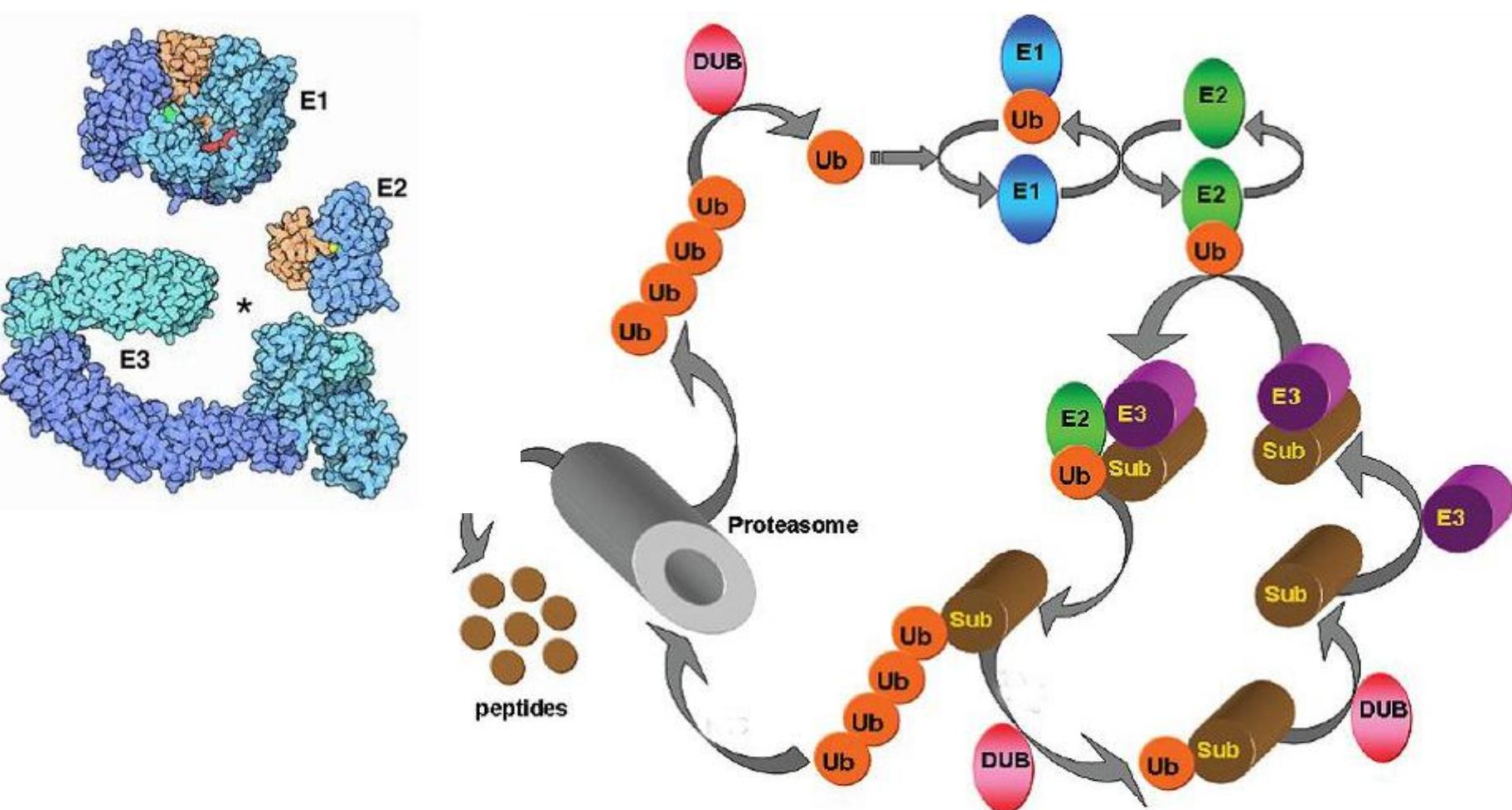
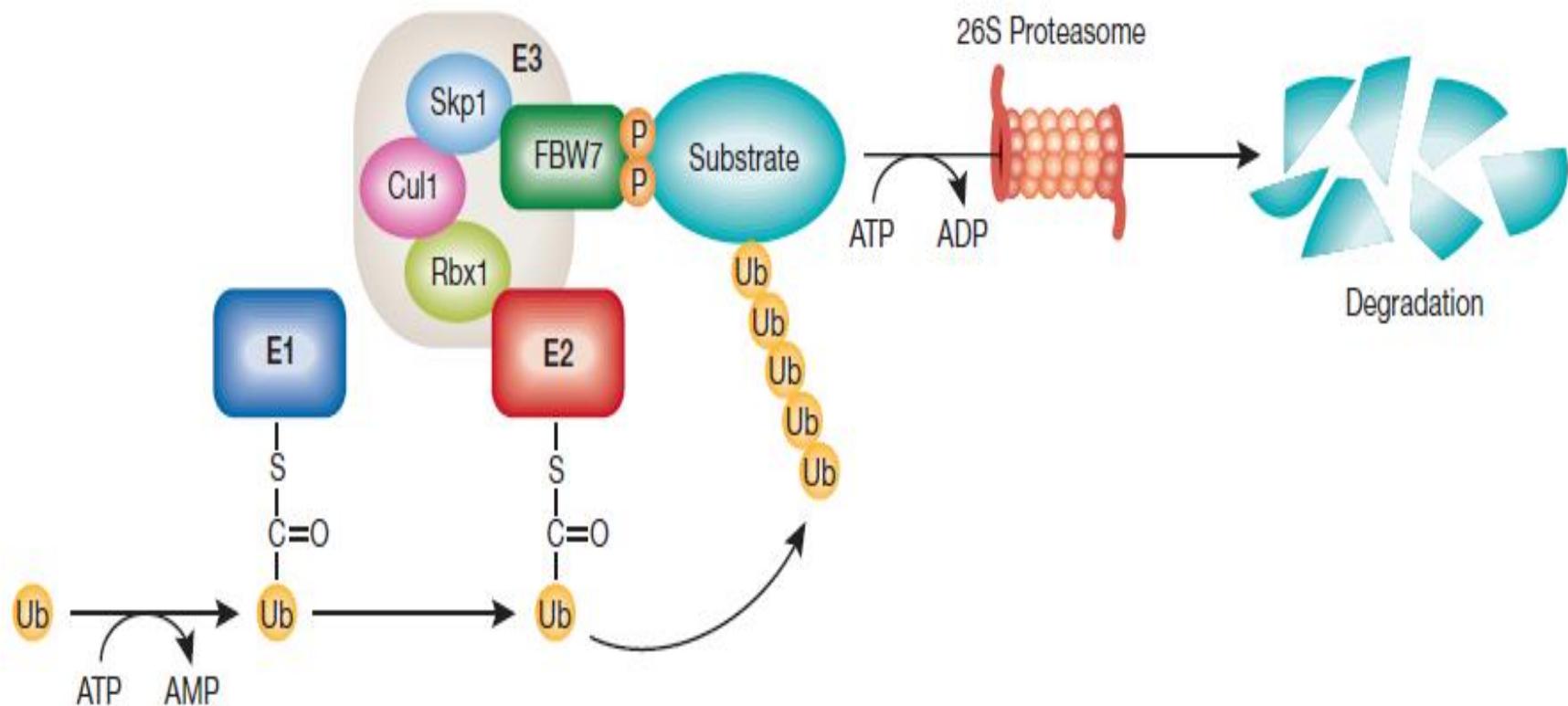


# Exploring the molecular mechanism of *FBXW7* promoting GATA3 destabilization and its biological significance in breast cancer

