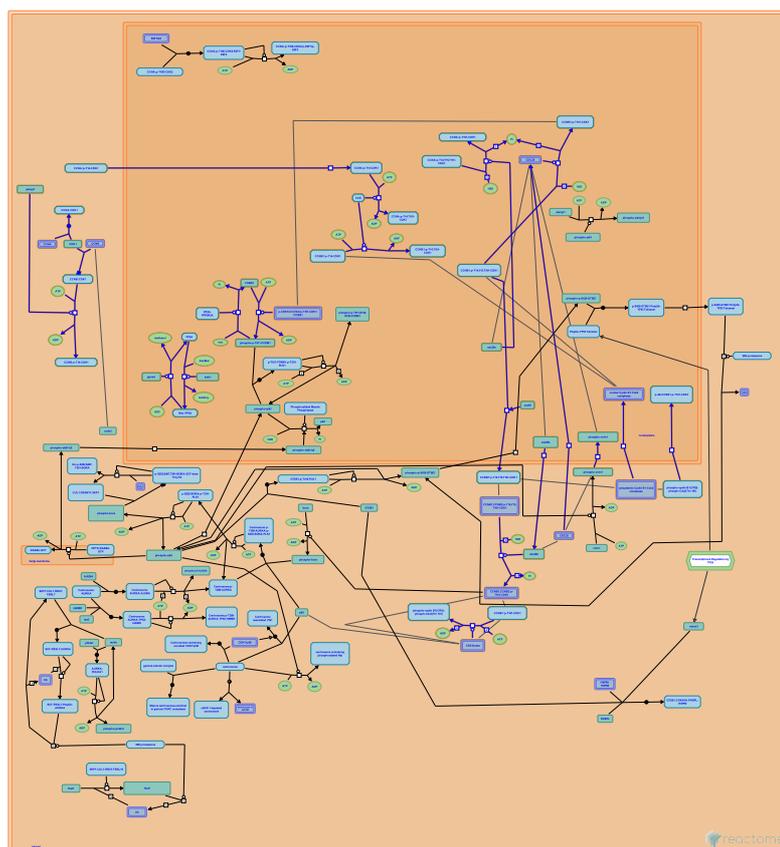


# Cyclin A/B1/B2 associated events during G2/M transition



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.

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

- Fabregat, A., Sidiropoulos, K., Viteri, G., Forner, O., Marin-Garcia, P., Arnau, V. et al. (2017). Reactome pathway analysis: a high-performance in-memory approach. *BMC bioinformatics*, 18, 142. [↗](#)
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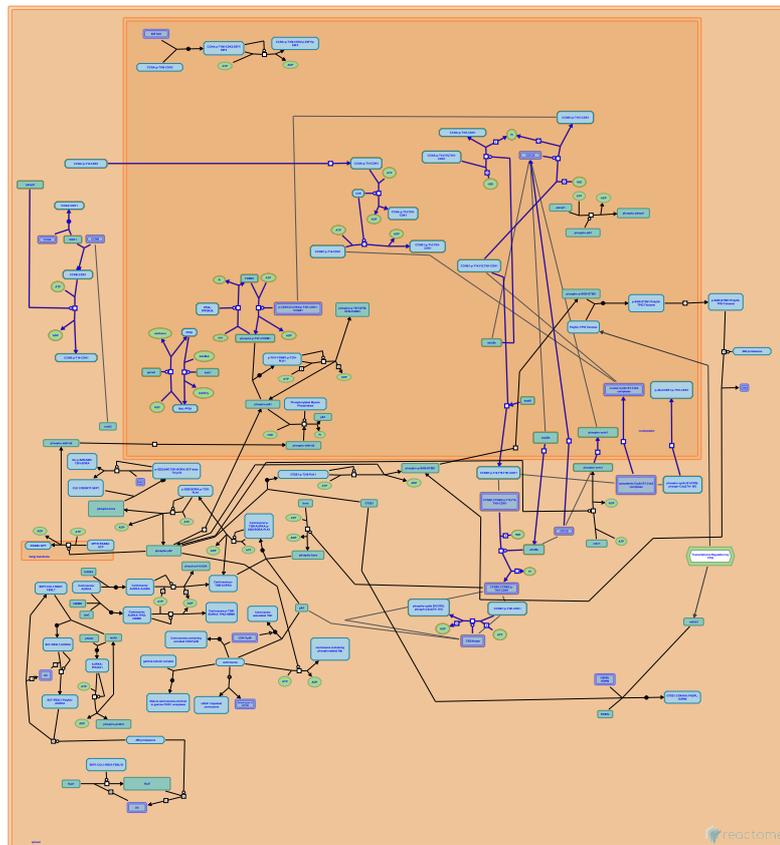
Reactome database release: 75

This document contains 1 pathway and 20 reactions ([see Table of Contents](#))

## Cyclin A/B1/B2 associated events during G2/M transition ↗

**Stable identifier:** R-XTR-69273

**Inferred from:** Cyclin A/B1/B2 associated events during G2/M transition (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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Formation of Cyclin A:Cdc2 complexes ↗

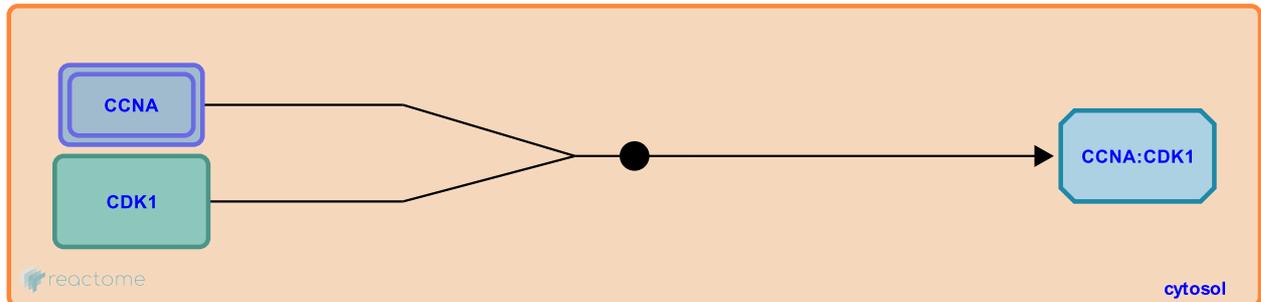
**Location:** Cyclin A/B1/B2 associated events during G2/M transition

**Stable identifier:** R-XTR-170084

**Type:** binding

**Compartments:** cytosol

**Inferred from:** Formation of Cyclin A:Cdc2 complexes (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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Translocation of Cyclin A:phospho-Cdc2 (Thr 14) to the nucleus ↗

