

# Formation of P-TEFb complex

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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: 70

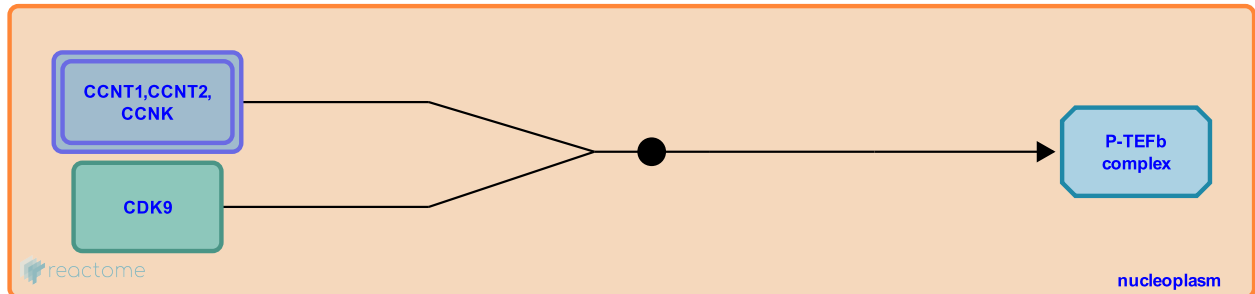
This document contains 1 reaction ([see Table of Contents](#))

## Formation of P-TEFb complex [↗](#)

**Stable identifier:** R-HSA-112430

**Type:** binding

**Compartments:** nucleoplasm



At the beginning of this reaction, 1 molecule of 'Cdk 9 protein', 1 molecule of 'Cyclin T1', and 1 molecule of 'Cyclin T2' are present. At the end of this reaction, 1 molecule of 'P-TEFb complex' is present.

This reaction takes place in the 'nucleus'.

### Literature references

Lin, X., Taube, R., Fujinaga, K., Peterlin, BM. (2002). P-TEFb containing cyclin K and Cdk9 can activate transcription via RNA. *J. Biol. Chem.*, 277, 16873-8. [↗](#)