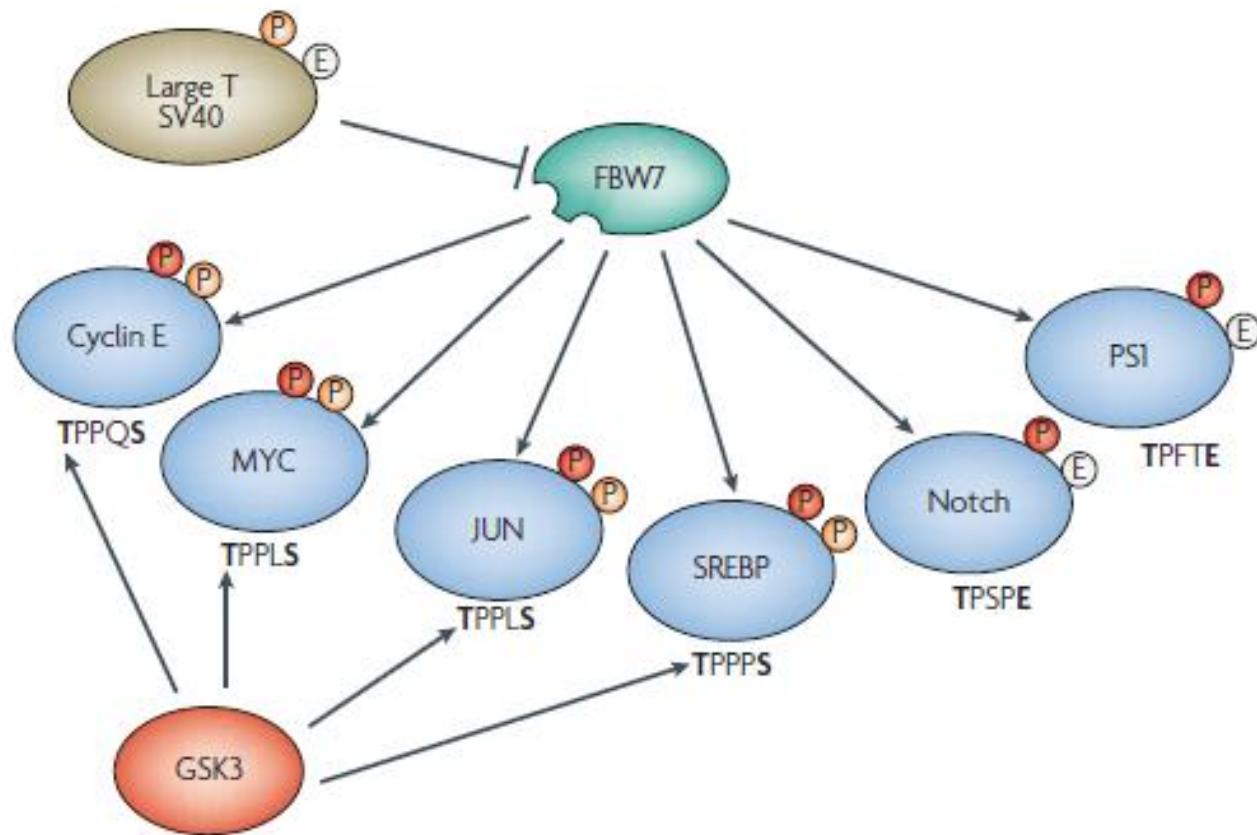
# Background



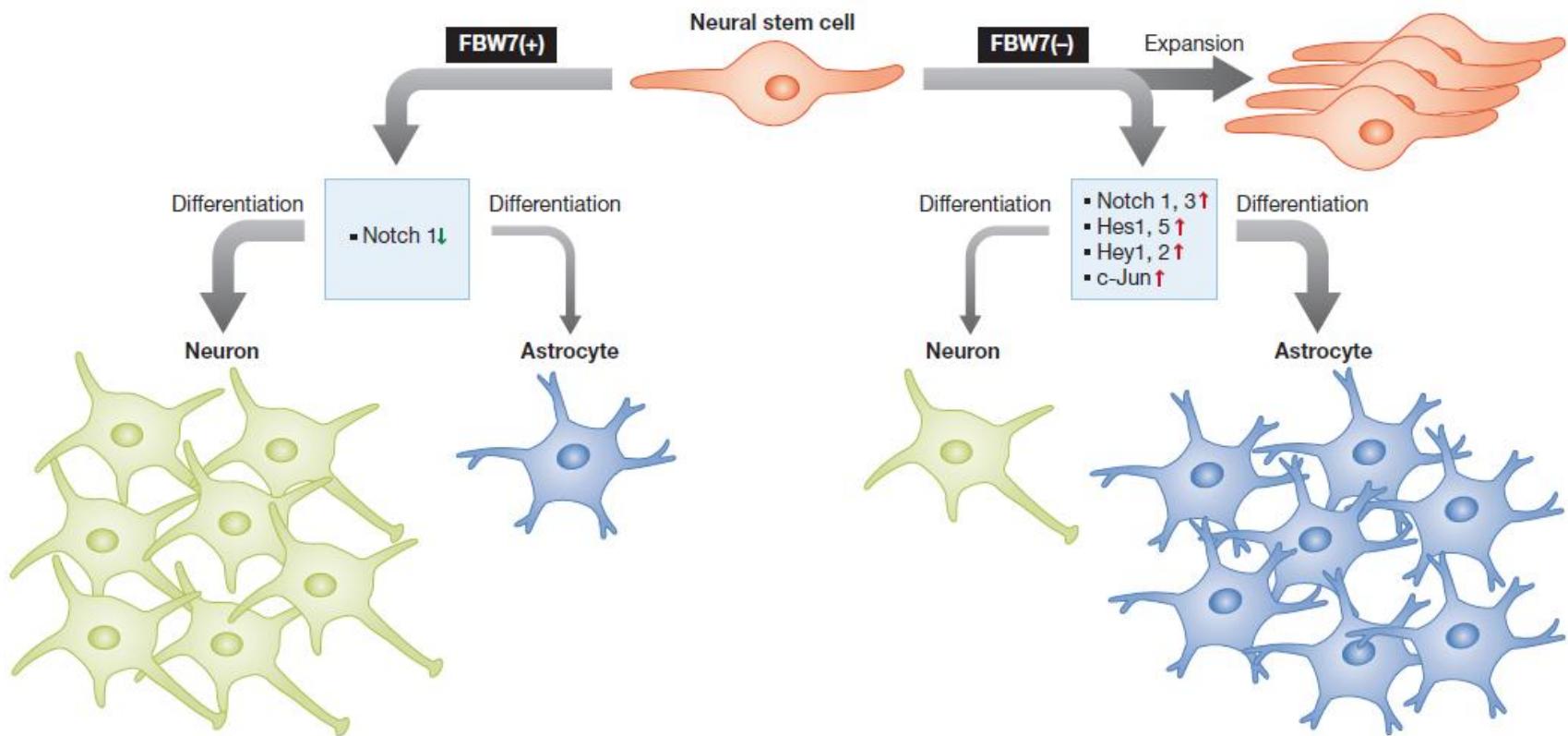
# Background



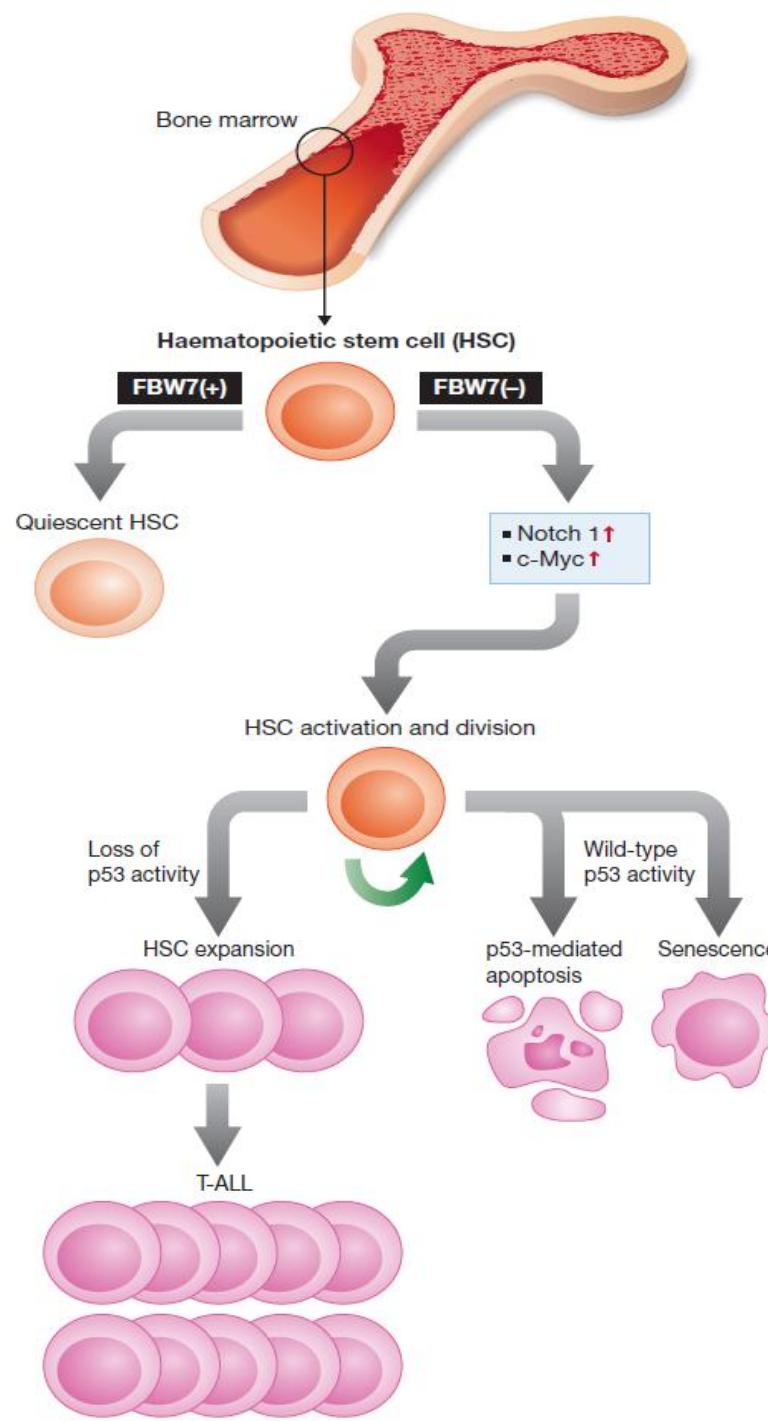
