

# **TP53 binds the GLS2 promoter**

Hwang, PM., Inga, A., Kang, JG., Orlic-Milacic, M., Wang, PY., Zaccara, S.

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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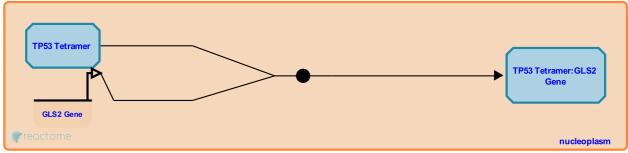
This document contains 1 reaction (see Table of Contents)

### TP53 binds the GLS2 promoter *¬*

Stable identifier: R-HSA-5632914

Type: binding

#### Compartments: nucleoplasm



The mitochondrial glutaminase GLS2 gene possesses two putative p53-binding sites in its promoter and one putative p53 binding site in the first intron. TP53 was demonstrated to bind to p53-response elements in the promoter but not intron 1 of GLS2 (Hu et al. 2010, Suzuki et al. 2010).

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#### **Editions**

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