

AKT2_[PH]_i-_PI_[AKT2]-
IRS_[pYMXM]_ppi-_PI3K_[SH2]-
IR_p-_IRS_[(tyrosines)]-
PDK1_[PH]_i-_PI_[PDK1]-
PHLPP1_p-_AKT2_[(S474)]-
PI4K3alpha_p+_PI_[(4)]-
PIPK1alpha_p+_PI_[(5)]-
PP2A_p-_AKT2_[(Thr309)]-
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_[switch1]_ppi-_mTOR_[MheatFAT]-
RHEB_[switch2]_ppi-_mTOR_[MheatNheatFAT]-
Raptor_[BindingMotif]_ppi+_PRAS40_[TOS]-
SAC1M1L_p-_PI_[(4)]-
SYNJ2_p-_PI_[(5)]-
TSC1_[Cterminus]_ppi+_TSC2_[Nterminus]-
TSC2_gap_RHEB_[(G)]-
insulin_[IR]_ppi-_IR_[insulin]-
mTOR_[LBE]_ppi+_mLST8_[WD40repeats]-
mTOR_[LBE]_ppi-_mLST8_[WD40repeats]-
mTOR_[RICTOR]_ppi+_RICTOR_[mTOR]-
mTOR_[RICTOR]_ppi-_RICTOR_[mTOR]-
mTOR_[Raptor]_ppi+_Raptor_[mTOR]-
mTOR_[Raptor]_ppi-_Raptor_[mTOR]-
mTOR_[SIN1]_ppi+_SIN1_[mTOR]-
mTOR_[SIN1]_ppi-_SIN1_[mTOR]-
protein1433_[PRAS40]_ppi-_PRAS40_[protein1433]-
unk1_p-_PPM1G_[(PPP1R3G)]-
unk2_p-_S6K1_[(T389)]-
unk3_p-_IRS_[(hS307)]-
unk4_p-_IRS_[(hS527)]-
unk5_p-_RICTOR_[(Thr1135)]-
unk6_p-_PRAS40_[(Thr246)]-
unk7_p-_PRAS40_[(Ser183)]-
unk8_p-_PRAS40_[(Ser221)]-
unk9_p-_SIN1_[(Thr86)]-
AKT2_[(S474)]--(0)-
AKT2_[(Thr309)]--(0)-
AKT2_[PH]--0-
EIF4EBP1_[(Ser65)]--(0)-
EIF4EBP1_[(Thr37)]--(0)-
EIF4EBP1_[(Thr46)]--(0)-
EIF4EBP1_[(Thr70)]--(0)-
GTP-
INPP4B-
IRS_[(hS307)]--(0)-
IRS_[(hS527)]--(0)-
IRS_[(tyrosines)]--(0)-
IRS_[pYMXM]--0-
IR_[insulin]--0-
PDK1_[PH]--0-
PHLPP1-
PI3K_[SH2]--0-
PI4K3alpha-
PIPK1alpha-
PIPP-
PI_[(3)]--(0)-
PI_[(4)]--(0)-
PI_[(4)]--(p)-
PI_[(5)]--(0)-
PI_[(5)]--(p)-
PI_[AKT2]--0-
PI_[PDK1]--0-
PP2A-
PP5-
PPM1G_[(PPP1R3G)]--(0)-
PRAS40_[(Ser183)]--(0)-
PRAS40_[(Ser221)]--(0)-
PRAS40_[(Thr246)]--(0)-
PRAS40_[TOS]--Raptor_[BindingMotif]-
PRAS40_[protein1433]--0-
PTEN-
RHEB_[(G)]--(0)-
RHEB_[switch1]--0-
RHEB_[switch2]--0-
RICTOR_[(Thr1135)]--(0)-
RICTOR_[mTOR]--0-
RICTOR_[mTOR]--mTOR_[RICTOR]-
Raptor_[mTOR]--0-
Raptor_[mTOR]--mTOR_[Raptor]-
S6K1_[(T389)]--(0)-
SAC1M1L-
SIN1_[(Thr86)]--(0)-
SIN1_[mTOR]--0-
SIN1_[mTOR]--mTOR_[SIN1]-
SYNJ2-
TSC1_[Cterminus]--TSC2_[Nterminus]-
TSC2_[(Ser1130)]--(0)-