# Background



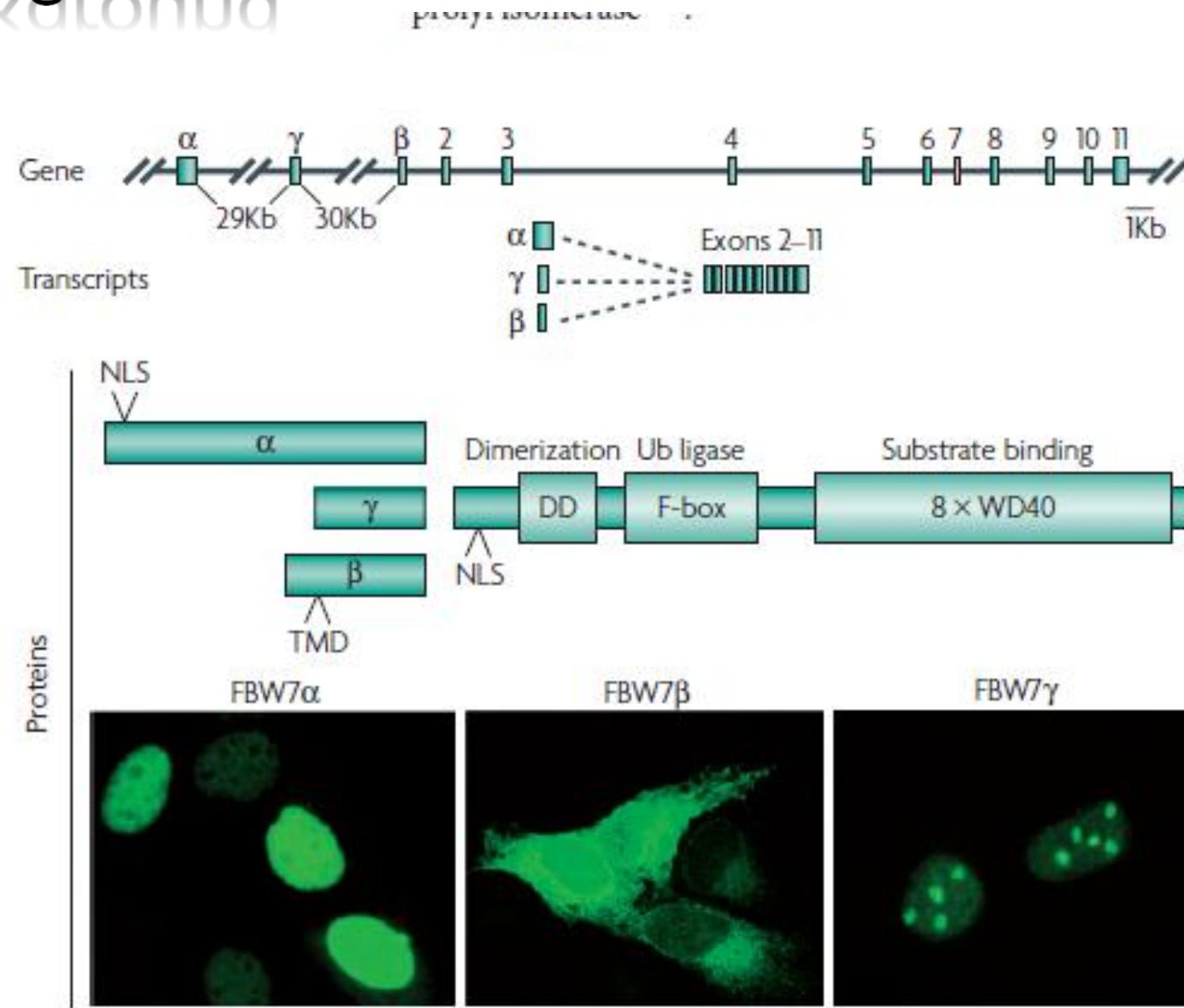
# Background



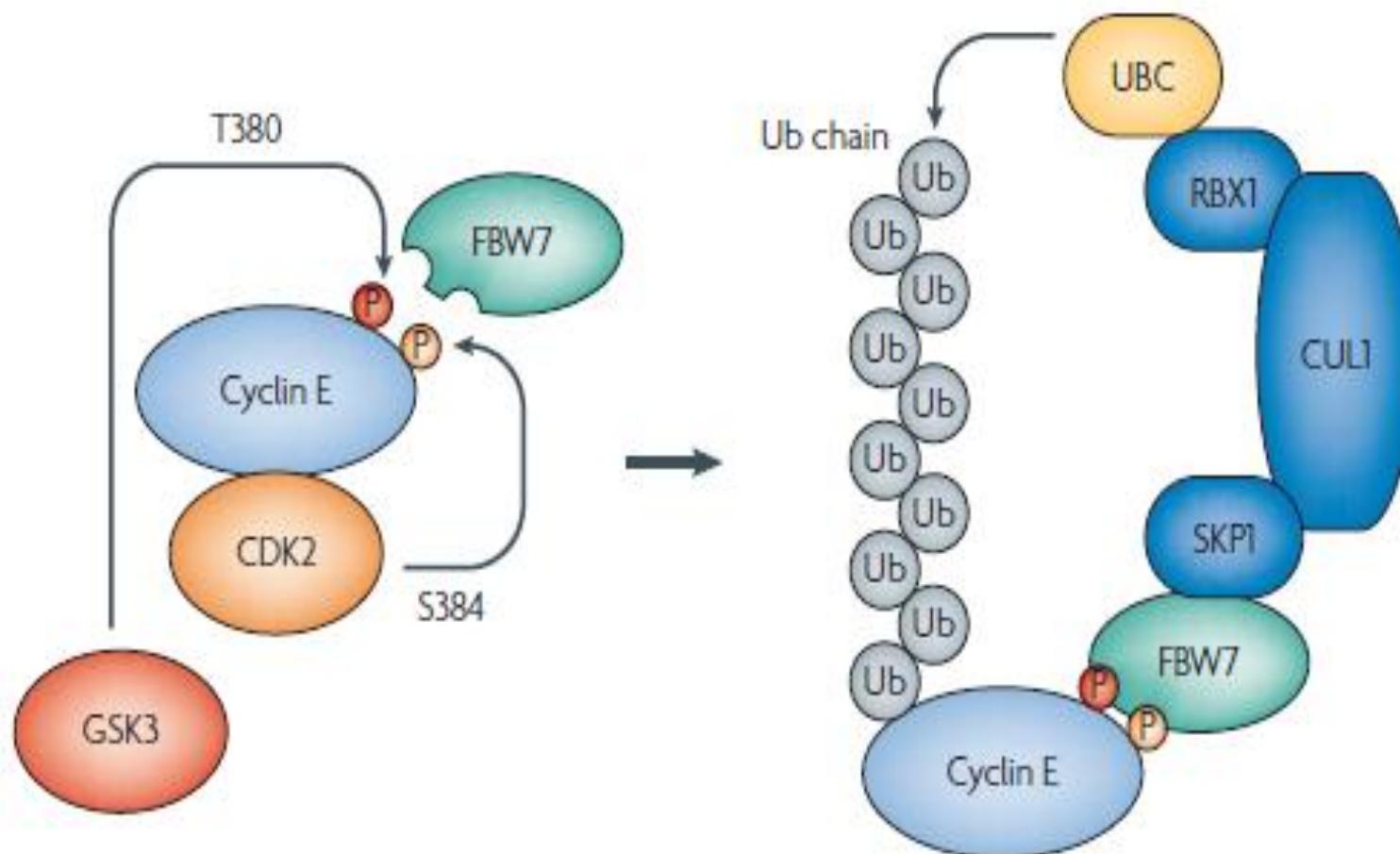
# Background



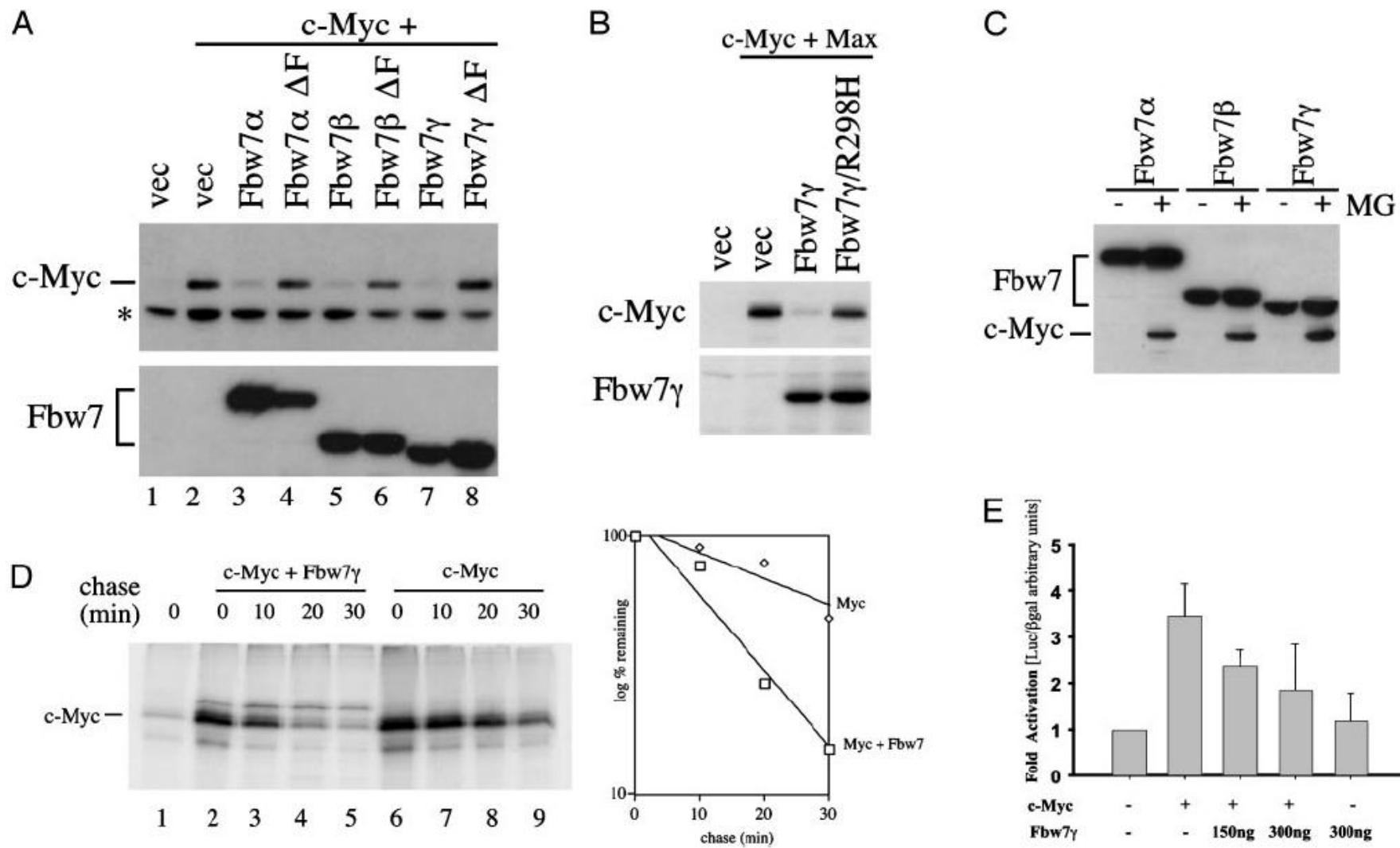
