The DEP domain region (349-487) is also homologous to "winged helix" DNA-binding domain. CHK-Hom indicates homologous region enriched in Cys, His and Lys. Parts of CHK-Hom show homology to spectrin repeats (not shown). H in ArPIKfyve are heat repeats. Presented are the products of PIKfyve or Fab1, the substrates of Sac3, and the affected PI by ArPIKfyve or Vac14, confirmed both in vitro and in vivo.