

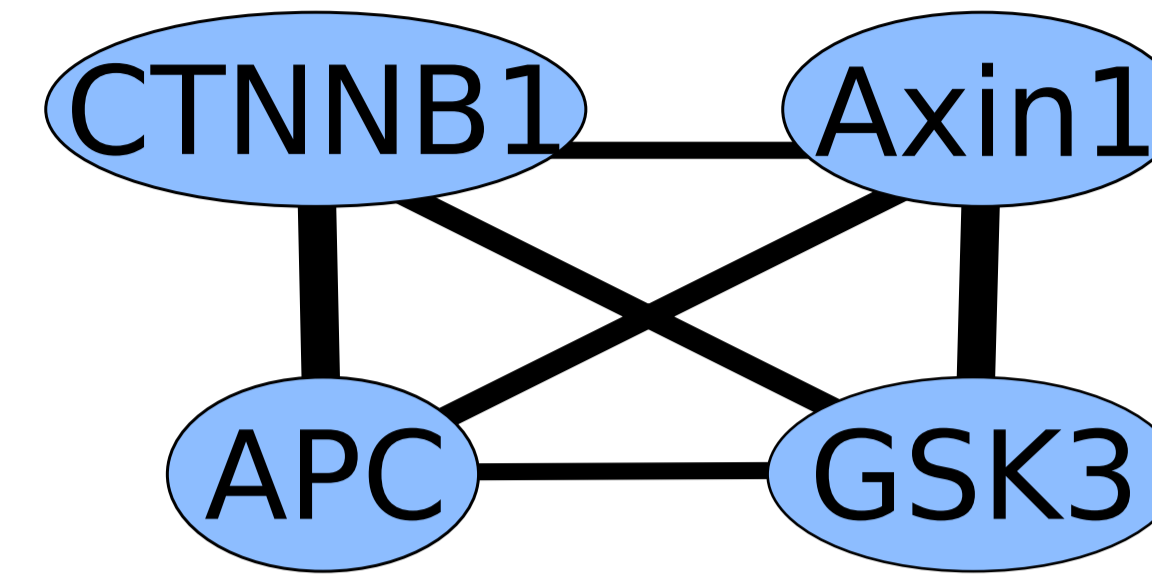
# Graph representation

# Proposed representation

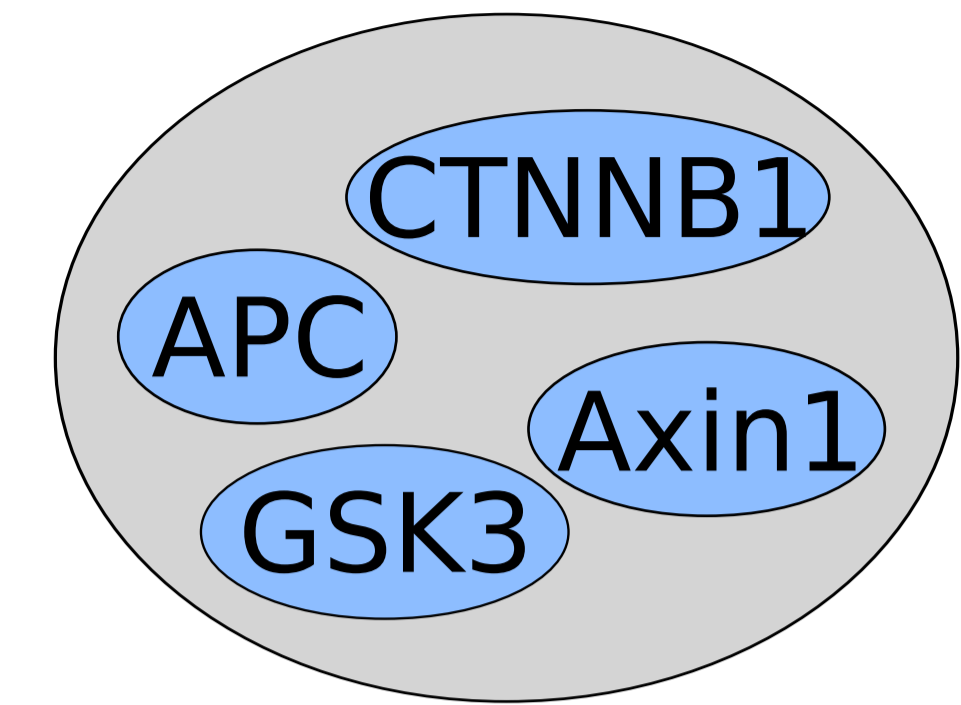
