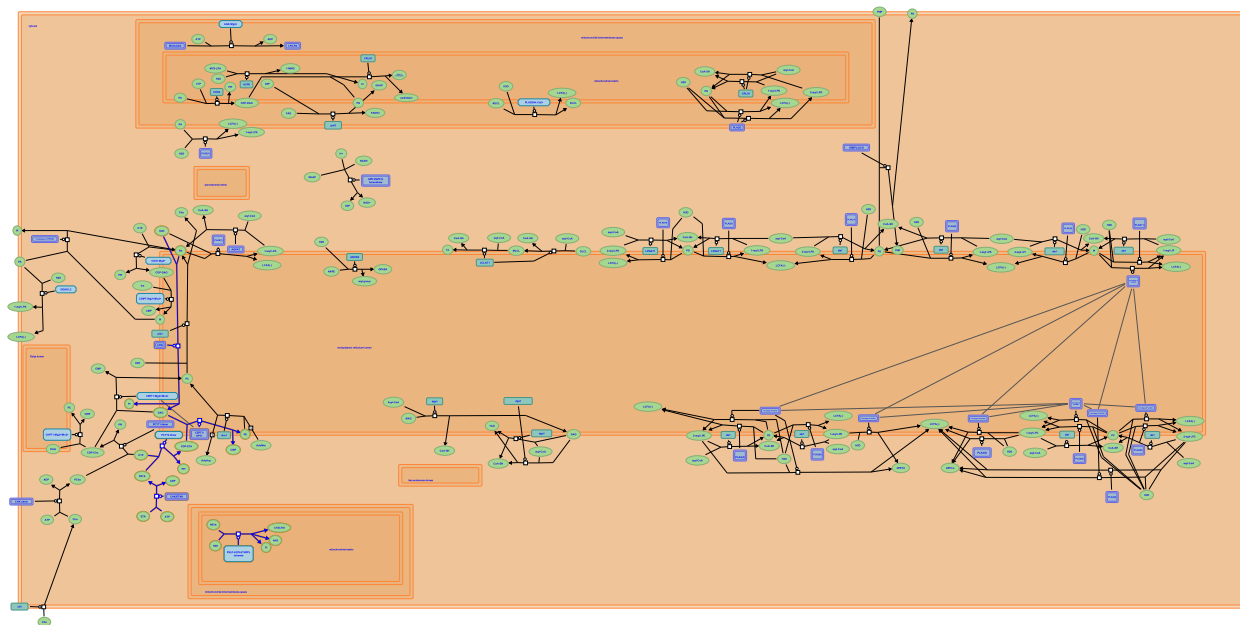


Synthesis of PE



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

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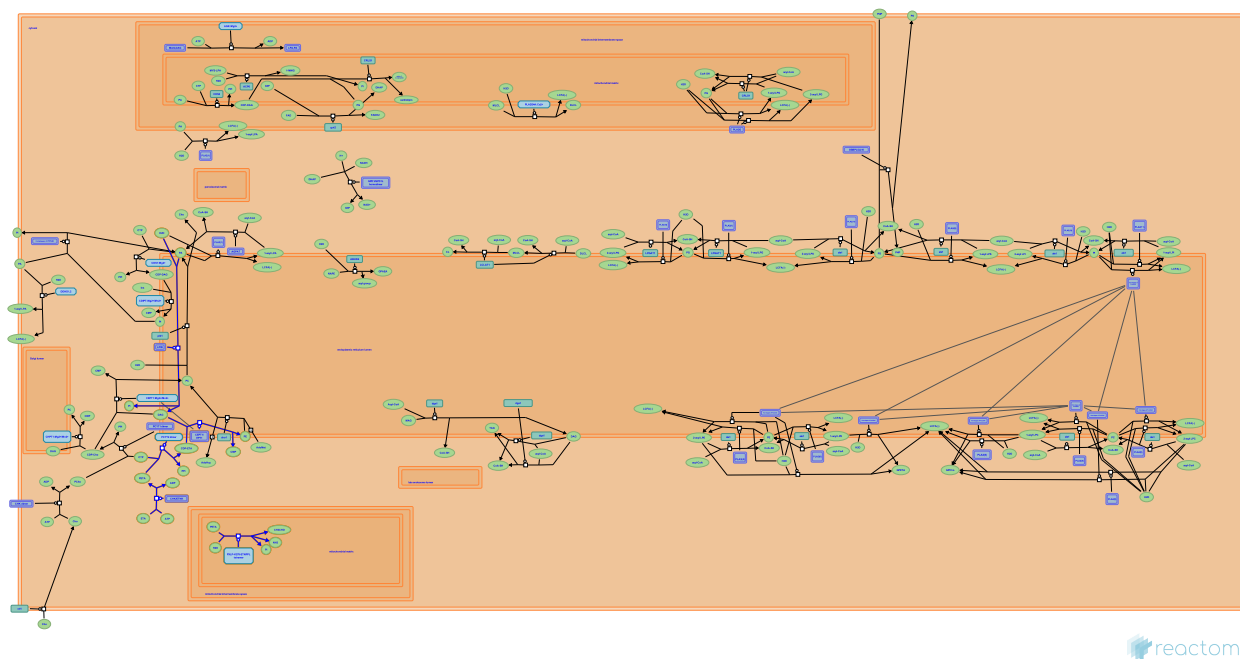
Reactome database release: 73

