['SM data type data plots for mutation', 'Output5', '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
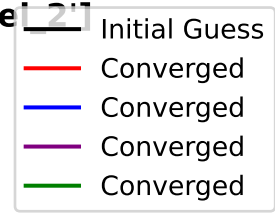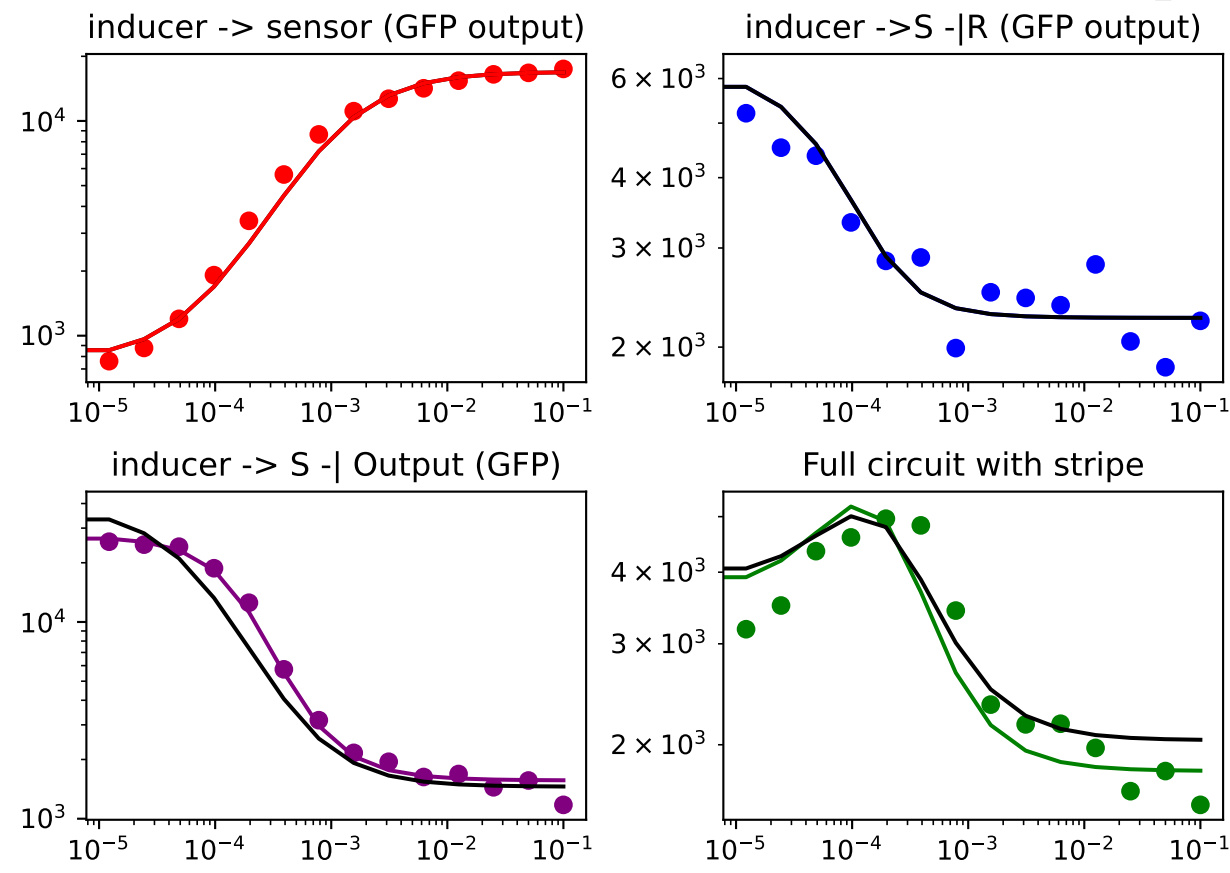
time elapsed for this fit
--- 12.112810850143433 seconds ---

Across all four plots:

RSS (converged)=0.165

RSS (initial)=0.317

RSS (% reduction)=0.657

	epsilon	Initial_guesses	Converged
A_s	0.000000e+00	7.671584e+02	767.158409
B_s	0.000000e+00	1.694202e+04	16942.019302
C_s	0.000000e+00	8.969736e+02	896.973585
N_s	0.000000e+00	1.151182e+00	1.151182
A_r	0.000000e+00	2.229804e+03	2229.803862
B_r	0.000000e+00	8.961652e+03	8961.651645
C_r	0.000000e+00	1.461384e-03	0.001461
N_r	0.000000e+00	1.841235e+00	1.841235
A_o	2.975415e+02	9.859837e+02	1283.525201
B_o	-1.798582e+07	1.801530e+07	29481.648071
C_o	-1.005425e-01	1.010522e-01	0.000510
N_o	7.353647e-01	1.417996e+00	2.153360
F_o	-2.771446e-01	1.477611e+00	1.200466

message: Optimization terminated successfully.
success: True
 status: 0
    fun: 0.16523804143094548
      x: [7.672e+02 1.694e+04 ... 2.153e+00 1.200e+00]
    nit: 2603
   nfev: 3773
final_simplex: (array([[7.672e+02, 1.694e+04, ..., 2.153e+00,
             1.200e+00],
           [7.672e+02, 1.694e+04, ..., 2.153e+00,
             1.200e+00],
           ...,
           [7.672e+02, 1.694e+04, ..., 2.153e+00,
             1.200e+00],
           [7.672e+02, 1.694e+04, ..., 2.153e+00,
             1.200e+00]]), array([1.652e-01, 1.652e-01, ..., 1.652e-01, 1.652e-01]))