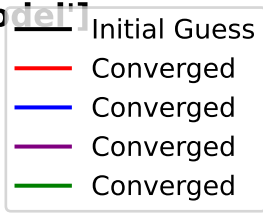
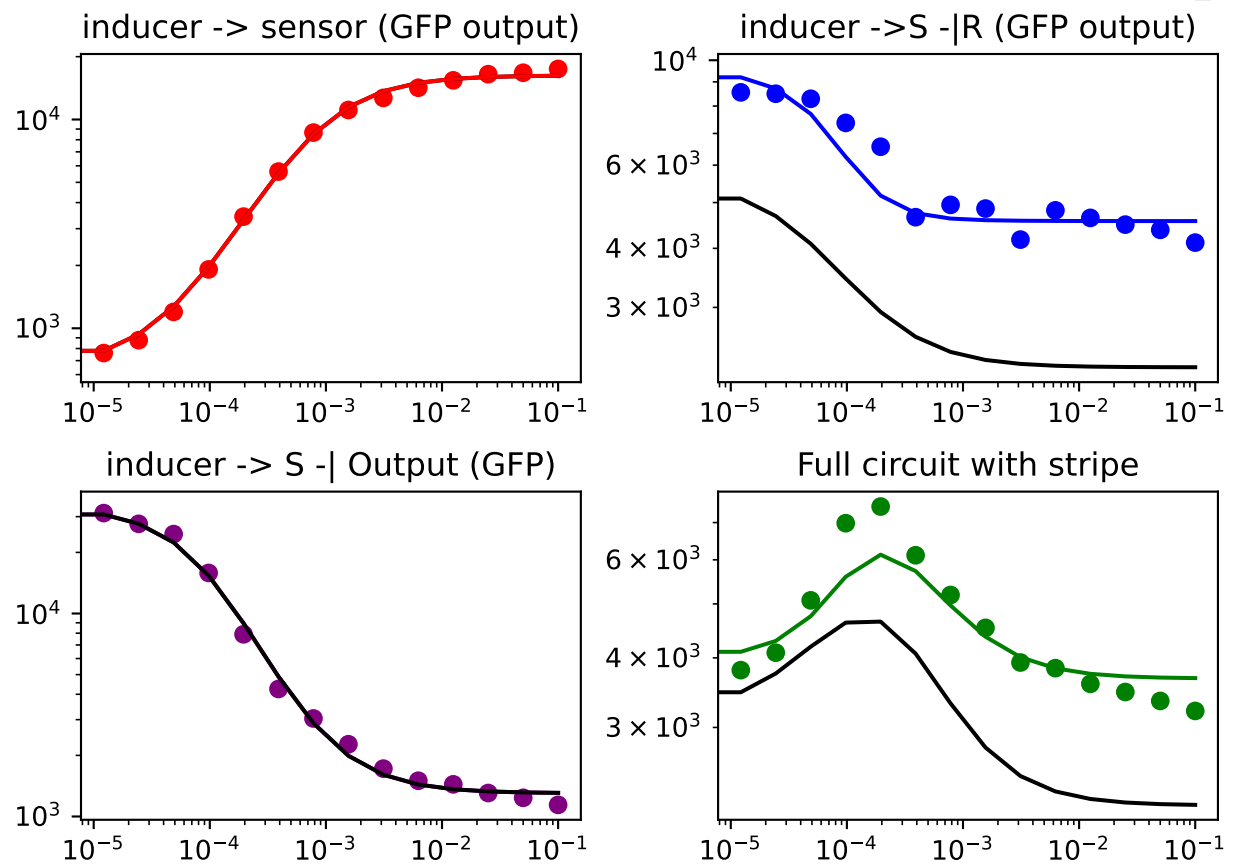


['SM data type data plots for mutation', 'Regulator5', 'using model:', 'model\_hill.model']



time elapsed for this fit  
--- 4.801693439483643 seconds ---

Across all four plots:

RSS (converged)=0.085

RSS (initial)=1.717

RSS (% reduction)=0.953

	epsilon	Initial_guesses	Converged
A_s	0.000000	650.714912	650.714912
B_s	0.000000	16259.979950	16259.979950
C_s	0.000000	1296.448889	1296.448889
N_s	0.000000	1.154067	1.154067
A_r	2532.613176	2020.019216	4552.632392
B_r	-17742.650664	23688.809187	5946.158523
C_r	-0.009609	0.010358	0.000749
N_r	1.465656	0.910072	2.375728
A_h	0.000000	143.802212	143.802212
B_h	0.000000	50238.271408	50238.271408
C_h	0.000000	0.000929	0.000929
A_o	0.000000	1.673894	1.673894
B_o	0.000000	0.895342	0.895342
C_o	0.000000	2.657699	2.657699
N_o	0.000000	1.379953	1.379953
F_o	2.690704	2.361284	5.051988

message: Optimization terminated successfully.  
success: True  
status: 0  
fun: 0.08467137962573197  
x: [ 6.507e+02 1.626e+04 ... 1.380e+00 5.052e+00]  
nit: 1574  
nfev: 2300  
final\_simplex: (array([[ 6.507e+02, 1.626e+04, ..., 1.380e+00, 5.052e+00],  
[ 6.507e+02, 1.626e+04, ..., 1.380e+00, 5.052e+00],  
...,  
[ 6.507e+02, 1.626e+04, ..., 1.380e+00, 5.052e+00],  
[ 6.507e+02, 1.626e+04, ..., 1.380e+00, 5.052e+00]]), array([ 8.467e-02, 8.467e-02, ..., 8.467e-02, 8.467e-02]))