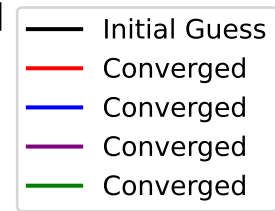
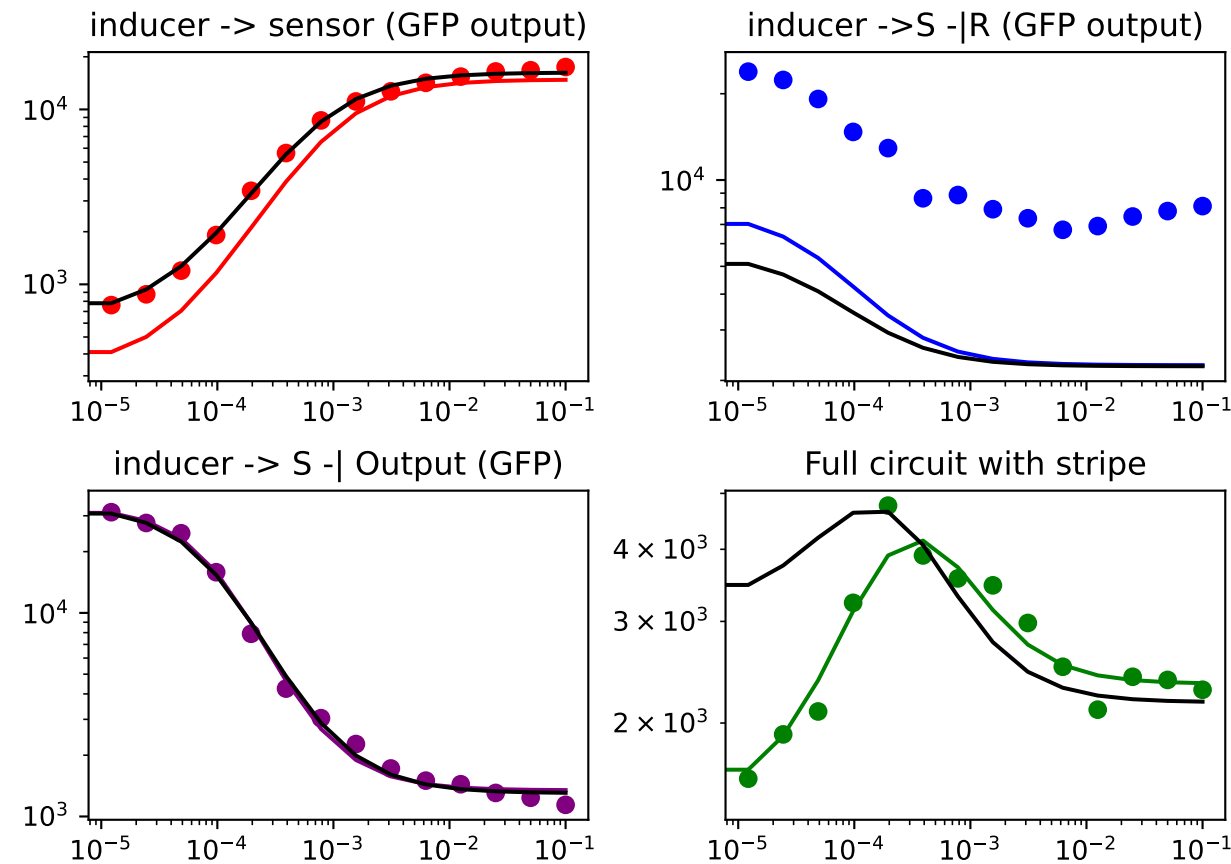


['SM data type data plots for mutation', 'Regulator1', 'using model:', 'model']



time elapsed for this fit
--- 13.056551694869995 seconds ---

Across all four plots:

RSS (converged)=4.634

RSS (initial)=5.544

RSS (% reduction)=0.545

	epsilon	Initial_guesses	Converged
A_s	-310.429862	650.714912	3.402851e+02
B_s	-1440.700075	16259.979950	1.481928e+04
C_s	-293.220965	1296.448889	1.003228e+03
N_s	0.056646	1.154067	1.210713e+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	542.815927	143.802212	6.866181e+02
B_h	-6709.074624	50238.271408	4.352920e+04
C_h	0.000416	0.000929	1.345610e-03
A_o	-1.673894	1.673894	1.044260e-14
B_o	1.584430	0.895342	2.479772e+00
C_o	1.829404	2.657699	4.487103e+00
N_o	0.015781	1.379953	1.395733e+00
F_o	0.583562	2.361284	2.944846e+00

message: Optimization terminated successfully.
success: True
status: 0
fun: 4.6342047511992694
x: [3.403e+02 1.482e+04 ... 1.396e+00 2.945e+00]
nit: 4655
nfev: 6183
final_simplex: (array([[3.403e+02, 1.482e+04, ..., 1.396e+00, 2.945e+00],
[3.403e+02, 1.482e+04, ..., 1.396e+00, 2.945e+00],
...,
[3.403e+02, 1.482e+04, ..., 1.396e+00, 2.945e+00],
[3.403e+02, 1.482e+04, ..., 1.396e+00, 2.945e+00]]), array([4.634e+00, 4.634e+00, ..., 4.634e+00, 4.634e+00]))