**Table S1: Plasmids**

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| Plasmid | Genotype |
| pAH25 | *amyE::spec (erm) amp* (Blair et al., 2008) |
| pAP44 | *Pflachesob21 mls amp* |
| pAP46 | *Pflachesob6 mls amp* |
| pAP50 | *amyE::Pflachesob6-lacZ spec* |
| pAP60 | *amyE::Pflache-fliO spec amp* |
| pAP61 | *amyE::Pflache-fliOsob22 spec amp* |
| pAP69 | *amyE::Pflache-fliP spec amp* |
| pAP70 | *amyE::Physpank-fliP spec* *amp* |
| pAP71 | *amyE::Pflache-fliPsob22 spec amp* |
| pAP80 | *fliGsob28 mls amp* |
| pAP85 | *amyE::Physpank-fliO spec* *amp* |
| pAP94 | *ΔcspB mls amp* |
| pDG1728 | *amyE::lacZ spec amp* (Guérout-Fleury et al., 1996) |
| pDP332 | *ΔfliO mls amp* |
| pDP346 | *ΔfliP mls amp* |
| pDR111 | *amyE::Physpank spec amp* (Ben-Yehuda et al., 2003) |
| PMiniMAD | *oriBsTs mls amp* (Patrick and Kearns, 2008) |
| pSG32 | *ΔfliM mls amp* (Guttenplan and Kearns, 2013) |