	1						i												1
[IR]	t = 0	t = 1	t = 2	t = 3	t = 4	t = 5	t = 38	t = 39	t = 40	t = 41	t = 42	t = 43	t = 44	t = 45	t = 46	t = 47	t = 48	t = 49	t = 5
[insulin]																			
DDAC40 ITOCL Donton [DindingMatic]																			
PRAS40_[TOS]Raptor_[BindingMotif] PRAS40_[protein1433]0																			
protein1433_[PRAS40]0																			
Raptor_[BindingMotif]_ppi+_PRAS40_[TOS]																			
protein1433_[PRAS40]_ppiPRAS40_[protein1433]																			
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_[(\$474)]-{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_[MheatNheatFAT]	-																		
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_[protein1433]																			
PRAS40_[TOS]0																			
PRAS40_[protein1433]protein1433_[PRAS40]																			
Raptor_[BindingMotif]0																			
mTOR_p+_EIF4EBP1_[(Thr37)]																			
mTOR_p+_EIF4EBP1_[(Thr46)]																			
nTOR_p+_S6K1_[(T389)]																			
EIF4EBP1_[(Thr37)]-{p} EIF4EBP1_[(Thr46)]-{p}																			
EIF4EBP1_[(TN746)]-{p} S6K1_[(T389)]-{p}																			
S6K1_p+_IRS_[(hS307)]																			
S6K1_p+_IRS_[(hS527)]																			
S6K1_p+_RICTOR_[(Thr1135)]																			
mTOR_p+_EIF4EBP1_[(Thr70)]																			
IRS_[(hS307)]-{p}																			
RS_[(hS527)]-{p}																			
RICTOR_[(Thr1135)]-{p}																			
EIF4EBP1_[(Thr70)]-{p}																			
mTOR_p+_EIF4EBP1_[(Ser65)]																			
EIF4EBP1_[(Ser65)]-{p}															L				_