

**S6 Table: Model comparisons when  $\omega$  is varied 1/2 and 2 times its set point estimate used in Table 1 in the main text. Median log-likelihood values, BIC and DIC values for all models considered are reported.**

Model	Log-likelihood	BIC	DIC
Low value: $\omega = 5 \times 10^3$ copies/cell			
0	-2452	4938	4909
1	-2376	4793	4758
$OAS_1$	-2377	4801	4760
$OAS_2$	-2376	4806	4759
$ADE$	-2376	4800	4759
$SS_\beta$	-2362	4778	4731
$SS_q$	-2376	4806	4760
$SS_{qT}$	-2366	4787	4740
$SS_{\beta ADE}$	-2364	4803	4737
High value: $\omega = 2 \times 10^4$ copies/cell			
0	-2393	4821	4792
1	-2336	4714	4678
$OAS_1$	-2337	4722	4680
$OAS_2$	-2336	4728	4679
$ADE$	-2336	4721	4679
$SS_\beta$	-2324	4703	4655
$SS_q$	-2335	4724	4675
$SS_{qT}$	-2326	4708	4660
$SS_{\beta ADE}$	-2326	4728	4660