# Background



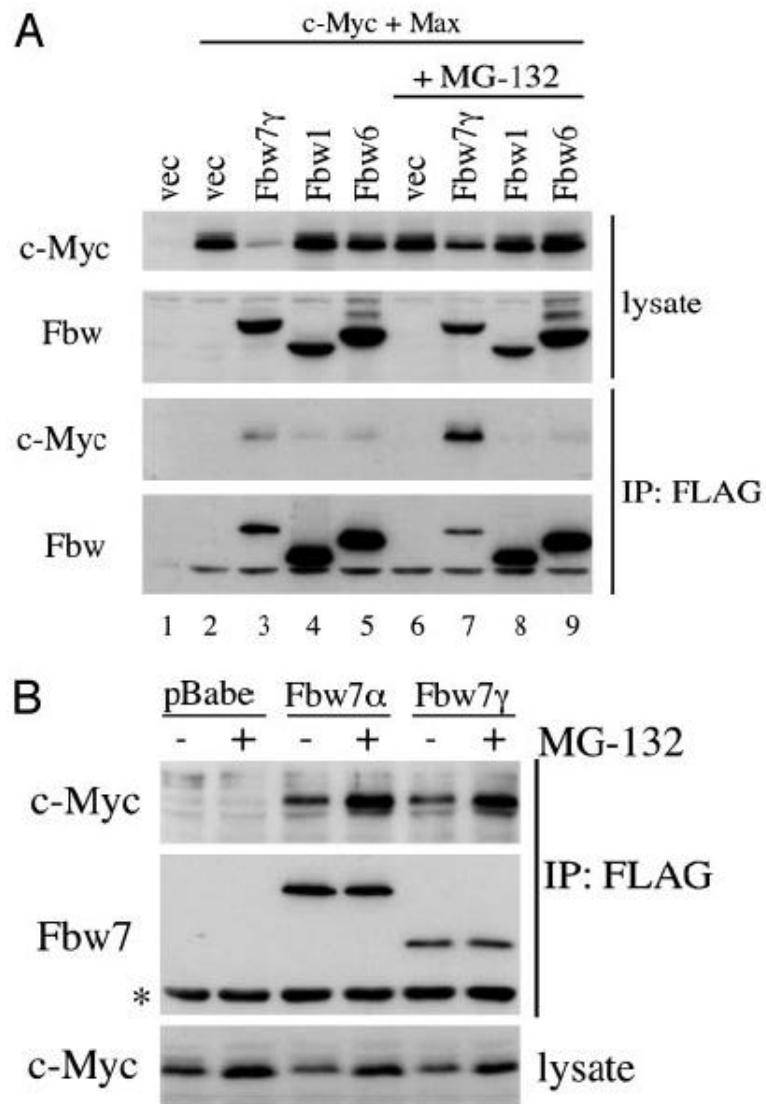
# Background



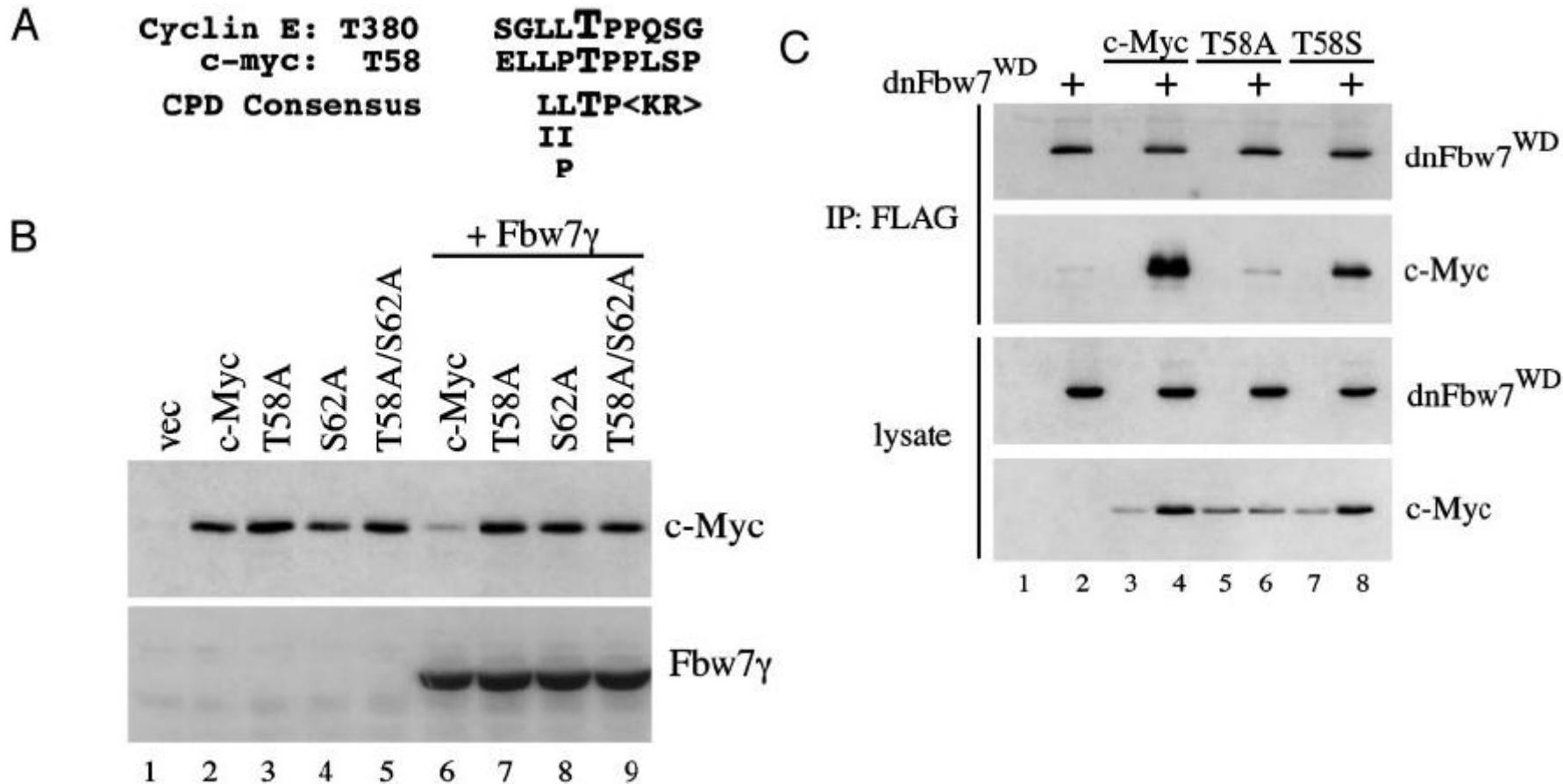
# Fbw7 Negatively Regulates