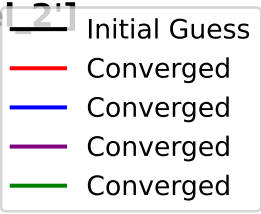
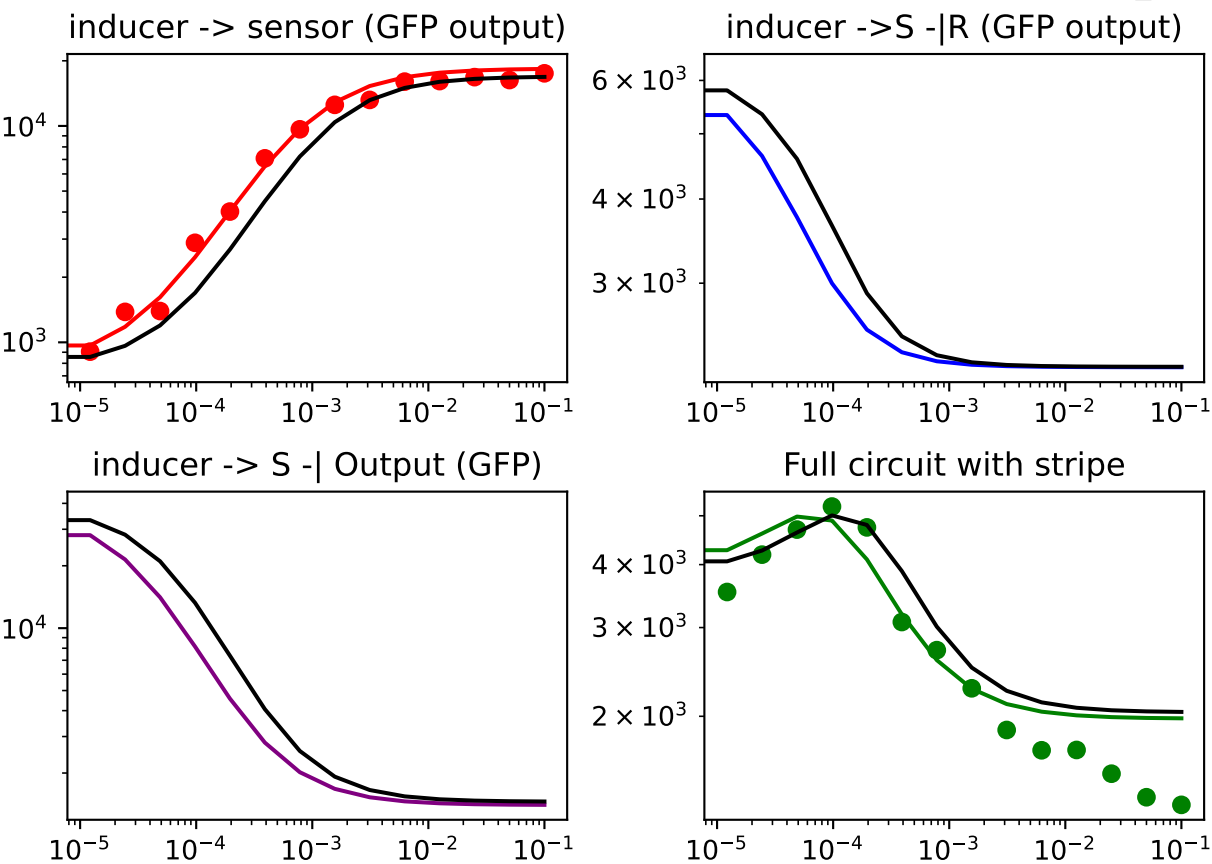


['SM data type data plots for mutation', 'Sensor2', 'using model:', 'model_hill.mode1.2']



time elapsed for this fit
--- 4.7529826164245605 seconds ---

Across all four plots:

RSS (converged)=0.127

RSS (initial)=0.303

RSS (% reduction)=0.705

	epsilon	Initial_guesses	Converged
A_s	6.506405	7.671584e+02	7.736648e+02
B_s	1490.646430	1.694202e+04	1.843267e+04
C_s	409.562647	8.969736e+02	1.306536e+03
N_s	-0.063136	1.151182e+00	1.088046e+00
A_r	0.000000	2.229804e+03	2.229804e+03
B_r	0.000000	8.961652e+03	8.961652e+03
C_r	0.000000	1.461384e-03	1.461384e-03
N_r	0.000000	1.841235e+00	1.841235e+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: 0.1271318193588478
x: [ 7.737e+02  1.843e+04 ...  1.418e+00  1.478e+00]
nit: 510
nfev: 871
final_simplex: (array([[ 7.737e+02,  1.843e+04, ...,  1.418e+00,
                        1.478e+00],
                        [ 7.737e+02,  1.843e+04, ...,  1.418e+00,
                        1.478e+00],
                        ...,
                        [ 7.737e+02,  1.843e+04, ...,  1.418e+00,
                        1.478e+00],
                        [ 7.737e+02,  1.843e+04, ...,  1.418e+00,
                        1.478e+00]]), array([ 1.271e-01,  1.271e-01, ...,  1.271e-01,  1.271e-01]))
```