

<b>Ab16</b>	<i>mukB-YPet, Km<sup>R</sup></i>	This study
<b>Ab18</b>	<i>mukE-YPet Km<sup>R</sup></i>	This study
<b>Ab25</b>	<i>mukB-mCherry frt, mukE-YPet, Km<sup>R</sup></i>	This study
<b>Ab24</b>	<i>mukB-mCherry, Km<sup>R</sup></i>	This study
<b>Ab36</b>	<i>mukE-YPet frt</i>	This study
<b>Ab45</b>	<i>mukB-GFP, Cm<sup>R</sup></i>	This study
<b>Ab60</b>	<i>frt YPet-mukF</i>	This study
<b>Ab75</b>	<i>mukB-E1407Q-GFP, Cm<sup>R</sup></i>	This study
<b>Ab81</b>	<i>Ab60, mukBmCherry, , Cm<sup>R</sup></i>	This study
<b>Ab88</b>	<i>mukE-mCherry frt</i>	This study
<b>Ab137</b>	<i>Ab88, Ab75</i>	This study
<b>Ab191</b>	<i>frt N-mCherry-mukF</i>	This study
<b>Ab198</b>	<i>mukB-E1407Q-YPet, Km<sup>R</sup></i>	This study
<b>Ab213</b>	<i>mukB-E1407Q, Km<sup>R</sup>, Ab60</i>	This study
<b>Ab220</b>	<i>mukB-GFP, Cm<sup>R</sup>, Ab88</i>	This study
<b>Ab221</b>	<i>mukB-GFP, Cm<sup>R</sup>, Ab191</i>	This study
<b>Ab223</b>	<i>mukB-E1407Q, Km<sup>R</sup>, MukE-YPet frt</i>	This study
<b>Ab237</b>	<i>mukE-PAmCherry, Km<sup>R</sup></i>	This study
<b>Ab238</b>	<i>mukB-PAmCherry, Km<sup>R</sup></i>	This study
<b>Ab246</b>	<i>mukB-D1406A-mYPet, Km<sup>R</sup></i>	This study
<b>Ab247</b>	<i>mukB-D1406A Km<sup>R</sup>, MukF-YPet frt</i>	This study
<b>Ab248</b>	<i>mukB-D1406A, Km<sup>R</sup>, MukE-YPet frt</i>	This study
<b>RRL80</b>	<i>mukB-D1406A-GFP, Cm<sup>R</sup></i>	This study
<b>Kat1</b>	<i>mukB-GFP, Cm<sup>R</sup></i>	Ref. (31)

**Table S2.** List of strains and their sources used in current study.