**Table S4.** *E. coli* transposon mutants identified at GFP- in an *in vivo* assay in which splicing of the Ll.LtrB intron is linked to GFP expression.

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| --- | --- | --- | --- |
| **Gene** | **Straina**  | **Gene product** | **Function** |
| **Transcription unit** |
| 1. **Induction at 30°C**
 |
| *dppD*  | 46 | Dipeptide ABC transporter subunit*dppABCDF* | Transporter |
| *kdsD*  | 45 | Arabinose 5-phosphate isomerase*yrbG-kdsD* | Enzyme |
| *malE*  | 29 | Maltose ABC transporter subunit*malEFG* | Transporter |
| *malE*  | 30 | Maltose ABC transporter subunit*malEFG* | Transporter |
| *T7RNP* | 01 | T7 RNA polymerase | Transcription |
| *T7RNP*  | 21 | T7 RNA polymerase | Transcription |
| 1. **Induction at 37°C**
 |
| *clcA*  | 09 | H+/Cl- exchange transporter | Transporter |
| *pgi / yjbE*  | 61 | Phosphoglucose isomerase / Predicted protein*yjbEFGH* | Enzyme / Unknown |
| *yfeN*  | 30 | Conserved outer membrane protein | Unknown |

a Mutants were identified in an assay in which *mariner* transposon library strains containing pALG2 were plated on LB agar and grown overnight at 37°C. The resulting colonies were lifted onto 35-mm diameter nitrocellulose filter circles and incubated on petripads (Millipore) saturated with LB medium containing 0.1 mM IPTG for 3 h at 30 or 37°C for induction of plasmid transcription. The filters were then examined under 302-nm UV light to detect GFP- colonies.