## I. Complex

*The destruction complex (APC/Axin1/GSK3) bound to  $\beta$ -catenin (CTNNB1)*

## Clique



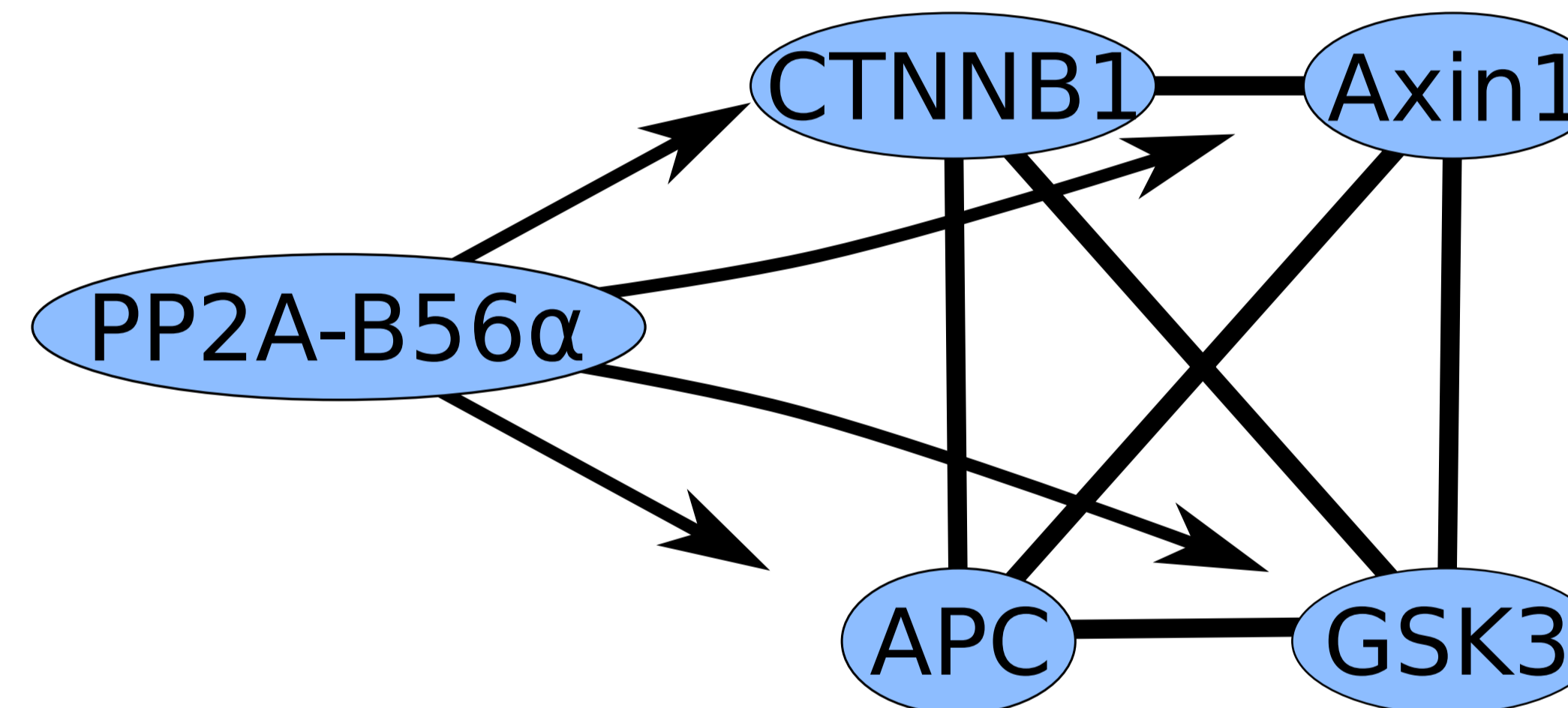
