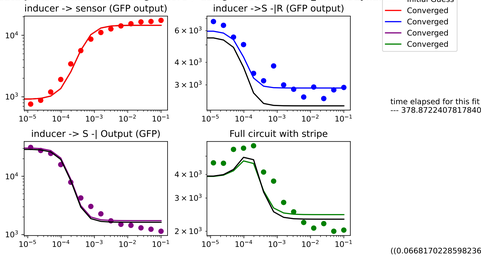
['SM data type data plots for mutation', 'Regulator8', 'using model:', 'model_thermodynamic']



time elapsed for this fit
--- 378.87224078178406 seconds ---

((0.06681702285982363, 0.06681702285982363), (5.466972031538808e-07, 5.466972031538808e-07), (18145.27457406776, 18145.27457406776), (381988244.4333938, 381988244.4333938), (14589.087744354982, 14589.087744354982), (0, None), (0, None), (0, None), (0, None), (2011833990057.0366, 2011833990057.0366), (0.019680354296355312, 0.019680354296355312), (1.2819864660412365e-06, 1.2819864660412365e-06), (176014.34482799913, 176014.34482799913), (1.4826334558626444, 1.4826334558626444))

Across all four plots:

RSS (converged)=0.379

RSS (initial)=0.498

RSS (% reduction)=0.568

	epsilon	Initial_guesses	Converged
P_b	0.000000e+00	6.681702e-02	6.681702e-02
P_u	0.000000e+00	5.466972e-07	5.466972e-07
K_12	0.000000e+00	1.814527e+04	1.814527e+04
C_pa	0.000000e+00	3.819882e+08	3.819882e+08
A_s	0.000000e+00	1.458909e+04	1.458909e+04
P_r	2.640737e-02	4.006687e-01	4.270761e-01
C_pt	-9.731752e-03	9.732437e-03	6.852059e-07
K_t	1.600575e+00	8.404184e-05	1.600659e+00
A_r	9.808193e+09	5.876297e+05	9.808781e+09
P_o	0.000000e+00	2.011834e+12	2.011834e+12
C_pl	0.000000e+00	1.968035e-02	1.968035e-02
K_l	0.000000e+00	1.281986e-06	1.281986e-06
A_o	0.000000e+00	1.760143e+05	1.760143e+05
F_o	0.000000e+00	1.482633e+00	1.482633e+00

```
message: Maximum number of iterations has been exceeded.
success: False
 status: 2
    fun: 0.37895131260256343
      x: [ 6.682e-02  5.467e-07 ...  1.760e+05  1.483e+00]
    nit: 100000
   nfev: 133953
 final_simplex: (array([[ 6.682e-02,  5.467e-07, ...,  1.760e+05,
                          1.483e+00],
                       [ 6.682e-02,  5.467e-07, ...,  1.760e+05,
                          1.483e+00],
                       ...,
                       [ 6.682e-02,  5.467e-07, ...,  1.760e+05,
                          1.483e+00],
                       [ 6.682e-02,  5.467e-07, ...,  1.760e+05,
                          1.483e+00]]), array([ 3.790e-01,  3.790e-01, ...,  3.790e-01,  3.790e-01]))
```