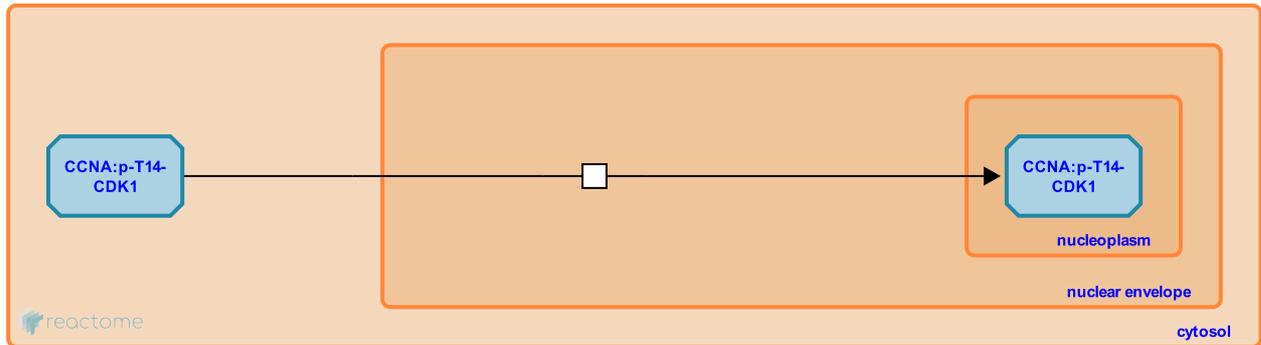
**Location:** Cyclin A/B1/B2 associated events during G2/M transition

**Stable identifier:** R-XTR-170088

**Type:** transition

**Compartments:** nuclear envelope

**Inferred from:** [Translocation of Cyclin A:phospho-Cdc2 \(Thr 14\) to the nucleus \(Homo sapiens\)](#)



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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

**Followed by:** [CAK-mediated phosphorylation of Cyclin A:Cdc2 complexes](#)

## CAK-mediated phosphorylation of Cyclin A:Cdc2 complexes ↗

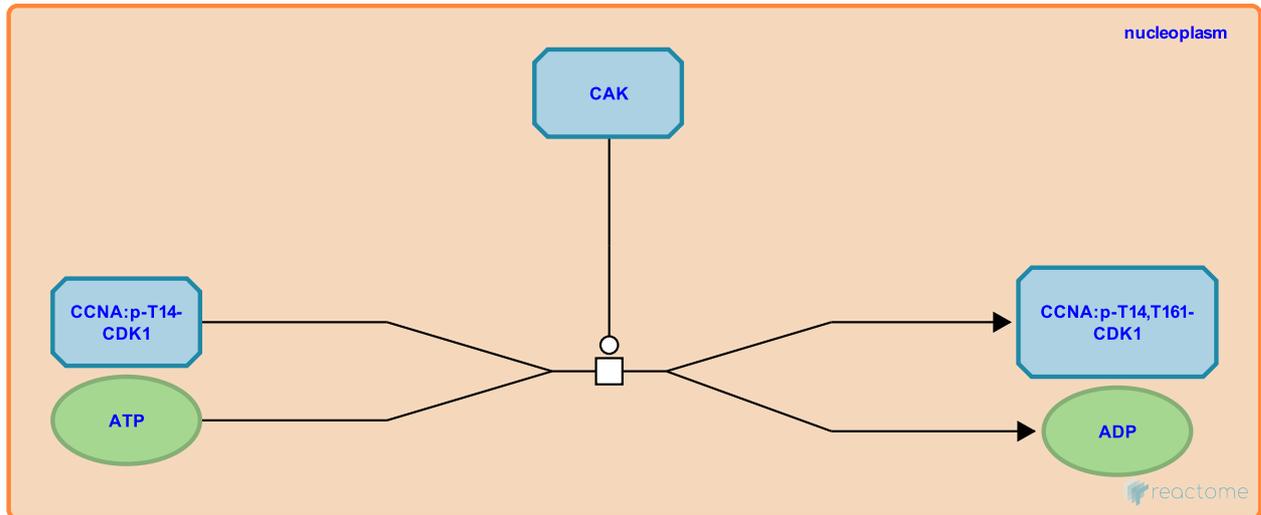
**Location:** Cyclin A/B1/B2 associated events during G2/M transition

**Stable identifier:** R-XTR-170087

**Type:** transition

**Compartments:** nucleoplasm

**Inferred from:** [CAK-mediated phosphorylation of Cyclin A:Cdc2 complexes \(Homo sapiens\)](#)



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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

**Preceded by:** [Translocation of Cyclin A:phospho-Cdc2 \(Thr 14\) to the nucleus](#)

## Translocation of active Cdc25C to the nucleus ↗

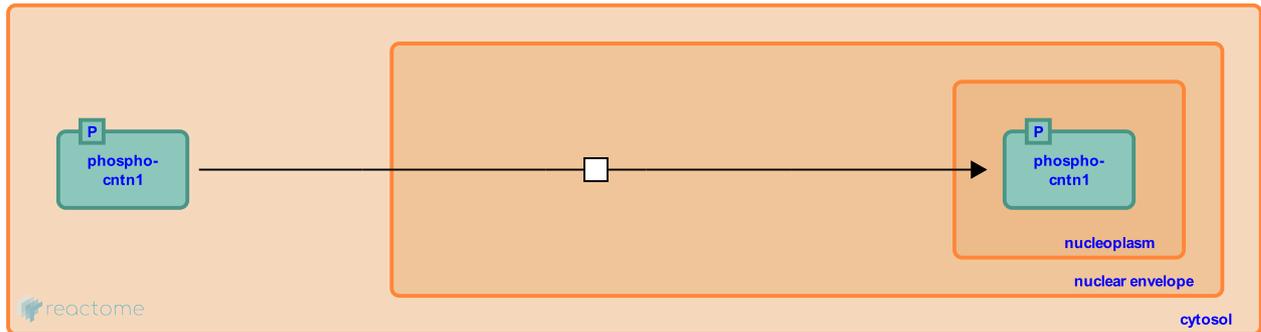
**Location:** Cyclin A/B1/B2 associated events during G2/M transition

**Stable identifier:** R-XTR-170149

**Type:** transition

**Compartments:** nuclear envelope

**Inferred from:** [Translocation of active Cdc25C to the nucleus \(Homo sapiens\)](#)



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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

