

**Table S1:** List of plasmids used in this study.

Name	Remarks	References
pJL37	P <sub>hsp60</sub> -based expression vector, <i>kan<sup>r</sup></i>	(Ojha et al., 2005; Yang et al., 2017)
pMH94	L5-attP-based integrative vector, <i>kan<sup>r</sup></i>	(Ojha et al., 2005)
pYY90	pMH94 + <i>glnR</i> @ SacI & XbaI, <i>kan<sup>r</sup></i>	This study
pYY94	<i>P<sub>hsp60</sub></i> - <i>msmeg_0565-0572</i> + pMH94 @ XbaI	This study
pJV53-SacB	Plasmid containing inducible recombineering protein gp60 gp61 from phage Che9c and SacB cassette, <i>kan<sup>r</sup></i>	(Ojha et al., 2005)
pEM2	<i>P<sub>hsp60</sub></i> -mCherry cloned in pMH94 @ XbaI, <i>kan<sup>r</sup></i>	(Yang et al., 2017)
pYL11	Hyg cassette+ pJL37 @ NheI & SpeI, Hyg <sup>r</sup>	This study
pYY96	<i>P<sub>msmeg_2425</sub></i> -Dendra2+ pYL11 @ XbaI & NheI	This study
pCre-SacB	Plasmid carrying Cre and SacB, <i>kan<sup>r</sup></i>	This study