

S3 Table: Bacterial strains and plasmids used in this study

Strain Code	Strain	Genotype	Construction	Source or Reference
TM108	<i>Myxococcus xanthus</i> DZ2	Wild type	-	Laboratory collection
EM606	$\Delta wzxX$	$\Delta mxan_{7416}$	TM108 + pEM440 (pBJ113- $\Delta mxan_{7416}$)	This work
EM616	$\Delta wzyX$	$\Delta mxan_{7442}$	TM108 + pEM470 (pBJ113- $\Delta mxan_{7442}$)	This work
EM572	$\Delta wzcX$	$\Delta mxan_{7421/epsV}$	TM108 + pEM441 (pBJ113- $\Delta mxan_{7421}$)	This work
EM614	$\Delta wzeX$	$\Delta mxan_{7447}$	TM108 + pEM468 (pBJ113- $\Delta mxan_{7447}$)	This work
TM469	$\Delta wzaX$	$\Delta mxan_{7417/epsY}$	TM108 + pTM211 (pBJ114- $\Delta mxan_{7417}$)	[1]
TM484	$\Delta wzaS$	$\Delta mxan_{3225/exoA/fdgA}$	TM108 + pTM210 (pBJ114- $\Delta mxan_{3225}$)	[1]
EM619	$\Delta wzxB$	$\Delta mxan_{1035}$	TM108 + pEM471 (pBJ113- $\Delta mxan_{1035}$)	This work
EM618	$\Delta wzyB$	$\Delta mxan_{1028}$	TM108 + pEM472 (pBJ113- $\Delta mxan_{1028}$)	This work
EM588	$\Delta wzcB$	$\Delta mxan_{1025/btkB}$	TM108 + pEM462 (pBJ113- $\Delta mxan_{1025}$)	This work
EM615	$\Delta wzcB_{BYK}$	$\Delta mxan_{1025}$ bp 1392-2091 (BYK domain)	TM108 + pEM469 (pBJ113- $\Delta mxan_{1025}$ from aa 465-697)	This work
TM529	$\Delta wzaB$	$\Delta mxan_{1915}$	TM108 + pTM212 (pBJ114- $\Delta mxan_{1915}$)	[1]
EM596	$\Delta wzcX \Delta wzaX$	$\Delta mxan_{7417} \Delta mxan_{7421}$	TM469 + pEM441	This work
EM592	$\Delta wzaX \Delta wzaB$	$\Delta mxan_{7417} \Delta mxan_{1915}$	TM469 + pTM211	This work
EM591	$\Delta wzcB \Delta wzaB$	$\Delta mxan_{1025} \Delta mxan_{1915}$	TM529 + pEM462	This work
EM651	$\Delta wzaB \Delta wzaS$	$\Delta mxan_{1915} \Delta mxan_{3225}$	TM529 + pTM210	This work
TM488	$\Delta wzaX \Delta wzaS$	$\Delta mxan_{7417} \Delta mxan_{3225}$	TM469 + pTM210	This work
TM530	$\Delta wzaX \Delta wzaB \Delta wzaS$	$\Delta mxan_{7417} \Delta mxan_{1915} \Delta mxan_{3225}$	TM488 + pTM212 (pBJ114- $\Delta mxan_{1915}$)	This work
TM293	$\Omega pilA$	Tetracycline resistance cassette	TM108 + <i>pilA::tet</i> , Tcr	Laboratory collection
TM493	$\Delta wzaX \Omega pilA$	$\Delta mxan_{7417} \Omega pilA$	TM469 + $\Omega pilA$ chromosomal DNA	This work
TM540	$\Delta wzaB \Omega pilA$	$\Delta mxan_{1915} \Omega pilA$	TM529 + $\Omega pilA$ chromosomal DNA	This work
EM693	$\Delta wzaX$ OMss-sfGFP	$\Delta mxan_{7417}$ OMss-sfGFP	TM469 + pSWU19- <i>promPilA-OMss-sfGFP</i>	This work
EM691	$\Delta wzaB$ IMss-mCherry	$\Delta mxan_{1915}$ IMss-mCherry	TM529 + pSWU19- <i>promPilA-IMss-mCherry</i>	This work
EM709	P _{EPS} -sfGFP + P _{BPS} -mCherry	WT P _{EPS} -sfGFP + P _{BPS} -mCherry	TM108 + pSWU19- <i>promWzxX-sfGFP</i> + <i>promWzcB-mCherry</i>	This work
EC393	<i>Escherichia coli</i> MG1655	F ⁻ <i>lambda</i> ⁻ <i>ilvG</i> ⁻ <i>rfb-50 rph-1</i>	-	Laboratory collection

[1] Ducret A, Valignat M-P, Mouhamar F, Mignot T, Theodoly O. Wet-surface-enhanced ellipsometric contrast microscopy identifies slime as a major adhesion factor during bacterial surface motility. Proc. Natl. Acad. Sci. USA. 2012. 109(25):10036-10041.