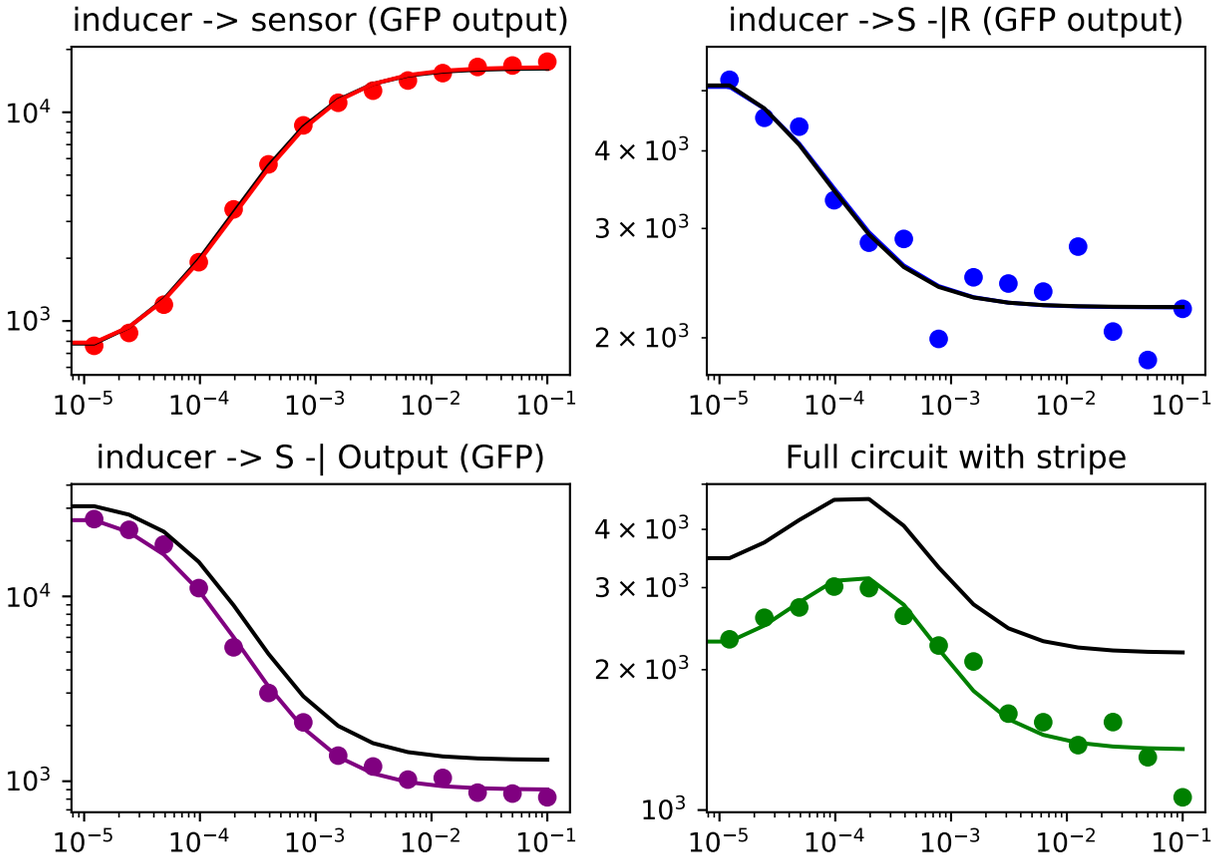
['SM data type data plots for mutation', 'Output3', 'using model:', 'model']



time elapsed for this fit
--- 18.357605934143066 seconds ---

Across all four plots:

RSS (converged)=0.075

RSS (initial)=0.937

RSS (% reduction)=0.926

	epsilon	Initial_guesses	Converged
A_s	13.645011	650.714912	664.359923
B_s	221.550307	16259.979950	16481.530257
C_s	-83.516940	1296.448889	1212.931949
N_s	-0.005793	1.154067	1.148274
A_r	0.000000	2020.019216	2020.019216
B_r	0.000000	23688.809187	23688.809187
C_r	0.000000	0.010358	0.010358
N_r	0.000000	0.910072	0.910072
A_h	18.336828	143.802212	162.139041
B_h	21314.905583	50238.271408	71553.176992
C_h	0.001043	0.000929	0.001973
A_o	-1.228969	1.673894	0.444925
B_o	0.343934	0.895342	1.239276
C_o	0.018406	2.657699	2.676105
N_o	-0.068533	1.379953	1.311419
F_o	-0.385995	2.361284	1.975289

```
     message: Optimization terminated successfully.
     success: True
      status: 0
         fun: 0.07523982015554483
           x: [ 6.644e+02  1.648e+04 ...  1.311e+00  1.975e+00]
         nit: 6637
        nfev: 8869
final_simplex: (array([[ 6.644e+02,  1.648e+04, ...,  1.311e+00,
                         1.975e+00],
                       [ 6.644e+02,  1.648e+04, ...,  1.311e+00,
                         1.975e+00],
                       ...,
                       [ 6.644e+02,  1.648e+04, ...,  1.311e+00,
                         1.975e+00],
                       [ 6.644e+02,  1.648e+04, ...,  1.311e+00,
                         1.975e+00]]), array([ 7.524e-02,  7.524e-02, ...,  7.524e-02,  7.524e-02]))
```