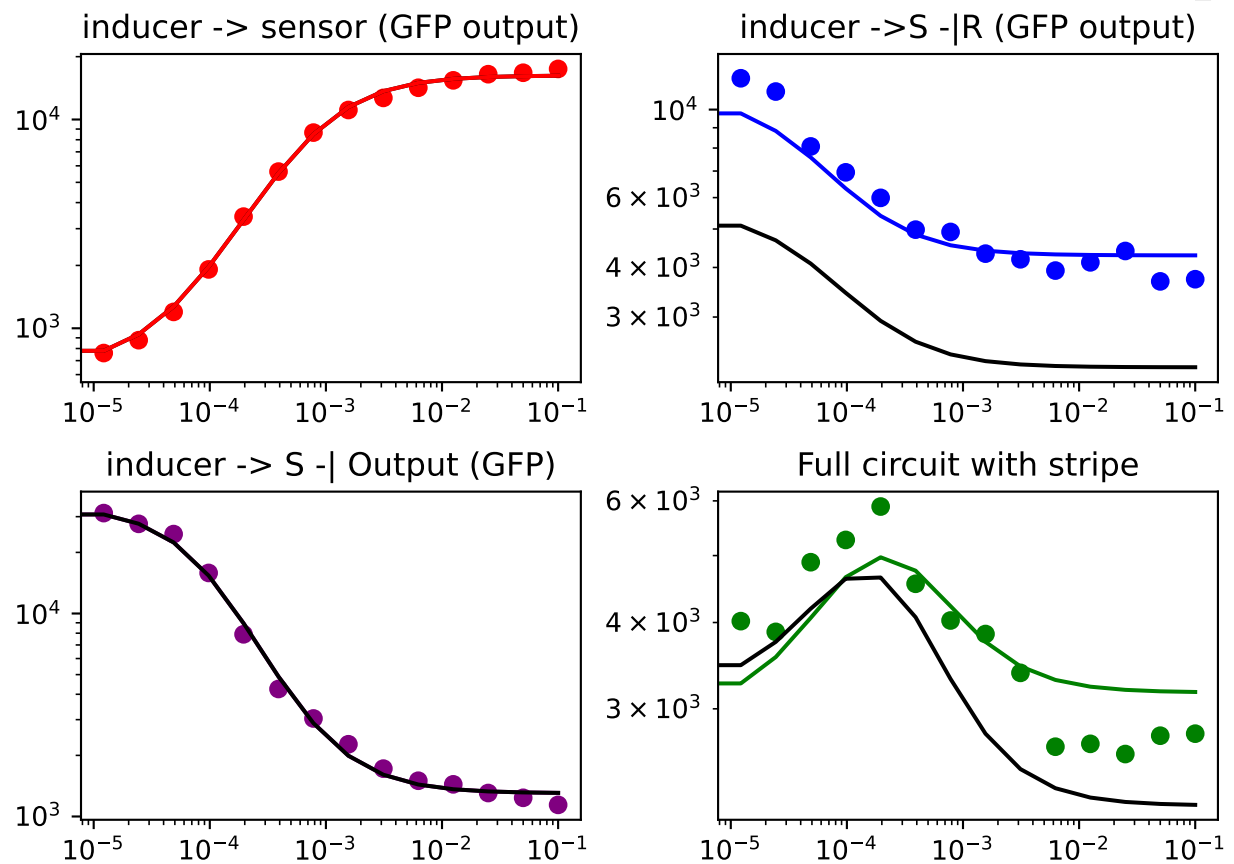


['SM data type data plots for mutation', 'Regulator4', 'using model:', 'model_hill.model']



Initial Guess
Converged
Converged
Converged
Converged

time elapsed for this fit
--- 739.2025649547577 seconds ---

Across all four plots:

RSS (converged)=0.131

RSS (initial)=1.446

RSS (% reduction)=0.917

	epsilon	Initial_guesses	Converged
A_s	0.000000e+00	650.714912	6.507149e+02
B_s	0.000000e+00	16259.979950	1.625998e+04
C_s	0.000000e+00	1296.448889	1.296449e+03
N_s	0.000000e+00	1.154067	1.154067e+00
A_r	1.977967e+03	2020.019216	3.997986e+03
B_r	9.439413e+11	23688.809187	9.439413e+11
C_r	2.902249e+05	0.010358	2.902249e+05
N_r	7.292641e-02	0.910072	9.829987e-01
A_h	0.000000e+00	143.802212	1.438022e+02
B_h	0.000000e+00	50238.271408	5.023827e+04
C_h	0.000000e+00	0.000929	9.291293e-04
A_o	0.000000e+00	1.673894	1.673894e+00
B_o	0.000000e+00	0.895342	8.953419e-01
C_o	0.000000e+00	2.657699	2.657699e+00
N_o	0.000000e+00	1.379953	1.379953e+00
F_o	1.891823e+00	2.361284	4.253107e+00

message: Maximum number of iterations has been exceeded.
success: False
status: 2
fun: 0.1312547030364287
x: [6.507e+02 1.626e+04 ... 1.380e+00 4.253e+00]
nit: 100000
nfev: 369606
final_simplex: (array([[6.507e+02, 1.626e+04, ..., 1.380e+00, 4.253e+00],
[6.507e+02, 1.626e+04, ..., 1.380e+00, 4.253e+00],
...,
[6.507e+02, 1.626e+04, ..., 1.380e+00, 4.253e+00],
[6.507e+02, 1.626e+04, ..., 1.380e+00, 4.253e+00]]), array([1.313e-01, 1.313e-01, ..., 1.313e-01, 1.313e-01]))