**Supplementary Table 2** The Boolean rules of the dauer network. Initial conditions for dauer were *cmk-1* = 0, *ncr* = 0 and pher = 1. Initial conditions for normal development were *cmk-1* = 1, *ncr* = 1 and pher = 0. The state of each node at time ‘t+1’ was calculated according to the states of upstream regulator nodes at time ‘t’.

**Downstream node \*= Upstream regulators**

*aap-1 \*= daf-2*

*age-1 \*= aap-1*

*akt \*= pdk-1*

*daf-11 \*=* not *srbc*

*daf-12 \*=* not *daf-9* or not *daf-7*

*daf-1-4 \*= daf-7*

*daf-16 \*=* not *akt* or *daf-12*

*daf-2 \*= (ins-7* and *daf-28)* or *(*not *ins-1* or not *ins-18)*

*daf-28 \*= cmk-1*

*daf-3 \*=* not *daf-8-14*

*daf-5 \*= daf-3*

*daf-7 \*= (tax-4* and *cmk-1)* and not *hsf-1*

*daf-8-14 \*= daf-1-4*

*daf-9 \*=* not *dhs-16* or *ncr* or *daf-12*

*dauer \*= daf-16* and *daf-12*

*dhs-16 \*= daf-2*

*hsf-1 \*=* not *daf-2*

*ins-1 \*= daf-5*

*ins-18 \*= daf-16*

*ins-7 \*= daf-7* or not *daf-16*

*pdk-1 \*= age-1*

*srbc \*= pher*

*tax-4 \*= daf-11*