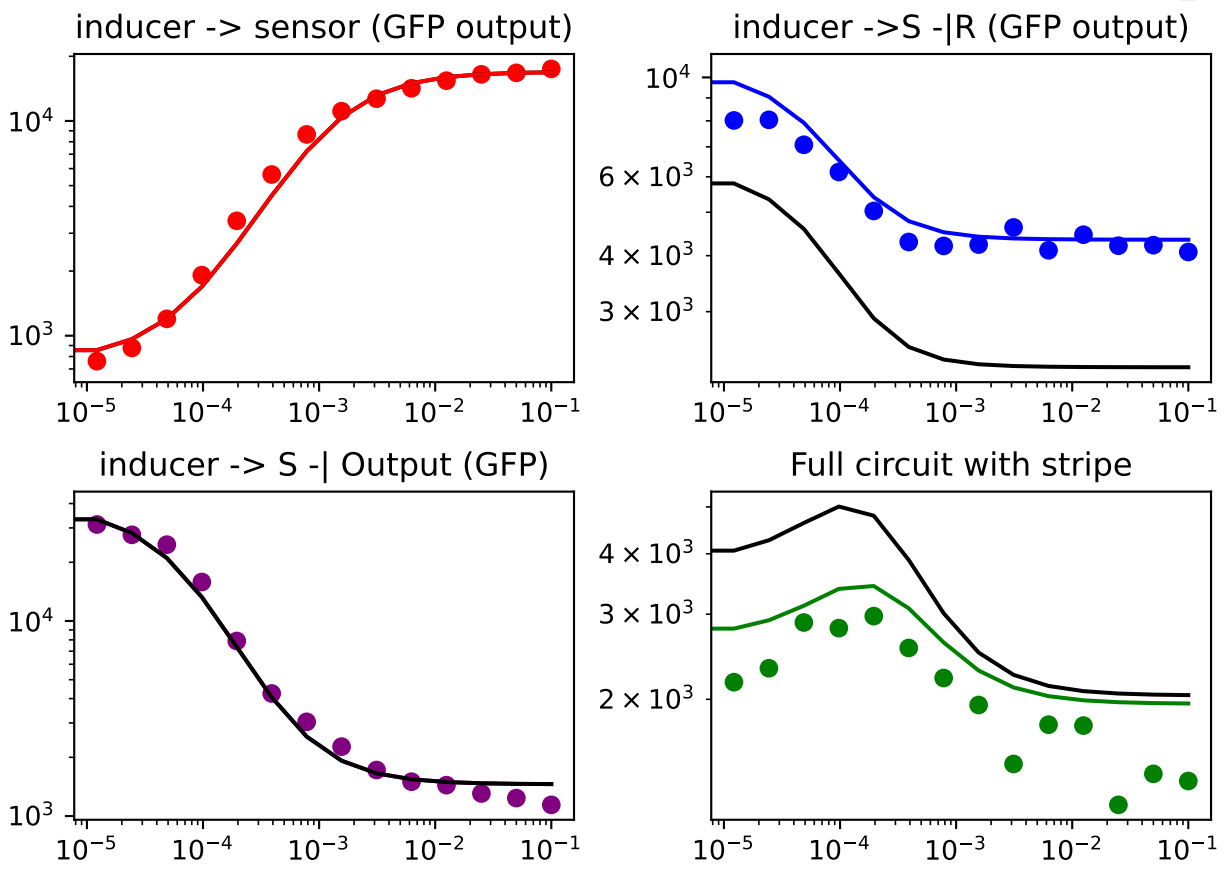


['SM data type data plots for mutation', 'Regulator10', 'using model:', 'model_hill.model_2']



Initial Guess
Converged
Converged
Converged
Converged

time elapsed for this fit
--- 3.3137896060943604 seconds ---

Across all four plots:

RSS (converged)=0.294

RSS (initial)=1.548

RSS (% reduction)=0.84

	epsilon	Initial_guesses	Converged
A_s	0.000000	7.671584e+02	7.671584e+02
B_s	0.000000	1.694202e+04	1.694202e+04
C_s	0.000000	8.969736e+02	8.969736e+02
N_s	0.000000	1.151182e+00	1.151182e+00
A_r	2058.038253	2.229804e+03	4.287842e+03
B_r	7528.988809	8.961652e+03	1.649064e+04
C_r	0.000312	1.461384e-03	1.773319e-03
N_r	-0.160631	1.841235e+00	1.680604e+00
A_o	0.000000	9.859837e+02	9.859837e+02
B_o	0.000000	1.801530e+07	1.801530e+07
C_o	0.000000	1.010522e-01	1.010522e-01
N_o	0.000000	1.417996e+00	1.417996e+00
F_o	0.000000	1.477611e+00	1.477611e+00

message: Optimization terminated successfully.
success: True
status: 0
fun: 0.2943876364843967
x: [7.672e+02 1.694e+04 ... 1.418e+00 1.478e+00]
nit: 727
nfev: 1217
final_simplex: (array([[7.672e+02, 1.694e+04, ..., 1.418e+00, 1.478e+00],
[7.672e+02, 1.694e+04, ..., 1.418e+00, 1.478e+00],
...,
[7.672e+02, 1.694e+04, ..., 1.418e+00, 1.478e+00],
[7.672e+02, 1.694e+04, ..., 1.418e+00, 1.478e+00]]), array([2.944e-01, 2.944e-01, ..., 2.944e-01, 2.944e-01]))