC-Pcpr	This work
RT2174	630Δerm pSMB47::P _{pilA1} -UTR ^{A70G} - <i>phoZ</i>	RT2172 bearing pDccA	This work
	Plasmid Name	Description	Reference
RT264	pMC123	<i>E. coli</i> – <i>C. difficile</i> shuttle vector; Amp ^R , Cm ^R /Tm ^R	[6]
RT399	pMC-P _{cpr}	pMC123 with <i>cpr</i> promoter in the multiple cloning site	[5]
RT402	pDccA	pMC-P _{cpr} :: <i>dccA</i> (CD630_14200), encodes DGC	[5]
RT529	pDccA ^{mut}	pMC-P _{cpr} :: <i>dccA</i> ^{mut} (AADEF), encodes inactive DGC	[5]
RT1648	pMC-P _{tet}	pMC123 with <i>tet</i> promoter	This work

RT1649	pCD1987	pMC-P _{tet} ::CD630_19870, putative adhesion under the control of the <i>tet</i> promoter	This work
RT1650	pCD2795	pMC-P _{tet} ::CD630_27950, putative adhesion under the control of the <i>tet</i> promoter	This work
RT1651	pCD2796	pMC-P _{tet} ::CD630_27960, putative adhesion under the control of the <i>tet</i> promoter	This work
RT1652	pCD2797	pMC-P _{tet} ::CD630_27970, putative adhesion under the control of the <i>tet</i> promoter	This work
RT1653	pCD2831	pMC-P _{tet} ::CD630_28310, putative adhesion under the control of the <i>tet</i> promoter	This work
RT1654	pCD3246	pMC-P _{tet} ::CD630_32460, putative adhesion under the control of the <i>tet</i> promoter	This work
RT2060	pSMB47::P ₁₉₉₀₀ :: <i>phoZ</i>	CD630_19900 putative promoter fused to <i>phoZ</i>	This work
RT2061	pSMB47::P ₂₇₉₇₀ :: <i>phoZ</i>	CD630_19900 putative promoter fused to <i>phoZ</i>	This work
RT2062	pSMB47::P _{flgB} :: <i>phoZ</i>	CD630_02450 <i>flgB</i> promoter region fused to <i>phoZ</i>	This work
RT2063	pSMB47::P ₁₉₉₀₃ :: <i>phoZ</i>	CD630_19903 putative promoter fused to <i>phoZ</i>	This work
RT2064	pSMB47::P ₂₃₀₉₀ :: <i>phoZ</i>	CD630_23090 putative promoter fused to <i>phoZ</i>	This work
RT2065	pSMB47::P ₃₃₆₈₂ :: <i>phoZ</i>	CD630_33682 putative promoter fused to <i>phoZ</i>	This work
RT2066	pSMB47::P _{zmp1} :: <i>phoZ</i>	CD630_23800 putative promoter fused to <i>phoZ</i>	This work
RT2067	pSMB47::P ₃₂₄₆₀ :: <i>phoZ</i>	CD630_32460 putative promoter fused to <i>phoZ</i>	This work
RT2068	pSMB47::P ₃₂₆₇₀ :: <i>phoZ</i>	CD630_32670 putative promoter fused to <i>phoZ</i>	This work
RT2069	pSMB47::P ₂₃₈₁₀ :: <i>phoZ</i>	CD630_23810 putative promoter fused to <i>phoZ</i>	This work
RT2070	pSMB47::P _{pilA1} :: <i>phoZ</i>	CD630_35130 <i>pilA1</i> promoter region fused to <i>phoZ</i>	This work
RT2114	pSMB47::P _{pilA1-UTR} - <i>phoZ</i>	<i>pilA1</i> promoter and native UTR containing the wildtype riboswitch sequence fused to <i>phoZ</i>	This work
RT2115	pSMB47::P _{pilA1-UTR^{A70G}} - <i>phoZ</i>	<i>pilA1</i> promoter and UTR with A70G mutation in the riboswitch sequence fused to <i>phoZ</i>	This work

References

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