|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | KV10.1 ∆PASCap | | | | KV10.1 E600R | | | | KV11.1 | | | |
| rate x | x0 [s‑1] | Ax  [s-1] | Vhx [V] | Kx [V-1] | x0 | Ax  [s-1] | Vhx [V] | Kx [V-1] | x0 | Ax  [s-1] | Vhx [V] | Kx [V-1] |
| α | 8 | 192 | 0.09 | -55 | 8 | 192 | 0.09 | -55 | 0.5 | 99.5 | 0.09 | -30 |
| β | 4 | 596 | -0.13 | 80 | 4 | 596 | -0.13 | 80 | 1.2 | 16.8 | -0.1 | 80 |
| γ | 5 | 595 | 0.05 | -30 | 5 | 595 | 0.05 | -30 | 2.5 | 297.5 | 0.05 | -30 |
| δ | 15 | 235 | 0.055 | 30 | 15 | 235 | 0.055 | 30 | 7.5 | 117.5 | 0.025 | 30 |
| ε | 200 | 0 | — | — | 200 | 0 | — | — | 200 | 0 | — | — |
| ζ | 660 | 0 | — | — | 1440 | 0 | — | — | 24000 | 0 | — | — |
| η | 80 | 320 | 0 | -80 | 80 | 320 | 0 | -80 | 80 | 320 | 0 | -80 |
| θ | 16 | 44 | 0 | -50 | 16 | 44 | 0 | -50 | 16 | 44 | 0 | -50 |
| κR | 0.125 | 69.875 | -0.1 | 200 | 0.125 | 69.875 | -0.1 | 200 | 0.65 | 119.35 | -0.1 | 200 |
| κL | 0.125 | 499.875 | 0.09 | -130 | 0.125 | 499.875 | 0.09 | -130 | 0.65 | 499.35 | 0.09 | -130 |
| λ | 0.1 | 999.9 | -0.12 | 170 | 0.1 | 999.9 | -0.12 | 170 | 0.1 | 999.9 | -0.115 | 180 |
| ropen | 100 | 0 | — | — | 30 | 0 | — | — | 30 | 0 | — | — |
| rclose | 450 | 0 | — | — | 330 | 0 | — | — | 5970 | 0 | — | — |

**Table S2.** Model parameters.