

Supplementary Material

Insight into the Diversity and Possible Role of Plasmids in the Adaptation of Psychrotolerant and Metalotolerant *Arthrobacter* spp. to Extreme Antarctic Environments

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TABLE S1. Plasmids and PCR primers used in this study.

Plasmid	Characteristics	Reference or source
pBBR1 MCS-2	Km ^r ; 5.1 kb; ori pBBR1; Mob ⁺ ; oriT RK2; lacZα; MCS	(Kovach et al., 1994)
pBBR-LAM	Km ^r ; 6.9 kb; pBBR1 MCS-2 derivative carrying PCR-amplified LAM module of the pA8H1 plasmid cloned within SalI site	This study
pBBR-TER	Km ^r ; 7.8 kb; pBBR1 MCS-2 derivative carrying PCR-amplified TER module of the pA40H2 plasmid cloned within SacI site	This study
pBBR-UMU	Km ^r ; 9.3 kb; pBBR1 MCS-2 derivative carrying PCR-amplified UMU module of the pA58H3 plasmid cloned within KpnI site	This study
Primer name	Primer sequence*	Coordinates in appropriate plasmid
fLAM8H1 rLAM8H1	5'- ACT <u>GTCGACT</u> CCCCGAGAACGCCAAATC -3' 5'- TCC <u>GTCGAC</u> CCGGTAATCGTCCTGTCCAAC -3'	pA8H1 9,455 – 11,230
fTER40H2 rTER40H2	5'- TGCGCG <u>GAGCT</u> CTCTCGGCATCCACGTTGATCGG -3' 5'- GGCG <u>GAGCT</u> CCGTCTGCTGTCAGTGCCTTC -3'	pA40H2 6,103 – 8,787
fUMU58H3 rUMU58H3	5'- TACGGTACC <u>CTCGTT</u> CCGTTACTACTC -3' 5'- CC <u>AGGTACCA</u> AGATGGCTCTCAGGAAG -3'	pA58H3 92 – 4,201

* Sequences shown in the 5' to 3' orientation. Sequences of the restriction sites were underlined.

References

- Kovach, M.E., Phillips, R.W., Elzer, P.H., Roop, R.M., 2nd, and Peterson, K.M. (1994). pBBR1MCS: a broad-host-range cloning vector. *BioTechniques* 16, 800-802.