## Hypernode



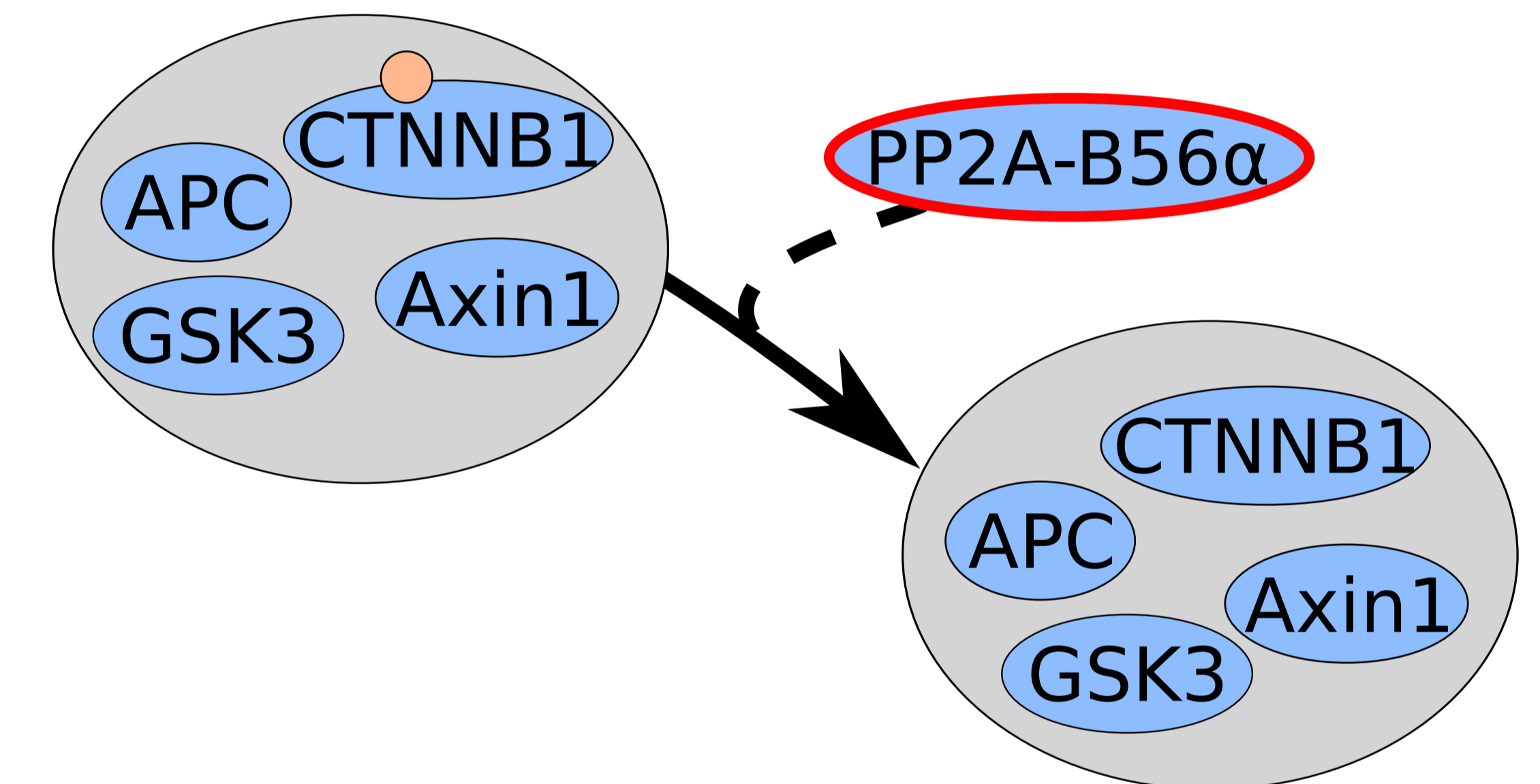
## II. Regulated reaction

*PP2A-B56 $\alpha$  dephosphorylates the APC/Axin1/GSK3/ $\beta$ -catenin complex*

