Additional file 4 — Table S1

Table S1: Estimated model parameters for the MAP kinase pathway. Estimated value: the estimated value for each parameter. STD: standard deviation of the 100 estimates in the final generation. $[W_{min}, W_{max}]$: prior distribution of each parameter.

Kinetic rates	a_1	a_2	a_3	a_4	a_5	a_6	a_7
Estimated value	66.0452	0.9584	0.0121	15.3943	35.7607	5.7297	5.0556
STD	13.7871	0.6568	0.0031	0.3849	0.9216	0.1316	2.0026
$\boldsymbol{W_{min}}$	20	0	0	10	25	1	0
$\boldsymbol{W_{max}}$	120	5	0.05	20	50	10	15
Kinetic rates	d_1	d_2	d_3	d_4	d_5	d_6	d_7
Estimated value	0.1176	60.4114	35.3809	36.2956	16.3216	44.2443	2.4649
STD	0.08	3.2385	1.2341	2.0504	0.6656	1.5363	0.0958
$\boldsymbol{W_{min}}$	0	30	25	25	10	30	1
$\boldsymbol{W_{max}}$	0.5	80	50	50	25	60	5
Kinetic rates	k_1	k_2	k_3	k_4	k_5	k_6	k_7
Estimated value	25.248	12.1591	5.3689	59.3748	29.3347	28.6955	27.5407
STD	0.7066	0.4916	0.4452	3.551	1.6659	1.2889	0.553
$\boldsymbol{W_{min}}$	20	5	1	40	20	20	20
$\boldsymbol{W_{max}}$	50	20	10	80	50	50	50