c-Myc Turnover and Function



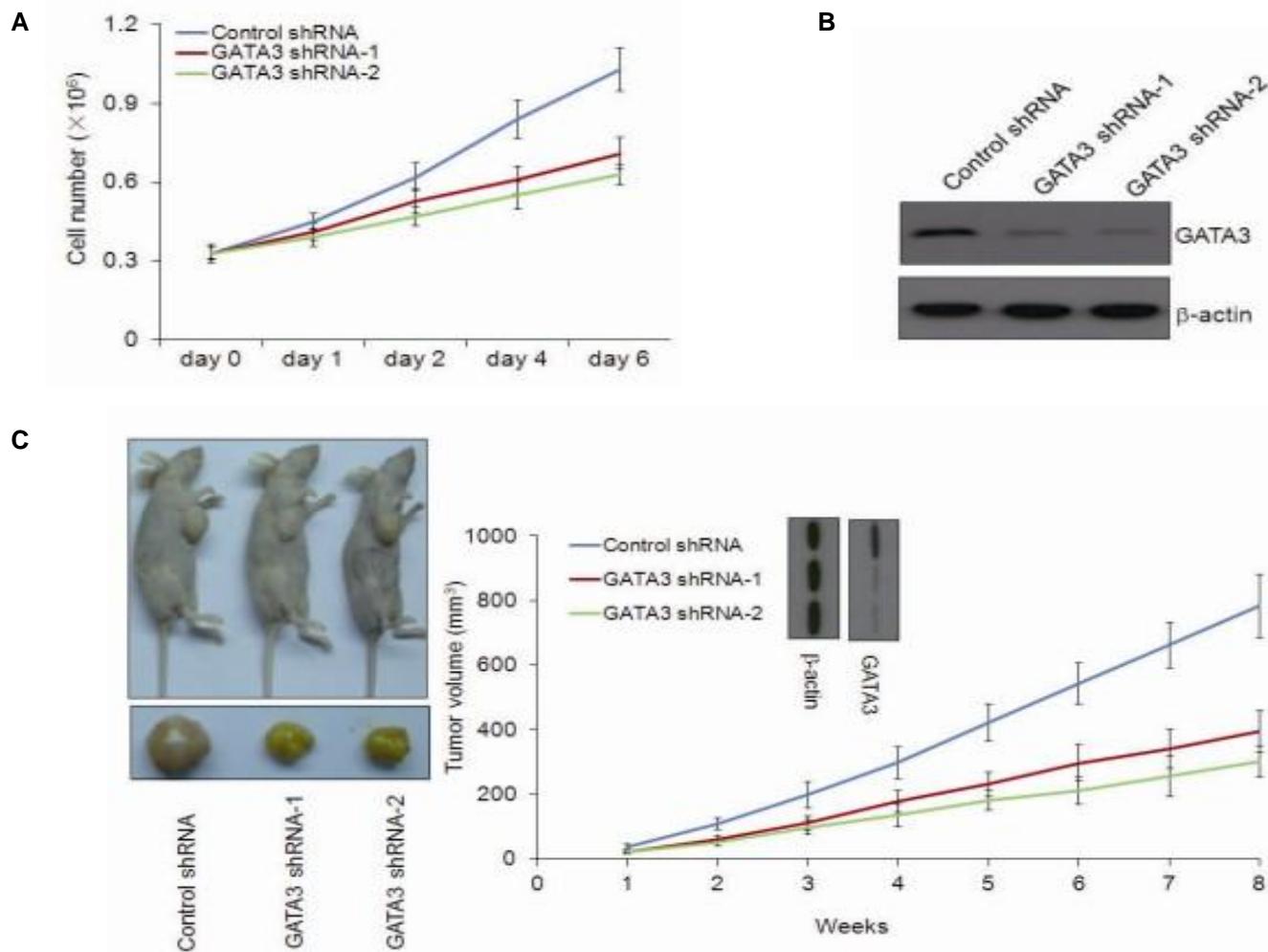
# The physical interaction of Fbw7 and c-Myc is sensitive to proteasomal function



