**Table S1: pJK\_eGFP Series Plasmids.** pJK-series plasmids driving eGFP expression. Each plasmid is differentdiffers only in the strength of the promoter sequence. Specific base-pair differences at the -35 hexamer compared to the base promoter proB are shown in red. Enrichment ratios (ε) for different growth experiments are recorded. Recorded errors are listed as one standard deviation from two independent experiments.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Promoter | -35 hexamer | -10 hexamer |  - combined | - population #1 |  - population# 2 |
| **proB** | **TTTACG** | **TAATAT** | -1.18 ± 0.00 | -0.93 ± 0.04 | -1.31 ± 0.04 |
| proK21 | TTTACA | TAATAT | 1.40 ± 0.01 | 2.44 ± 0.03 | 0.80 ± 0.03 |
| proNR2 | CTTACG | TAATAT | 0.21 ± 0.03 | N/A | -0.37 ± 0.04 |
| proK16 | TTTTCG | TAATAT | 1.98 ± 0.05 | 2.57 ± 0.05 | N/A |
| proK14 | TGTACG | TAATAT | 0.34 ± 0.02 | N/A | -0.18 ± 0.06 |
| proK11 | TTTAGT | TAATAT | -0.04 ± 0.00 | N/A | -0.59 ± 0.06 |
| proK9 | TTTACC | TAATAT | -1.32 ± 0.02 | -0.70 ± 0.04 | N/A |
| proK6 | TTGTCG | TAATAT | -1.46 ± 0.02 | -0.94 ± 0.02 | N/A |
| proK2 | TTGCCG | TAATAT | -2.20 ± 0.01 | -1.78 ± 0.01 | N/A |
| proNR1 | TTTAAC | TAATAT | 1.29 ± 0.00 | 1.76 ± 0.01 | N/A |
| proK1 | TTTACT | TAATAT | -3.56 ± 0.14 | -3.04 ± 0.03 | N/A |