**Table S3. Best-fit parameter values of the model.**

|  |  |  |
| --- | --- | --- |
| $$τ$$ | Delay in USP18 upregulation (hr) | 8 |
| $$k\_{1}$$ | Positive feedback strength (a.u.hr-1) | 33.33 |
| $$k\_{2}$$ | Positive feedback saturation constant (a.u.) | 274.29 |
| $$k\_{3}$$ | Negative feedback saturation constant (a.u.) | 549.99 |
| $$k\_{4}$$ | IRF9 production rate (a.u.hr-1) | 1.89 |
| $$k\_{5}$$ | USP18 production rate (a.u.hr-1) | 86.87 |
| $$IRF9\_{0}$$ | IRF9 basal level (a.u.) | 45 |
| $$USP18\_{0}$$ | USP18 basal level (a.u.) | 0 |