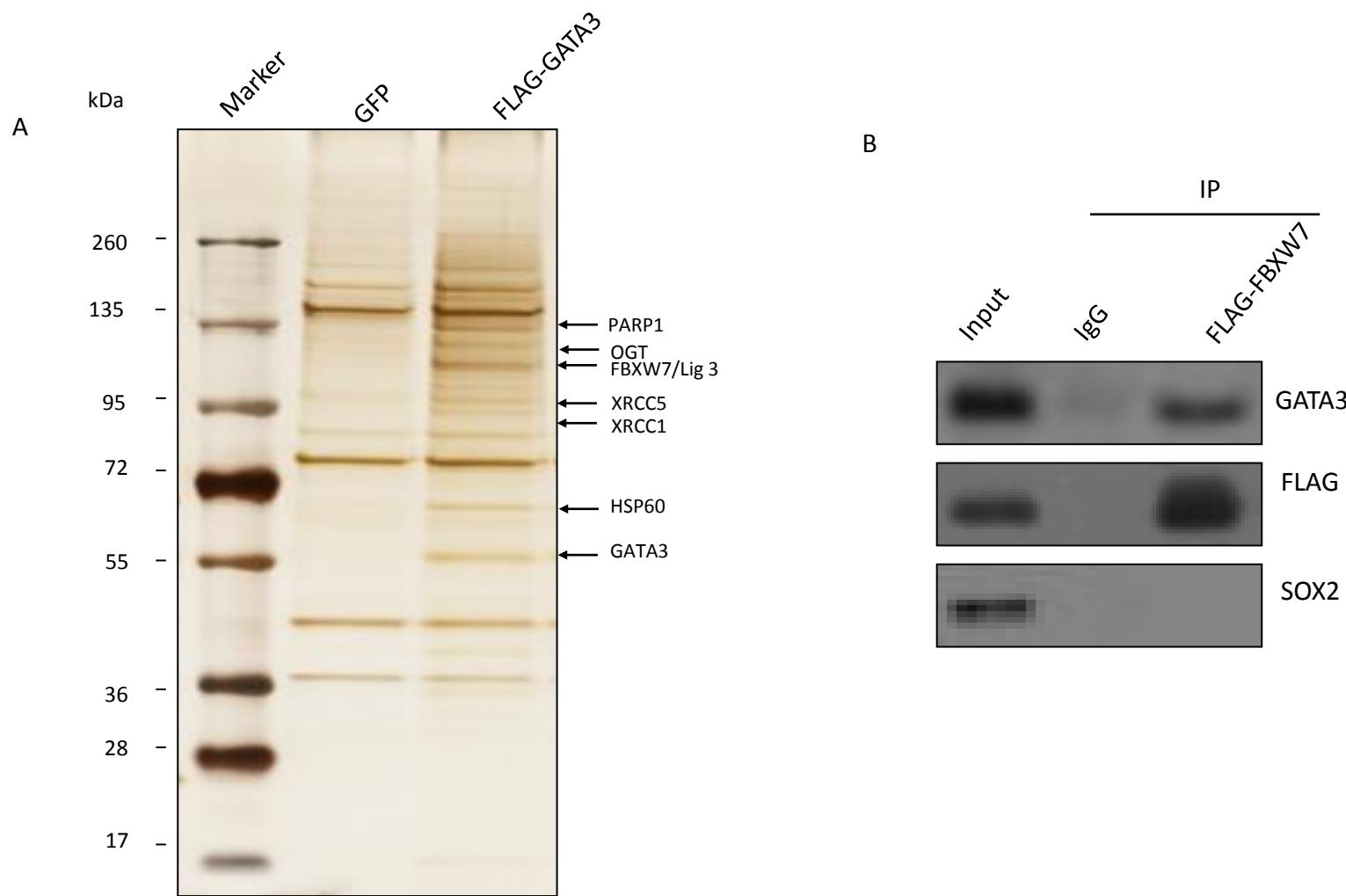
# The regulation of c-Myc by Fbw7 requires both GSK-3 activity and c-Myc T58



# Background

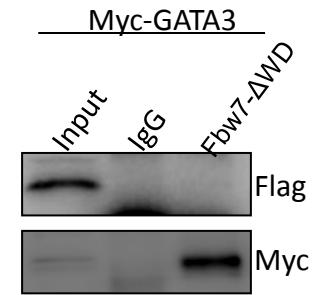
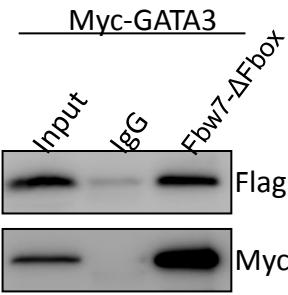
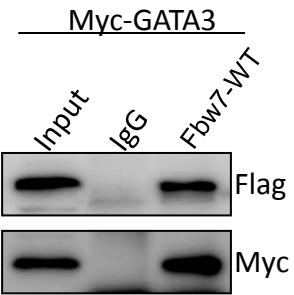
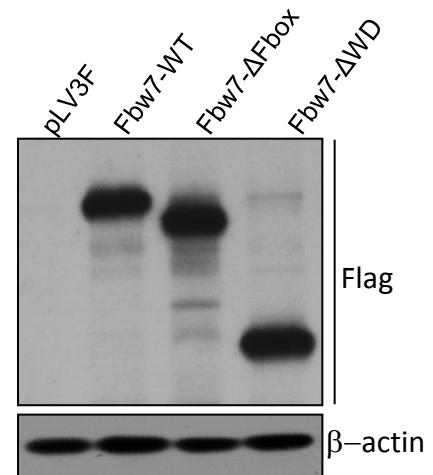


# GATA3 interactome

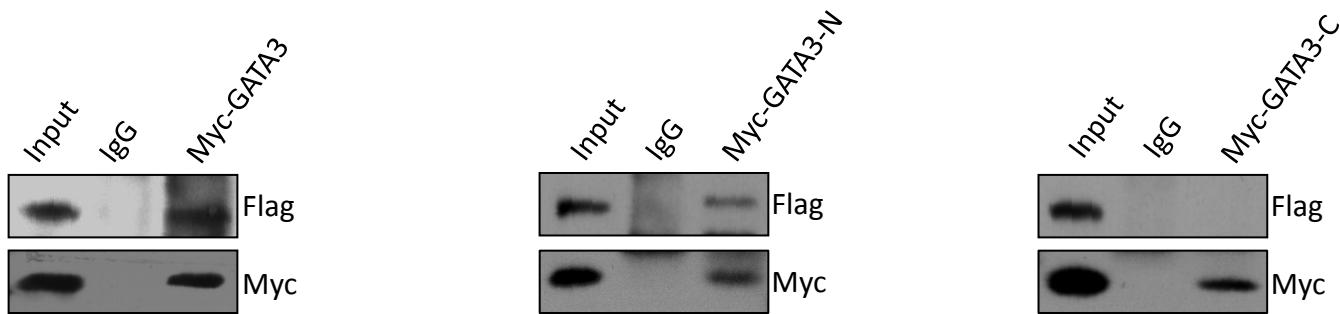
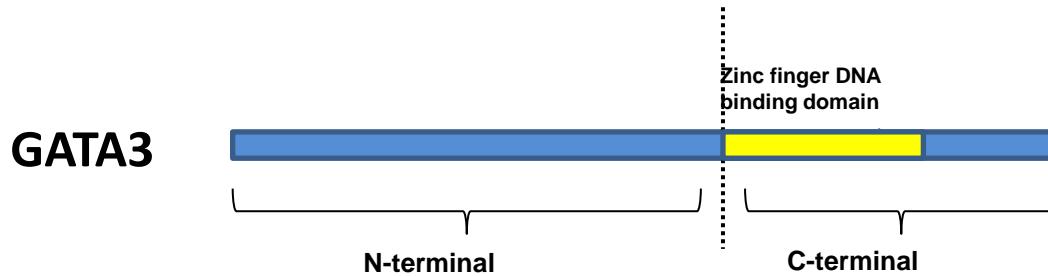


