

Strain	α_1 (confidence interval)	α_2 (confidence interval)	α_3 (confidence interval)	χ^2 (χ^2_{crit})	good fit
Excluding gene-expression noise					
WT 2 (0 mM)	NA	NA	$1.158 \cdot 10^{-8}$ ($0, 2.584 \cdot 10^{-8}$)	6.08 (11.07)	yes
WT 2 (0.1 mM)	$3.910 \cdot 10^{-14}$ ($0, 2.398 \cdot 10^{-13}$)	$3.344 \cdot 10^{-8}$ ($1.927 \cdot 10^{-8}, 4.731 \cdot 10^{-8}$)	$2.165 \cdot 10^{-9}$ ($0, 5.989 \cdot 10^{-9}$)	13.24 (18.31)	yes
QEEE	$2.428 \cdot 10^{-13}$ ($0, 1.804 \cdot 10^{-12}$)	NA	$8.244 \cdot 10^{-9}$ ($4.701 \cdot 10^{-9}, 1.173 \cdot 10^{-8}$)	6.35 (9.49)	yes
QEQE	$8.197 \cdot 10^{-15}$ ($0, 4.521 \cdot 10^{-13}$)	$1.565 \cdot 10^{-7}$ ($1.200 \cdot 10^{-7}, 1.928 \cdot 10^{-7}$)	$3.923 \cdot 10^{-9}$ ($0, 8.051 \cdot 10^{-9}$)	6.85 (7.81)	yes
QEQQ	$3.494 \cdot 10^{-12}$ ($0, 9.358 \cdot 10^{-12}$)	$1.298 \cdot 10^{-6}$ ($1.061 \cdot 10^{-6}, 1.521 \cdot 10^{-6}$)	$1.400 \cdot 10^{-8}$ ($0, 4.910 \cdot 10^{-8}$)	11.30 (14.07)	yes
QQQQ	0 ($0, 1.074 \cdot 10^{-11}$)	$1.528 \cdot 10^{-7}$ ($0, 3.208 \cdot 10^{-7}$)	$8.241 \cdot 10^{-8}$ ($5.620 \cdot 10^{-8}, 1.081 \cdot 10^{-7}$)	10.56 (14.07)	yes
Including gene-expression noise					
WT 2 (0 mM)	NA	NA	$6.494 \cdot 10^{-8}$ ($3.656 \cdot 10^{-8}, 9.284 \cdot 10^{-8}$)	6.02 (11.07)	yes
WT 2 (0.1 mM)	0 ($0, 2.273 \cdot 10^{-12}$)	0 ($0, 1.384 \cdot 10^{-7}$)	$1.525 \cdot 10^{-6}$ ($1.349 \cdot 10^{-6}, 1.702 \cdot 10^{-6}$)	15.82 (18.31)	yes
QEEE	0 ($0, 2.297 \cdot 10^{-11}$)	NA	$1.674 \cdot 10^{-6}$ ($1.553 \cdot 10^{-6}, 1.795 \cdot 10^{-6}$)	6.80 (9.49)	yes
QEQE	0 ($0, 2.492 \cdot 10^{-12}$)	$5.343 \cdot 10^{-7}$ ($2.932 \cdot 10^{-7}, 7.649 \cdot 10^{-7}$)	$3.670 \cdot 10^{-7}$ ($3.403 \cdot 10^{-7}, 3.934 \cdot 10^{-7}$)	6.02 (7.81)	yes
QEQQ	$2.459 \cdot 10^{-12}$ ($0, 6.727 \cdot 10^{-12}$)	$1.200 \cdot 10^{-6}$ ($1.024 \cdot 10^{-6}, 1.376 \cdot 10^{-6}$)	$2.014 \cdot 10^{-7}$ ($1.754 \cdot 10^{-7}, 2.274 \cdot 10^{-7}$)	11.33 (14.07)	yes
QQQQ	$3.287 \cdot 10^{-11}$ ($0, 7.961 \cdot 10^{-11}$)	$3.018 \cdot 10^{-6}$ ($2.662 \cdot 10^{-6}, 3.374 \cdot 10^{-6}$)	$3.292 \cdot 10^{-7}$ ($2.742 \cdot 10^{-7}, 3.845 \cdot 10^{-7}$)	11.90 (14.07)	yes