

# **RUNX3 regulates p14-ARF**

reactome

European Bioinformatics Institute, New York University Langone Medical Center, Ontario Institute for Cancer Research, Oregon Health and Science University.

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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.

The development of Reactome is supported by grants from the US National Institutes of Health (P41 HG003751), University of Toronto (CFREF Medicine by Design), European Union (EU STRP, EMI-CD), and the European Molecular Biology Laboratory (EBI Industry program).

#### Literature references

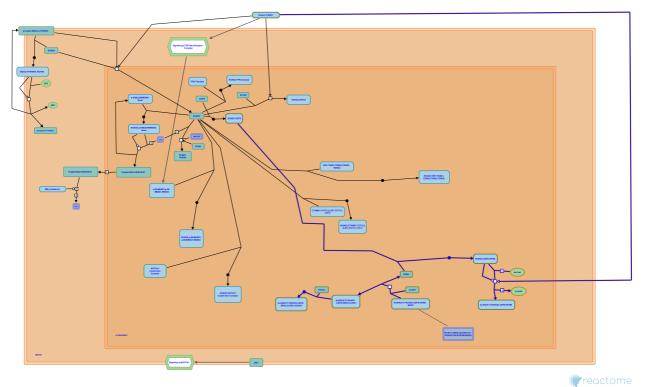
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This document contains 1 pathway and 4 reactions (see Table of Contents)

#### RUNX3 regulates p14-ARF 7

#### Stable identifier: R-SSC-8951936

#### Inferred from: RUNX3 regulates p14-ARF (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.

More details and caveats of the event inference in Reactome. For details on PANTHER see also: http://www.pantherdb.org/about.jsp

#### RUNX3 binds EP300 7

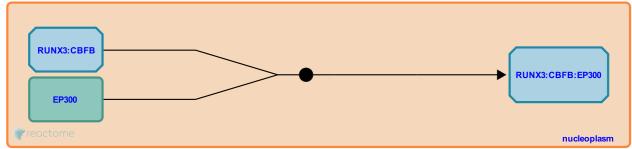
Location: RUNX3 regulates p14-ARF

Stable identifier: R-SSC-8951951

Type: binding

Compartments: nucleoplasm

Inferred from: RUNX3 binds EP300 (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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Followed by: EP300 acetylates RUNX3

#### EP300 acetylates RUNX3 7

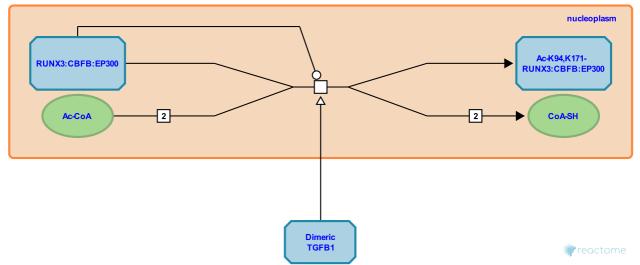
Location: RUNX3 regulates p14-ARF

Stable identifier: R-SSC-8951966

Type: transition

Compartments: nucleoplasm

Inferred from: EP300 acetylates RUNX3 (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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Preceded by: RUNX3 binds EP300

#### CCND1 binds RUNX3 and displaces EP300 ↗

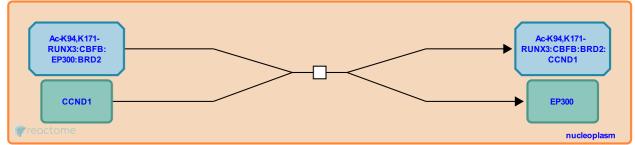
Location: RUNX3 regulates p14-ARF

Stable identifier: R-SSC-8952058

Type: transition

Compartments: nucleoplasm

Inferred from: CCND1 binds RUNX3 and displaces EP300 (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.

More details and caveats of the event inference in Reactome. For details on PANTHER see also: http://www.pantherdb.org/about.jsp

Followed by: CCND1 recruits HDAC4 to RUNX3

#### CCND1 recruits HDAC4 to RUNX3 7

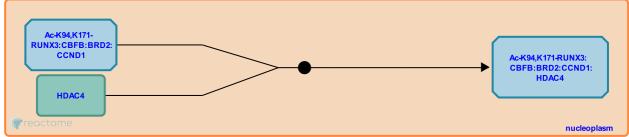
Location: RUNX3 regulates p14-ARF

Stable identifier: R-SSC-8952062

Type: binding

Compartments: nucleoplasm

Inferred from: CCND1 recruits HDAC4 to RUNX3 (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.

More details and caveats of the event inference in Reactome. For details on PANTHER see also: http://www.pantherdb.org/about.jsp

Preceded by: CCND1 binds RUNX3 and displaces EP300

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