Shewanella oneidensis MR-1

Bacteria>Proteobacteria>Gammaproteobacteria> Alteromonadales>Shewanellaceae

Technique	*Status*	*Details*
Culture on solid media	√	Incubate at 30˚C, colonies may take >16 hrs to reach sufficient size
Culture in liquid media	√	Incubate at 30˚C
Chemical competence	×	Calcium/magnesium chloride preparations fail
Electroporation	√	Protocol available on Harvard iGEM 08 notebook
Transforming unmethylated DNA	√	Transformation of plasmids from PCR-based site directed mutagenesis works
Miniprep	√-	Minipreps (Qiagen kit) are not clean: sufficient for sequencing but subsequent cloning steps not recommended
Colony PCR	√	Protocols for *E. coli* are sufficient
Genomic knockout	√	See doi:10.1128/AEM.01087-07

Origin of replication	*Status*	*Details*
p15A	√	pSB3K3 works
CloDF13	√	Available
ColE1	?	We found that it works, but this conflicts with previous findings by Myers and Myers
pSC101	×	pSB4C5 fails
pSC101*	√	Found on pZ vector system
R6K	×	Not tested with introduced *pir*

Selection markers	*Status*	*Details*
Ampicillin	×	Cells are resistant
Chloramphenicol	√	
Gentamicin	√	
Kanamycin	√	
Spectomycin	√	

BioBrick	*Type*	*Status*	*Details*
J23113, J23151, R0010	Promoter	√	
B0032, B0034	RBS	√	
J04031	Reporter	√	GFP (LVA efficacy unknown)