

Strains and plasmids:

Strain	Description	Source
DH5 α	<i>deoR endA1 gyrA96 hsdR17 (rk-</i> <i>mk+)recA1 relA1 supE44 thi-1 Δ(lacZYA-</i> <i>argF)U169 Φ80lacZ ΔM15F - λ</i>	Lab stock
BL21(DE3)	F-ompT hsdS(rB-mB-) gal dcm (DE3)	Lab stock
<hr/>		
Plasmid		
pYB1a-eGFP	Ampicillin resistance, Green fluorescent protein	this study
pYB1a-PobR-eGFP-Cmr	Ampicillin resistance, PobR gene, Green fluorescent protein, Chloramphenicol resistance	this study
pYB1a-PobRmut (P5-B7) -eGFP-Cmr	Ampicillin resistance, PobR gene containing mutations encoding E16V, E124G, H125R respectively, Chloramphenicol resistance, Green fluorescent protein	this study
pYB1a-PobRmut (P7-E8) -eGFP-Cmr	Ampicillin resistance, PobR gene containing mutations encoding L122P, E126V respectively, Chloramphenicol resistance, Green fluorescent protein	this study

pLT1k-MP6	Kanamycin resistance, for <i>E.coli</i> genome mutant	Lab stock
pRB1s-HmaS- aroG-pheA	Streptomycin resistance, HMA synthetic genes	Lab stock

Primers:

No.	Primer	Sequence (5' to 3') (Bold letters indicate mutation sites)	Use
1	Spm16-F	CGGTACGGATCACTTCCGAG CTATGTGGGTGAG	Site-directed mutagenesis of PobR to introduce E16V.
2	Spm16-R	ATCCGTACCGAAGATTACAT CGCCGGTCTG	Site-directed mutagenesis of PobR to introduce E16V.
3	Spm122-F	CGTGCTCGTCTGGGACAACG ATTGAGAAGGTCAG	Site-directed mutagenesis of PobR to introduce L122P.
4	Spm122-R	AGACGAGCACGAGGTGGTG CCGGTTG	Site-directed mutagenesis of PobR to introduce L122P.
5	Spm124-F	CCACCTCGTGCCGTCTAGG ACAACGATTGAGA	Site-directed mutagenesis of PobR to introduce E124G.
6	Spm124-R	CACGAGGTGGTGCCGGTTGC CAGAACGCTAT	Site-directed mutagenesis of PobR to introduce E124G.
7	Spm125-F	GCACCACCTCGCGCTCGTCT AGGACAAACGATTG	Site-directed mutagenesis of PobR to introduce H125R.
8	Spm125-R	GAGGTGGTGCCGGTTGCCAG AAGCTATCTG	Site-directed mutagenesis of PobR to introduce H125R.
9	Spm126-F	CGGCACCACCACGTGCTCGT CTAGGACAAACG	Site-directed mutagenesis of PobR to introduce E126V.
10	Spm126-R	GGTGGTGCCGGTTGCCAGAA GCTATCTGCC	Site-directed mutagenesis of PobR to introduce E126V.

	PobR-	AATTGTCTGATTCGTTACCA	
11	Gibson-F	ATTAACCAAGTTGCGCAGT	Construction of plasmid pYB1a-
		TC	PobR
12	PobR-	AGCTCCTCGCCCTTGGACAT	Construction of plasmid pYB1a-
	Gibson-R	ATGTATATCTCCTTGCTAT	PobR
13	pYB1a-	ATGTCCAAGGGCGAGGGAGC	Construction of plasmid pYB1a-
	Gibson-F	TGTTCACCGGGGT	PobR
14	pYB1a-	TGGTAACGAATCAGACAATT	Construction of plasmid pYB1a-
	Gibson-R	GACGGCTTG	PobR
15	Chl-F	ATGTCCAAGGGCGAGGGAGC	Construction of plasmid pYB1a-
		TGTTCACCGGGGT	PobR
16	Chl-R	TGGTAACGAATCAGACAATT	Construction of plasmid pYB1a-
		GACGGCTTG	PobR
17	PobR-	TTAAACCAAGTTGCGCAGTT	Construction of plasmid pYB1a-
	mut-F	CAT	PobR-eGFP-Chl
18	PobR-	ATGGAACAGCATCACCAAT	Construction of plasmid pYB1a-
	mut-R	ATCTAG	PobR-eGFP-Chl
