

# TP53 binds the TIGAR gene

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https://reactome.org Page 1

## 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.
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Reactome database release: 88

This document contains 1 reaction (see Table of Contents)

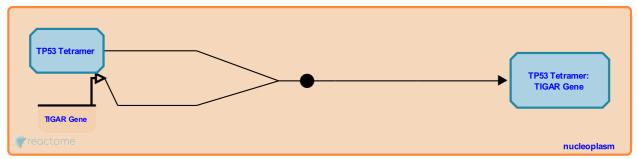
https://reactome.org Page 2

## TP53 binds the TIGAR gene **↗**

Stable identifier: R-HSA-5628899

Type: binding

Compartments: nucleoplasm



TIGAR gene possesses two TP53 (p53) binding sites, one upstream of the first exon and another within the first intron. TP53 can bind both sites, with a higher affinity for the intronic site (Bensaad et al. 2006).

## Literature references

Vidal, MN., Bensaad, K., Selak, MA., Tsuruta, A., Nakano, K., Gottlieb, E. et al. (2006). TIGAR, a p53-inducible regulator of glycolysis and apoptosis. *Cell*, 126, 107-20.

## **Editions**

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2014-12-30	Reviewed	Hwang, PM., Kang, JG., Wang, PY.
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