This document contains 1 pathway and 5 reactions ([see Table of Contents](#))

Synthesis of PE ↗

Stable identifier: R-SPO-1483213

Inferred from: [Synthesis of PE \(Homo sapiens\)](#)



 reactome

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>

ETA is phosphorylated to PETA by CHK/ETNK ↗

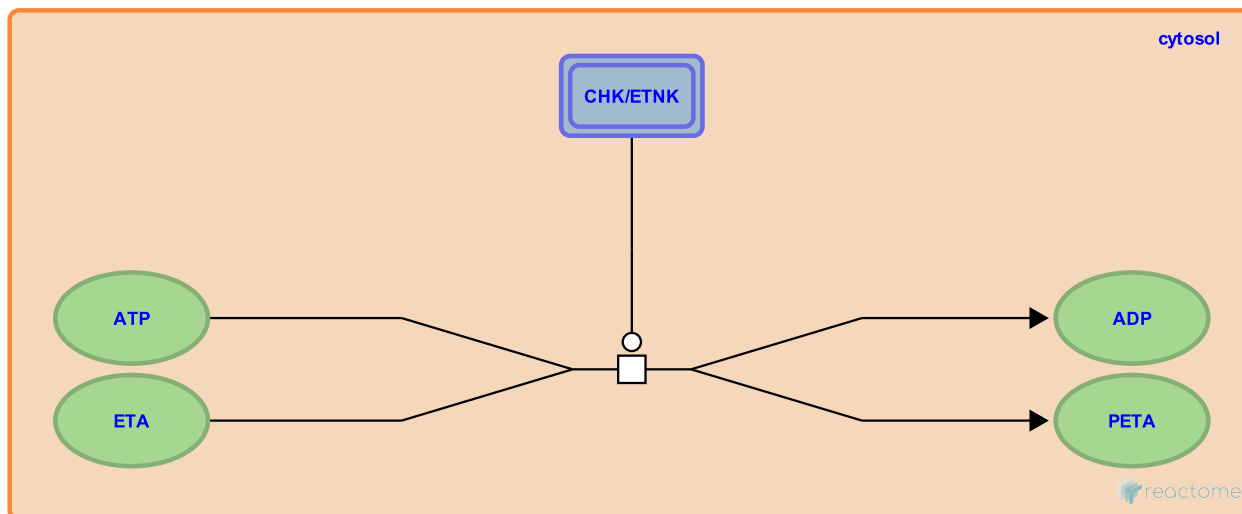
Location: [Synthesis of PE](#)

Stable identifier: R-SPO-1483222

Type: transition

Compartments: cytosol

Inferred from: [ETA is phosphorylated to PETA by CHK/ETNK \(Homo sapiens\)](#)



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: [PXLK-K278-ETNPPL tetramer hydrolyses PETA](#), [PETA and CTP are condensed to CDP-ETA by PCY2](#)

