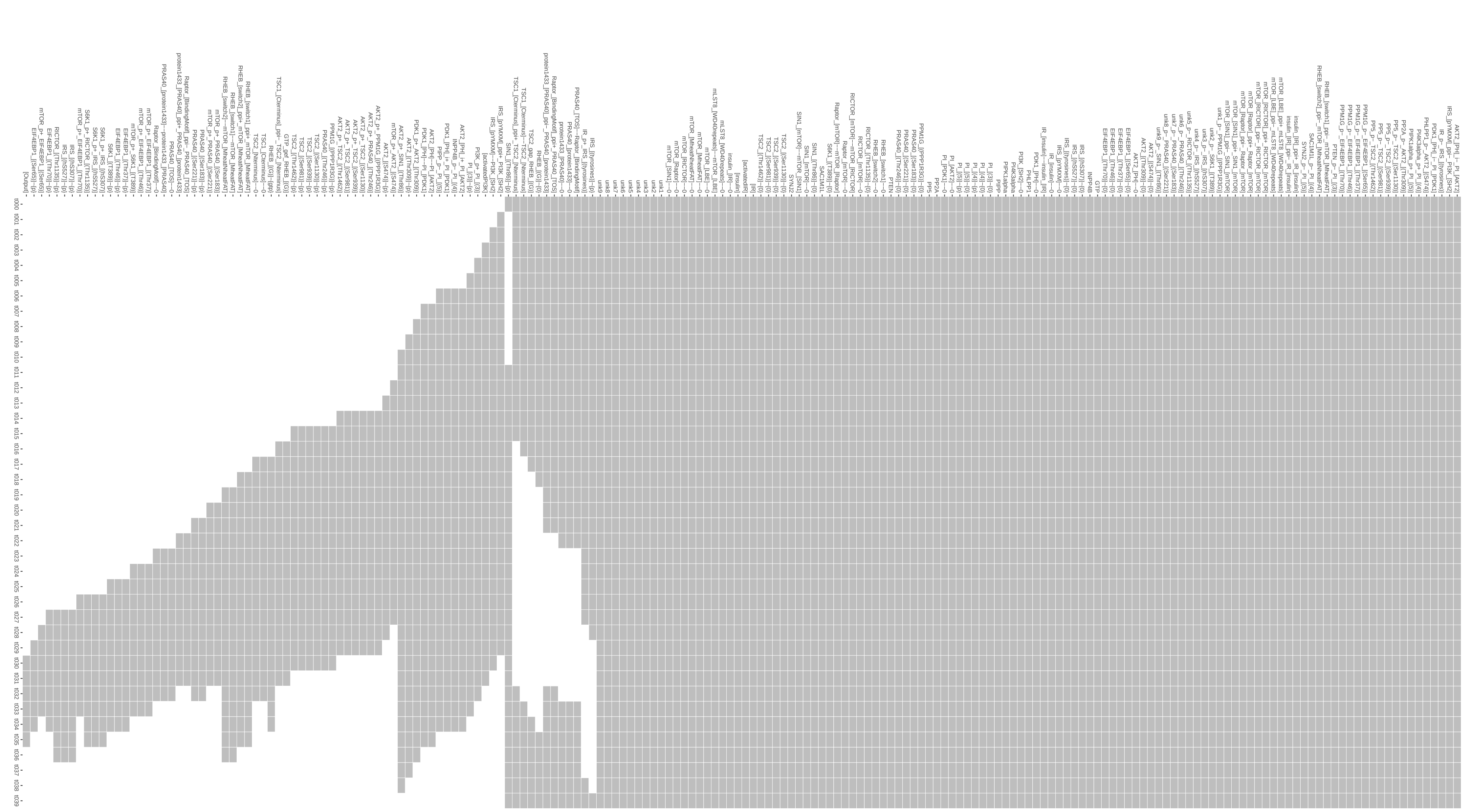
AKT2_[PHI]_i+_PI_[AKT2]
IRS_[p(Y)MXM]_i+_PI3K_[SH2]
IR_p+_IRS_[(tyrosines)]
PDK1_[PHI]_i+_PI_[PDK1]
PHLPP1_p+_AKT2_[S474]
PIK3alpha_p+_PI_[(6)]
PIP5K1alpha_p+_PI_[(5)]
PP2A_p+_AKT2_[Thr309]
PP5_p+_TSC2_[Ser1130]
PP5_p+_TSC2_[Ser939]
PP5_p+_TSC2_[Ser981]
PP5_p+_TSC2_[Thr1462]
PPM1G_p+_EIF4EBP1_[Ser65]
PPM1G_p+_EIF4EBP1_[Thr37]
PPM1G_p+_EIF4EBP1_[Thr46]
PPM1G_p+_EIF4EBP1_[Thr70]
PTEN_p+_PI_[(3)]
RHEB_[switch1]_ppi+_mTOR_[MheatNheatFAT]
RHEB_[switch2]_ppi+_mTOR_[MheatNheatFAT]
SAC1M1L_p+_PI_[(4)]
SYNJ2_p+_PI_[(5)]
insulin_[IR]_ppi+_IR_insulin
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]
unk2_p+_S6K1_[T389]
unk3_p+_IRS_[(Ser307)]
unk4_p+_IRS_[(Ser527)]
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)
PI_[(3)]+_(0)
PI_[(4)]+_(0)
PI_[(5)]+_(0)
PI_[(6)]+_(0)
PI_[AKT2]+_(0)
PI_[PDK1]+_(0)
PP2A_p+_AKT2_[S474]
PP5_p+_TSC2_[Ser939]
PPM1G_[(PPP1R3G)]+_(0)
IRS_[(p(Y)MXM)]+_(0)
IRS_[(Ser307)]+_(0)
IRS_[(S527)]+_(0)
IRS_[(tyrosines)]+_(0)
IRS_[(p(Y)MXM)]+_(0)
PRAS40_[(Ser183)]+_(0)
PRAS40_[(Ser221)]+_(0)
PRAS40_[(Thr246)]+_(0)
PRAS40_[(Thr37)]+_(0)
PRAS40_[(Thr46)]+_(0)
EIF4EBP1_[(Thr70)]+_(0)
INPP4B
GTP
PIP5K1alpha
PIP2
PI_[(3)]+_(0)
PI_[(4)]+_(0)
PI_[(5)]+_(0)
PI_[(6)]+_(0)
PI_[(6)]+_(0)
PI_[AKT2]+_(0)
PI_[PDK1]+_(0)
PP2A
PP5
PPM1G_[(PPP1R3G)]+_(0)
IRS_[(p(S)Y)]+_(0)
IRS_[(Ser307)]+_(0)
IRS_[(tyrosines)]+_(0)
IRS_[(p(Y)MXM)]+_(0)
PRAS40_[(Ser183)]+_(0)
PRAS40_[(Ser221)]+_(0)
PRAS40_[(Thr246)]+_(0)
PRAS40_[(Thr37)]+_(0)
PRAS40_[(Thr46)]+_(0)
EIF4EBP1_[(Thr70)]+_(0)
PTEN
RHEB_[switch1]+_(0)
RHEB_[switch2]+_(0)
PTEN
RICTOR_[(Thr1135)]+_(0)
RICTOR_[(Thr1135)]+_(0)
RICTOR_[mTOR]+_(0)
RICTOR_[mTOR]+_(0)
Raptor_[mTOR]+_(0)
Raptor_[mTOR]+_(0)
S6K1_[(T389)]+_(0)
5AC1M1L
SIN1_[(Thr86)]+_(0)
SIN1_[mTOR]+_(0)
SIN1_[(Thr86)]+_(0)
SIN1_[mTOR]+_(0)
SYNJ2
TSC2_[(Ser1130)]+_(0)
TSC2_[(Ser939)]+_(0)
