

# **Transcriptional Regulation by TP53**



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This is just an excerpt of a full-length report for this pathway. To access the complete report, please download it at the <u>Reactome Textbook</u>.

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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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- Fabregat, A., Jupe, S., Matthews, L., Sidiropoulos, K., Gillespie, M., Garapati, P. et al. (2018). The Reactome Pathway Knowledgebase. *Nucleic Acids Res, 46*, D649-D655. ↗
- Fabregat, A., Korninger, F., Viteri, G., Sidiropoulos, K., Marin-Garcia, P., Ping, P. et al. (2018). Reactome graph database: Efficient access to complex pathway data. *PLoS computational biology*, *14*, e1005968. *オ*

This document contains 6 pathways (see Table of Contents)

## Transcriptional Regulation by TP53 7

#### Stable identifier: R-RNO-3700989

Inferred from: Transcriptional Regulation by TP53 (Homo sapiens)



This event has been computationally inferred from an event that has been demonstrated in another species.

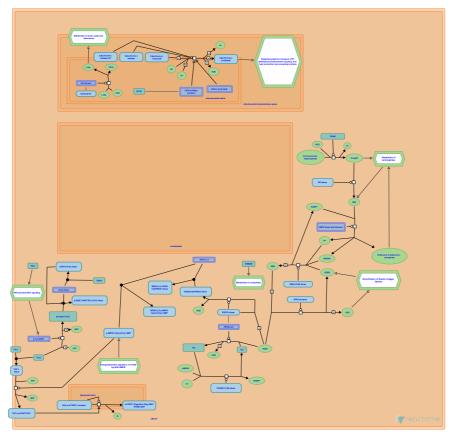
The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

### TP53 Regulates Metabolic Genes 7

Location: Transcriptional Regulation by TP53

Stable identifier: R-RNO-5628897

Inferred from: TP53 Regulates Metabolic Genes (Homo sapiens)



This event has been computationally inferred from an event that has been demonstrated in another species.

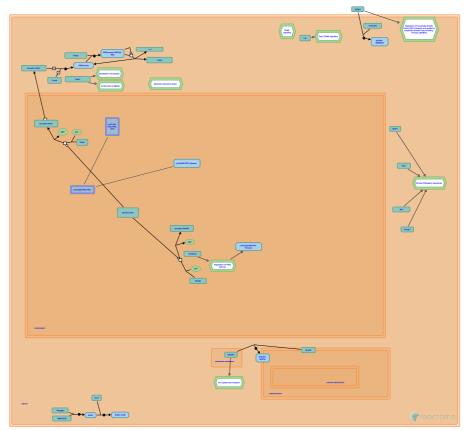
The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

## TP53 Regulates Transcription of Cell Death Genes 7

Location: Transcriptional Regulation by TP53

Stable identifier: R-RNO-5633008

Inferred from: TP53 Regulates Transcription of Cell Death Genes (Homo sapiens)



This event has been computationally inferred from an event that has been demonstrated in another species.

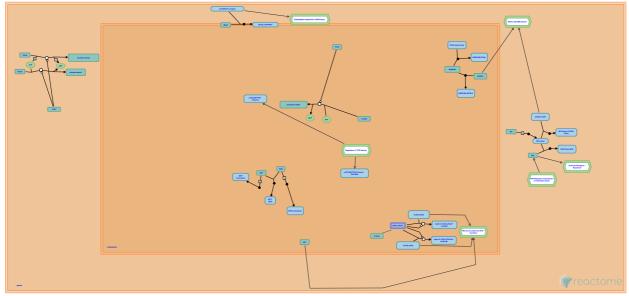
The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

## TP53 Regulates Transcription of Cell Cycle Genes 7

Location: Transcriptional Regulation by TP53

#### Stable identifier: R-RNO-6791312

Inferred from: TP53 Regulates Transcription of Cell Cycle Genes (Homo sapiens)



This event has been computationally inferred from an event that has been demonstrated in another species.

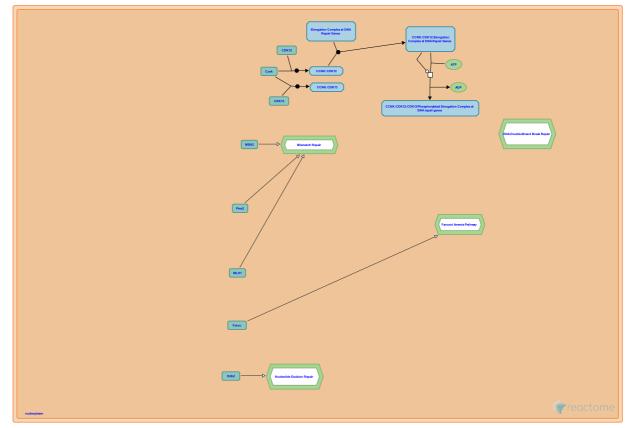
The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

## **TP53 Regulates Transcription of DNA Repair Genes ↗**

Location: Transcriptional Regulation by TP53

#### Stable identifier: R-RNO-6796648

Inferred from: TP53 Regulates Transcription of DNA Repair Genes (Homo sapiens)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

## **Regulation of TP53 Activity ↗**

Location: Transcriptional Regulation by TP53

#### Stable identifier: R-RNO-5633007

#### Inferred from: Regulation of TP53 Activity (Homo sapiens)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

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