TSC2_[(Ser939)]--(0)-
TSC2_[(Ser981)]--(0)-
TSC2_[(Thr1462)]--(0)-
insulin_[IR]--0-
mLST8_[WD40repeats]--0-
mLST8_[WD40repeats]--mTOR_[LBE]-
mTOR_[LBE]--0-
mTOR_[MheatFAT]--0-
mTOR_[MheatNheatFAT]--0-
mTOR_[RICTOR]--0-
mTOR_[Raptor]--0-
mTOR_[SIN1]--0-
protein1433_[PRAS40]--0-
unk1-
unk2-
unk3-
unk4-
unk5-
unk6-
unk7-
unk8-
unk9-
AKT2_[PH]_i+_PI_[AKT2]-
AKT2_p+_PPM1G_[(PPP1R3G)]-
AKT2_p+_PRAS40_[(Thr246)]-
AKT2_p+_SIN1_[(Thr86)]-
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_[pYMXM]_ppi+_PI3K_[SH2]-
IR_p+_IRS_[(tyrosines)]-
PDK1_[PH]_i+_PI_[PDK1]-
PDK1_p+_AKT2_[(Thr309)]-
PI3K_p+_PI_[(3)]-
PIPP_p-_PI_[(5)]-
RHEB_[switch1]_ppi+_mTOR_[MheatFAT]-
RHEB_[switch2]_ppi+_mTOR_[MheatNheatFAT]-
Raptor_[BindingMotif]_ppi-_PRAS40_[TOS]-
S6K1_p+_IRS_[(hS307)]-
S6K1_p+_IRS_[(hS527)]-
S6K1_p+_RICTOR_[(Thr1135)]-
TSC1_[Cterminus]_ppi-_TSC2_[Nterminus]-
[Output]-
insulin_[IR]_ppi+_IR_[insulin]-
mTOR_p+_AKT2_[(S474)]-
mTOR_p+_EIF4EBP1_[(Ser65)]-
mTOR_p+_EIF4EBP1_[(Thr37)]-
mTOR_p+_EIF4EBP1_[(Thr46)]-
mTOR_p+_EIF4EBP1_[(Thr70)]-
mTOR_p+_PRAS40_[(Ser183)]-
mTOR_p+_PRAS40_[(Ser221)]-
mTOR_p+_S6K1_[(T389)]-
protein1433_[PRAS40]_ppi+_PRAS40_[protein1433]-
AKT2_[(S474)]--(p)-
AKT2_[(Thr309)]--(p)-
AKT2_[PH]--PI_[AKT2]-
EIF4EBP1_[(Ser65)]--(p)-
EIF4EBP1_[(Thr37)]--(p)-
EIF4EBP1_[(Thr46)]--(p)-
EIF4EBP1_[(Thr70)]--(p)-
IRS_[(hS307)]--(p)-
IRS_[(hS527)]--(p)-
IRS_[(tyrosines)]--(p)-
IRS_[pYMXM]--PI3K_[SH2]-
IR_[insulin]--insulin_[IR]-
PDK1_[PH]--PI_[PDK1]-
PI_[(3)]--(p)-
PPM1G_[(PPP1R3G)]--(p)-
PRAS40_[(Ser183)]--(p)-
PRAS40_[(Ser221)]--(p)-
PRAS40_[(Thr246)]--(p)-
PRAS40_[TOS]--0-
PRAS40_[protein1433]--protein1433_[PRAS40]-
RHEB_[(G)]--(gtp)-
RHEB_[switch1]--mTOR_[MheatFAT]-
RHEB_[switch2]--mTOR_[MheatNheatFAT]-
RICTOR_[(Thr1135)]--(p)-
Raptor_[BindingMotif]--0-
S6K1_[(T389)]--(p)-
SIN1_[(Thr86)]--(p)-
TSC1_[Cterminus]--0-
TSC2_[(Ser1130)]--(p)-
TSC2_[(Ser939)]--(p)-
TSC2_[(Ser981)]--(p)-
TSC2_[(Thr1462)]--(p)-
TSC2_[Nterminus]--0-
[IR]-
[activatedIR]-
[activatedPI3K]-
[insulin]-