Miscellaneous transport and binding events
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: 83

This document contains 1 pathway and 12 reactions (see Table of Contents)
Miscellaneous transport and binding events

**Stable identifier:** R-MMU-5223345

**Inferred from:** Miscellaneous transport and binding events (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)
**ADD1:ADD2 binds DMTN**

**Location:** Miscellaneous transport and binding events

**Stable identifier:** R-MMU-5226979

**Type:** binding

**Compartments:** cytosol

**Inferred from:** ADD1:ADD2 binds DMTN (Homo sapiens)

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

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ADD1:ADD3 binds DMTN

**Location:** Miscellaneous transport and binding events

**Stable identifier:** R-MMU-5226999

**Type:** binding

**Compartments:** cytosol

**Inferred from:** ADD1:ADD3 binds DMTN (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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https://reactome.org
ANKH transports PPI from cytosol to extracellular region

Location: Miscellaneous transport and binding events

Stable identifier: R-MMU-5226964

Type: transition

Compartments: plasma membrane, extracellular region, cytosol

Inferred from: ANKH transports PPI from cytosol to extracellular region (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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AZGP1 binds PIP

Location: Miscellaneous transport and binding events

Stable identifier: R-MMU-5252072

Type: binding

Compartments: extracellular region

Inferred from: AZGP1 binds PIP (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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MRS2 transports Mg2+ from cytosol to mitochondrial matrix

**Location:** Miscellaneous transport and binding events

**Stable identifier:** R-MMU-5336466

**Type:** transition

**Compartments:** mitochondrial inner membrane, mitochondrial matrix, cytosol

**Inferred from:** MRS2 transports Mg2+ from cytosol to mitochondrial matrix (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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NIPAs transport Mg2+ from extracellular region to cytosol

**Location:** Miscellaneous transport and binding events

**Stable identifier:** R-MMU-5336453

**Type:** transition

**Compartments:** plasma membrane, extracellular region, cytosol

**Inferred from:** NIPAs transport Mg2+ from extracellular region to 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.](https://reactome.org)

For details on PANTHER see also: [http://www.pantherdb.org/about.jsp](http://www.pantherdb.org/about.jsp)
MAGT1 transports Mg2+ from extracellular region to cytosol

**Location:** Miscellaneous transport and binding events

**Stable identifier:** R-MMU-5339538

**Type:** transition

**Compartments:** plasma membrane, extracellular region, cytosol

**Inferred from:** MAGT1 transports Mg2+ from extracellular region to 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.

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TUSC3 transports Mg2+ from extracellular region to cytosol

**Location:** Miscellaneous transport and binding events

**Stable identifier:** R-MMU-5339528

**Type:** transition

**Compartments:** plasma membrane, extracellular region, cytosol

**Inferred from:** TUSC3 transports Mg2+ from extracellular region to 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.

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**CSN polymer binds CaPO4**

**Location:** Miscellaneous transport and binding events

**Stable identifier:** R-MMU-5340124

**Type:** binding

**Compartments:** extracellular region

**Inferred from:** CSN polymer binds CaPO4 (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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https://reactome.org
CTNS cotransports CySS-, H+ from lysosomal lumen to cytosol

**Location:** Miscellaneous transport and binding events

**Stable identifier:** R-MMU-5340130

**Type:** transition

**Compartments:** lysosomal lumen, cytosol, lysosomal membrane

**Inferred from:** CTNS cotransports CySS-, H+ from lysosomal lumen to 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: http://www.pantherdb.org/about.jsp
**PQLC2 transports L-Arg,L-His,L-Lys from lysosomal lumen to cytosol**

**Location:** Miscellaneous transport and binding events

**Stable identifier:** R-MMU-8932851

**Type:** transition

**Compartments:** lysosomal lumen, cytosol, lysosomal membrane

**Inferred from:** PQLC2 transports L-Arg,L-His,L-Lys from lysosomal lumen to 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/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.

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[https://reactome.org](https://reactome.org)
VRAC heteromer transports I-, Cl- from cytosol to extracellular region

Location: Miscellaneous transport and binding events

Stable identifier: R-MMU-8941543

Type: transition

Compartments: plasma membrane, extracellular region, cytosol

Inferred from: VRAC heteromer transports I-, Cl- from cytosol to extracellular region (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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