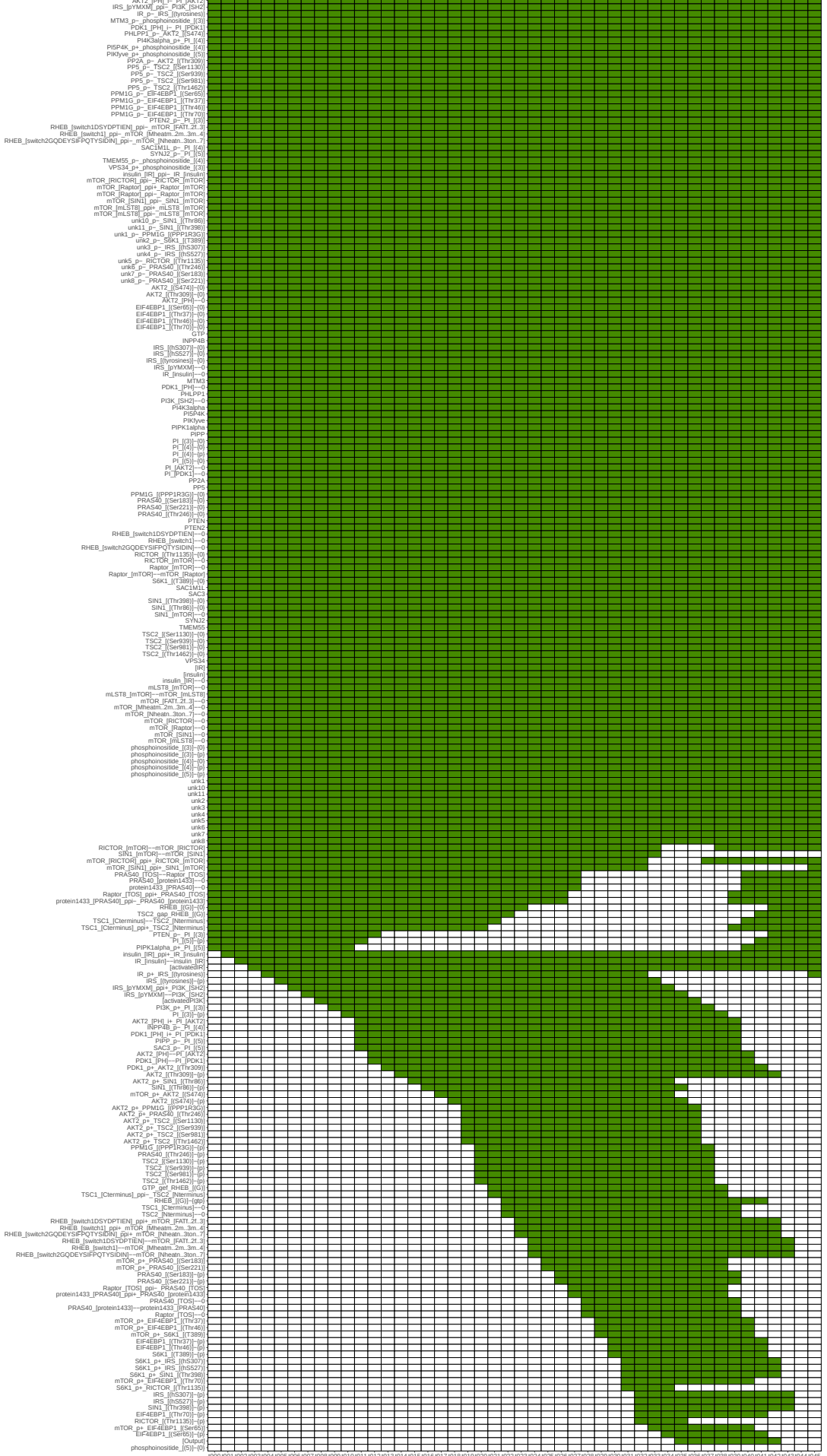
AKT2_[PH]_p+_PI_[AKT2]
IRS_[pYMXM]_ppi+_PI3K_[SH2]
IR_p+_IRS_[(tyrosines)]
MTM3_p+_phosphoinositide_[(3)]
PDK1_[PH]_i+_PI_[PDK1]
PHLPP1_p+_AKT2_[(S474)]
PI4K3alpha_p+_PI_[(4)]
PI5P4K_p+_phosphoinositide_[(4)]
PIKfyve_p+_phosphoinositide_[(5)]
PP2A_p+_AKT2_[(Thr309)]
PP5_p+_TSC2_[(Ser1130)]
PP5_p+_TSC2_[(Ser939)]
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)]
RHEB_[switch1DSYDPTIEN]_ppi+_mTOR_[FATt..2t..3]
RHEB_[switch1]_ppi+_mTOR_[Mheatm..2m..3m..4]
RHEB_[switch2GQDEYSIFPQTYSIDIN]_ppi+_mTOR_[Nheatn..3ton..7]
SAC1M1L_p+_PI_[(4)]
SYNJ2_p+_PI_[(5)]
TMEM55_p+_phosphoinositide_[(4)]
VPS34_p+_phosphoinositide_[(3)]
insulin_[IR]_ppi+_IR_[insulin]
mTOR_[RICTOR]_ppi+_RICTOR_[mTOR]
mTOR_[Raptor]_ppi+_Raptor_[mTOR]
mTOR_[Raptor]_ppi+_Raptor_[mTOR]
mTOR_[SIN1]_ppi+_SIN1_[mTOR]
mTOR_[mLST8]_ppi+_mLST8_[mTOR]
mTOR_[mLST8]_ppi+_mLST8_[mTOR]
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_[AKT2]–0
PI_[PDK1]–0
PP2A
PP5
PPM1G_[(PPP1R3G)]–{0}
PRAS40_[(Ser183)]–{0}
PRAS40_[(Ser221)]–{0}
PRAS40_[(Thr246)]–{0}
PTEN
PTEN2
RHEB_[switch1DSYDPTIEN]–0
RHEB_[switch1]–0
RHEB_[switch2GQDEYSIFPQTYSIDIN]–0
RICTOR_[(Thr1135)]–{0}
RICTOR_[mTOR]–0
Raptor_[mTOR]–0
Raptor_[mTOR]–mTOR_[Raptor]
S6K1_[(T389)]–{0}
SAC1M1L
SAC3
SIN1_[(Thr398)]–{0}
SIN1_[(Thr86)]–{0}
SIN1_[mTOR]–0
SYNJ2
TMEM55
TSC2_[(Ser1130)]–{0}
TSC2_[(Ser939)]–{0}
TSC2_[(Ser981)]–{0}
TSC2_[(Thr1462)]–{0}
VPS34
[IR]
[insulin]
insulin_[IR]–0
mLST8_[mTOR]–0
mLST8_[mTOR]–mTOR_[mLST8]
mTOR_[FATt..2t..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}
unk1
unk10
unk11
unk2
unk3
unk4
unk5
unk6
unk7
unk8
RICTOR_[mTOR]–mTOR_[RICTOR]
SIN1_[mTOR]–mTOR_[SIN1]
mTOR_[RICTOR]_ppi+_RICTOR_[mTOR]
mTOR_[SIN1]_ppi+_SIN1_[mTOR]
PRAS40_[TOS]–Raptor_[TOS]
PRAS40_[protein1433]–0
protein1433_[PRAS40]–0
Raptor_[TOS]_ppi+_PRAS40_[TOS]
protein1433_[PRAS40]_ppi–_PRAS40_[protein1433]
RHEB_[(G)]–{0}
