['SM data type data plots for mutation', 'Regulator2', 'using model:', 'model_hill.model_2']

inducer -> sensor (GFP output)

inducer ->S -|R (GFP output)

inducer -> S -| Output (GFP)

Full circuit with stripe

Initial Guess
Converged
Converged
Converged
Converged
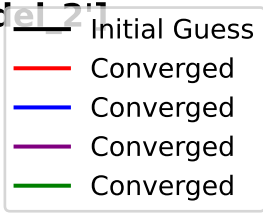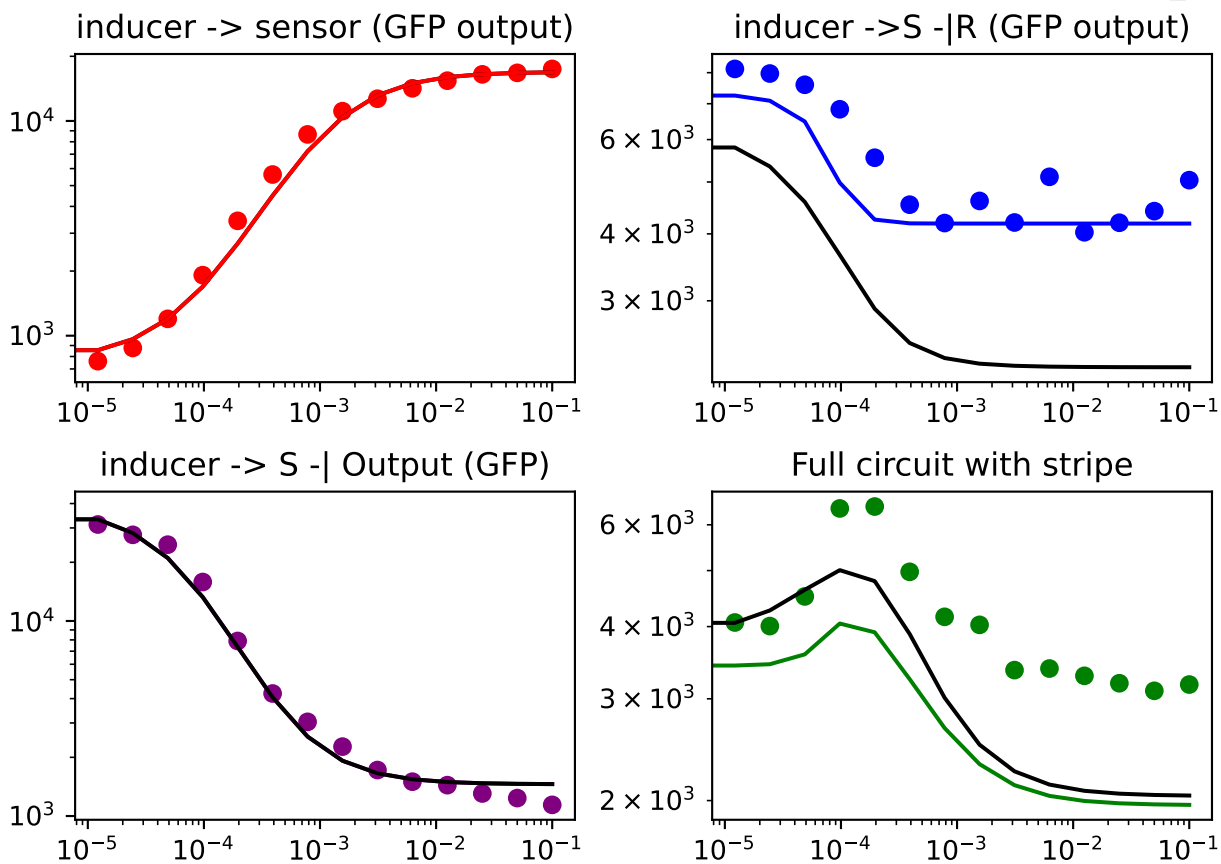
time elapsed for this fit
--- 3.564646005630493 seconds ---

Across all four plots:

RSS (converged)=0.646

RSS (initial)=1.433

RSS (% reduction)=0.689

	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	1951.598309	2.229804e+03	4.181402e+03
B_r	-5712.203274	8.961652e+03	3.249448e+03
C_r	-0.000745	1.461384e-03	7.166255e-04
N_r	3.951174	1.841235e+00	5.792409e+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: 0.6460757032617113
      x: [7.672e+02 1.694e+04 ... 1.418e+00 1.478e+00]
    nit: 740
   nfev: 1164
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([6.461e-01, 6.461e-01, ..., 6.461e-01, 6.461e-01]))