

Table S1 Parameters used for 3-step SS of SG assembly

Parameter	Value	Unit
TIA_1	9081	molecules
TIA_2	0	molecules
TIA_3	0	molecules
TIA^*	0	molecules
k_{1-1}	7×10^4	/M/s
k_{1-2}	5×10^4	/M/s
k_{1-3}	10^5	/M/s
k_{1-4}	2×10^6	/M/s
k_{2-2}	10^6	/M/s
k_{2-3}	10^6	/M/s
k_{2-4}	10^6	/M/s
k_{3-3}	10^6	/M/s
k_{3-4}	10^6	/M/s
k_{4-4}	10^6	/M/s
k_{b2}	1	/s
k_{b3}	0.1	/s
k_{b4}	3×10^{-3}	/s
D_{TIA1-3}	10^{-11}	m^2/s
D_{TIA^*}	10^{-16}	m^2/s
r_{cell}	6	μm
h_{cell}	1.5	μm
$r_{nucleus}$	2	μm
$h_{nucleus}$	1.5	μm
p_n	0.6	–
p_m	0.4	–