TSC2_gap_RHEB_[(G)]
TSC1_[Cterminus]–TSC2_[Nterminus]
TSC1_[Cterminus]_ppi+_TSC2_[Nterminus]
PTEN_p+_PI_[(3)]
PI_[(5)]–{p}
PIPK1alpha_p+_PI_[(5)]
insulin_[IR]_ppi+_IR_[insulin]
IR_[insulin]–insulin_[IR]
[activatedIR]
IR_p+_IRS_[(tyrosines)]
IRS_[(tyrosines)]–{p}
IRS_[pYMXM]_ppi+_PI3K_[SH2]
IRS_[pYMXM]–PI3K_[SH2]
[activatedPI3K]
PI3K_p+_PI_[(3)]
PI_[(3)]–{p}
AKT2_[PH]_i+_PI_[AKT2]
INPP4B_p+_PI_[(4)]
PDK1_[PH]_i+_PI_[PDK1]
PIPP_p+_PI_[(5)]
SAC3_p+_PI_[(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_[(S474)]
AKT2_[(S474)]–{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]_ppi–_TSC2_[Nterminus]
RHEB_[(G)]–{gtp}
TSC1_[Cterminus]–0
TSC2_[Nterminus]–0
RHEB_[switch1DSYDPTIEN]_ppi+_mTOR_[FATt..2t..3]
RHEB_[switch1]_ppi+_mTOR_[Mheatm..2m..3m..4]
RHEB_[switch2GQDEYSIFPQTYSIDIN]_ppi+_mTOR_[Nheatn..3ton..7]
RHEB_[switch1DSYDPTIEN]–mTOR_[FATt..2t..3]
RHEB_[switch1]–mTOR_[Mheatm..2m..3m..4]
RHEB_[switch2GQDEYSIFPQTYSIDIN]–mTOR_[Nheatn..3ton..7]
mTOR_p+_PRAS40_[(Ser183)]
mTOR_p+_PRAS40_[(Ser221)]
PRAS40_[(Ser183)]–{p}
PRAS40_[(Ser221)]–{p}
Raptor_[TOS]_ppi–_PRAS40_[TOS]
protein1433_[PRAS40]_ppi+_PRAS40_[protein1433]
PRAS40_[TOS]–0
PRAS40_[protein1433]–protein1433_[PRAS40]
Raptor_[TOS]–0
mTOR_p+_EIF4EBP1_[(Thr37)]
mTOR_p+_EIF4EBP1_[(Thr46)]
mTOR_p+_S6K1_[(T389)]
EIF4EBP1_[(Thr37)]–{p}
EIF4EBP1_[(Thr46)]–{p}
S6K1_[(T389)]–{p}
S6K1_p+_IRS_[(hS307)]
S6K1_p+_IRS_[(hS527)]
S6K1_p+_SIN1_[(Thr398)]
mTOR_p+_EIF4EBP1_[(Thr70)]
S6K1_p+_RICTOR_[(Thr1135)]
IRS_[(hS307)]–{p}
IRS_[(hS527)]–{p}
SIN1_[(Thr398)]–{p}
EIF4EBP1_[(Thr70)]–{p}
RICTOR_[(Thr1135)]–{p}
mTOR_p+_EIF4EBP1_[(Ser65)]
EIF4EBP1_[(Ser65)]–{p}
[Output]
phosphoinositide_[(5)]–{0}
t000 t001 t002 t003 t004 t005 t006 t007 t008 t009 t010 t011 t012 t013 t014 t015 t016 t017 t018 t019 t020 t021 t022 t023 t024 t025 t026 t027 t028 t029 t030 t031 t032 t033 t034 t035 t036 t037 t038 t039 t040 t041 t042 t043 t044 t045