PXLP-K278-ETNPPL tetramer hydrolyses PETA ↗

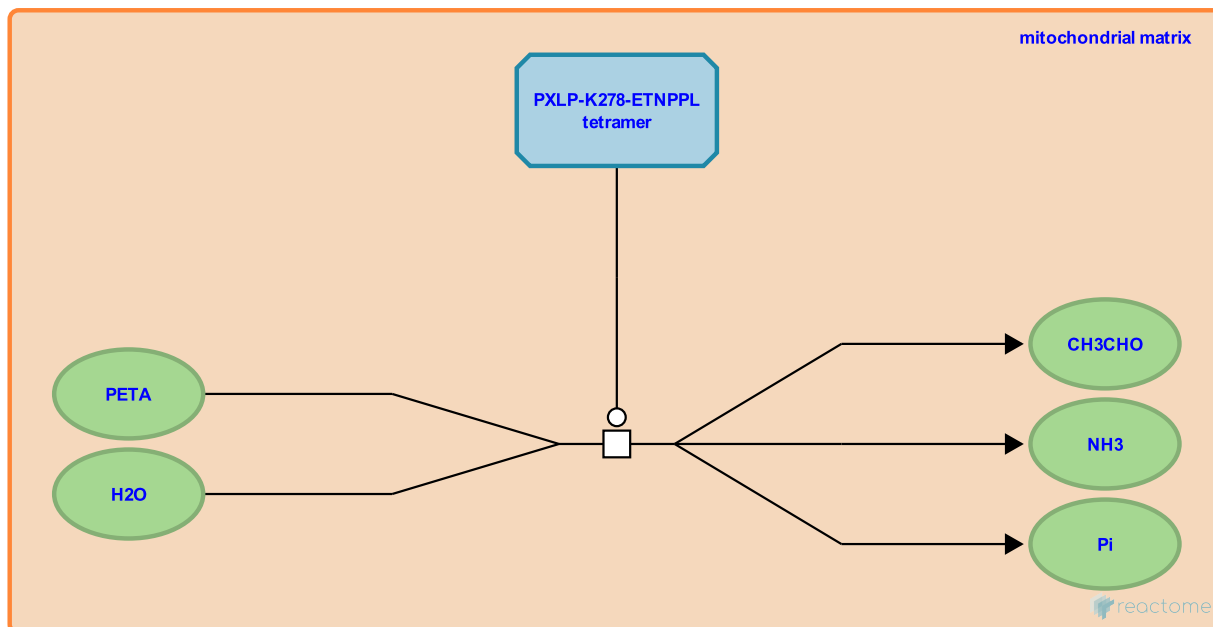
Location: [Synthesis of PE](#)

Stable identifier: R-SPO-5696415

Type: transition

Compartments: mitochondrial matrix

Inferred from: [PXLP-K278-ETNPPL tetramer hydrolyses PETA \(Homo sapiens\)](#)



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: [ETA is phosphorylated to PETA by CHK/ETNK](#)

PETA and CTP are condensed to CDP-ETA by PCY2 ↗

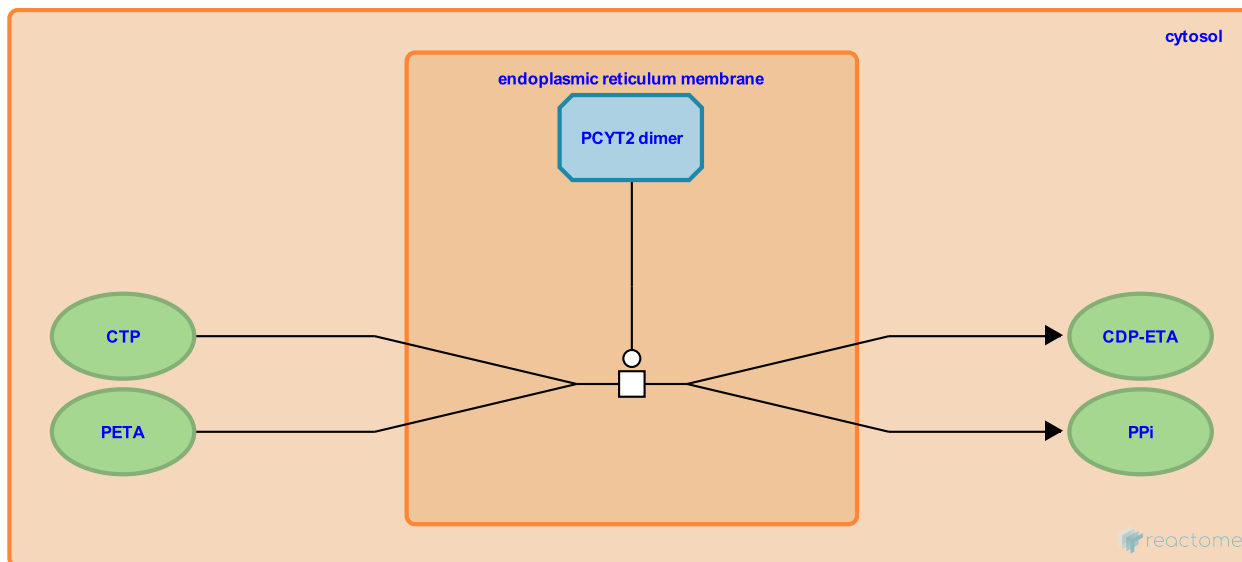
Location: [Synthesis of PE](#)