**Followed by:** [Dephosphorylation of nuclear Cyclin A:phospho-Cdc2 complexes](#)

## Dephosphorylation of nuclear Cyclin A:phospho-Cdc2 complexes ↗

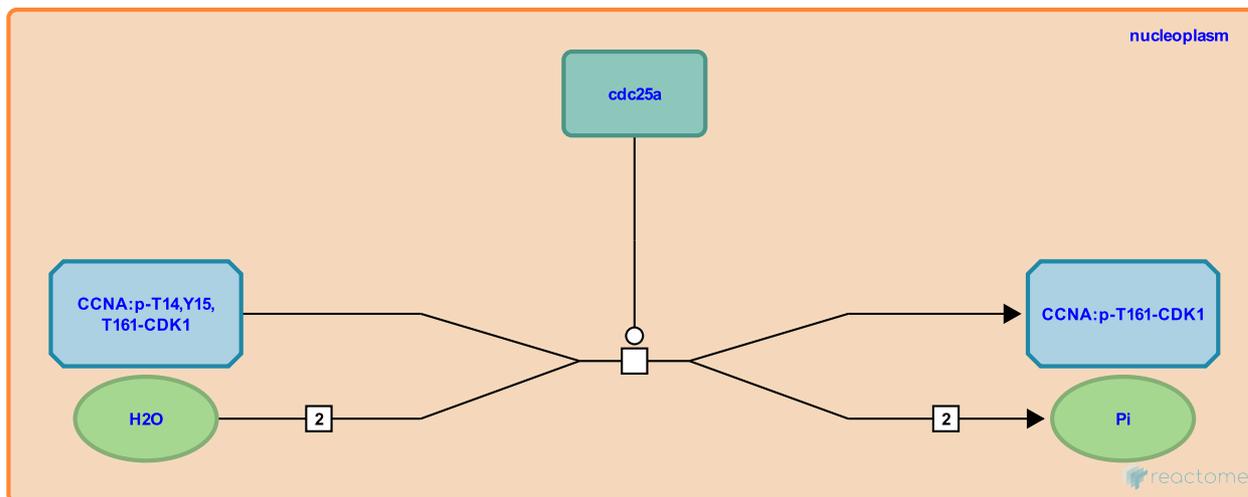
**Location:** Cyclin A/B1/B2 associated events during G2/M transition

**Stable identifier:** R-XTR-170158

**Type:** transition

**Compartments:** nucleoplasm

**Inferred from:** Dephosphorylation of nuclear Cyclin A:phospho-Cdc2 complexes (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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

**Preceded by:** [Translocation of active Cdc25C to the nucleus](#)

## Formation of Cyclin B:Cdc2 complexes ↗

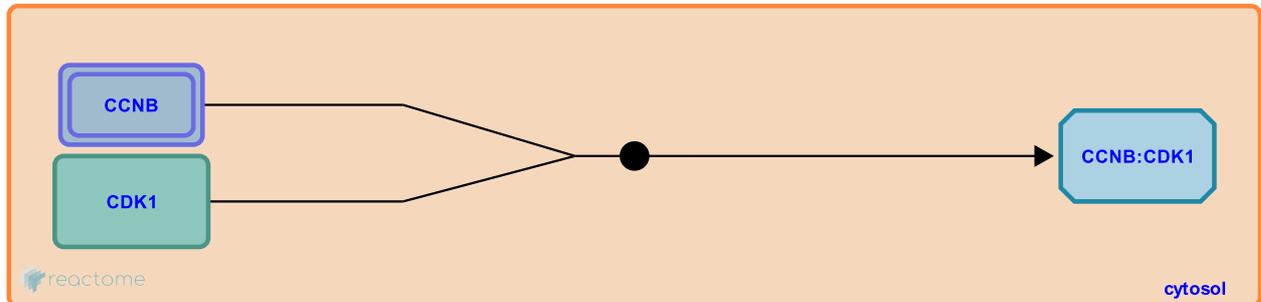
**Location:** [Cyclin A/B1/B2 associated events during G2/M transition](#)

**Stable identifier:** R-XTR-170057

**Type:** binding

**Compartments:** cytosol

**Inferred from:** [Formation of Cyclin B:Cdc2 complexes \(Homo sapiens\)](#)



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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

**Followed by:** [Myt-1 mediated phosphorylation of Cyclin B:Cdc2 complexes](#)

## Myt-1 mediated phosphorylation of Cyclin B:Cdc2 complexes ↗

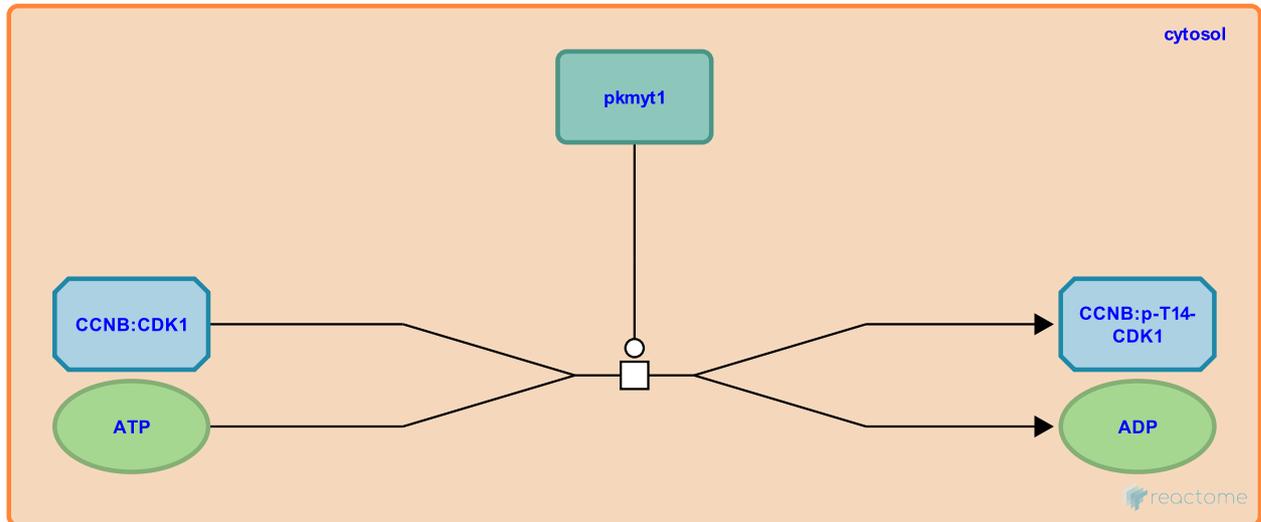
**Location:** [Cyclin A/B1/B2 associated events during G2/M transition](#)

**Stable identifier:** R-XTR-170055

**Type:** transition

**Compartments:** cytosol

**Inferred from:** [Myt-1 mediated phosphorylation of Cyclin B:Cdc2 complexes \(Homo sapiens\)](#)



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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

