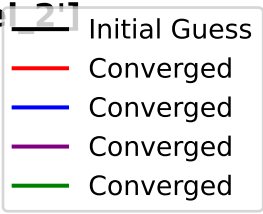
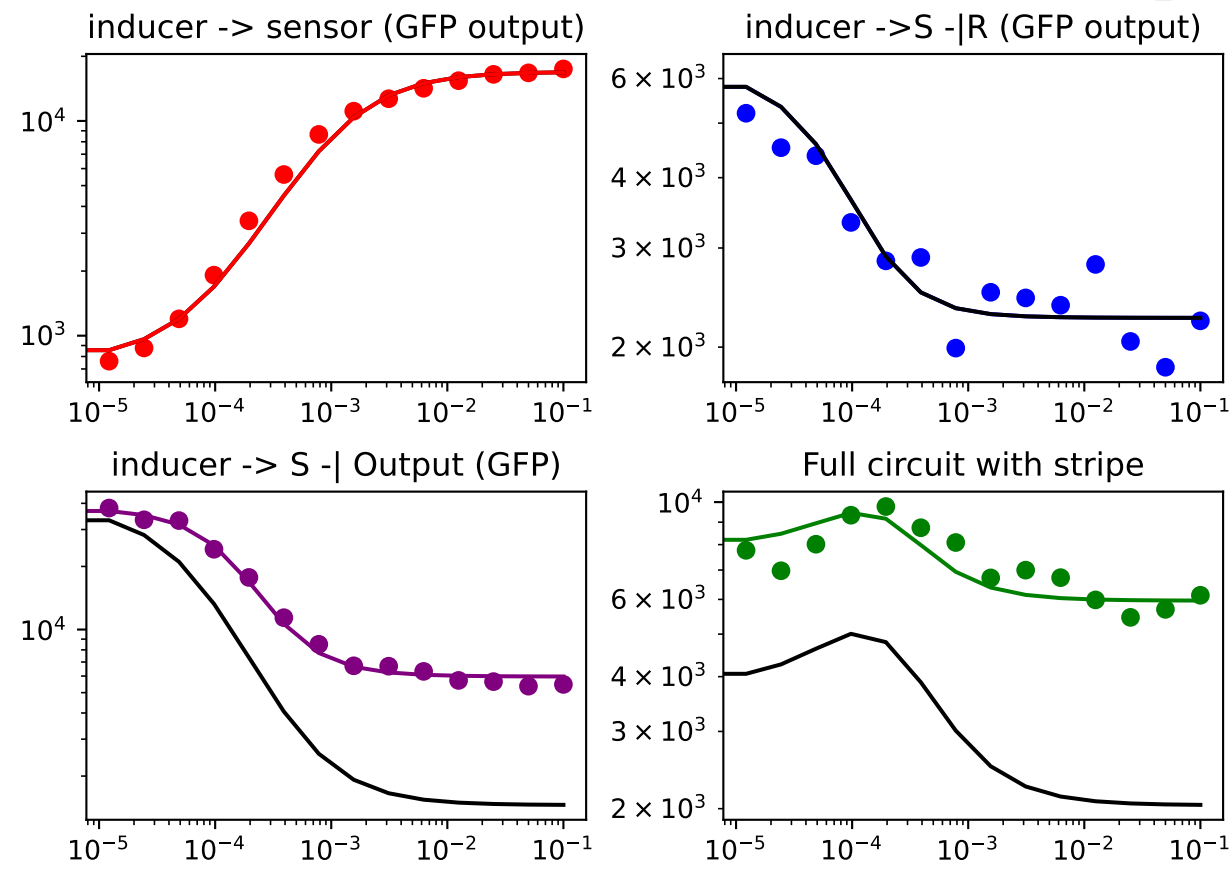


['SM data type data plots for mutation', 'Output2', 'using model:', 'model_hill.model_2']



time elapsed for this fit
--- 13.608337879180908 seconds ---

Across all four plots:

RSS (converged)=0.118

RSS (initial)=5.403

RSS (% reduction)=0.979

	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	4.539908e+03	9.859837e+02	5525.891701
B_o	-1.797557e+07	1.801530e+07	39730.078513
C_o	-1.004557e-01	1.010522e-01	0.000596
N_o	5.231745e-01	1.417996e+00	1.941170
F_o	-4.626769e-01	1.477611e+00	1.014934

message: Optimization terminated successfully.
success: True
status: 0
fun: 0.11803101772645758
x: [7.672e+02 1.694e+04 ... 1.941e+00 1.015e+00]
nit: 3779
nfev: 5351
final_simplex: (array([[7.672e+02, 1.694e+04, ..., 1.941e+00, 1.015e+00],
[7.672e+02, 1.694e+04, ..., 1.941e+00, 1.015e+00],
...,
[7.672e+02, 1.694e+04, ..., 1.941e+00, 1.015e+00],
[7.672e+02, 1.694e+04, ..., 1.941e+00, 1.015e+00]]), array([1.180e-01, 1.180e-01, ..., 1.180e-01, 1.180e-01]))