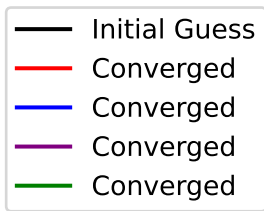
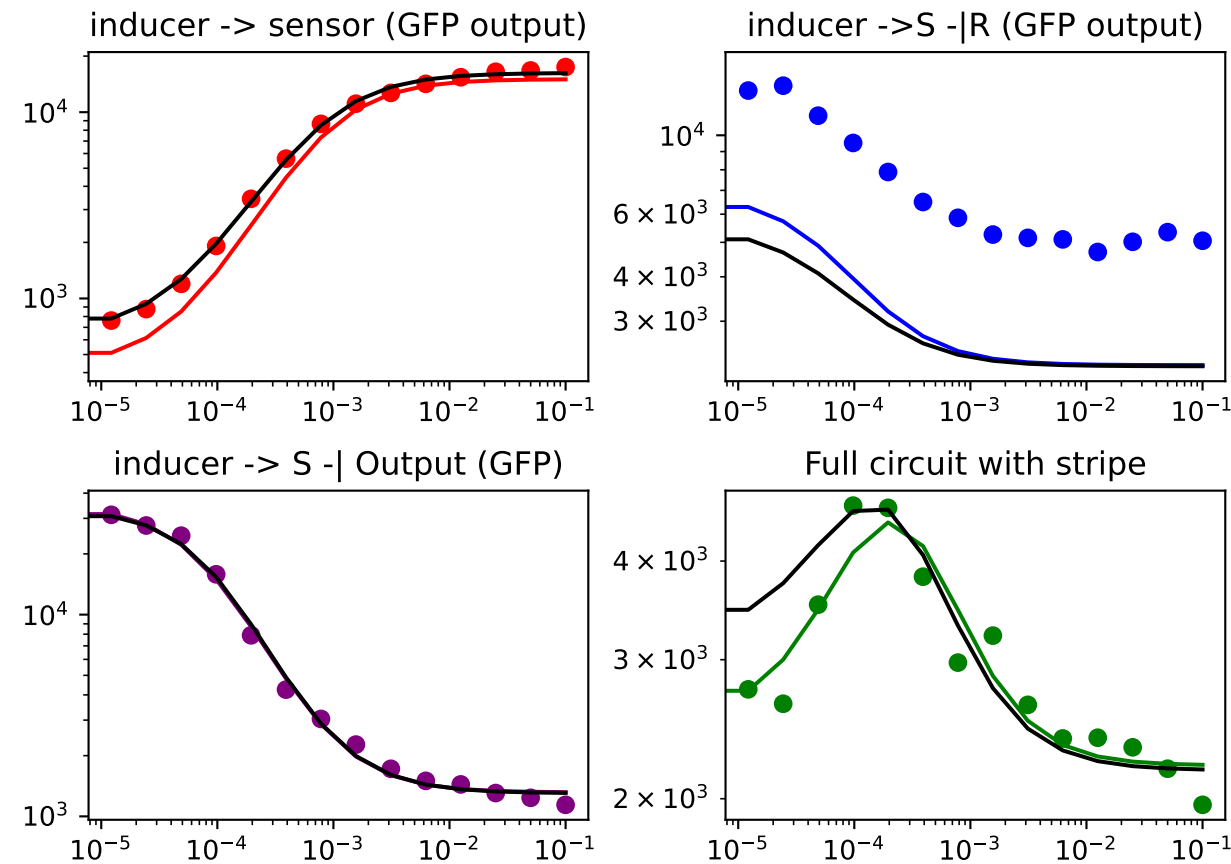


['SM data type data plots for mutation', 'Regulator3', 'using model:', 'model']



time elapsed for this fit
--- 13.365216255187988 seconds ---

Across all four plots:

RSS (converged)=2.174

RSS (initial)=2.427

RSS (% reduction)=0.528

	epsilon	Initial_guesses	Converged
A_s	-218.002186	650.714912	4.327127e+02
B_s	-1214.831890	16259.979950	1.504515e+04
C_s	-131.182061	1296.448889	1.165267e+03
N_s	0.075502	1.154067	1.229569e+00
A_r	0.000000	2020.019216	2.020019e+03
B_r	0.000000	23688.809187	2.368881e+04
C_r	0.000000	0.010358	1.035760e-02
N_r	0.000000	0.910072	9.100723e-01
A_h	-143.802212	143.802212	4.465639e-10
B_h	19413.802003	50238.271408	6.965207e+04
C_h	0.001398	0.000929	2.326791e-03
A_o	-1.327771	1.673894	3.461237e-01
B_o	0.684169	0.895342	1.579511e+00
C_o	0.005811	2.657699	2.663510e+00
N_o	-0.268733	1.379953	1.111219e+00
F_o	-0.828700	2.361284	1.532584e+00

message: Optimization terminated successfully.
success: True
status: 0
fun: 2.173946679421257
x: [4.327e+02 1.505e+04 ... 1.111e+00 1.533e+00]
nit: 4835
nfev: 6523
final_simplex: (array([[4.327e+02, 1.505e+04, ..., 1.111e+00, 1.533e+00],
[4.327e+02, 1.505e+04, ..., 1.111e+00, 1.533e+00],
...,
[4.327e+02, 1.505e+04, ..., 1.111e+00, 1.533e+00],
[4.327e+02, 1.505e+04, ..., 1.111e+00, 1.533e+00]]), array([2.174e+00, 2.174e+00, ..., 2.174e+00, 2.174e+00]))