|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Parameter | Description | SMT1=R1 | SMT2=R2 | SMT3=R3 | SMT1≠R1 | SMT2≠R2 | SMT3≠R3 | Unit |
| $$AIC$$ |  | 113.5 | **110.7** | 113.0 | 115.3 | **114.4** | 116.8 |  |
| $$ρ\_{T}$$ | $S$ secretion rate | 0.028 [0.023, 0.034] | 0.026 [0.02, 0.034] | 0.027 [0.021, 0.034] | 0.036 [0.012, 1000] | 0.045 [0.02, 0.1] | 0.036 [0.015, 0.08] | $$d^{-1}$$ |
| $$ρ\_{R}$$ | $S$ secretion rate |  |  |  | 0.026 [0, 0.033] | 0.026 [002, 0.03] | 0.026 [0.02, 0.034] | $$d^{-1}$$ |
| $$τ\_{ρ\_{T}}$$ | $S$ secretion delay | 0.01 [0.01, 0.26] | 0.01 [0.01, 0.04] | 0.01 [0.01, 0.04] | 0.005 [0.01, 0.5] | 0.02 [0.01, 5] | 0.01 [0.01, 5]  | $$d$$ |
| $$τ\_{ρ\_{R}}$$ | $S$ secretion delay |  |  |  | 0.34 [0.01, 0.9] | 0.36 [0.01, 0.73] | 0.16 [0.01, 0.77] | $$d$$ |
| $$k\_{ρ\_{T}}=k\_{ρ\_{R}} $$ | $S$ secretion rate parameter  | 100 \* | - | 0.01 \* | 0.1 \* | - | 0.01 \*  | $$d^{-1}$$ |
| $$T\_{0}$$ | Initial number of RNAs transfected into the cell | 250 [143, 250] | 239 [123, 450] | 233 [121, 440] | 191 [150, 250] | 191 [150, 250] | 190 [150, 250] | molecules/cell |
| $$C\_{max}$$ | Maximal number of $C$ | 31.9 [26.8, 38.1] | 32.1 [27.0, 38.4] | 32.2 [27.0, 38.4] | 32.3 [27.1, 38.5]  | 32.3 [27.1, 38.5] | 32.3 [27.1, 38.5] | molecules/cell |
| $$σ$$ | Rate of transfer of $T$ to the RC | 0.006 [0.0033, 0.01] | 0.006 [0.003, 0.01] | 0.006 [0.003, 0.01] | 0.007 [0.002, 0.02] | 0.007 [0.002, 0.02] | 0.007 [0.002, 0.02] | $$d^{-1}$$ |
| $$θ$$ | Rate of transfer of $R $to the cytoplasm | 0.42 [0.001, 0.77] | 0.42 [0.001, 0.77] | 0.42 [0.001, 0.77] | 0.42 [0.001, 0.78] | 0.42 [0.001, 0.78] | 0.42 [0.001, 0.77] | $$d^{-1}$$ |
| $$r$$ | $C$ replication rate | 3.8 [2.7, 5.4] | 3.7 [2.6, 5.3] | 3.7 [2.6, 5.3] | 3.7 [2.6, 5.3] | 3.7 [2.6, 5.3] | 3.7 [2.6, 5.3] | $$d^{-1}$$ |
| $$ α$$ | $R$ replication rate | 31.5 [24.3, 40.9] | 32.0 [24.5, 41.8] | 31.9 [24.5, 41.8] | 32.0 [24.5, 41.8] | 32.0 [24.5, 41.8] | 32.0 [24.5, 41.7] | $$d^{-1}$$ |
| $$μ\_{T}$$ | Cytoplasmic RNA degradation rate  | 23.2 [19.5, 25.4]  | 23.2 [18.8, 27.9]  | 23.0 [18.7, 27.7]  | 22.0 [15.5, 29.2] | 22.0 [15.6, 29.2] | 22.0 [15.6, 29.2] | $$d^{-1}$$ |
| $$μ\_{R}$$ | $R$ and $C $degradation rates | 0 | 0 | 0 | 0 | 0 | 0 | $$d^{-1}$$ |