

**Supplementary Table 2: Strains used in this study.**

Strain	Characteristics	Source
<i>Acinetobacter baumannii</i> ATCC 17978VU	Wildtype	ATCC (Wijers <i>et al.</i> , 2021) [74]
<i>Escherichia coli</i> DH5 $\alpha$		Lab stock
<i>Escherichia coli</i> pUC18-K1	Plasmid containing <i>aphA</i> gene	(Ménard <i>et al.</i> , 1993) [75]
<i>Escherichia coli</i> DH5a pFLp2- $\Delta$ <i>migC</i> :: <i>aphA</i>	A1S_0934 ( $\Delta$ <i>migC</i> :: <i>aphA</i> ) knockout vector	This study
<i>Acinetobacter baumannii</i> ATCC 17978VU $\Delta$ <i>migC</i>	$\Delta$ <i>migC</i> :: <i>aphA</i>	This study
<i>Escherichia coli</i> DH5 $\alpha$ pFLp2	<i>A. baumannii</i> allelic exchange vector with <i>sacB</i> (pFLp2)	Herbert Schweizer (Hoang <i>et al.</i> , 1998) [76]
<i>Escherichia coli</i> HB101 pRK2013	Helper plasmid for the mobilization of non-self-transmissible plasmids	(Figurski and Helinski, 1979) [77]
<i>Escherichia coli</i> pKNOCK-mTn7(amp <sup>R</sup> )	mini-Tn7-Amp	(Carruthers <i>et al.</i> , 2013) [57]
<i>Escherichia coli</i> pTNS2	Tn7 transposase expression	(Choi <i>et al.</i> , 2005) [78]
<i>Acinetobacter baumannii</i> ATCC 17978VU pKNOCK-mTn7-Amp	WT integration control	This study
<i>Acinetobacter baumannii</i> ATCC 17978VU $\Delta$ <i>migC</i> pKNOCK-mTn7-Amp	$\Delta$ <i>migC</i> integration control	This study
<i>Acinetobacter baumannii</i> ATCC 17978VU pKNOCK- <i>migC</i>	complementation strain	This study
<i>Escherichia coli</i> pKNOCK- <i>migC</i>	complementation vector	This study
<i>Acinetobacter baumannii</i> ATCC 17978VU <i>attTn7</i> :: <i>migC</i> -C71A, C73A, C74A	<i>A. baumannii</i> strain with point mutations in the metal binding domain	This study
<i>Acinetobacter baumannii</i> ATCC 17978VU <i>attTn7</i> :: <i>migC</i> -E99A	<i>A. baumannii</i> strain with mutations in the GTPase domain	This study

<i>Escherichia coli</i> attTn7::migC-gBlock(C71A C73A C74A)	<i>E. coli</i> strain with gBlock containing mutations in the metal binding domain	This study
<i>Escherichia coli</i> pYDE007	<i>E. coli</i> containing plasmid for sgRNA expression.	(Bai <i>et al.</i> , 2021) [46]
<i>Escherichia coli</i> pYDE009	Used for movement of <i>dcas9</i> into <i>A. baumannii</i> . Tn7 element has tetR-tetP-dcas9	(Bai <i>et al.</i> , 2021) [46]
<i>Acinetobacter baumannii</i> ATCC 17978 attTn7::tetR-tetP-dcas9-rrnBT1-T7Te Gm <sup>r</sup>	<i>A. baumannii</i> WT strain containing <i>dcas9</i>	This study
<i>Acinetobacter baumannii</i> $\Delta$ migC::aphA attTn7::tetR-tetP-dcas9-rrnBT1-T7Te Gm <sup>r</sup>	<i>A. baumannii</i> $\Delta$ migC::aphA strain containing <i>dcas9</i>	This study
<i>Acinetobacter baumannii</i> ATCC 17978 attTn7::tetR-tetP-dcas9-rrnBT1-T7Te Gm <sup>r</sup> +pYDE007	<i>A. baumannii</i> WT strain containing <i>dcas9</i> with pYDE007 (WT <i>murD</i> EV)	This study
<i>Acinetobacter baumannii</i> $\Delta$ migC::aphA attTn7::tetR-tetP-dcas9-rrnBT1-T7Te Gm <sup>r</sup> +pYDE007	<i>A. baumannii</i> $\Delta$ migC::aphA strain containing <i>dcas9</i> and pYDE007 ( $\Delta$ migC <i>murD</i> EV)	This study
<i>Acinetobacter baumannii</i> ATCC 17978 attTn7::tetR-tetP-dcas9-rrnBT1-T7Te Gm <sup>r</sup> +pYDE007(sgRNA <sub>murD</sub> )	<i>A. baumannii</i> WT strain containing <i>dcas9</i> with pYDE007 and a <i>murD</i> sgRNA (WT <i>murD</i> KD)	This study
<i>Acinetobacter baumannii</i> $\Delta$ migC::aphA attTn7::tetR-tetP-dcas9-rrnBT1-T7Te Gm <sup>r</sup> +pYDE007(sgRNA <sub>murD</sub> )	<i>A. baumannii</i> $\Delta$ migC::aphA strain containing <i>dcas9</i> and pYDE007 and a <i>murD</i> sgRNA ( $\Delta$ migC <i>murD</i> KD)	This study
<i>Escherichia coli</i> DH5 $\alpha$ pKNOCK-mTn7-Gm <sup>r</sup> -tetR-P <sub>tet</sub> - <i>murD</i>	<i>E. coli</i> strain containing inducible <i>murD</i> vector	This study
<i>Acinetobacter baumannii</i> ATCC 17978 attTn7::tetR-P <sub>tet</sub> - <i>murD</i> Gm <sup>r</sup>	<i>A. baumannii</i> WT strain containing anhydrous tetracycline inducible <i>murD</i>	This study

