

Abstract:

Notch pathway plays a critical role during development and life of Metazoan organisms. CBF1 is a component of the Notch pathway that mediates the regulation of target genes. The discovery of CBF1-like proteins in yeast raised the question of their function in unicellular organisms - before the origin of canonical Notch pathway. CBF1-homologs in yeast are conserved in parts that are important for DNA binding and bind to CBF1-binding elements in vitro. CBF1 and related transcription factors in Metazoa (CSL) interact with many proteins in Notch-dependent as well as Notch-independent complexes. The Notch receptor has likewise some CSL-independent functions. This assay reports about interacting partners of CSL in Metazoa along with homologous proteins in yeast with the aim to highlight potential interactions of CBF1-homologs in evolutionary ancestral context.