

FOXO6 binds PLXNA4 gene

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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

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Reactome database release: 75

This document contains 1 reaction ([see Table of Contents](#))

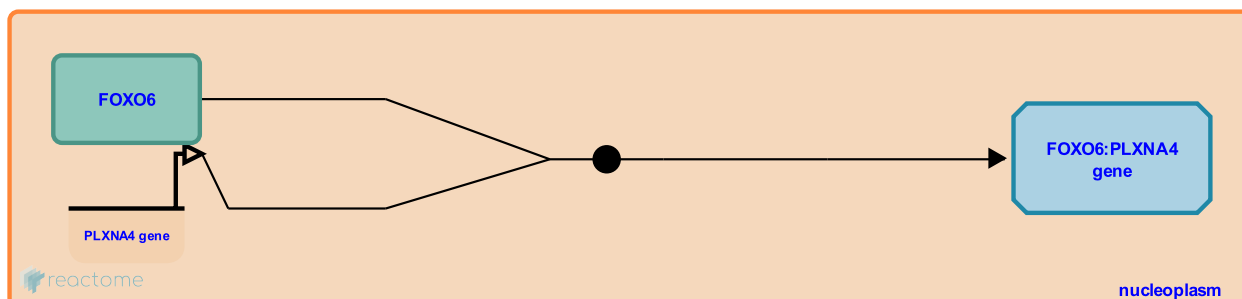
FOXO6 binds PLXNA4 gene ↗

Stable identifier: R-HSA-9615015

Type: binding

Compartments: nucleoplasm

Inferred from: [Foxo6 binds Plxna4 gene \(Mus musculus\)](#)



Based on studies in mice, FOXO6 binds FOXO response elements in the PLXNA4 gene locus, encoding the semaphorin SEMA3A co-receptor PLXNA4. FOXO response elements are found in the promoter and the first intron of the mouse *Plxna4* gene (Paap et al. 2016). The first intron of the human PLXNA4 gene contains several predicted FOXO response elements.

Editions

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