

EGR2 and SREBF2 dimer bind CYP51A1

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: 88

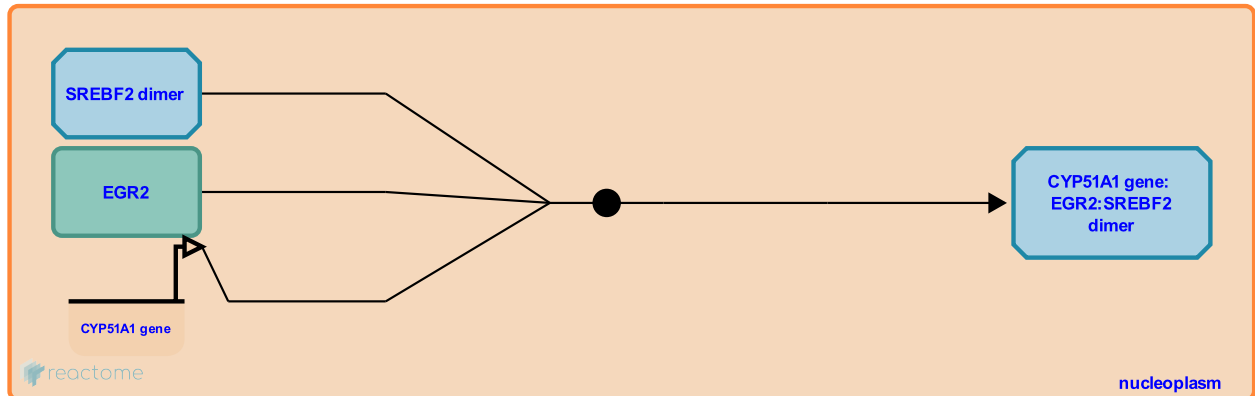
This document contains 1 reaction ([see Table of Contents](#))

EGR2 and SREBF2 dimer bind CYP51A1 gene ↗

Stable identifier: R-HSA-9621406

Type: binding

Compartments: nucleoplasm



CYP51A1 encodes lanosterol 14 alpha-demethylase, a protein involved in steroid biosynthetic pathways (Stromstedt et al, 1996; Strushkevich et al, 2010). Consistent with its expression during Schwann cell myelination, expression is synergistically activated by EGR2 and SREBF2 acting through cognate sites in the promoter (Nagarajan et al, 2001; Halder et al, 2002; LeBlanc et al, 2005; Jang et al, 2010).

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Editions

2019-08-16	Authored	Rothfels, K.
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