

Supporting Information B

The parameter bounds considered in the parameter estimation problem (5).

| Parameter | Bound |
|---------------|--|
| K_1 | $[10^{-6}, 10^2]$ mM |
| K_6 | $[10^{-6}, 10^2]$ mM |
| K_7 | $[10^{-6}, 10^2]$ mM |
| K_9 | $[1, 2 \times 10^5]$ mM |
| K_i | $[10^{-2}, 10^4]$ mM |
| V_1 | $[10^{-2}, 10^5]$ h ⁻¹ |
| V_9 | $[10^{-2}, 10^5]$ h ⁻¹ |
| α_8 | $[10^{-2}, 10^5]$ mM ⁻² h ⁻¹ |
| α_{10} | $[10^{-2}, 10^5]$ mM ⁻² h ⁻¹ |
| μ_{\max} | $[0.05, 0.8]$ h ⁻¹ |
| r_{Ah}^+ | $[10^{-2}, 50]$ mM h ⁻¹ |