



| PARAMETER             | EXPERIMENTAL KNOB       | A PRIORI VALUE                         |
|-----------------------|-------------------------|--|
| $R$                   | RBS modification        | 22 – 1740                              |
| $\Delta\epsilon_{RA}$ | operator sequence       | $-15.3 k_B T, -13.9 k_B T, -9.3 k_B T$ |
| $N_{NS}$              | growth rate             | $\approx 5 \times 10^6$                |
| $c$                   | dilution series         | 0 – 5 mM                               |
| $\Delta\epsilon_{AI}$ | amino-acid substitution | $\approx 4.5 k_B T$                    |
| $K_A, K_I$            | amino-acid substitution | ??, ??                                 |