p-BMAL1:p-CLOCK,NPAS2 binds SER-PINE1 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**


Reactome database release: 78

This document contains 1 reaction (see Table of Contents)

https://reactome.org
The phosphorylated BMAL1:CLOCK (ARNTL) heterodimer binds an E-box in the promoter of the PAI-1 gene and activate transcription of PAI-1. NPAS2 is predicted to act redundantly with CLOCK.

**Literature references**


**Editions**

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