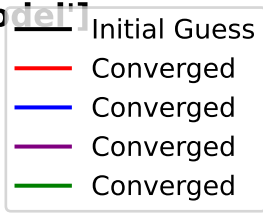
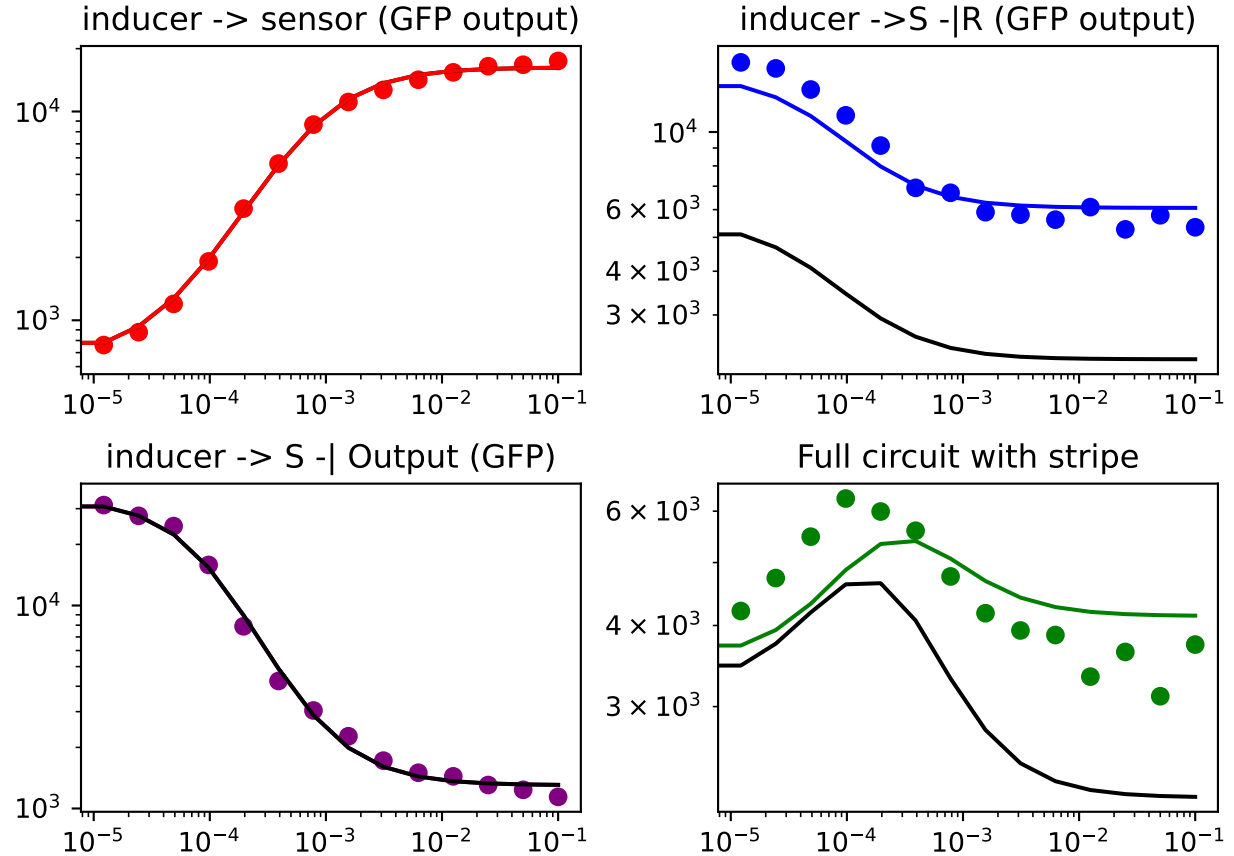


['SM data type data plots for mutation', 'Regulator6', 'using model:', 'model\_hill.model']



time elapsed for this fit  
--- 7.425958633422852 seconds ---

Across all four plots:

RSS (converged)=0.144  
RSS (initial)=3.404  
RSS (% reduction)=0.959

	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	3554.227434	2020.019216	5574.246650
B_r	-789.838238	23688.809187	22898.970949
C_r	-0.008017	0.010358	0.002340
N_r	0.138585	0.910072	1.048657
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	4.030643	2.361284	6.391927

message: Optimization terminated successfully.  
success: True  
status: 0  
fun: 0.14410987576836226  
x: [ 6.507e+02 1.626e+04 ... 1.380e+00 6.392e+00]  
nit: 2481  
nfev: 3551  
final\_simplex: (array([[ 6.507e+02, 1.626e+04, ..., 1.380e+00, 6.392e+00],  
[ 6.507e+02, 1.626e+04, ..., 1.380e+00, 6.392e+00],  
...,  
[ 6.507e+02, 1.626e+04, ..., 1.380e+00, 6.392e+00],  
[ 6.507e+02, 1.626e+04, ..., 1.380e+00, 6.392e+00]]), array([ 1.441e-01, 1.441e-01, ..., 1.441e-01, 1.441e-01]))