**Preceded by:** [Formation of Cyclin B:Cdc2 complexes](#)

**Followed by:** [Translocation of Cyclin B1:phospho-Cdc2 complexes to the nucleus](#)

## Translocation of Cyclin B1:phospho-Cdc2 complexes to the nucleus ↗

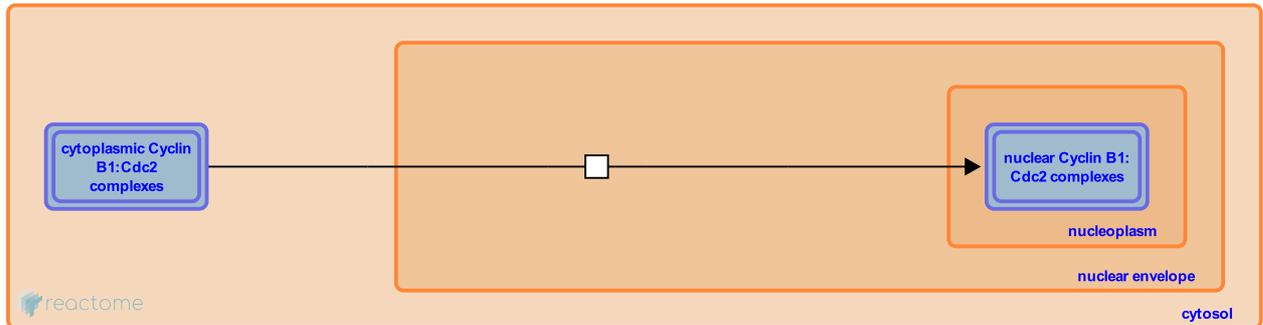
**Location:** [Cyclin A/B1/B2 associated events during G2/M transition](#)

**Stable identifier:** R-XTR-170044

**Type:** transition

**Compartments:** nuclear envelope

**Inferred from:** [Translocation of Cyclin B1:phospho-Cdc2 complexes to the nucleus \(Homo sapiens\)](#)



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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

**Preceded by:** [Myt-1 mediated phosphorylation of Cyclin B:Cdc2 complexes](#)

**Followed by:** [CAK-mediated phosphorylation of Cyclin B1:Cdc2 complexes](#)

## CAK-mediated phosphorylation of Cyclin B1:Cdc2 complexes ↗

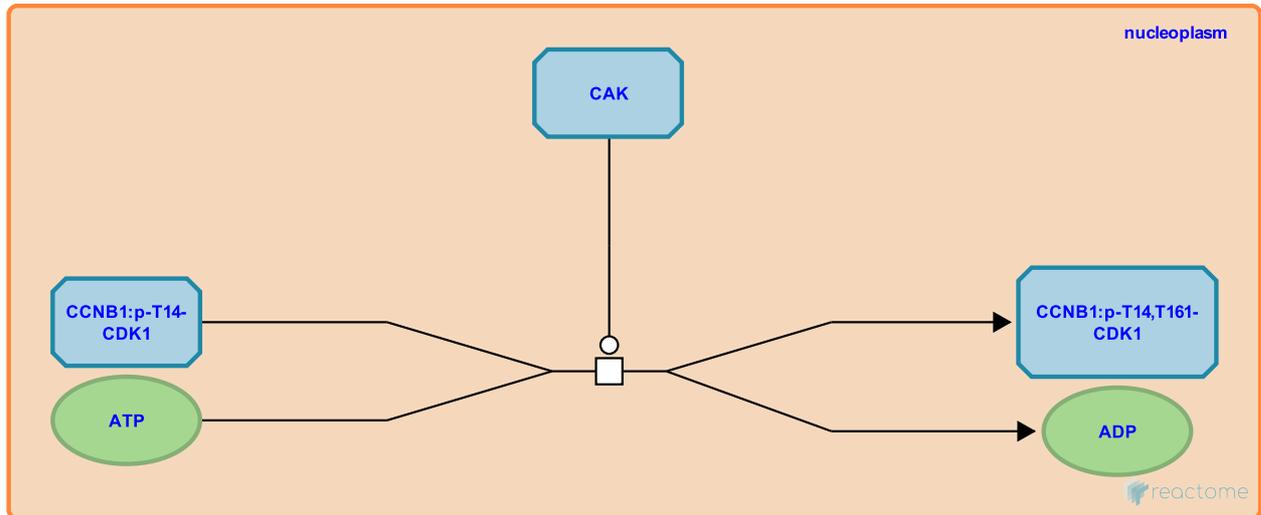
**Location:** Cyclin A/B1/B2 associated events during G2/M transition

**Stable identifier:** R-XTR-170076

**Type:** transition

**Compartments:** nucleoplasm

**Inferred from:** CAK-mediated phosphorylation of Cyclin B1:Cdc2 complexes (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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

**Preceded by:** [Translocation of Cyclin B1:phospho-Cdc2 complexes to the nucleus](#)

**Followed by:** [Phosphorylation of Cyclin B1 in the CRS domain](#)

## Translocation of Cyclin B1:phospho-Cdc2 to the cytoplasm ↗

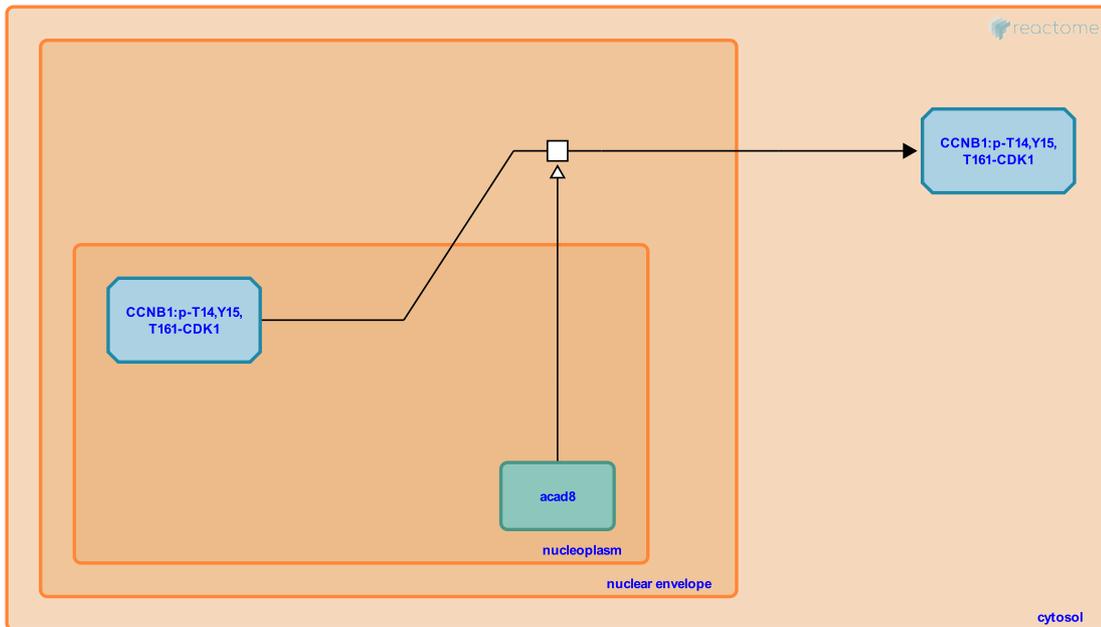
**Location:** Cyclin A/B1/B2 associated events during G2/M transition

