Table S1 Dependent variables in the reaction scheme

p53 oscillation system			
p53	p53	*DNA damage*	DNA damage
Mdm2	Mdm2	*Deg*	DNA damage degradation
II	intermediator II		
G2/M phase cell cycle arrest			
Chk1	Chk1	*transducer*	DNA damage transducer
Chk1p	Chk1p	*p21*:*aMPF*	p21:aMPF complex
p21	p21	*iCdc25p*:*14_3_3*	iCdc25p:14-3-3 complex
Wee1	Wee1	*Wee1p*	Wee1p
iMPF	inactive MPF	*aMPF*	active MPF
aCdc25	active Cdc25	*aCdc25p*	active Cdc25p
iCdc25	inactive Cdc25	*iCdc25p*	inactive Cdc25p
14_3_3	14-3-3		
Apoptosis induction system			
Apaf_1	Apaf-1	*Cytc*:*Apaf_1*	Cytochrome C:Apaf-1 complex
casp9	caspase9	*apop*:*pro9*$_2$,	apoptosome:procaspase9$_2$ complex
IAP	IAP	*casp9*:*IAP*	caspase9:IAP complex
pro9	procaspase9	*apop*:*pro9*	apoptosome:procaspase9 complex
apop	apoptosome	*apop*:*casp9*$_2$	apoptosome:caspase9$_2$
pro3	procaspase3	*apop*:*casp9*	apoptosome:caspase9 complex
casp8	caspase8	*apop*:*casp9*:*IAP*	apoptosome:caspase9:IAP complex
casp3	caspase3	*p21*:*Pro3*	p21:procaspase3 complex
Bid	Bid	*apop*:*casp9*$_2$:*IAP*	apoptosome:caspase9$_2$:IAP complex
Bcl_2	Bcl-2	*casp3*:*IAP*	caspase3:IAP complex
Bax	Bax	*casp9*:*pro3*	caspase9:pro3 complex
tBid	tBid	*apop*:*casp9*$_2$:*pro3*	apoptosome:caspase9$_2$:procaspase3
complex			
Cytc$_{mito}$	Cytc$_{\mathrm{mito}}$	*casp8*:*Bid*	caspase8:Bid complex
Bax$_2$	Bax$_2$	*casp3*:*Bid*	caspase3:Bid complex
tBid$_{mito}$	tBid$_{\mathrm{mito}}$	*casp3:Bcl_2*	caspase3:Bcl-2 complex
Cytc	Cytc	*tBid*:*Bax*	tBid:Bax complex