FOXO1, FOXO3 bind CITED2 gene promoter

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Introduction

Reactome is open-source, open access, manually curated and peer-reviewed pathway database. Pathway annotations are authored by expert biologists, in collaboration with Reactome editorial staff and cross-referenced to many bioinformatics databases. A system of evidence tracking ensures that all assertions are backed up by the primary literature. Reactome is used by clinicians, geneticists, genomics researchers, and molecular biologists to interpret the results of high-throughput experimental studies, by bioinformaticians seeking to develop novel algorithms for mining knowledge from genomic studies, and by systems biologists building predictive models of normal and disease variant pathways.

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Literature references


Reactome database release: 83

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Both FOXO1 (Sengupta et al. 2011) and FOXO3 (Bakker, van Dijk et al. 2007, Bakker, Harris and Mak 2007) can bind forkhead box elements in the promoter region of the CITED2 gene. The involvement of specific FOXO family members (Sengupta et al. 2011), specific forkhead box elements (Bakker, Harris and Mak 2007) and required co-factors, such as STAT5 (Bakker, van Dijk et al. 2007), depends on the cell type and the trigger of FOXO activity.