	t = 0 t = 1	t = 2	t = 3	t = 4 t = 5	t = 6	t = 7	t = 8 t :	= 9 t = 10	t = 11	t = 12	t = 13	t = 14	t = 15	t = 16	t = 17	t = 18 t	= 19	t = 20	t = 21	t = 22	t = 23	t = 24	t = 25	t = 2
[IR]																								
[insulin]																								
PRAS40_[TOS]Raptor_[BindingMotif]																								
PRAS40_[protein1433]0																								
protein1433_[PRAS40]0																								
Raptor_[BindingMotif]_ppi+_PRAS40_[TOS]																								
protein1433_[PRAS40]_ppiPRAS40_[protein1	4:																							
RHEB_[(G)]-{0}																								
TSC2_gap_RHEB_[(G)]																								
TSC1_[Cterminus]TSC2_[Nterminus]																								
TSC1_[Cterminus]_ppi+_TSC2_[Nterminus]																								
insulin_[IR]_ppi+_IR_[insulin]																								
IR_[insulin]insulin_[IR]																								
[activatedIR]																								
IR_p+_IRS_[(tyrosines)]																								
IRS_[(tyrosines)]-{p}																								
IRS_[pYMXM]_ppi+_Pl3K_[SH2]																								
IRS_[pYMXM]PI3K_[SH2]																								
[activatedPl3K]																								
PI3K_p+_PI_[(3)]																								
PI_[(3)]-{p}																								
AKT2_[PH]_i+_PI_[AKT2]																								
INPP4B_pPI_[(4)]																								
PDK1_[PH]_i+_PI_[PDK1]																								
PIPP_pPI_[(5)]																								
AKT2_[PH]PI_[AKT2]																								
PDK1_[PH]PI_[PDK1]																								
PDK1_p+_AKT2_[(Thr309)]																								
AKT2_[(Thr309)]-{p}																								
AKT2_p+_SIN1_[(Thr86)]																								
SIN1_[(Thr86)]-{p}																								
mTOR_p+_AKT2_[(\$474)]																								
AKT2_[(S474)]-{p}																								
AKT2_p+_PPM1G_[(PPP1R3G)]																								
AKT2_p+_PRAS40_[(Thr246)]																								
AKT2_p+_TSC2_[(Ser1130)]																								
AKT2_p+_TSC2_[(Ser939)]																								
AKT2_p+_TSC2_[(Ser981)]																								
AKT2_p+_TSC2_[(Thr1462)]																								
PPM1G_[(PPP1R3G)]-{p}																								
PRAS40_[(Thr246)]-{p}																								
TSC2_[(Ser1130)]-{p}																								
TSC2_[(Ser939)]-{p}																								
TSC2_[(Ser981)]-{p}																								
TSC2_[(Thr1462)]-{p}																								
GTP_gef_RHEB_[(G)]																								
TSC1_[Cterminus]_ppiTSC2_[Nterminus]																								
RHEB_[(G)]-{gtp}																								
TSC1_[Cterminus]0																								
TSC2_[Nterminus]0																								
RHEB_[switch1]_ppi+_mTOR_[MheatFAT]																								
RHEB_[switch2]_ppi+_mTOR_[MheatNheatFA]	1																							
RHEB_[switch1]mTOR_[MheatFAT]	-																							
RHEB_[switch2]mTOR_[MheatNheatFAT]																								
mTOR_p+_PRAS40_[(Ser183)]																								
mTOR_p+_PRAS40_[(Ser221)]																								
PRAS40_[(Ser183)]-{p}																								
PRAS40_[(Ser221)]-{p}																								
Raptor_[BindingMotif]_ppiPRAS40_[TOS]																								
protein1433_[PRAS40]_ppi+_PRAS40_[protein <sup>-</sup>	14																							
PRAS40_[TOS]0																								
PRAS40_[105]0 PRAS40_[protein1433]protein1433_[PRAS40]																								
PRAS40_[protein1433]protein1433_[PRAS40] Raptor_[BindingMotif]0																								
mTOR_p+_EIF4EBP1_[(Thr37)] mTOR_p+_EIF4EBP1_[(Thr46)]																								
mTOR_p+_S6K1_[(T389)]																								
EIF4EBP1_[(Thr37)]-{p}																								
EIF4EBP1_[(Thr46)]-{p}																								
S6K1_[(T389)]-{p}																								
S6K1_p+_IRS_[(hS307)]																								
S6K1_p+_IRS_[(hS527)]																								
S6K1_p+_RICTOR_[(Thr1135)]																								
mTOR_p+_EIF4EBP1_[(Thr70)]																								
IRS_[(hS307)]-{p}																								
IRS_[(hS527)]-{p}																								
RICTOR_[(Thr1135)]-{p}																								
EIF4EBP1_[(Thr70)]-{p}																								
mTOR_p+_EIF4EBP1_[(Ser65)]																								
EIF4EBP1_[(Ser65)]-{p}				1			'					1												