

Table S3: List of experiments to obtain optimal model in Model 2.

Experiment index	Experimental condition (e)			
	EGF <sub>stimulation</sub> (nM)	EGFR <sub>0</sub> (nM)	Shc <sub>0</sub> (nM)	Grb2 <sub>0</sub> (nM)
1a	20	100	150	85
1b	2	100	150	85
2	20	400	340	0
3	0.0653	2.1885	0	11.3049
4	0.0936	3.1826	340	150
5	20	0.4287	107.2116	149.9955
6	20	400	0.7385	0.8746
7	20	239.0186	0.1460	149.9980