**Stable identifier:** R-XTR-170072

**Type:** transition

**Compartments:** nuclear envelope

**Inferred from:** [Translocation of Cyclin B1:phospho-Cdc2 to the cytoplasm \(Homo sapiens\)](#)



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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

**Followed by:** [Dephosphorylation of cytoplasmic Cyclin B1/B2:phospho-Cdc2 \(Thr 14, Tyr 15\) complexes by CDC25B](#)

## Translocation of Cdc25B to the cytoplasm ↗

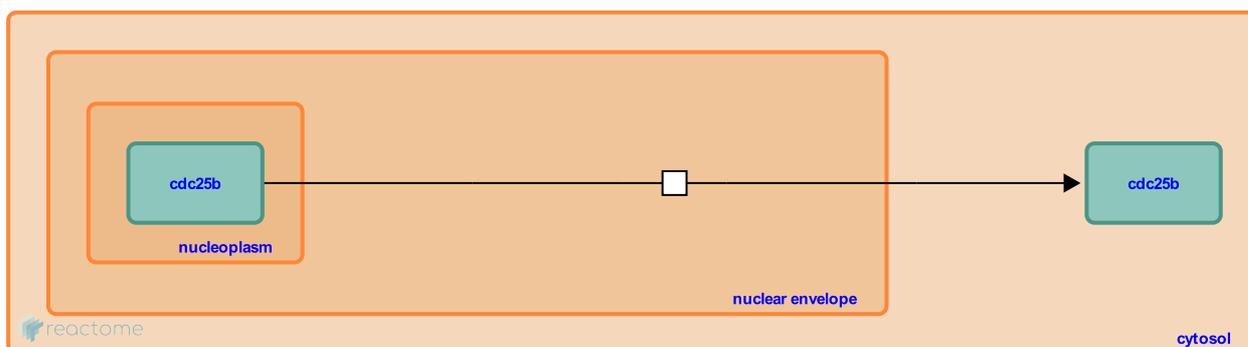
**Location:** [Cyclin A/B1/B2 associated events during G2/M transition](#)

**Stable identifier:** R-XTR-170120

**Type:** transition

**Compartments:** nuclear envelope

**Inferred from:** [Translocation of Cdc25B to the cytoplasm \(Homo sapiens\)](#)



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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

**Followed by:** [Dephosphorylation of cytoplasmic Cyclin B1/B2:phospho-Cdc2 \(Thr 14, Tyr 15\) complexes by CDC25B](#)

## Dephosphorylation of cytoplasmic Cyclin B1/B2:phospho-Cdc2 (Thr 14, Tyr 15) complexes by CDC25B ↗

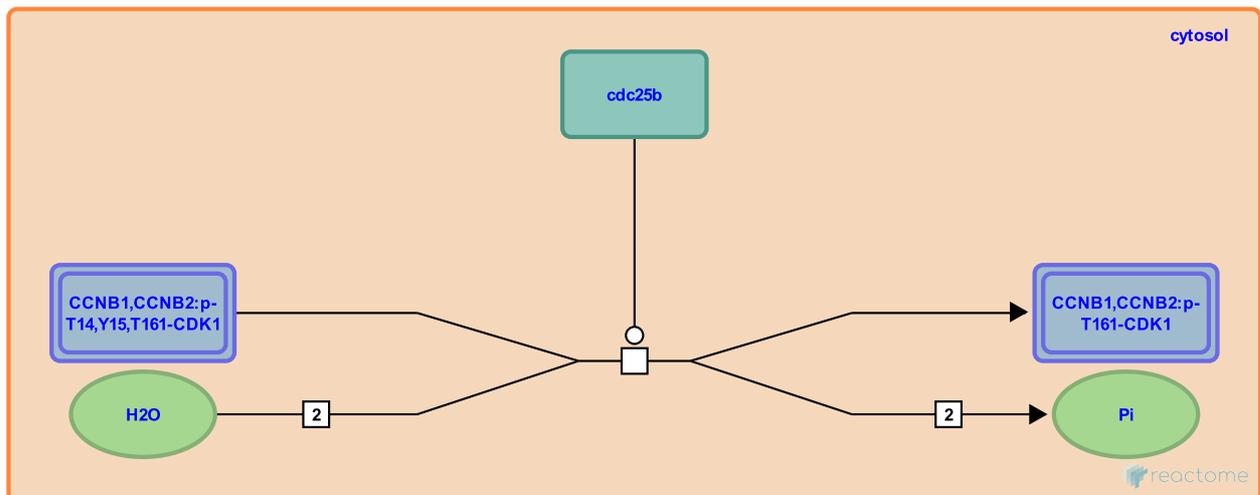
**Location:** [Cyclin A/B1/B2 associated events during G2/M transition](#)

**Stable identifier:** R-XTR-170161

**Type:** transition

**Compartments:** cytosol

**Inferred from:** [Dephosphorylation of cytoplasmic Cyclin B1/B2:phospho-Cdc2 \(Thr 14, Tyr 15\) complexes by CDC25B \(Homo sapiens\)](#)



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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

**Preceded by:** [Translocation of Cdc25B to the cytoplasm](#), [Translocation of Cyclin B1:phospho-Cdc2 to the cytoplasm](#)

**Followed by:** [Phosphorylation of Cyclin B1 in the CRS domain](#)

## Phosphorylation of Cyclin B1 in the CRS domain ↗

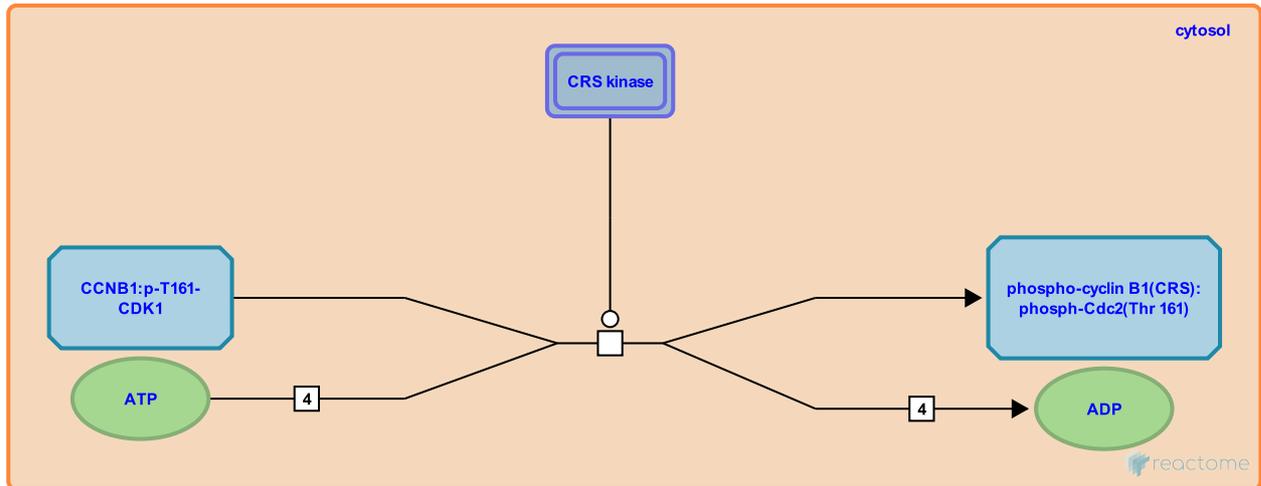
**Location:** Cyclin A/B1/B2 associated events during G2/M transition

