```
1e7
    [l(bs)]
    [IR(NPXY,Y999~u,alpha,beta,loc~m)]
[IR(NPXY,Y999~u,alpha,beta,loc~c)]
— [IRS1(S636~u,Y~u,Y896,YXXM)]
— [PIBK(SH2)]
— [PIBK variant(Y~u)]
—— [PI45()]
—— [Pl345()]
---- [PI34()]
 — [PKC(T410~u)]
— [GLUT4(loc~c)]
— [GLUT4(loc~m)]
— [Amino_Acids()]
 — [AMPK(T172~u)]
— [Akt(S474~u,T309~u)]
    [mTORC1(S2448~u)]
    [mTORC2(S2481~u)]
    [p70S6K(T389~u)]
    [TSC1^{\circ} TSC2(S1387~u,T1462~p)]
    [GS(SH2,state~a)]
```