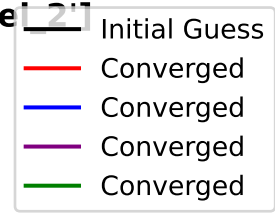
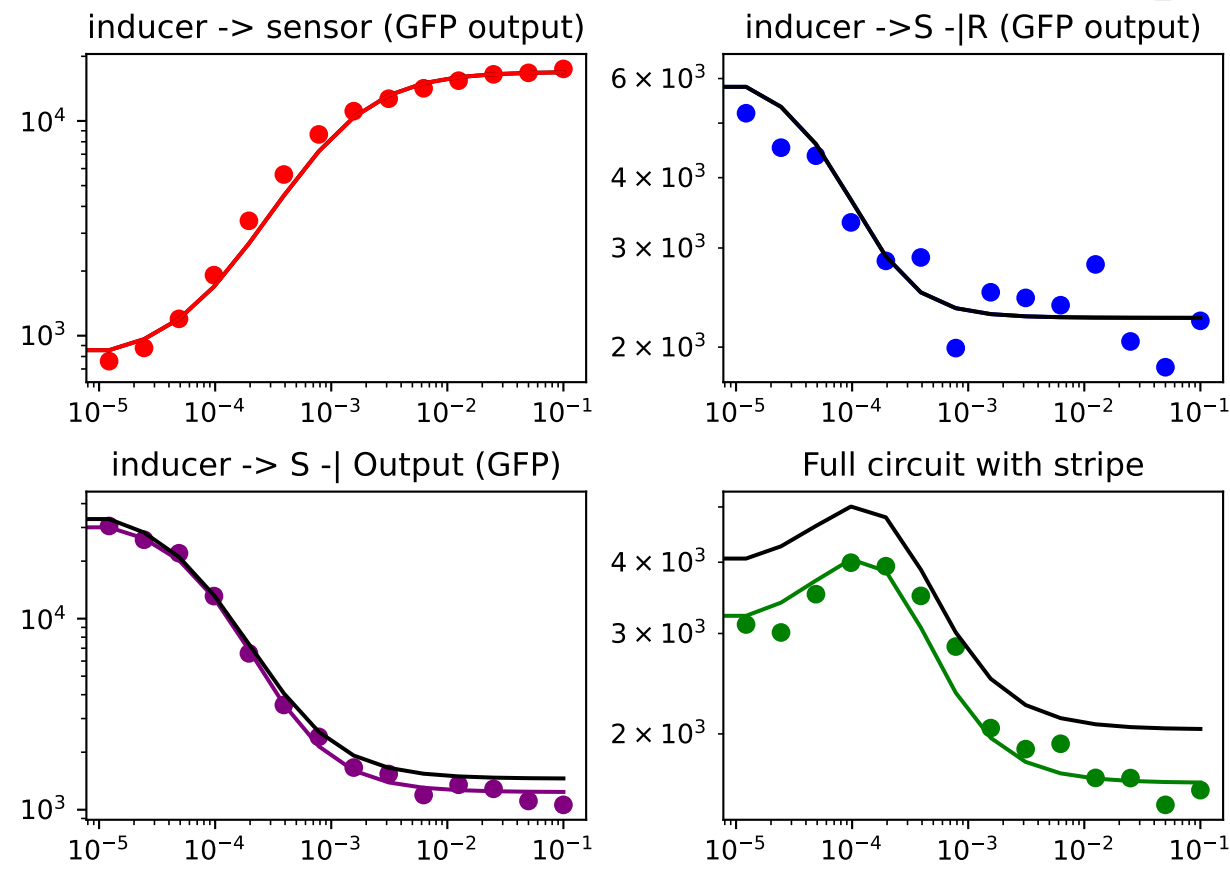


['SM data type data plots for mutation', 'Output6', 'using model:', 'model_hill.model']



time elapsed for this fit
--- 9.633846998214722 seconds ---

Across all four plots:

RSS (converged)=0.124
RSS (initial)=0.322
RSS (% reduction)=0.722

	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	-4.342676e+01	9.859837e+02	942.556898
B_o	-1.792319e+07	1.801530e+07	92108.811496
C_o	-9.919537e-02	1.010522e-01	0.001857
N_o	2.477021e-01	1.417996e+00	1.665698
F_o	-8.848231e-02	1.477611e+00	1.389128

message: Optimization terminated successfully.
success: True
status: 0
fun: 0.12386613056791639
x: [7.672e+02 1.694e+04 ... 1.666e+00 1.389e+00]
nit: 3284
nfev: 4692
final_simplex: (array([[7.672e+02, 1.694e+04, ..., 1.666e+00, 1.389e+00],
[7.672e+02, 1.694e+04, ..., 1.666e+00, 1.389e+00],
...,
[7.672e+02, 1.694e+04, ..., 1.666e+00, 1.389e+00],
[7.672e+02, 1.694e+04, ..., 1.666e+00, 1.389e+00]]), array([1.239e-01, 1.239e-01, ..., 1.239e-01, 1.239e-01]))