

EGR2 (KROX20) activates HOXB2 expres- sion

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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: 70

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

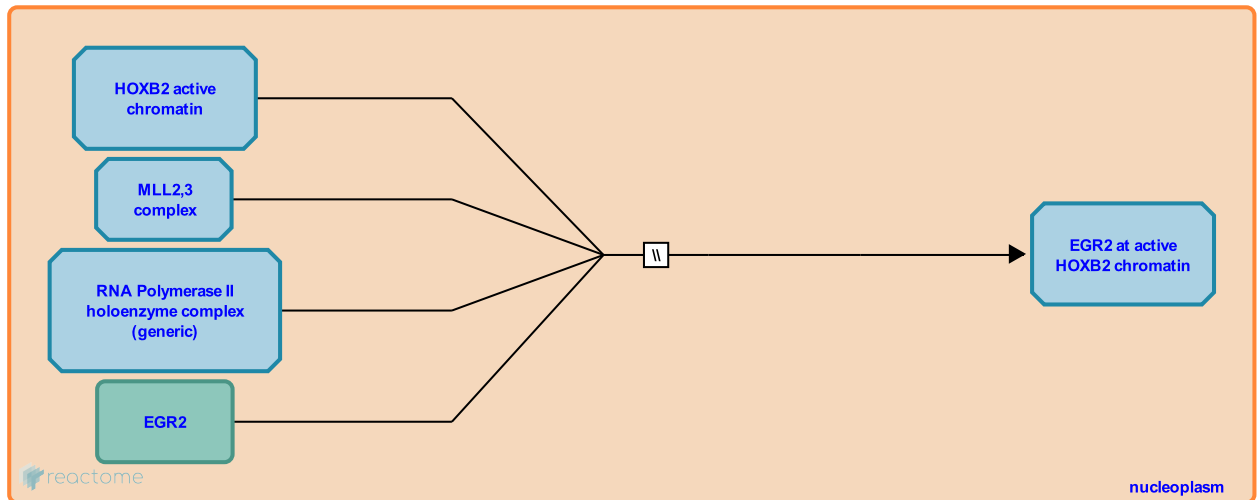
EGR2 (KROX20) activates HOXB2 expression ↗

Stable identifier: R-HSA-5617492

Type: omitted

Compartments: nucleoplasm

Inferred from: [Egr2 \(Krox20\) activates Hoxb2 expression \(Mus musculus\)](#)



As inferred from mouse embryos, EGR2 (KROX20) binds three sites in the 5' region of the HOXB2 gene and activates expression in rhombomere 3 (r3) and r5. HOXB1 activates HOXB2 in r4 and expression is also observed in r6 and r7.

Editions

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