

AKT2_[PI]_i-_PI_[PH]					
IRS_[pY]_ppi-_PI3K_[SH2]					
IR_p-_IRS_[(res)]					
PHLPP1_p-_AKT2_[(S474)]					
PI4K3alpha_p+_PI_[(4)]					
PIPK1alpha_p+_PI_[(5)]					
PP2A_p-_AKT2_[(T309)]					
PP5_p-_TSC2_[(Ser1130)]					
PP5_p-_TSC2_[(Ser939)]					
PP5_p-_TSC2_[(Ser981)]					
PP5_p-_TSC2_[(Thr1462)]					
PPM1G_p-_EIF4EBP1_[(Ser65)]					
PPM1G_p-_EIF4EBP1_[(Thr37)]					
PPM1G_p-_EIF4EBP1_[(Thr46)]					
PPM1G_p-_EIF4EBP1_[(Thr70)]					
PTEN_p-_PI_[(3)]					
RHEB_[switch1DSYDPTIEN]_ppi-_mTOR_[FATf..2f..3]					
RHEB_[switch1]_ppi-_mTOR_[Mheatm..2m..3m..4]					
RHEB_[switch2GQDEYSIFPQTYSIDIN]_ppi-_mTOR_[Nheatn..3ton..7]					
S6K1_p+_IRS_[(hS307)]					
S6K1_p+_IRS_[(hS527)]					
SAC1M1L_p-_PI_[(4)]					
SYNJ2_p-_PI_[(5)]					
TSC1_[Cterminus]_ppi+_TSC2_[Nterminus]					
TSC2_gap_RHEB_[(G)]					
elF4E_[A001]_ppi+_EIF4EBP1_[A001]					
elF4E_[A001]_ppi-_elF4G_[A002]					
insulin_[IR]_ppi-_IR_[insulin]					
mTOR_[Raptor]_ppi+_Raptor_[mTOR]					
unk_p-_PPM1G_[(AKT2)]					
AKT2_[(S474)]-(0)					
AKT2_[(T309)]-(0)					
AKT2_[PI]--(0)					
EIF4EBP1_[(Ser65)]-(0)					
EIF4EBP1_[(Thr37)]-(0)					
EIF4EBP1_[(Thr46)]-(0)					
EIF4EBP1_[(Thr70)]-(0)					
EIF4EBP1_[A001]--elF4E_[A001]					
GTP					
INPP4B					
IRS_[(hS307)]-(p)					
IRS_[(hS527)]-(p)					
IRS_[(res)]-(0)					
IRS_[pY]--(0)					
IR_[insulin]--(0)					
PDK1					
PHLPP1					
PI3K_[SH2]--(0)					
PI4K3alpha					
PIPK1alpha					
PIPP					
PI_[(3)]-(0)					
PI_[(4)]-(0)					
PI_[(4)]-(p)					
PI_[(5)]-(0)					
PI_[(5)]-(p)					
PI_[PH]--(0)					
PP2A					
PP5					
PPM1G_[(AKT2)]-(0)					
PTEN					
RHEB_[(G)]-(0)					
RHEB_[switch1DSYDPTIEN]--(0)					
RHEB_[switch1]--(0)					
RHEB_[switch2GQDEYSIFPQTYSIDIN]--(0)					
Raptor_[TOS]--S6K1_[TOS]					
Raptor_[mTOR]--mTOR_[Raptor]					
S6K1_[(T389)]-(p)					
SAC1M1L					
SYNJ2					
TSC1_[Cterminus]--TSC2_[Nterminus]					
TSC2_[(Ser1130)]-(0)					
TSC2_[(Ser939)]-(0)					
TSC2_[(Ser981)]-(0)					
TSC2_[(Thr1462)]-(0)					
[EIF4EBP1]					
[IR]					
[Raptor]					
[elF4E]					
[elF4G]					
[mTOR]					
elF4E_[A001]--(0)					
elF4G_[A002]--(0)					
insulin_[IR]--(0)					
mTORC1					
mTORC2					
mTOR_[FATf..2f..3]--(0)					
mTOR_[Mheatm..2m..3m..4]--(0)					
mTOR_[Nheatn..3ton..7]--(0)					
unk					
IRS_[(res)]-(p)					
IR_p+_IRS_[(res)]					
[activatedIR]					
IR_[insulin]--insulin_[IR]					
insulin_[IR]_ppi+_IR_[insulin]					
AKT2_[PI]_i+_PI_[PH]					
AKT2_p+_PPM1G_[(AKT2)]					
AKT2_p+_TSC2_[(Ser1130)]					
AKT2_p+_TSC2_[(Ser939)]					
AKT2_p+_TSC2_[(Ser981)]					
AKT2_p+_TSC2_[(Thr1462)]					
GTP_gef_RHEB_[(G)]					
INPP4B_p-_PI_[(4)]					
IRS_[pY]_ppi+_PI3K_[SH2]					
PDK1_p+_AKT2_[(T309)]					
PI3K_p+_PI_[(3)]					
PIPP_p-_PI_[(5)]					
RHEB_[switch1DSYDPTIEN]_ppi+_mTOR_[FATf..2f..3]					
RHEB_[switch1]_ppi+_mTOR_[Mheatm..2m..3m..4]					
RHEB_[switch2GQDEYSIFPQTYSIDIN]_ppi+_mTOR_[Nheatn..3ton..7]					
Raptor_[TOS]_ppi+_S6K1_[TOS]					
TSC1_[Cterminus]_ppi-_TSC2_[Nterminus]					
[Output]					
elF4E_[A001]_ppi+_elF4G_[A002]					
elF4E_[A001]_ppi-_EIF4EBP1_[A001]					
mTORC1_p+_EIF4EBP1_[(Ser65)]					
mTORC1_p+_EIF4EBP1_[(Thr37)]					
mTORC1_p+_EIF4EBP1_[(Thr46)]					
mTORC1_p+_EIF4EBP1_[(Thr70)]					
mTORC2_p+_AKT2_[(S474)]					
mTOR_p+_S6K1_[(T389)]					
AKT2_[(S474)]-(p)					
AKT2_[(T309)]-(p)					
AKT2_[PI]--PI_[PH]					
EIF4EBP1_[(Ser65)]-(p)					
EIF4EBP1_[(Thr37)]-(p)					
EIF4EBP1_[(Thr46)]-(p)					
EIF4EBP1_[(Thr70)]-(p)					
EIF4EBP1_[A001]--(0)					
IRS_[(hS307)]-(0)					
IRS_[(hS527)]-(0)					
IRS_[pY]--PI3K_[SH2]					
PI_[(3)]-(p)					
PPM1G_[(AKT2)]-(p)					
RHEB_[(G)]-{gtp}					
RHEB_[switch1DSYDPTIEN]--mTOR_[FATf..2f..3]					
RHEB_[switch1]--mTOR_[Mheatm..2m..3m..4]					
RHEB_[switch2GQDEYSIFPQTYSIDIN]--mTOR_[Nheatn..3ton..7]					
Raptor_[TOS]--(0)					
Raptor_[mTOR]--(0)					
S6K1_[(T389)]-(0)					
S6K1_[TOS]--(0)					
TSC1_[Cterminus]--(0)					
TSC2_[(Ser1130)]-(p)					
TSC2_[(Ser939)]-(p)					
TSC2_[(Ser981)]-(p)					
TSC2_[(Thr1462)]-(p)					
TSC2_[Nterminus]--(0)					
[activatedPI3K]					
[insulin]					
elF4E_[A001]--elF4G_[A002]					
mTOR_[Raptor]--(0)					

t000 t001 t002 t003 t004 t005