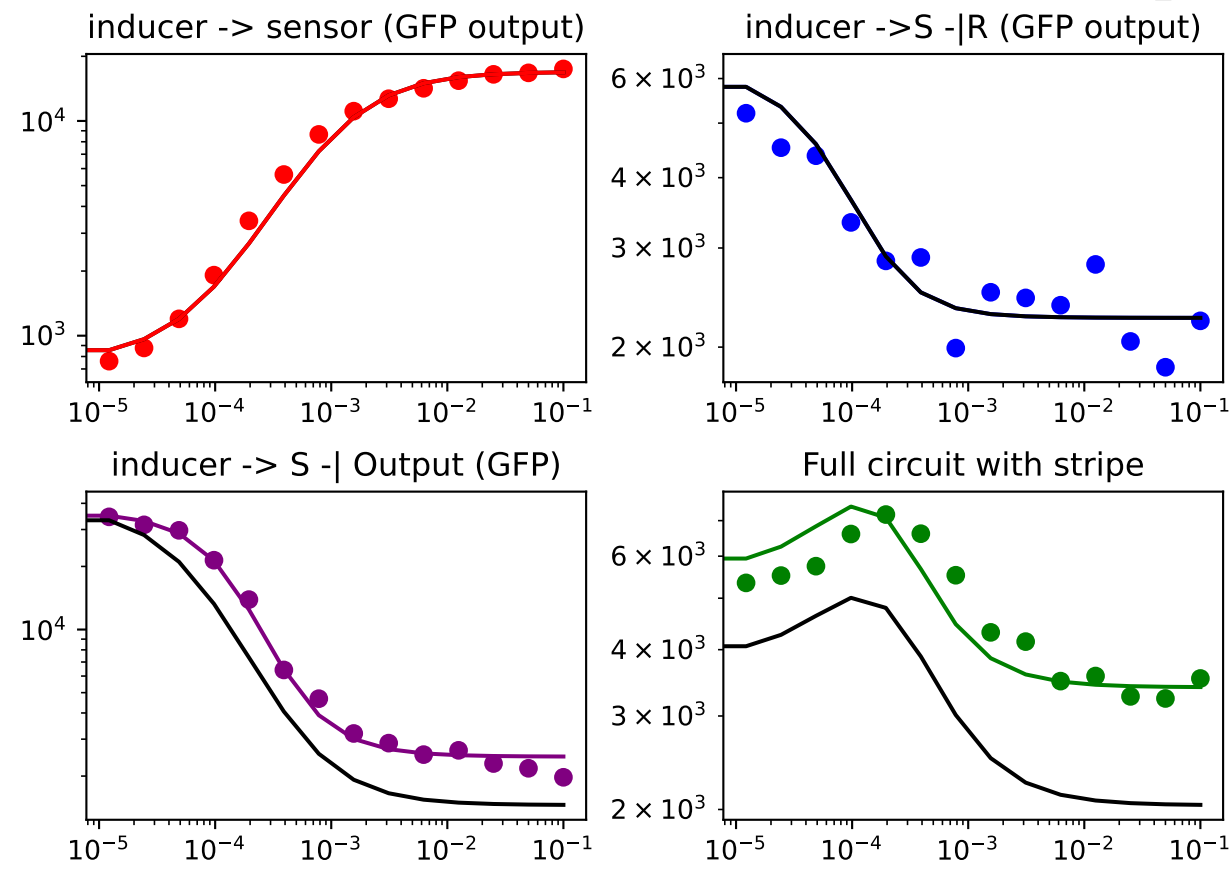


['SM data type data plots for mutation', 'Output7', 'using model:', 'model\_hill.model']



Initial Guess  
Converged  
Converged  
Converged  
Converged

time elapsed for this fit  
--- 12.762444734573364 seconds ---

Across all four plots:

RSS (converged)=0.142  
RSS (initial)=1.216  
RSS (% reduction)=0.896

	epsilon	Initial_guesses	Converged
A_s	0.000000e+00	7.671584e+02	767.158409
B_s	0.000000e+00	1.694202e+04	16942.019302
C_s	0.000000e+00	8.969736e+02	896.973585
N_s	0.000000e+00	1.151182e+00	1.151182
A_r	0.000000e+00	2.229804e+03	2229.803862
B_r	0.000000e+00	8.961652e+03	8961.651645
C_r	0.000000e+00	1.461384e-03	0.001461
N_r	0.000000e+00	1.841235e+00	1.841235
A_o	1.169018e+03	9.859837e+02	2155.001375
B_o	-1.797228e+07	1.801530e+07	43018.382100
C_o	-1.003938e-01	1.010522e-01	0.000658
N_o	6.100319e-01	1.417996e+00	2.028028
F_o	-6.455885e-02	1.477611e+00	1.413052

message: Optimization terminated successfully.  
success: True  
status: 0  
fun: 0.1415481451395853  
x: [ 7.672e+02 1.694e+04 ... 2.028e+00 1.413e+00]  
nit: 3280  
nfev: 4668  
final\_simplex: (array([[ 7.672e+02, 1.694e+04, ..., 2.028e+00, 1.413e+00],  
[ 7.672e+02, 1.694e+04, ..., 2.028e+00, 1.413e+00],  
...,  
[ 7.672e+02, 1.694e+04, ..., 2.028e+00, 1.413e+00],  
[ 7.672e+02, 1.694e+04, ..., 2.028e+00, 1.413e+00]]), array([ 1.415e-01, 1.415e-01, ..., 1.415e-01, 1.415e-01]))