

SOX10, EGR2 and NAB proteins bind the GJB1 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

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Reactome database release: 88

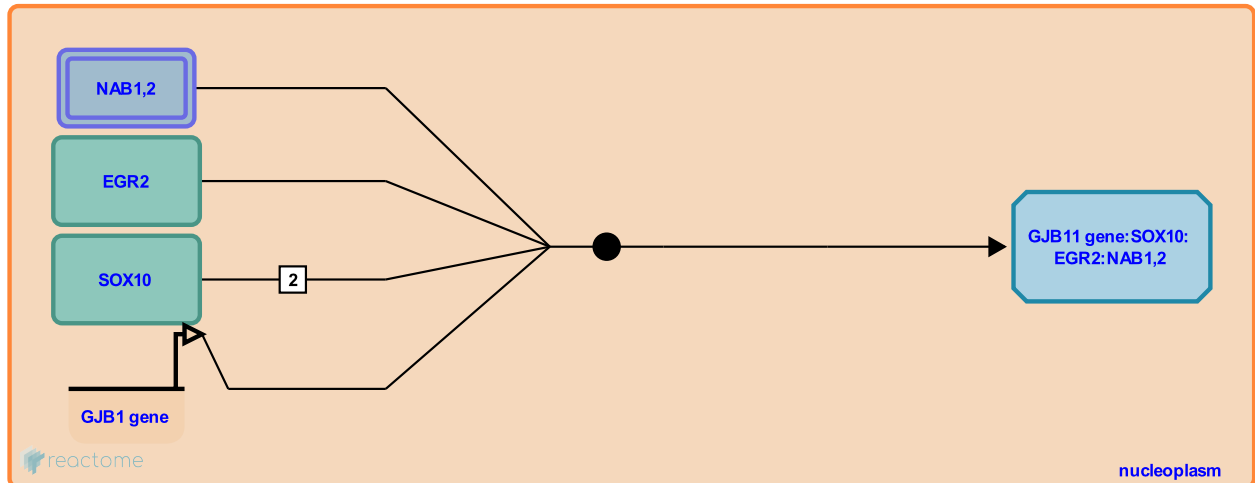
This document contains 1 reaction ([see Table of Contents](#))

SOX10, EGR2 and NAB proteins bind the GJB1 promoter [↗](#)

Stable identifier: R-HSA-9618725

Type: binding

Compartments: nucleoplasm



GJB1 expression is regulated by two alternate promoters in a tissue specific manner. In Schwann cells, expression is driven by the P2 promoter and depends on binding by SOX10, EGR2 and NAB1 or NAB2 (Neuhaus et al, 1996; Bondurand et al, 2001; Le et al, 2005; Lopez-Arido et al, 2015).

Literature references

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Editions

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