

p-BMAL1:p-CLOCK, NPAS2 binds DBP 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](#))

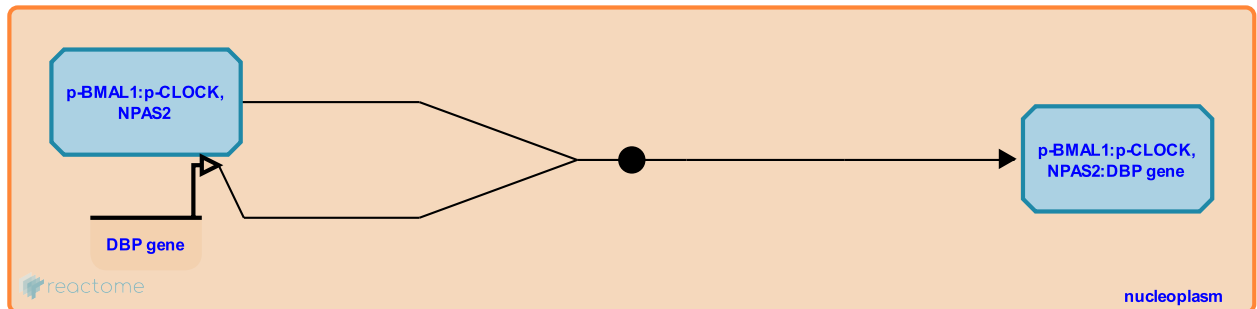
p-BMAL1:p-CLOCK, NPAS2 binds DBP gene ↗

Stable identifier: R-HSA-5663132

Type: binding

Compartments: nucleoplasm

Inferred from: p-Bmal1:p-Clock,Npas2 binds Dbp gene (Mus musculus)



As inferred from mouse, BMAL1:CLOCK (ARNTL:CLOCK) heterodimers bind E-boxes in the promoter of the DBP gene and activate transcription of DBP.

Editions

2009-05-27	Reviewed	D'Eustachio, P.
2010-06-23	Reviewed	Hirota, T., Kay, SA., Delaunay, F., Albrecht, U.
2015-01-15	Authored, Edited	May, B.