# FBXW7 physically associates with GATA3

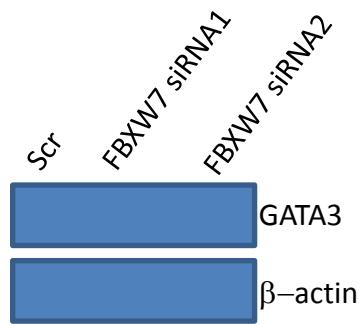
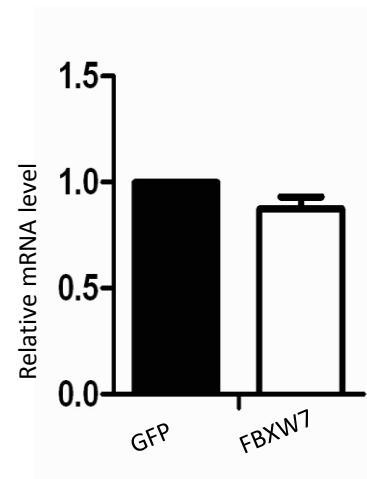
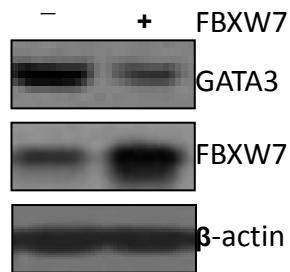
**FBXW7**



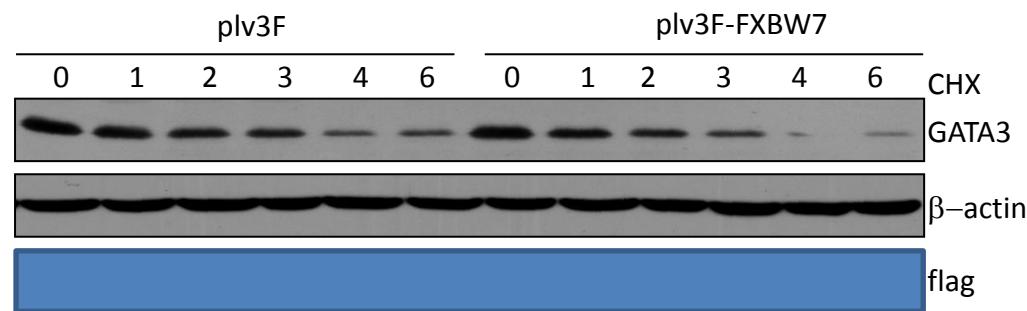
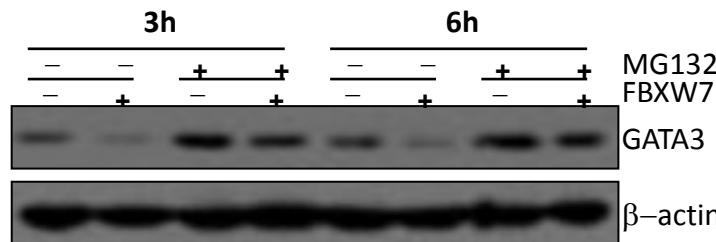
# FBXW7 physically associates with GATA3



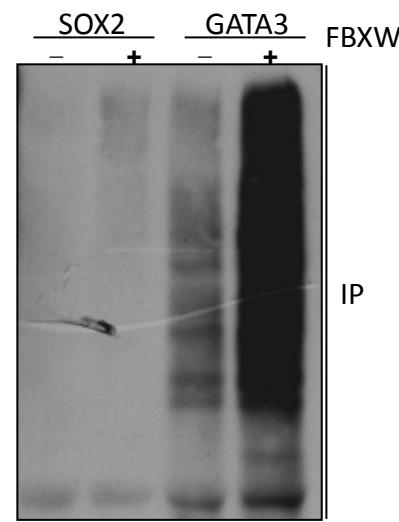
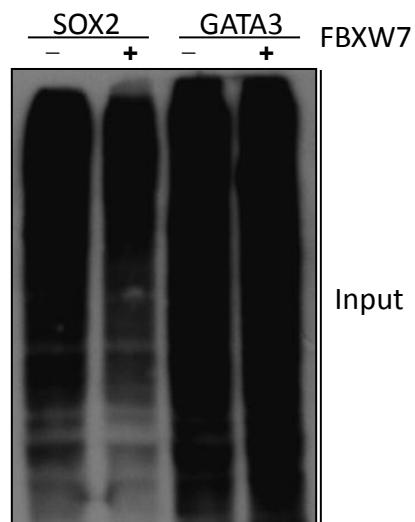
# FBXW7 regulates GATA3 stability



