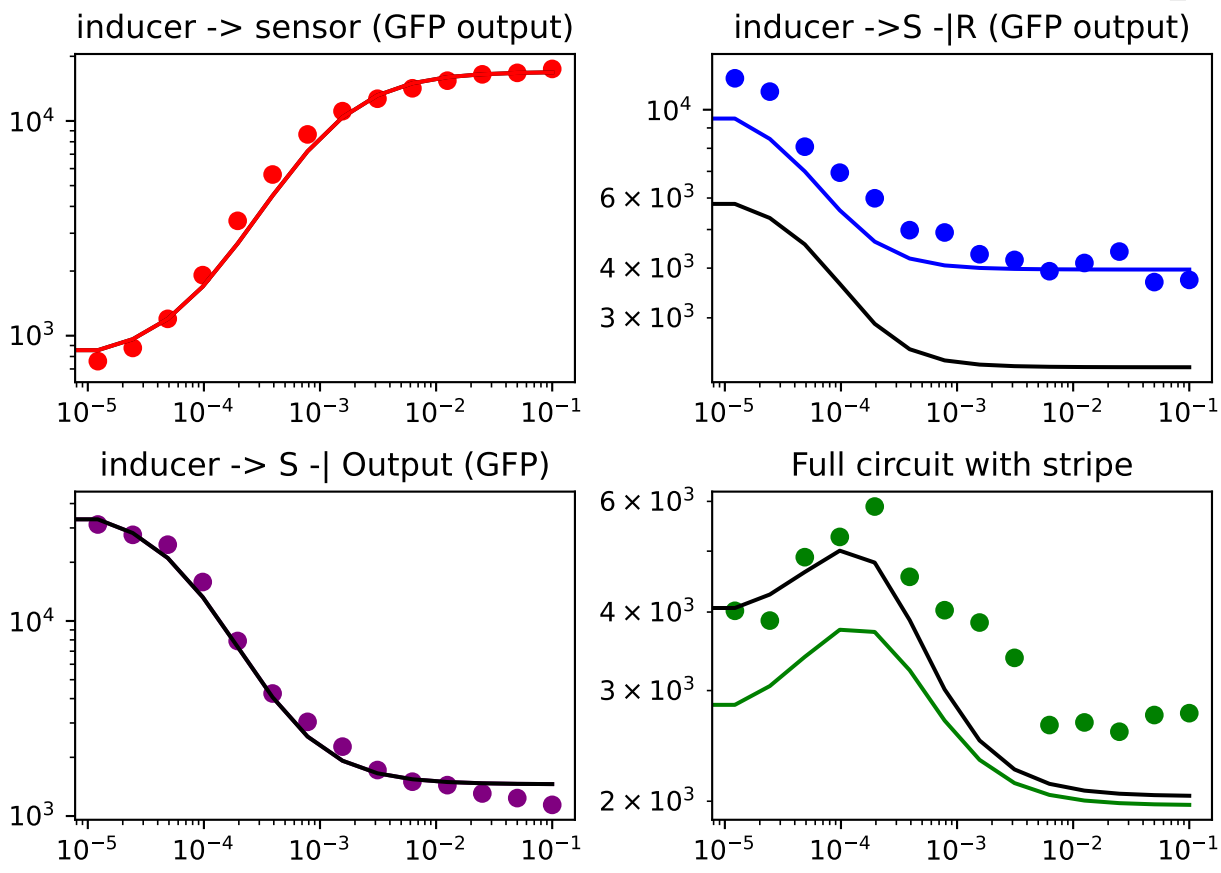


['SM data type data plots for mutation', 'Regulator4', 'using model:', 'model_hill.model_2']



- Initial Guess
- Converged
- Converged
- Converged
- Converged

time elapsed for this fit
--- 131.4553599357605 seconds ---

Across all four plots:

RSS (converged)=0.522

RSS (initial)=1.425

RSS (% reduction)=0.732

	epsilon	Initial guesses	Converged
A_s	0.000000e+00	7.671584e+02	7.671584e+02
B_s	0.000000e+00	1.694202e+04	1.694202e+04
C_s	0.000000e+00	8.969736e+02	8.969736e+02
N_s	0.000000e+00	1.151182e+00	1.151182e+00
A_r	1.709504e+03	2.229804e+03	3.939308e+03
B_r	1.470210e+10	8.961652e+03	1.470210e+10
C_r	4.636301e+00	1.461384e-03	4.637762e+00
N_r	-5.674730e-02	1.841235e+00	1.784488e+00
A_o	0.000000e+00	9.859837e+02	9.859837e+02
B_o	0.000000e+00	1.801530e+07	1.801530e+07
C_o	0.000000e+00	1.010522e-01	1.010522e-01
N_o	0.000000e+00	1.417996e+00	1.417996e+00
F_o	0.000000e+00	1.477611e+00	1.477611e+00

message: Optimization terminated successfully.

success: True

status: 0

fun: 0.5217621691986053

x: [7.672e+02 1.694e+04 ... 1.418e+00 1.478e+00]

nit: 47868

nfev: 65519

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([5.218e-01, 5.218e-01, ..., 5.218e-01, 5.218e-01]))