['SM data type data plots for mutation', 'Regulator9', 'using model:', 'model_hill.model_2']
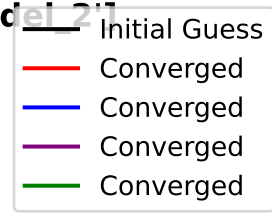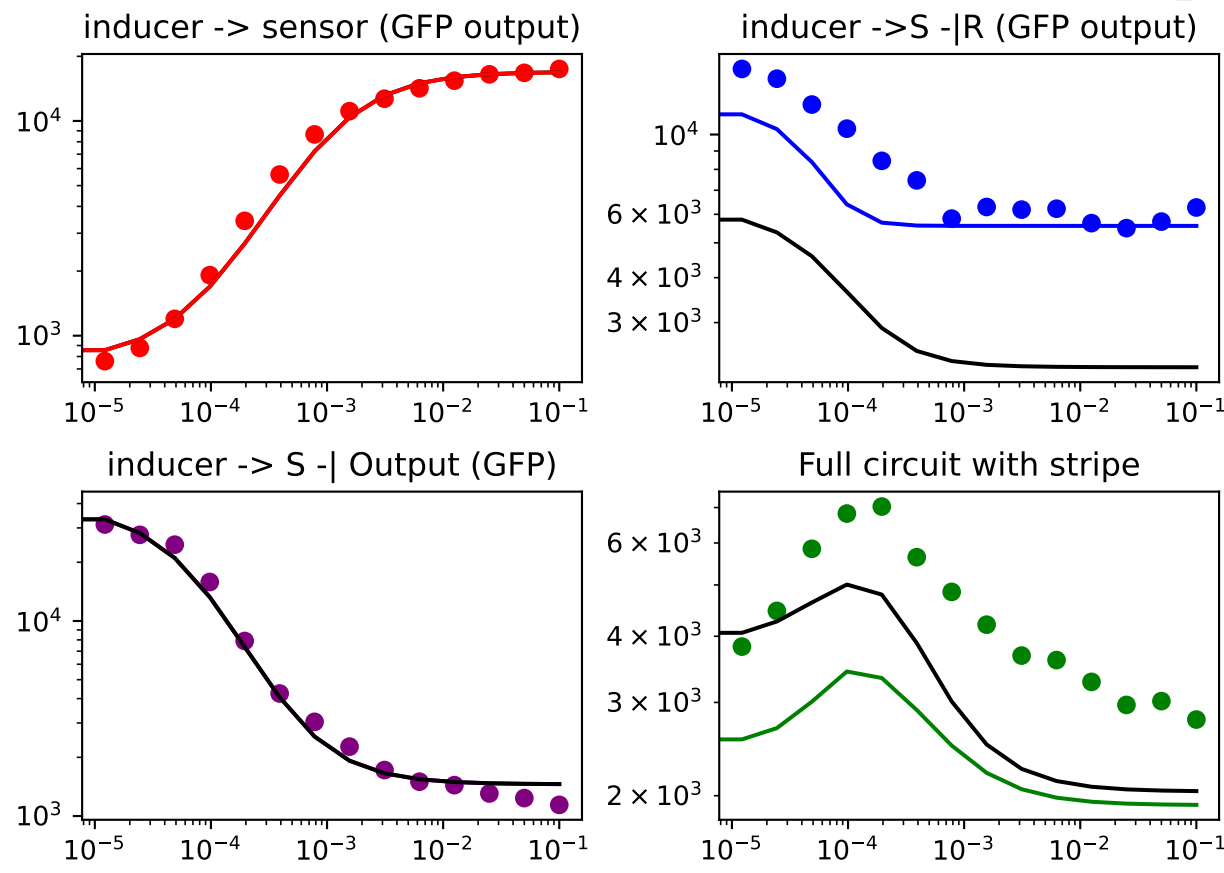
Across all four plots:

RSS (converged)=1.179

RSS (initial)=3.202

RSS (% reduction)=0.731

	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	3341.935043	2.229804e+03	5.571739e+03
B_r	-494.664549	8.961652e+03	8.466987e+03
C_r	-0.000483	1.461384e-03	9.786954e-04
N_r	2.577861	1.841235e+00	4.419096e+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: 1.178703198639715
      x: [7.672e+02 1.694e+04 ... 1.418e+00 1.478e+00]
    nit: 708
   nfev: 1159
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([1.179e+00, 1.179e+00, ..., 1.179e+00, 1.179e+00]))