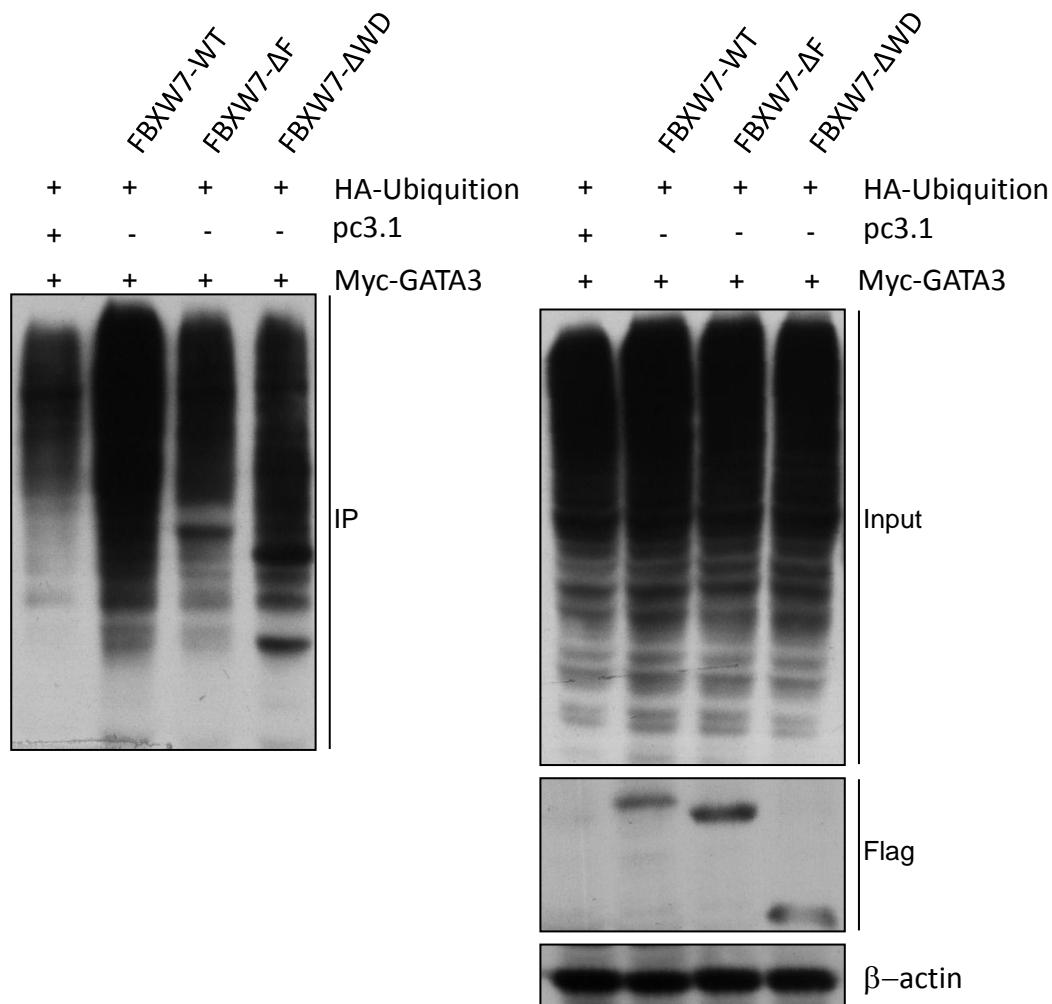
# FBXW7 regulates GATA3 stability



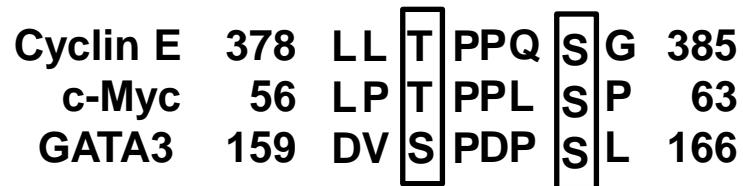
# FBXW7 promotes GATA3 ubiquitination



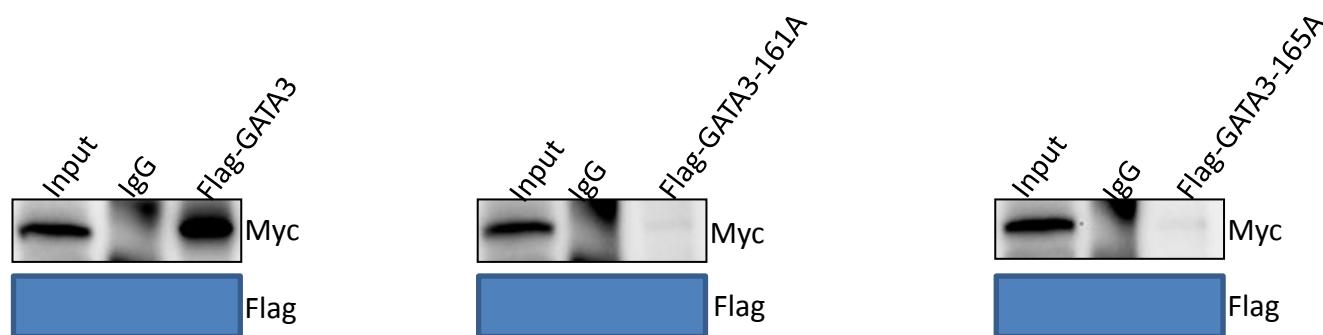
# FBXW7 promotes GATA3 ubiquitination



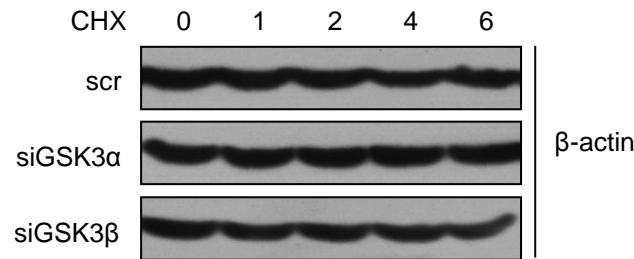
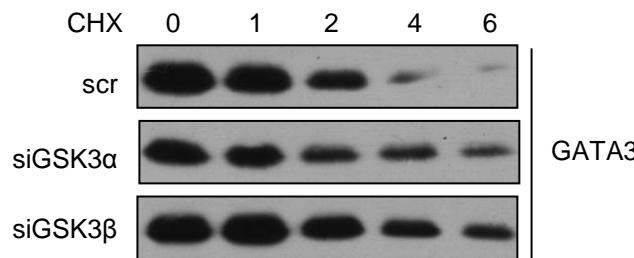
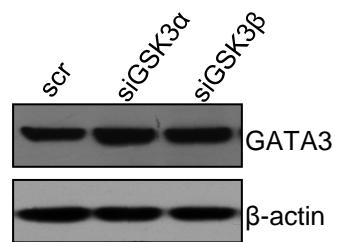
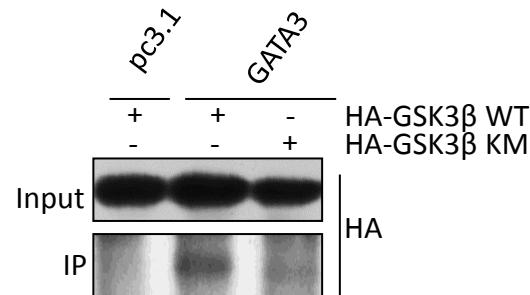
# FBXW7-catalyzed GATA3 turnover requires GATA3 serine-161/165 and GSK3 $\beta$



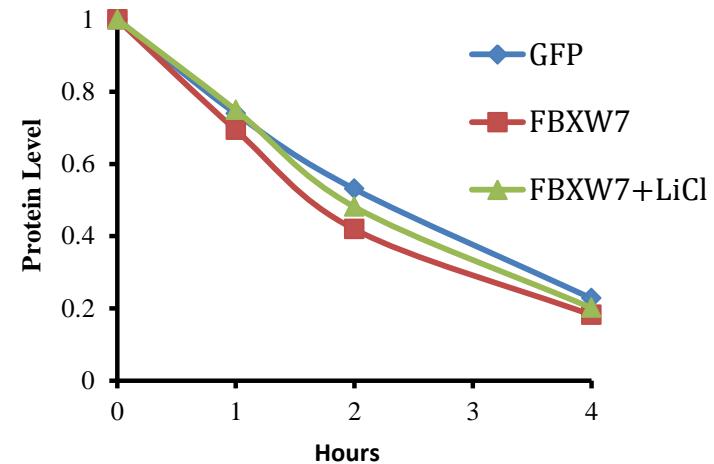
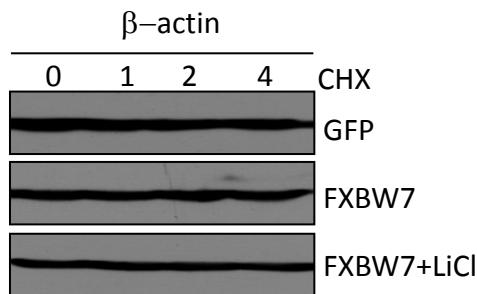
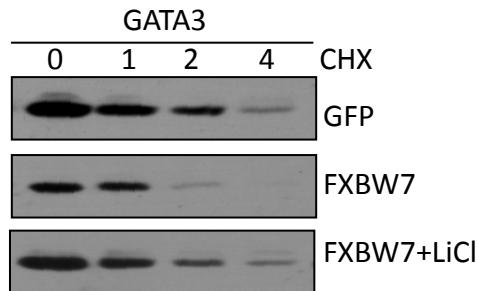
FBXW7 phosphodegron



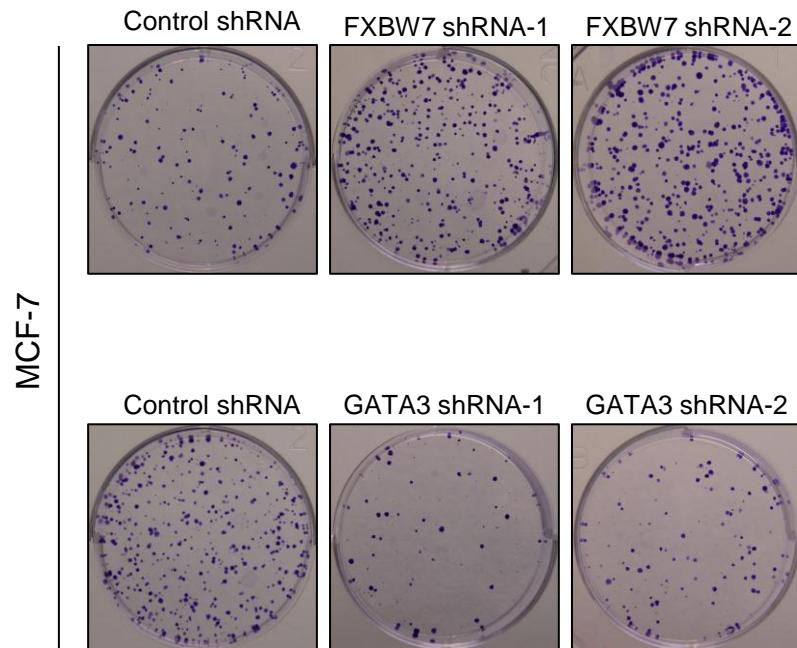
# FBXW7-catalyzed GATA3 turnover requires GATA3 serine-161/165 and GSK3 $\beta$



# FBXW7-catalyzed GATA3 turnover requires GATA3 serine-161/165 and GSK3 $\beta$



# phenotype



Thanks for your attention!