

# **RUNX1, SPI1 (PU.1), GATA2, TAL1 (SCL), FLI1, and MYB bind the CEBPA promoter**

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04/05/2024

## 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.

The development of Reactome is supported by grants from the US National Institutes of Health (P41 HG003751), University of Toronto (CFREF Medicine by Design), European Union (EU STRP, EMI-CD), and the European Molecular Biology Laboratory (EBI Industry program).

## Literature references

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- Fabregat, A., Jupe, S., Matthews, L., Sidiropoulos, K., Gillespie, M., Garapati, P. et al. (2018). The Reactome Pathway Knowledgebase. *Nucleic Acids Res*, 46, D649-D655. [↗](#)
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Reactome database release: 88

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

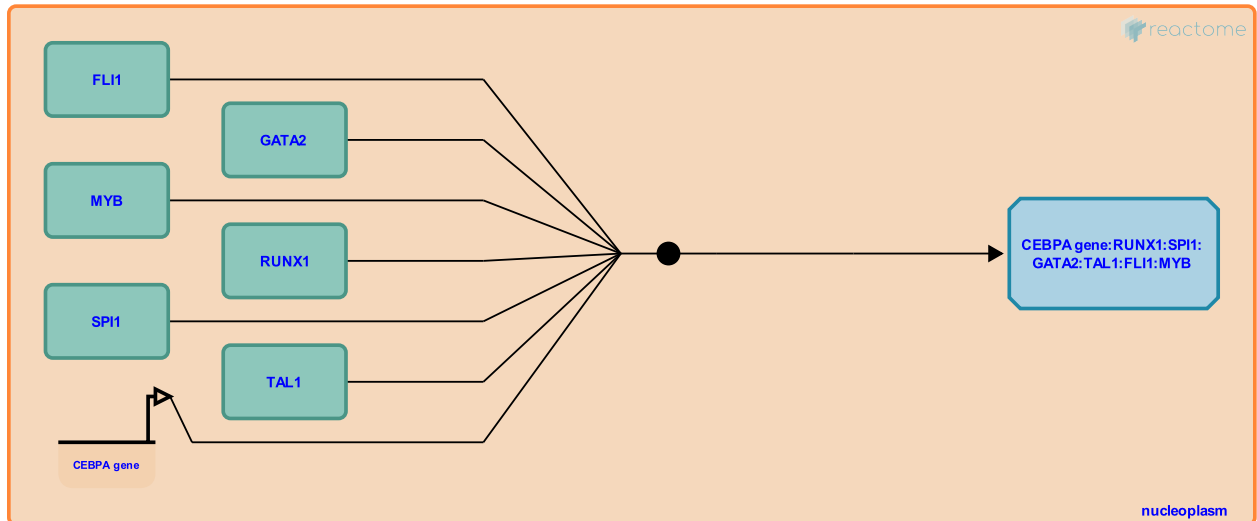
## RUNX1, SPI1 (PU.1), GATA2, TAL1 (SCL), FLI1, and MYB bind the CEBPA promoter ↗

**Stable identifier:** R-HSA-9616214

**Type:** binding

**Compartments:** nucleoplasm

**Inferred from:** Runx1, Spi1, Gata2, Tal1, Fli1, Myb, and Cebpa bind the promoter of the Cebpa gene (Mus musculus)



The evolutionarily conserved upstream enhancer of the CEBPA gene binds RUNX1, SPI1 (PU.1), GATA2, TAL1 (SCL), FLI1, and MYB in hemopoietic progenitor cells and myeloid progenitor cells (inferred from mouse). Unlike the promoter of the mouse Cebpa gene, the human CEBPA promoter does not bind CEBPA and autoregulation of CEBPA occurs indirectly through CEBPA-stimulated binding of USF to the promoter of the CEBPA gene (Timchenko et al. 1995). As inferred from mouse homologs, RUNX1, GATA2, SCL, SPI1, and FLI1 bind concomitantly.

### Literature references

Taylor, LR., Sawadogo, M., Wilde, M., Timchenko, N., Darlington, GJ., Abdelsayed, S. et al. (1995). Autoregulation of the human C/EBP alpha gene by stimulation of upstream stimulatory factor binding. *Mol. Cell. Biol.*, 15, 1192-202. ↗

### Editions

2018-08-10	Authored, Edited	May, B.
2019-03-10	Reviewed	Skokowa, J.