Orc1 removal from chromatin

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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


Reactome database release: 69

This document contains 1 pathway and 4 reactions (see Table of Contents)
Orc1 removal from chromatin

**Stable identifier:** R-MMU-68949

**Compartments:** nucleoplasm, cytosol

**Inferred from:** Orc1 removal from chromatin (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](http://www.pantherdb.org/about.jsp)
Orc1 is phosphorylated by cyclin A/CDK2

Location: Orc1 removal from chromatin

Stable identifier: R-MMU-68944

Type: transition

Compartments: nucleoplasm

Inferred from: Orc1 is phosphorylated by cyclin A/CDK2 (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: Phosphorylated Orc1 is ubiquitinated while still associated with chromatin
Phosphorylated Orc1 is ubiquitinated while still associated with chromatin

**Location:** Orc1 removal from chromatin

**Stable identifier:** R-MMU-68946

**Type:** transition

**Compartments:** nucleoplasm

**Inferred from:** Phosphorylated Orc1 is ubiquitinated while still associated with chromatin (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.

<a href='/electronic_inference_compara.html' target='NEW'>More details and caveats of the event inference in Reactome. For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp

**Preceded by:** Orc1 is phosphorylated by cyclin A/CDK2

**Followed by:** Ubiquitinated Orc1 enters the cytosol
**Ubiquitinated Orc1 enters the cytosol**

**Location:** Orc1 removal from chromatin

**Stable identifier:** R-MMU-68947

**Type:** transition

**Compartments:** nucleoplasm, cytosol

**Inferred from:** Ubiquitinated Orc1 enters the cytosol (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:

Preceded by: Phosphorylated Orc1 is ubiquitinated while still associated with chromatin

Followed by: Ubiquitinated Orc1 is degraded by the proteasome
Ubiquitinated Orc1 is degraded by the proteasome

Location: Orc1 removal from chromatin

Stable identifier: R-MMU-68948

Type: omitted

Compartments: cytosol

Inferred from: Ubiquitinated Orc1 is degraded by the proteasome (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: Ubiquitinated Orc1 enters the cytosol
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