

# TFAP2A homodimer binds the VEGFA gene promoter

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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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- Sidiropoulos, K., Viteri, G., Sevilla, C., Jupe, S., Webber, M., Orlic-Milacic, M. et al. (2017). Reactome enhanced pathway visualization. *Bioinformatics*, 33, 3461-3467. [↗](#)
- 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

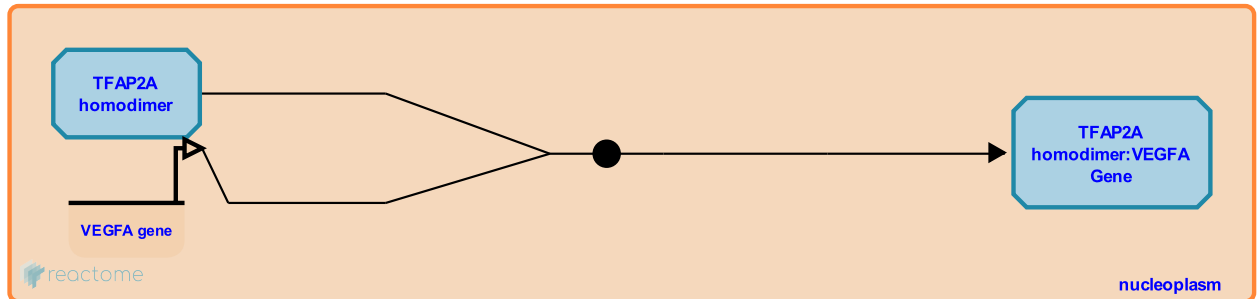
This document contains 1 reaction ([see Table of Contents](#))

## TFAP2A homodimer binds the VEGFA gene promoter [↗](#)

**Stable identifier:** R-HSA-8864737

**Type:** binding

**Compartments:** nucleoplasm



TFAP2A (AP-2 alpha) homodimer can associate with AP-2 response elements in the VEGFA gene promoter (Ruiz et al. 2004).

### Literature references

Bar-Eli, M., Song, R., Ruiz, M., Pettaway, C., Stoeltzing, O., Ellis, L. (2004). Activator protein 2alpha inhibits tumorigenicity and represses vascular endothelial growth factor transcription in prostate cancer cells. *Cancer Res.*, 64, 631-8. [↗](#)

### Editions

2016-03-14	Authored, Edited	Orlic-Milacic, M.
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