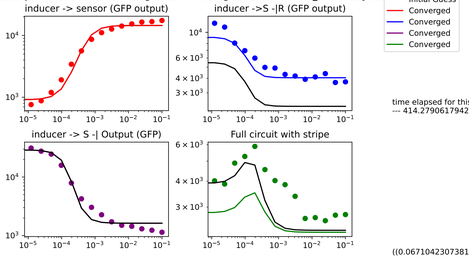
['SM data type data plots for mutation', 'Regulator4', 'using model:', 'model_thermodynamic', '', '', '']



time elapsed for this fit
--- 414.279061794281 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), (2.0182746804764580e-06, 2.0182746804764580e-06), (91094.91689184132, 91094.91689184132), (1.4826039143168819, 1.4826039143168819))

Across all four plots:

RSS (converged)=0.704

RSS (initial)=1.638

RSS (% reduction)=0.699

	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	-2.271851e-01	1.285766e+00	1.058581e+00
C_pt	-1.101664e-02	1.101671e-02	6.838646e-08
K_t	1.390614e+01	7.228939e-05	1.390621e+01
A_r	5.571638e+10	1.633549e+05	5.571655e+10
P_o	0.000000e+00	1.229728e+00	1.229728e+00
C_pl	0.000000e+00	1.247659e-02	1.247659e-02
K_i	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: 0.7042112689349724
      x: [ 6.710e-02  2.190e-06 ...  9.109e+04  1.483e+00]
    nit: 100000
   nfev: 134844
 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([ 7.042e-01,  7.042e-01, ...,  7.042e-01,  7.042e-01]))
```