| **Parameter** | **Boundaries (min-1)** | **Comments** | **References** |
| --- | --- | --- | --- |
| Translation rate in yeast (*kp*) | 0.2433 - 6.8067 | Considered the range 0.965 - 27 aa/s. Multiplied it by 238 aa in the GFP protein and scaled the values to minutes. | <http://identifiers.org/pubmed/16171830> |
| mRNA degradation rate in yeast (γ) | 0.0077 - 0.23 | Half-life between 3 and 90 min, with a median of 20 min. Boundary calculated using the formula log(2)/half-life | <http://identifiers.org/pubmed/11972065> |
| Protein degradation rate (γf) | 5.98e-5 - 0.2449 | log2(half Life) = [1.5 13.5 min]. Extracted half-life, hence log(2)/half-life | <http://identifiers.org/doi/10.1073/pnas.0605420103> |
| Maturation rate of fluorescent reporter (*kf*) | 0.012 - 0.0217 | YFP and CFP maturation rate 32-58 min (at 25°C). Converted. Calculated using log(2)/(Maturation rate) | <http://identifiers.org/doi/10.1038/nmeth1008> |
| Michaelis Menten co-efficient (*Kr*) | 2-10 µM | Taken from the dose-response curve of the Stelling model fitted with their experimental data.  The middle point is at 5.3 µM | This paper |
| Hill coefficient (*h*) | 0.5 - 4.9 [-] |  |  |
| Transcription rate (*v*) | 0.0388 - 0.4950 | 2.33 - 29.7 molecules/hour, converted to mins. | <http://identifiers.org/doi/10.1371/journal.pone.0015442> |
| Basal transcription rate (α) | 3.88e-5 - 0.4950 | Transcription rate above, reduced by 3 orders | Hypothetical |