

	AKT2_[PH]_i-_PI_[AKT2]	
	IRS_[pYMXM]_ppi-_PI3K_[SH2]	
	IR_p-_IRS_[(tyrosines)]	
	MTM3_p-_phosphoinositide_[(3)]	
	PDK1_[PH]_i-_PI_[PDK1]	
	PHLPP1_p-_AKT2_[(S474)]	
	PI4K3alpha_p+_PI_[(4)]	
	PI5P4K_p+_phosphoinositide_[(4)]	
	PIKfyve_p+_phosphoinositide_[(5)]	
	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)]	
	PTEN2_p-_PI_[(3)]	
	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]	
	Raptor_[TOS]_ppi+_PRAS40_[TOS]	
	SAC1M1L_p-_PI_[(4)]	
	SYNJ2_p-_PI_[(5)]	
	TMEM55_p-_phosphoinositide_[(4)]	
	TSC1_[Cterminus]_ppi+_TSC2_[Nterminus]	
	TSC2_gap_RHEB_[(G)]	
	VPS34_p+_phosphoinositide_[(3)]	
	insulin_[IR]_ppi-_IR_[insulin]	
	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]	
	mTOR_[mLST8]_ppi+_mLST8_[mTOR]	
	mTOR_[mLST8]_ppi-_mLST8_[mTOR]	
	protein1433_[PRAS40]_ppi-_PRAS40_[protein1433]	
	unk10_p-_SIN1_[(Thr86)]	
	unk11_p-_SIN1_[(Thr398)]	
	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)]	
	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	
	MTM3	
	PDK1_[PH]--0	
	PHLPP1	
	PI3K_[SH2]--0	
	PI4K3alpha	
	PI5P4K	
	PIKfyve	
	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_[TOS]	
	PRAS40_[protein1433]--0	
	PTEN	
	PTEN2	
	RHEB_[(G)]--(0)	
	RHEB_[switch1DSYDPTIEN]--0	
	RHEB_[switch1]--0	
	RHEB_[switch2GQDEYSIFPQTYSIDIN]--0	
	RICTOR_[(Thr1135)]--(0)	
	RICTOR_[mTOR]--0	
	RICTOR_[mTOR]--mTOR_[RICTOR]	
	Raptor_[mTOR]--0	
	Raptor_[mTOR]--mTOR_[Raptor]	
	S6K1_[(T389)]--(0)	
	SAC1M1L	
	SAC3	
	SIN1_[(Thr398)]--(0)	
	SIN1_[(Thr86)]--(0)	
	SIN1_[mTOR]--0	
	SIN1_[mTOR]--mTOR_[SIN1]	
	SYNJ2	
	TMEM55	
	TSC1_[Cterminus]--TSC2_[Nterminus]	
	TSC2_[(Ser1130)]--(0)	
	TSC2_[(Ser939)]--(0)	
	TSC2_[(Ser981)]--(0)	
	TSC2_[(Thr1462)]--(0)	
	VPS34	
	insulin_[IR]--0	
	mLST8_[mTOR]--0	
	mLST8_[mTOR]--mTOR_[mLST8]	
	mTOR_[FATf..2f..3]--0	
	mTOR_[Mheatm..2m..3m..4]--0	
	mTOR_[Nheatn..3ton..7]--0	
	mTOR_[RICTOR]--0	
	mTOR_[Raptor]--0	
	mTOR_[SIN1]--0	
	mTOR_[mLST8]--0	
	phosphoinositide_[(3)]--(0)	
	phosphoinositide_[(3)]--(p)	
	phosphoinositide_[(4)]--(0)	
	phosphoinositide_[(4)]--(p)	
	phosphoinositide_[(5)]--(p)	
	protein1433_[PRAS40]--0	
	unk1	
	unk10	
	unk11	
	unk2	
	unk3	
	unk4	
	unk5	
	unk6	
	unk7	
	unk8	
	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_[switch1DSYDPTIEN]_ppi+_mTOR_[FATf..2f..3]	
	RHEB_[switch1]_ppi+_mTOR_[Mheatm..2m..3m..4]	
	RHEB_[switch2GQDEYSIFPQTYSIDIN]_ppi+_mTOR_[Nheatn..3ton..7]	
	Raptor_[TOS]_ppi-_PRAS40_[TOS]	
	S6K1_p+_IRS_[(hS307)]	
	S6K1_p+_IRS_[(hS527)]	
	S6K1_p+_RICTOR_[(Thr1135)]	
	S6K1_p+_SIN1_[(Thr398)]	
	SAC3_p-_PI_[(5)]	
	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_[switch1DSYDPTIEN]--mTOR_[FATf..2f..3]	
	RHEB_[switch1]--mTOR_[Mheatm..2m..3m..4]	
	RHEB_[switch2GQDEYSIFPQTYSIDIN]--mTOR_[Nheatn..3ton..7]	
	RICTOR_[(Thr1135)]--(p)	
	Raptor_[TOS]--0	
	S6K1_[(T389)]--(p)	
	SIN1_[(Thr398)]--(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]	
	phosphoinositide_[(5)]--(0)	