

RUNX1:CBFB binds the PF4 gene promoter

Chuang, L.S., Ito, Y., Orlic-Milacic, M.

European Bioinformatics Institute, New York University Langone Medical Center, Ontario Institute for Cancer Research, Oregon Health and Science University.

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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: 74

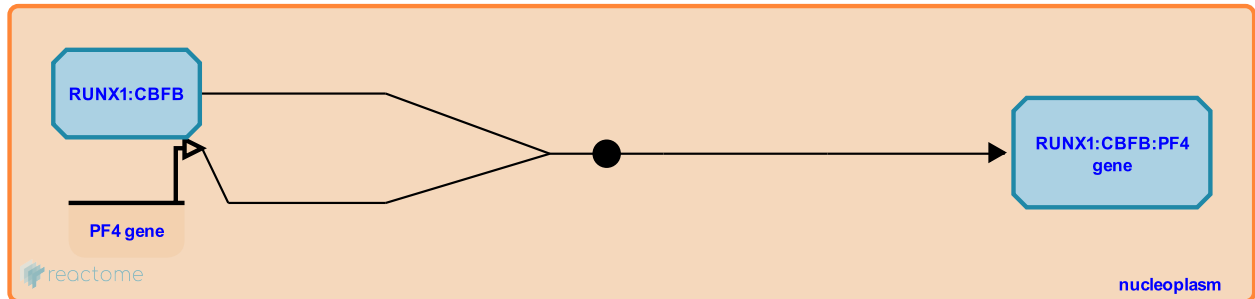
This document contains 1 reaction ([see Table of Contents](#))

RUNX1:CBFB binds the PF4 gene promoter ↗

Stable identifier: R-HSA-8938176

Type: binding

Compartments: nucleoplasm



The RUNX1:CBFB complex binds to two RUNX1 response elements in the promoter of the PF4 gene, encoding Platelet factor 4 (Aneja et al. 2011).

Literature references

Aneja, K., Jalagadugula, G., Mao, G., Singh, A., Rao, AK. (2011). Mechanism of platelet factor 4 (PF4) deficiency with RUNX1 haploinsufficiency: RUNX1 is a transcriptional regulator of PF4. *J. Thromb. Haemost.*, 9, 383-91. ↗

Editions

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