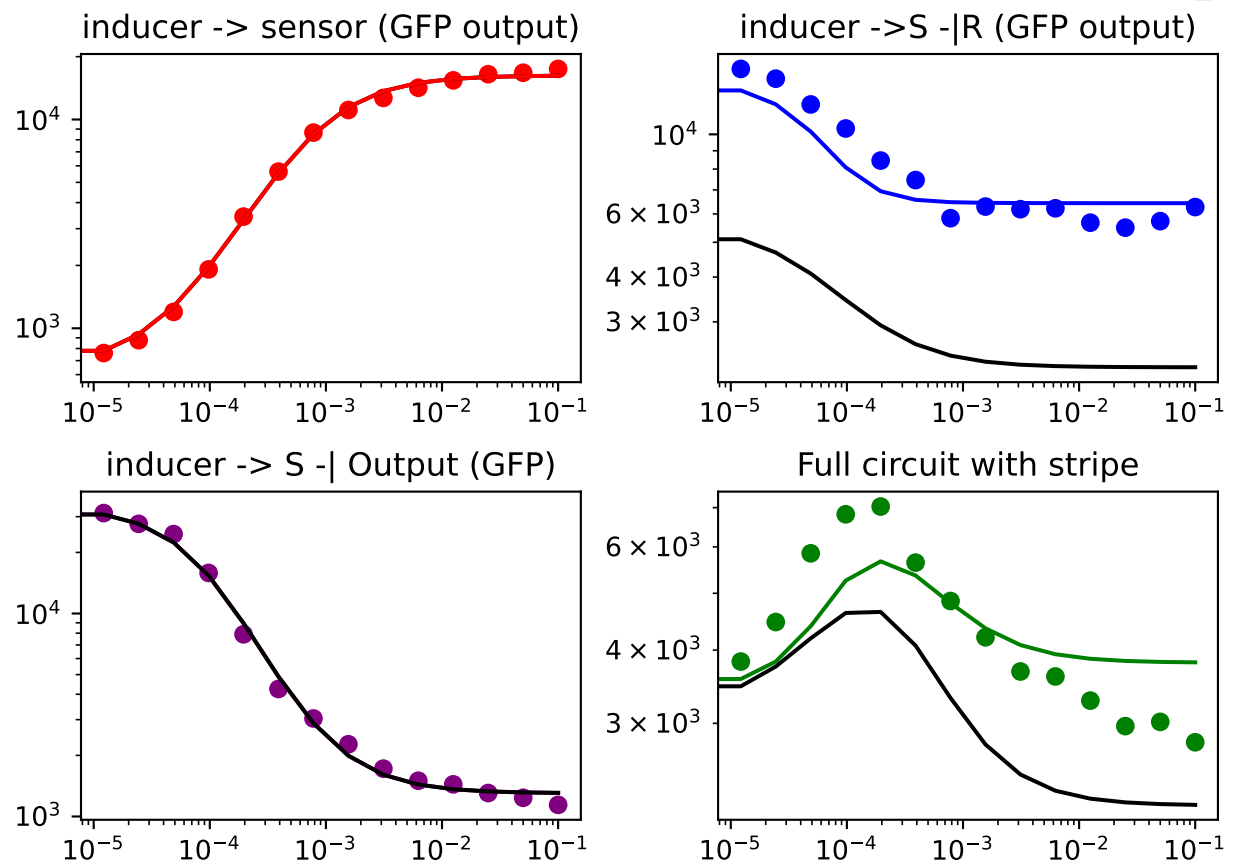


['SM data type data plots for mutation', 'Regulator9', 'using model:', 'model_hill.model']



Initial Guess
Converged
Converged
Converged
Converged

time elapsed for this fit
--- 5.53923487663269 seconds ---

Across all four plots:
RSS (converged)=0.173
RSS (initial)=3.258
RSS (% reduction)=0.95

	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	4396.298948	2020.019216	6416.318164
B_r	-13187.061616	23688.809187	10501.747571
C_r	-0.009362	0.010358	0.000996
N_r	1.564791	0.910072	2.474863
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	3.669055	2.361284	6.030338

message: Optimization terminated successfully.
success: True
status: 0
fun: 0.1726577105804
x: [6.507e+02 1.626e+04 ... 1.380e+00 6.030e+00]
nit: 1831
nfev: 2647
final_simplex: (array([[6.507e+02, 1.626e+04, ..., 1.380e+00, 6.030e+00],
[6.507e+02, 1.626e+04, ..., 1.380e+00, 6.030e+00],
...,
[6.507e+02, 1.626e+04, ..., 1.380e+00, 6.030e+00],
[6.507e+02, 1.626e+04, ..., 1.380e+00, 6.030e+00]]), array([1.727e-01, 1.727e-01, ..., 1.727e-01, 1.727e-01]))