

TRIM25 binds monoUb:164-PCNA

Borowiec, JA., 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: 76

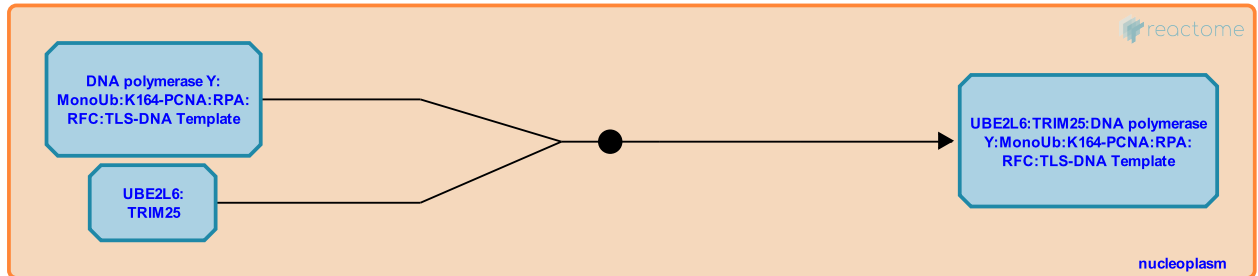
This document contains 1 reaction ([see Table of Contents](#))

TRIM25 binds monoUb:164-PCNA [↗](#)

Stable identifier: R-HSA-5653756

Type: binding

Compartments: nucleoplasm



PCNA monoubiquitinated on lysine residue K164 (MonoUb:K164-PCNA) is bound by ISG15 E3 ligase TRIM25 (EFP) in complex with ISG15 E2 conjugating enzyme UBE2L6 (UBCH8) (Park et al. 2014).

Literature references

Park, JM., Yang, SW., Yu, KR., Ka, SH., Lee, SW., Seol, JH. et al. (2014). Modification of PCNA by ISG15 plays a crucial role in termination of error-prone translesion DNA synthesis. *Mol. Cell*, 54, 626-38. [↗](#)

Editions

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