

Table S2: List of experiments to obtain optimal model in Model 1.

Experiment index	Experimental condition (e)			
	EGF _{stimulation} (nM)	EGFR ₀ (nM)	Shc ₀ (nM)	Grb2 ₀ (nM)
1a	20	100	150	85
1b	2	100	150	85
2	15.3824	141	340	0
3	0.0746	2.5771	156.2478	10.4315
4	6.5245	26.4265	0.7839	0.5163
5	0.0118	400	6.2924	150
6	19.9934	399.9985	0.0506	150