**Stable identifier:** R-XTR-170126

**Type:** transition

**Compartments:** cytosol

**Inferred from:** Phosphorylation of Cyclin B1 in the CRS domain (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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

**Preceded by:** [CAK-mediated phosphorylation of Cyclin B1:Cdc2 complexes](#), [Dephosphorylation of cytoplasmic Cyclin B1/B2:phospho-Cdc2 \(Thr 14, Tyr 15\) complexes by CDC25B](#)

**Followed by:** [Translocation of CRS phosphorylated Cyclin B1:Cdc2 complexes](#)

## Translocation of CRS phosphorylated Cyclin B1:Cdc2 complexes ↗

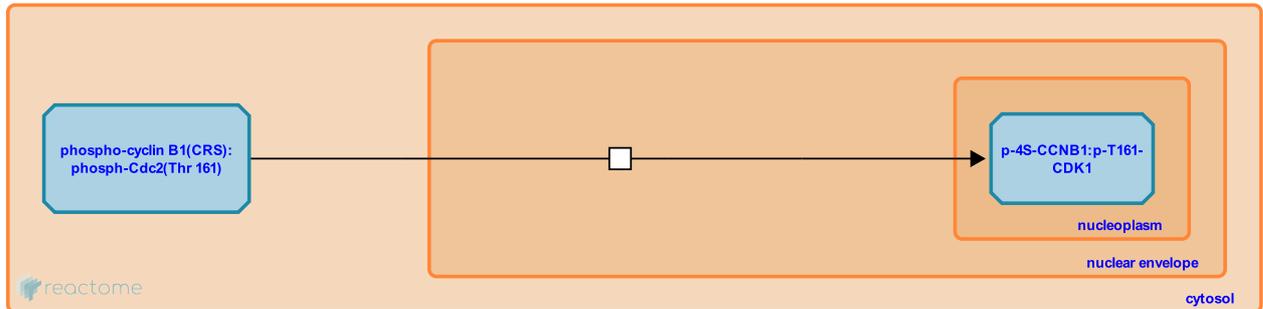
**Location:** [Cyclin A/B1/B2 associated events during G2/M transition](#)

**Stable identifier:** R-XTR-170131

**Type:** transition

**Compartments:** nuclear envelope

**Inferred from:** [Translocation of CRS phosphorylated Cyclin B1:Cdc2 complexes \(Homo sapiens\)](#)



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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

**Preceded by:** [Phosphorylation of Cyclin B1 in the CRS domain](#)

**Followed by:** [Dephosphorylation of nuclear Cyclin B1:phospho-Cdc2 \(Thr 14, Tyr15\) complexes by Cdc25 phosphatases](#)

## Translocation of Cdc25 to the nucleus ↗

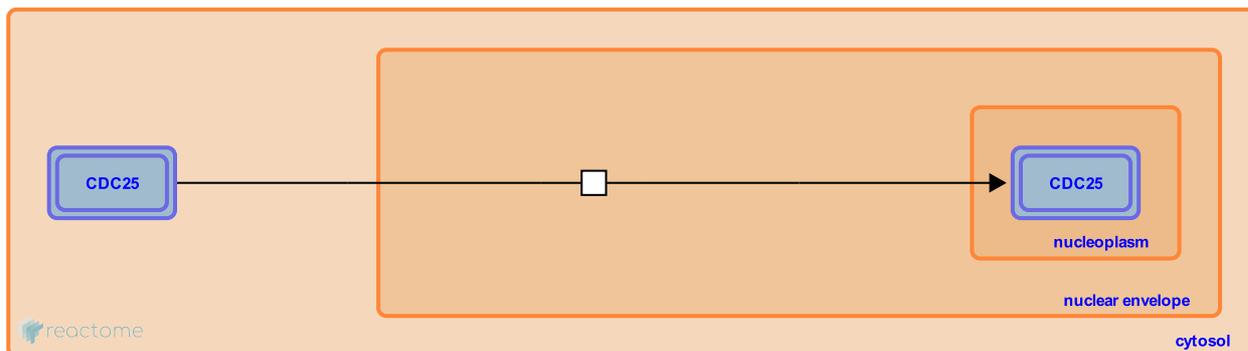
**Location:** [Cyclin A/B1/B2 associated events during G2/M transition](#)

**Stable identifier:** R-XTR-170159

**Type:** transition

**Compartments:** nuclear envelope

**Inferred from:** [Translocation of Cdc25 to the nucleus \(Homo sapiens\)](#)



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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

**Followed by:** [Dephosphorylation of nuclear Cyclin B1:phospho-Cdc2 \(Thr 14, Tyr15\) complexes by Cdc25 phosphatases](#)

## Dephosphorylation of nuclear Cyclin B1:phospho-Cdc2 (Thr 14, Tyr15) complexes by Cdc25 phosphatases ↗

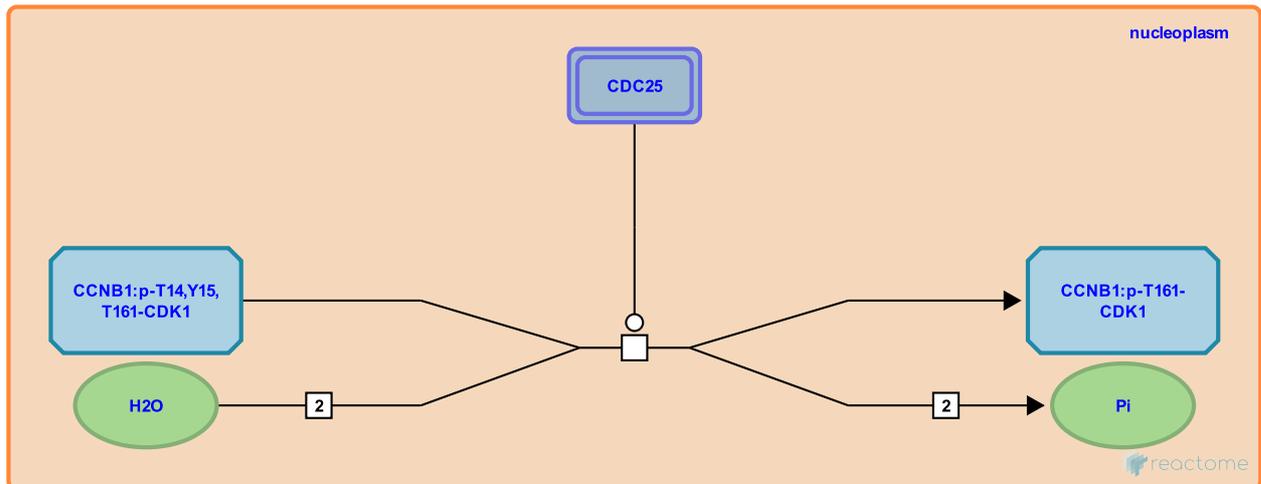
**Location:** [Cyclin A/B1/B2 associated events during G2/M transition](#)

