

Table S3: Non-zero initial conditions estimated from the training data for the C-33 LNCaP clone. The mean (μ) and standard deviation (σ) calculated over the ensemble are shown.

species	initial condition ($\mu \pm \sigma$)
Pase7	24.71 \pm 23.66
AR	192.40 \pm 260.66
HSP	486.15 \pm 659.55
Rase5a	81.11 \pm 66.98
Her2	131.57 \pm 111.41
EGFR	115.41 \pm 82.19
Shc	91.19 \pm 71.89
Grb2	80.32 \pm 67.10
Sos	35.79 \pm 29.37
Ras-GDP	233.39 \pm 456.75
Raf	76.83 \pm 54.31
MEK	1572.31 \pm 2260.09
ERK	587.24 \pm 401.24
ETS	133.52 \pm 150.03
AP1	107.34 \pm 172.51
Pase1	181.67 \pm 513.24
Pase2	20.88 \pm 11.78
Pase3	22.76 \pm 12.44
Pase5	65.13 \pm 82.13
Pase6	168.28 \pm 234.48
GAP	60.71 \pm 100.62
PI3K	174.54 \pm 240.45
PtdIns2	131.27 \pm 122.14
PtdIns3	119.05 \pm 94.11
PTEN	123.84 \pm 142.99
Akt	332.36 \pm 585.30
Pdk1	190.88 \pm 237.37
TOR	121.80 \pm 120.53
4E-BP1	136.67 \pm 107.57
eIF4E	3707.42 \pm 3178.77
g-PSA	3.29 \pm 1.87
g-CycD	2.90 \pm 4.98
g-cPACp	0.09 \pm 0.06
g-sPACp	0.11 \pm 0.09

continued on next page

continued from previous page

species	initial condition ($\mu \pm \sigma$)
RNAp	371.62 \pm 314.59
40S	8203.19 \pm 16956.30
60S	4732.73 \pm 4700.66