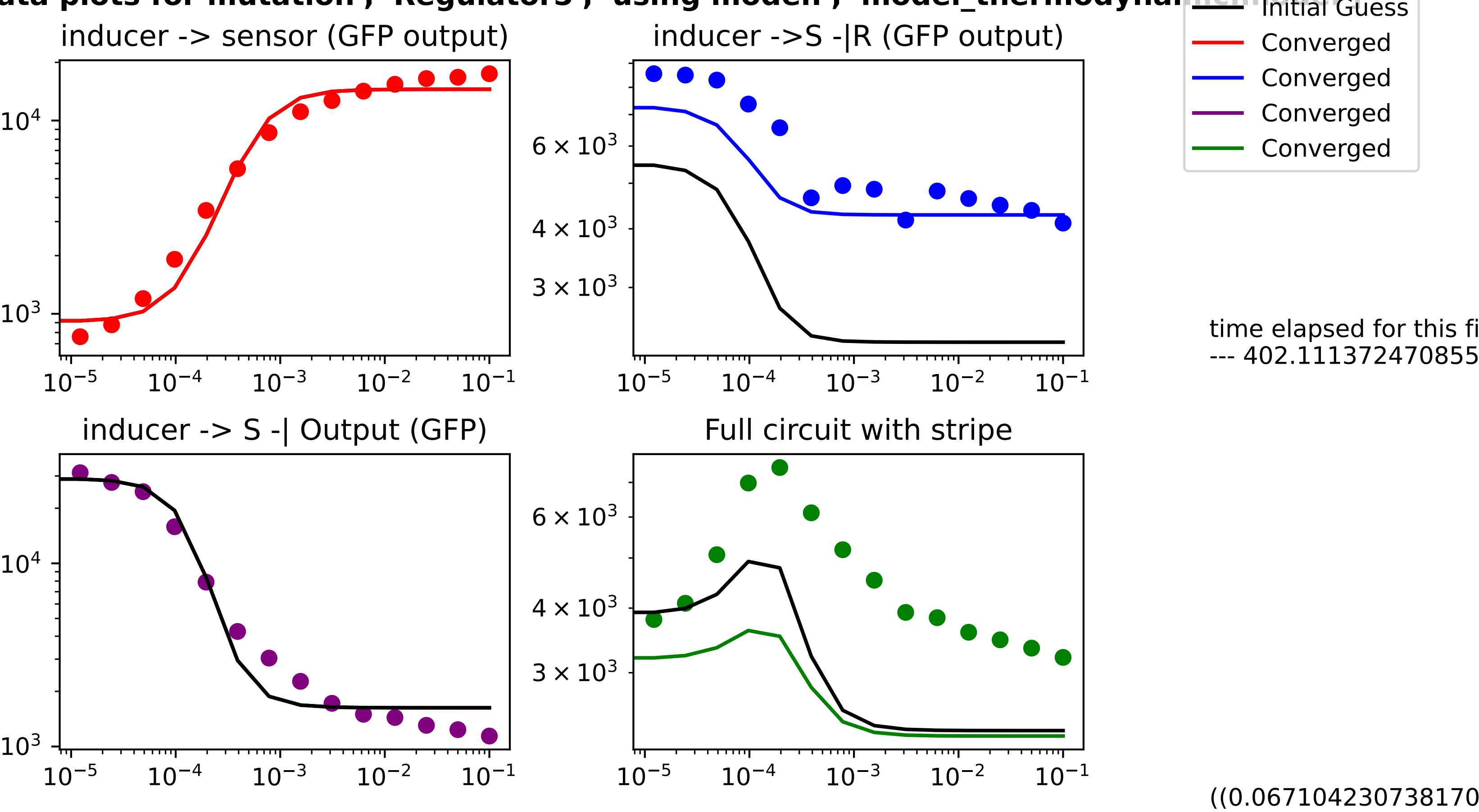
['SM data type data plots for mutation', 'Regulator5', 'using model:', 'model_thermodynamic_model']



time elapsed for this fit
--- 402.1113724708557 seconds ---

((0.06710423073817094, 0.06710423073817094), (2.1895876615348227e-06, 2.1895876615348227e-06), (1065.381191469127, 1065.381191469127), (1634912744.490322, 1634912744.490322), (14520.998594483866, 14520.998594483866), (0, None), (0, None), (0, None), (0, None), (1.2297278821229507, 1.2297278821229507), (0.012476585206976027, 0.012476585206976027), (2.018274680476458e-06, 2.018274680476458e-06), (91094.91689184132, 91094.91689184132), (1.4826039143168819, 1.4826039143168819))

Across all four plots:

RSS (converged)=1.096

RSS (initial)=1.965

RSS (% reduction)=0.642

	epsilon	Initial_guesses	Converged
P_b	0.000000e+00	6.710423e-02	6.710423e-02
P_u	0.000000e+00	2.189588e-06	2.189588e-06
K_12	0.000000e+00	1.065381e+03	1.065381e+03
C_pa	0.000000e+00	1.634913e+09	1.634913e+09
A_s	0.000000e+00	1.452100e+04	1.452100e+04
P_r	9.287453e-02	1.285766e+00	1.378640e+00
C_pt	-1.101648e-02	1.101671e-02	2.306098e-07
K_t	7.355522e+00	7.228939e-05	7.355595e+00
A_r	1.342851e+10	1.633549e+05	1.342867e+10
P_o	0.000000e+00	1.229728e+00	1.229728e+00
C_pl	0.000000e+00	1.247659e-02	1.247659e-02
K_l	0.000000e+00	2.018275e-06	2.018275e-06
A_o	0.000000e+00	9.109492e+04	9.109492e+04
F_o	0.000000e+00	1.482604e+00	1.482604e+00

```
       message: Maximum number of iterations has been exceeded.
       success: False
        status: 2
           fun: 1.0956743885535993
             x: [ 6.710e-02  2.190e-06 ...  9.109e+04  1.483e+00]
           nit: 100000
          nfev: 134606
 final_simplex: (array([[ 6.710e-02,  2.190e-06, ...,  9.109e+04,
                         1.483e+00],
                       [ 6.710e-02,  2.190e-06, ...,  9.109e+04,
                         1.483e+00],
                       ...,
                       [ 6.710e-02,  2.190e-06, ...,  9.109e+04,
                         1.483e+00],
                       [ 6.710e-02,  2.190e-06, ...,  9.109e+04,
                         1.483e+00]]), array([ 1.096e+00,  1.096e+00, ...,  1.096e+00,  1.096e+00]))
```