TSC2_[(Ser981)]+_(0)
TSC2_[(Thr1462)]+_(0)
[IR]
[activateIR]
[insulin]
insulin_[IR]+_(0)
insulin
mLST8_[WD40repeats]+_(0)
mLST8_[WD40repeats]+_(0)
mTOR_[LBE]+_(0)
mTOR_[LBE]+_(0)
mTOR_[MheatNheatFAT]+_(0)
mTOR_[MheatNheatFAT]+_(0)
mTOR_[RICTOR]+_(0)
mTOR_[RICTOR]+_(0)
mTOR_[SIN1]+_(0)
mTOR_[SIN1]+_(0)
unk1
unk2
unk3
unk4
unk5
unk6
unk7
unk8
unk9
IRS_[(tyrosines)]+_(0)
IR_p+_IRS_[(tyrosines)]
PRAS40_[TOS]+_Raptor_[BindingMotif]
PRAS40_[protein1433]+_0
Raptor_[BindingMotif]_ppi+_PRAS40_[TOS]
protein1433_[PRAS40]_ppi+_PRAS40_[protein1433]
protein1433_[PRAS40]_ppi+_PRAS40_[protein1433]
TSC2_gap_RHEB_[(G)]+_(0)
TSC2_gap_RHEB_[(G)]+_(0)
TSC1_[Cterminus]+_TSC2_[Nterminus]
TSC1_[Cterminus]_ppi+_TSC2_[Nterminus]
SIN1_[(Thr86)]+_(0)
IRS_[p(Y)MXM]_ppi+_PI3K_[SH2]
IRS_[p(Y)MXM]+_PI3K_[SH2]
[activateIR]+_PI3K
PI3K_p+_PI_[(3)]
AKT2_[PH]_i+_PI_[AKT2]
INPP4B_p+_PI_[(4)]
PDK1_[PH]_i+_PI_[PDK1]
PDK1_[PH]+_PI_[PDK1]
PDK1_p+_AKT2_[(Thr309)]
AKT2_[(Thr309)]+_(0)
AKT2_p+_SIN1_[(Thr86)]
mTOR_p+_AKT2_[(S474)]
AKT2_[(S474)]+_(0)
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)]+_(0)
PRAS40_[(Thr246)]+_(0)
TSC2_[(Ser939)]+_(0)
TSC2_[(Ser1130)]+_(0)
TSC2_[(Ser981)]+_(0)
TSC2_[(Thr1462)]+_(0)
EIF4EBP1_[(Thr46)]+_(0)
EIF4EBP1_[(Thr37)]+_(0)
mTOR_p+_S6K1_[(T389)]
S6K1_[(T389)]+_(0)
S6K1_p+_IRS_[(Ser307)]
S6K1_p+_IRS_[(Ser527)]
S6K1_p+_PDK1_[(Thr1135)]
IRS_[(p(S)Y)]+_(0)
IRS_[(p(S307))]+_(0)
IRS_[(p(S527))]+_(0)
EIF4EBP1_[(Thr70)]+_(0)
EIF4EBP1_[(Thr70)]+_(0)
EIF4EBP1_[(Ser65)]+_(0)
EIF4EBP1_[(Ser65)]+_(0)
[Output]
t000
t001
t002
t003
t004
t005
t006
t007
t008
t009
t010
t011
t012
t013
t014
t015
t016
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t020
t021
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t024
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t027
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t038
t039