**Stable identifier:** R-XTR-170153

**Type:** transition

**Compartments:** nucleoplasm

**Inferred from:** [Dephosphorylation of nuclear Cyclin B1:phospho-Cdc2 \(Thr 14, Tyr15\) complexes by Cdc25 phosphatases \(Homo sapiens\)](#)



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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

**Preceded by:** [Translocation of Cdc25 to the nucleus](#), [Translocation of CRS phosphorylated Cyclin B1:Cdc2 complexes](#)

## CCNA:CDK1/2 complexes and CCNB1:CDK1 complexes phosphorylate FOXM1 ↗

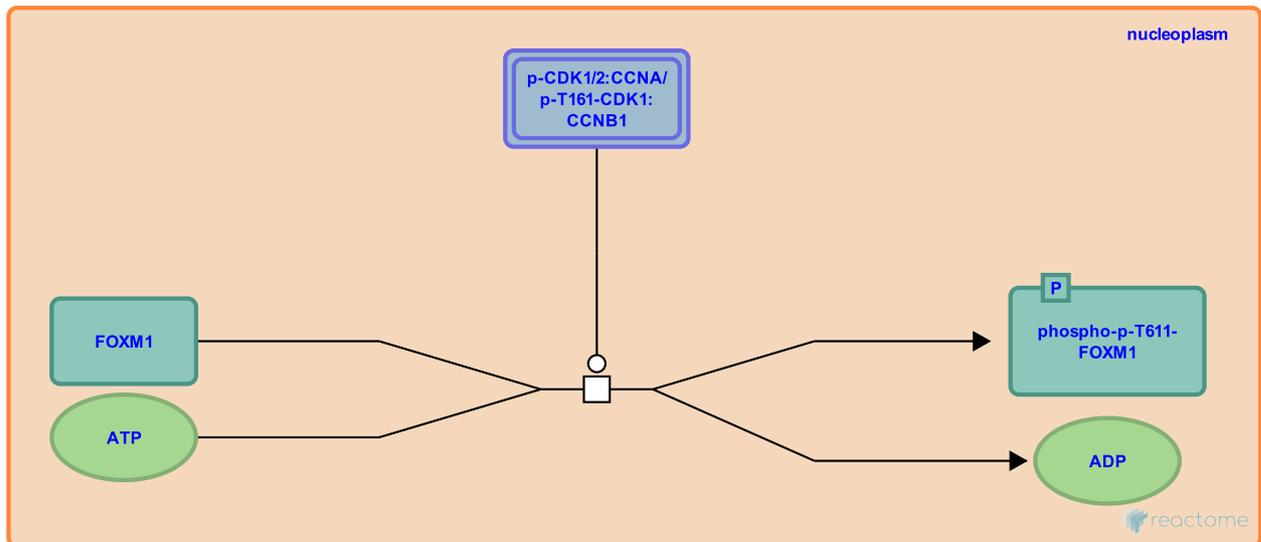
**Location:** Cyclin A/B1/B2 associated events during G2/M transition

**Stable identifier:** R-XTR-4088024

**Type:** transition

**Compartments:** nucleoplasm

**Inferred from:** CCNA:CDK1/2 complexes and CCNB1:CDK1 complexes phosphorylate FOXM1 (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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

**Followed by:** PP2A-PPP2R2A dephosphorylates FOXM1

## PP2A-PPP2R2A dephosphorylates FOXM1 ↗

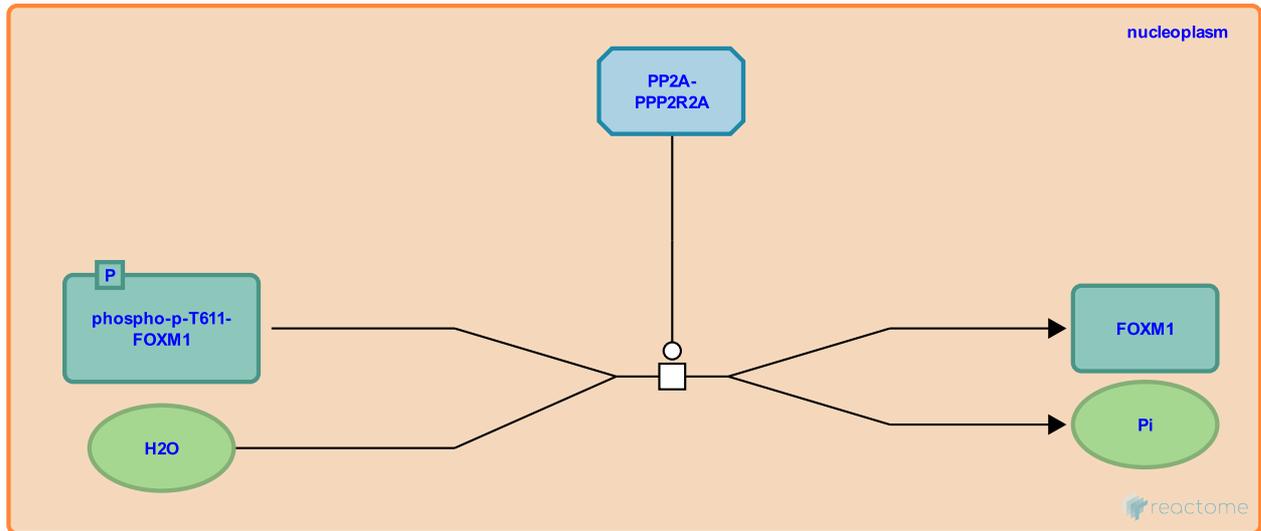
**Location:** [Cyclin A/B1/B2 associated events during G2/M transition](#)

**Stable identifier:** R-XTR-4088141

**Type:** transition

**Compartments:** nucleoplasm

**Inferred from:** [PP2A-PPP2R2A dephosphorylates FOXM1 \(Homo sapiens\)](#)



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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