*Connect regulator(s) to product(s)*



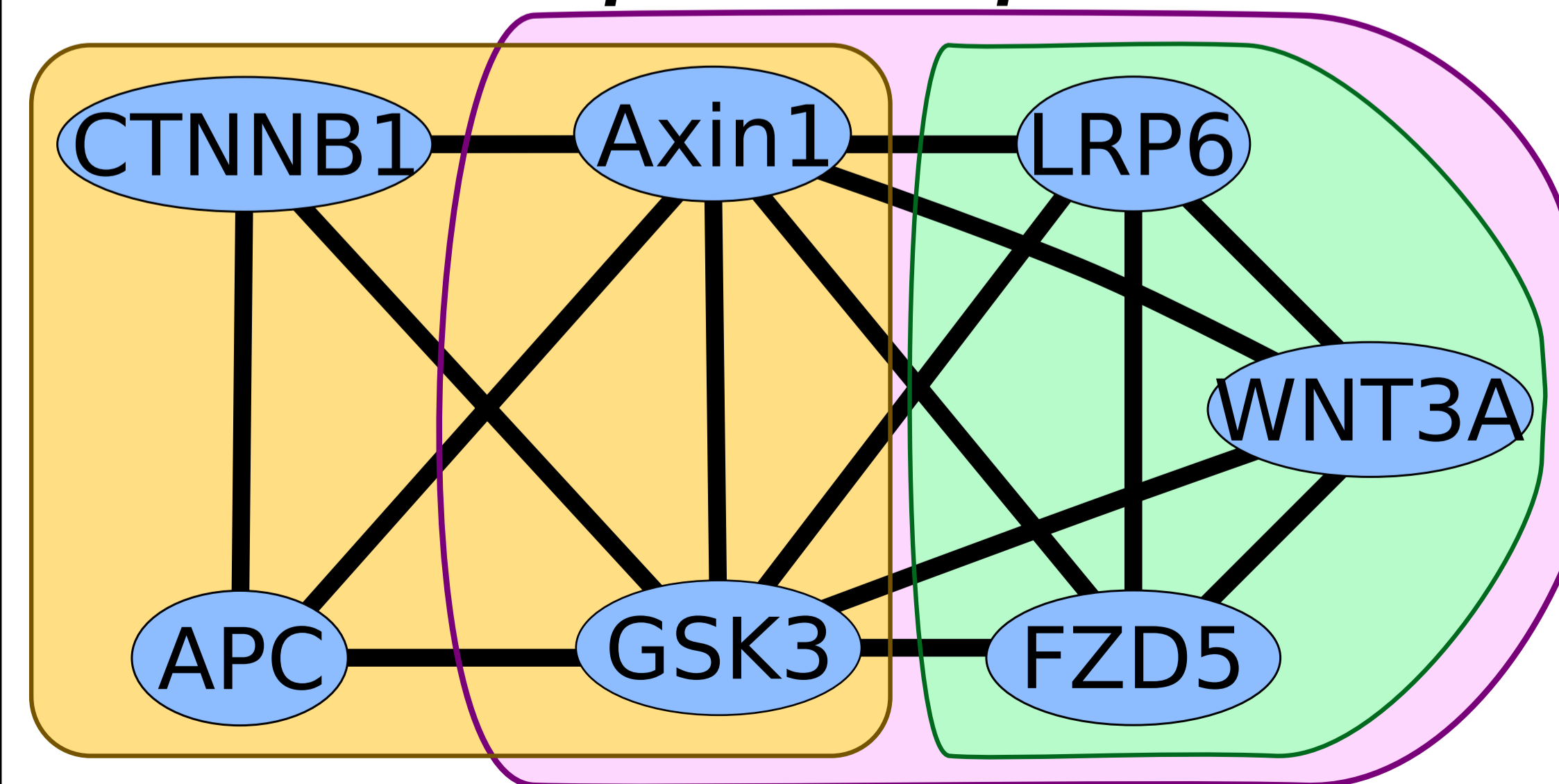
*Directed hyperedge*



## III. Complex assembly

*The WNT3A/FZD5/LRP6 complex sequesters GSK3 and Axin1, releasing APC and active  $\beta$ -catenin*

## Multiple cliques



*Directed hyperedge*

