ChREBP activates metabolic gene expression

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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: 70

This document contains 1 pathway and 4 reactions (see Table of Contents)
ChREBP activates metabolic gene expression

Stable identifier: R-MMU-163765

Compartments: nucleoplasm, cytosol, endoplasmic reticulum membrane

Inferred from: ChREBP activates metabolic gene expression (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
**Transcriptional activation of Citrate lyase monomer gene by ChREBP:MLX**

**Location:** ChREBP activates metabolic gene expression

**Stable identifier:** R-MMU-163770

**Type:** omitted

**Compartments:** nucleoplasm, cytosol

**Inferred from:** Transcriptional activation of Citrate lyase monomer gene by ChREBP:MLX (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)
Transcriptional activation of FAS monomer gene by ChREBP:MLX

**Location:** ChREBP activates metabolic gene expression

**Stable identifier:** R-MMU-163733

**Type:** omitted

**Compartments:** nucleoplasm, cytosol

**Inferred from:** Transcriptional activation of FAS monomer gene by ChREBP:MLX (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</a>
Transcriptional activation of Acetyl-CoA carboxylase by ChREBP:MLX

Location: ChREBP activates metabolic gene expression

Stable identifier: R-MMU-163743

Type: omitted

Compartments: nucleoplasm, cytosol

Inferred from: Transcriptional activation of Acetyl-CoA carboxylase by ChREBP:MLX (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/parologue (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
Transcriptional activation of GP-acyl transferase gene by ChREBP:MLX

**Location:** ChREBP activates metabolic gene expression

**Stable identifier:** R-MMU-163748

**Type:** omitted

**Compartments:** nucleoplasm, endoplasmic reticulum membrane

**Inferred from:** Transcriptional activation of GP-acyl transferase gene by ChREBP:MLX (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/parologue (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
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