**Preceded by:** [CCNA:CDK1/2 complexes and CCNB1:CDK1 complexes phosphorylate FOXM1](#)

## PP2A methylation by LCMT1 ↗

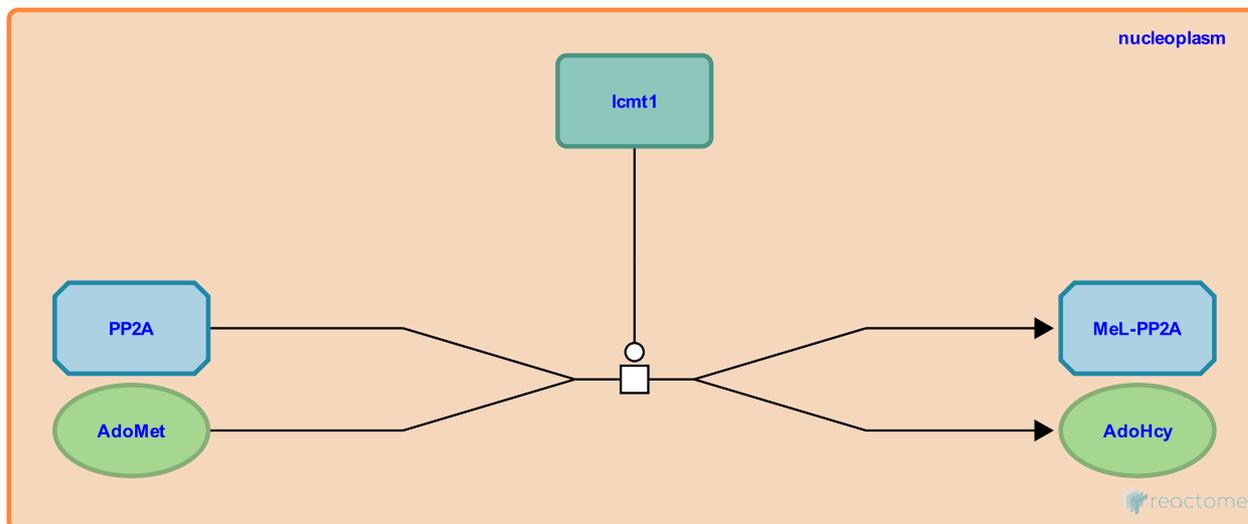
**Location:** Cyclin A/B1/B2 associated events during G2/M transition

**Stable identifier:** R-XTR-8856945

**Type:** transition

**Compartments:** nucleoplasm

**Inferred from:** PP2A methylation by LCMT1 (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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## PP2A demethylation by PPME1 ↗

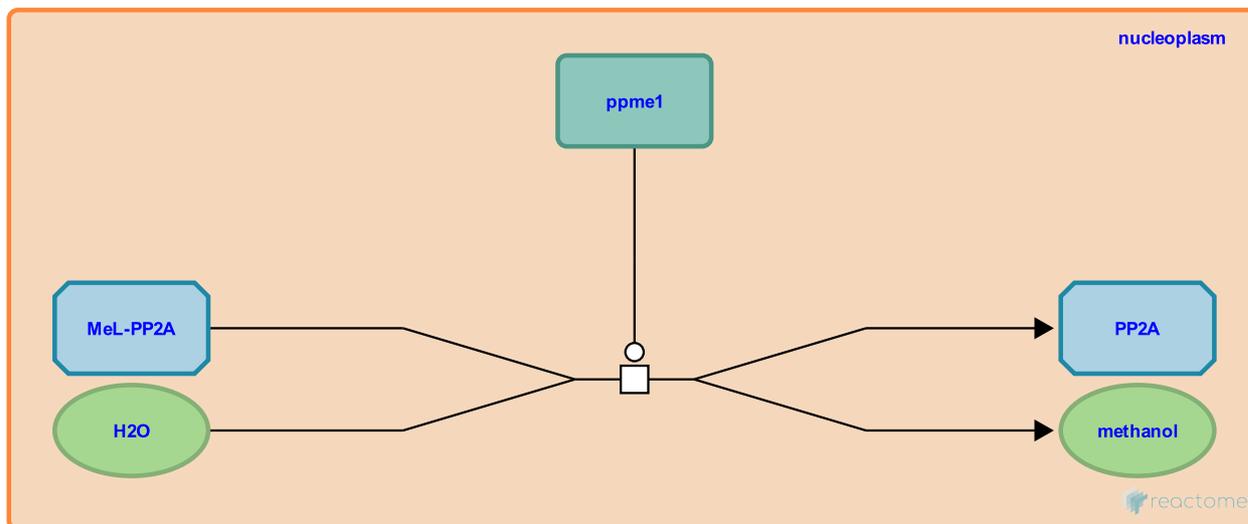
**Location:** Cyclin A/B1/B2 associated events during G2/M transition

**Stable identifier:** R-XTR-8856951

**Type:** transition

**Compartments:** nucleoplasm

**Inferred from:** PP2A demethylation by PPME1 (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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# Table of Contents

Introduction	1
📌 Cyclin A/B1/B2 associated events during G2/M transition	2
🔗 Formation of Cyclin A:Cdc2 complexes	3
🔗 Translocation of Cyclin A:phospho-Cdc2 (Thr 14) to the nucleus	4
🔗 CAK-mediated phosphorylation of Cyclin A:Cdc2 complexes	5
🔗 Translocation of active Cdc25C to the nucleus	6
🔗 Dephosphorylation of nuclear Cyclin A:phospho-Cdc2 complexes	7
🔗 Formation of Cyclin B:Cdc2 complexes	8
🔗 Myt-1 mediated phosphorylation of Cyclin B:Cdc2 complexes	9
🔗 Translocation of Cyclin B1:phospho-Cdc2 complexes to the nucleus	10
🔗 CAK-mediated phosphorylation of Cyclin B1:Cdc2 complexes	11
🔗 Translocation of Cyclin B1:phospho-Cdc2 to the cytoplasm	12
🔗 Translocation of Cdc25B to the cytoplasm	13
🔗 Dephosphorylation of cytoplasmic Cyclin B1/B2:phospho-Cdc2 (Thr 14, Tyr 15) complexes by CDC25B	14
🔗 Phosphorylation of Cyclin B1 in the CRS domain	15
🔗 Translocation of CRS phosphorylated Cyclin B1:Cdc2 complexes	16
🔗 Translocation of Cdc25 to the nucleus	17
🔗 Dephosphorylation of nuclear Cyclin B1:phospho-Cdc2 (Thr 14, Tyr15) complexes by Cdc25 phosphatases	18
🔗 CCNA:CDK1/2 complexes and CCNB1:CDK1 complexes phosphorylate FOXM1	19
🔗 PP2A-PPP2R2A dephosphorylates FOXM1	20
🔗 PP2A methylation by LCMT1	21
🔗 PP2A demethylation by PPME1	22
Table of Contents	23