

	AKT2_[PI]_i+_PI_[PH]	
	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)]	
	IRS_[pY]_ppi+_PI3K_[SH2]	
	IRS_[pY]_ppi-_PI3K_[SH2]	
	PDK1_p+_AKT2_[(T309)]	
	PI3K_p+_PI_[(3)]	
	RHEB_[switch1DSYDPTIEN]_ppi+_mTOR_[FATf..2f..3]	
	RHEB_[switch1DSYDPTIEN]_ppi-_mTOR_[FATf..2f..3]	
	RHEB_[switch1]_ppi+_mTOR_[Mheatm..2m..3m..4]	
	RHEB_[switch1]_ppi-_mTOR_[Mheatm..2m..3m..4]	
	RHEB_[switch2GQDEYSIFPQTYSIDIN]_ppi+_mTOR_[Nheatn..3ton..7]	
	RHEB_[switch2GQDEYSIFPQTYSIDIN]_ppi-_mTOR_[Nheatn..3ton..7]	
	RTK_p+_IRS_[(RTK)]	
	RTK_p-_IRS_[(RTK)]	
	TSC1_[Cterminus]_ppi-_TSC2_[Nterminus]	
	elF4E_[A001]_ppi+_EIF4EBP1_[A001]	
	elF4E_[A001]_ppi-_elF4G_[A002]	
	mTORC2_p+_AKT2_[(S474)]	
	mitogen_[EGFR]_ppi+_EGFR_[mitogen]	
	mitogen_[EGFR]_ppi-_EGFR_[mitogen]	
	nk_p-_TSC2_[(Ser1130)]	
	nk_p-_TSC2_[(Ser939)]	
	nk_p-_TSC2_[(Ser981)]	
	nk_p-_TSC2_[(Thr1462)]	
	nn_p-_AKT2_[(S474)]	
	nn_p-_AKT2_[(T309)]	
	unk_p-_PI_[(3)]	
	unk_p-_PI_[(4)]	
	unk_p-_PI_[(5)]	
	unknown1_p+_PI_[(4)]	
	unknown2_p+_PI_[(5)]	
	AKT2_[(S474)]-(0)	
	AKT2_[(S474)]-(p)	
	AKT2_[(T309)]-(0)	
	AKT2_[(T309)]-(p)	
	AKT2_[PI]--0	
	AKT2_[PI]--PI_[PH]	
	EGFR_[mitogen]--0	
	EGFR_[mitogen]--mitogen_[EGFR]	
	EIF4EBP1_[(Ser65)]-(0)	
	EIF4EBP1_[(Thr37)]-(0)	
	EIF4EBP1_[(Thr46)]-(0)	
	EIF4EBP1_[(Thr70)]-(0)	
	EIF4EBP1_[A001]--elF4E_[A001]	
	GTP	
	IRS_[(RTK)]-(0)	
	IRS_[(RTK)]-(p)	
	IRS_[pY]--0	
	IRS_[pY]--PI3K_[SH2]	
	PDK1	
	PI3K_[SH2]--0	
	PI_[(3)]-(0)	
	PI_[(3)]-(p)	
	PI_[(4)]-(0)	
	PI_[(4)]-(p)	
	PI_[(5)]-(0)	
	PI_[(5)]-(p)	
	PI_[PH]--0	
	PPM1G_[(AKT2)]-(p)	
	RHEB_[(G)]-(gtp)	
	RHEB_[switch1DSYDPTIEN]--0	
	RHEB_[switch1DSYDPTIEN]--mTOR_[FATf..2f..3]	
	RHEB_[switch1]--0	
	RHEB_[switch1]--mTOR_[Mheatm..2m..3m..4]	
	RHEB_[switch2GQDEYSIFPQTYSIDIN]--0	
	RHEB_[switch2GQDEYSIFPQTYSIDIN]--mTOR_[Nheatn..3ton..7]	
	RTK	
	Raptor_[mTOR]--0	
	TSC1_[Cterminus]--0	
	TSC2_[(Ser1130)]-(0)	
	TSC2_[(Ser1130)]-(p)	
	TSC2_[(Ser939)]-(0)	
	TSC2_[(Ser939)]-(p)	
	TSC2_[(Ser981)]-(0)	
	TSC2_[(Ser981)]-(p)	
	TSC2_[(Thr1462)]-(0)	
	TSC2_[(Thr1462)]-(p)	
	TSC2_[Nterminus]--0	
	[EGFR]	
	[EIF4EBP1]	
	[activatedEGFR]	
	[activatedPI3K]	
	[elF4E]	
	[elF4G]	
	[mTOR]	
	[mitogen]	
	elF4G_[A002]--0	
	mTORC1	
	mTORC2	
	mTOR_[FATf..2f..3]--0	
	mTOR_[Mheatm..2m..3m..4]--0	
	mTOR_[Nheatn..3ton..7]--0	
	mTOR_[Raptor]--0	
	mitogen_[EGFR]--0	
	nk	
	nn	
	unk	
	unknown1	
	unknown2	
	PPM1G_p-_EIF4EBP1_[(Ser65)]-	
	PPM1G_p-_EIF4EBP1_[(Thr37)]-	
	PPM1G_p-_EIF4EBP1_[(Thr46)]-	
	PPM1G_p-_EIF4EBP1_[(Thr70)]-	
	TSC1_[Cterminus]_ppi+_TSC2_[Nterminus]	
	TSC2_gap_RHEB_[(G)]-	
	[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)]-	
	mTOR_[Raptor]_ppi+_Raptor_[mTOR]	
	EIF4EBP1_[(Ser65)]-(p)	
	EIF4EBP1_[(Thr37)]-(p)	
	EIF4EBP1_[(Thr46)]-(p)	
	EIF4EBP1_[(Thr70)]-(p)	
	EIF4EBP1_[A001]--0	
	PPM1G_[(AKT2)]-(0)	
	RHEB_[(G)]-(0)	
	Raptor_[mTOR]--mTOR_[Raptor]	
	TSC1_[Cterminus]--TSC2_[Nterminus]	
	[Raptor]	
	elF4E_[A001]--0	
	elF4E_[A001]--elF4G_[A002]	