

# NICD3 binds to TACC3

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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: 82

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

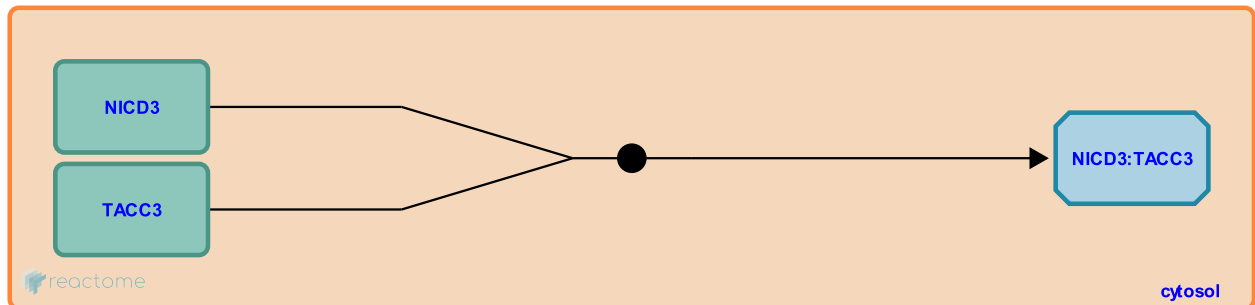
## NICD3 binds to TACC3 ↗

**Stable identifier:** R-HSA-9017855

**Type:** binding

**Compartments:** cytosol

**Inferred from:** [NICD3 binds to Tacc3 \(Mus musculus\)](#)



Based on studies in mice, the intracellular domain of NOTCH3, NICD3, binds to transforming acidic coiled-coil protein-3 (TACC3). The interaction involves the ankyrin repeats of NOTCH3. The two proteins co-localize in the cytosol and possibly in the nucleus. TACC3 is implicated as a negative regulator of NOTCH signaling and may compete with NOTCH binding to RPB1 (Bargo et al. 2010).

### Editions

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