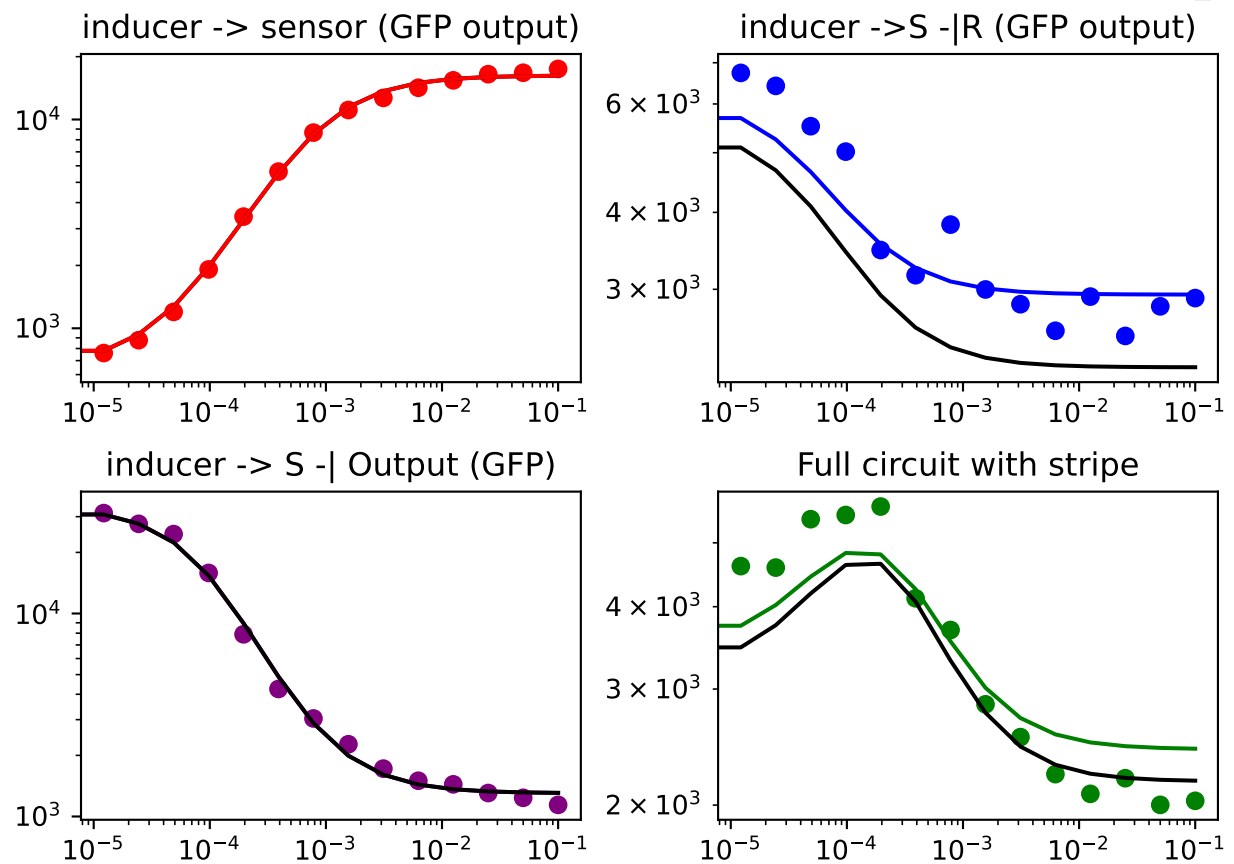


['SM data type data plots for mutation', 'Regulator8', 'using model:', 'model_hill.model']



Initial Guess
Converged
Converged
Converged
Converged

time elapsed for this fit
--- 7.053142309188843 seconds ---

Across all four plots:
RSS (converged)=0.129
RSS (initial)=0.285
RSS (% reduction)=0.688

	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	743.836049	2020.019216	2763.855265
B_r	25288.132194	23688.809187	48976.941381
C_r	0.013522	0.010358	0.023880
N_r	0.032085	0.910072	0.942158
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	0.498649	2.361284	2.859933

message: Optimization terminated successfully.
success: True
status: 0
fun: 0.12937672004405387
x: [6.507e+02 1.626e+04 ... 1.380e+00 2.860e+00]
nit: 2313
nfev: 3393
final_simplex: (array([[6.507e+02, 1.626e+04, ..., 1.380e+00, 2.860e+00],
[6.507e+02, 1.626e+04, ..., 1.380e+00, 2.860e+00],
...,
[6.507e+02, 1.626e+04, ..., 1.380e+00, 2.860e+00],
[6.507e+02, 1.626e+04, ..., 1.380e+00, 2.860e+00]]), array([1.294e-01, 1.294e-01, ..., 1.294e-01, 1.294e-01]))