Stable identifier: R-SPO-1483190

Type: transition

Compartments: endoplasmic reticulum membrane, cytosol

Inferred from: [PETA and CTP are condensed to CDP-ETA by PCY2 \(Homo sapiens\)](#)



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: [ETA is phosphorylated to PETA by CHK/ETNK](#)

Followed by: [CDP-ETA and DAG are converted to PE by CEPT1/EPT1](#)

PA is dephosphorylated to DAG by LPIN ↗

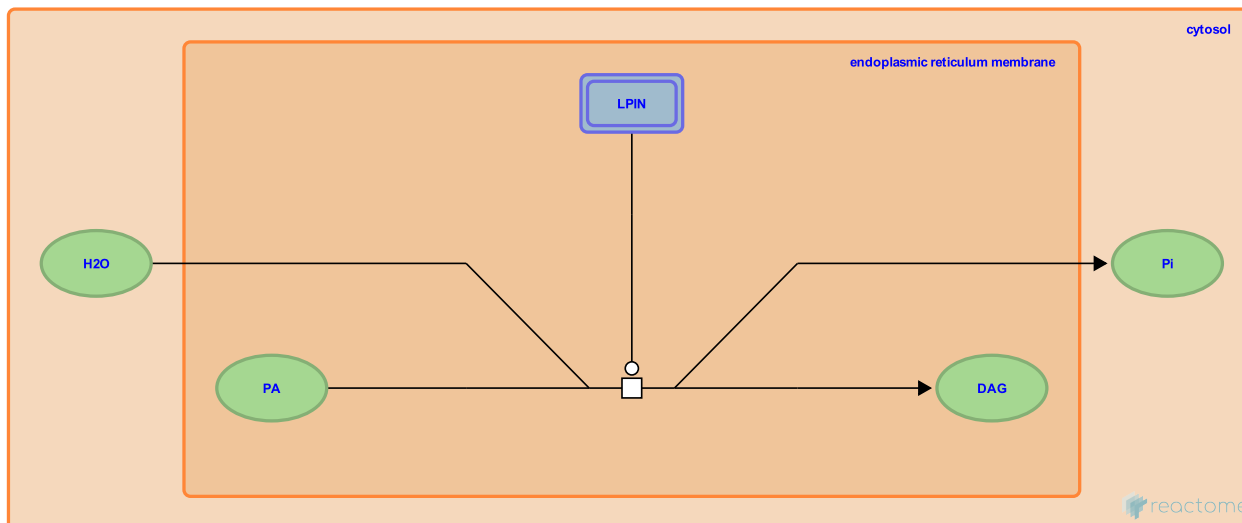
Location: [Synthesis of PE](#)

Stable identifier: R-SPO-1483203

Type: transition

Compartments: endoplasmic reticulum membrane, cytosol

Inferred from: [PA is dephosphorylated to DAG by LPIN \(Homo sapiens\)](#)



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: [CDP-ETA and DAG are converted to PE by CEPT1/EPT1](#)

CDP-ETA and DAG are converted to PE by CEPT1/EPT1 ↗

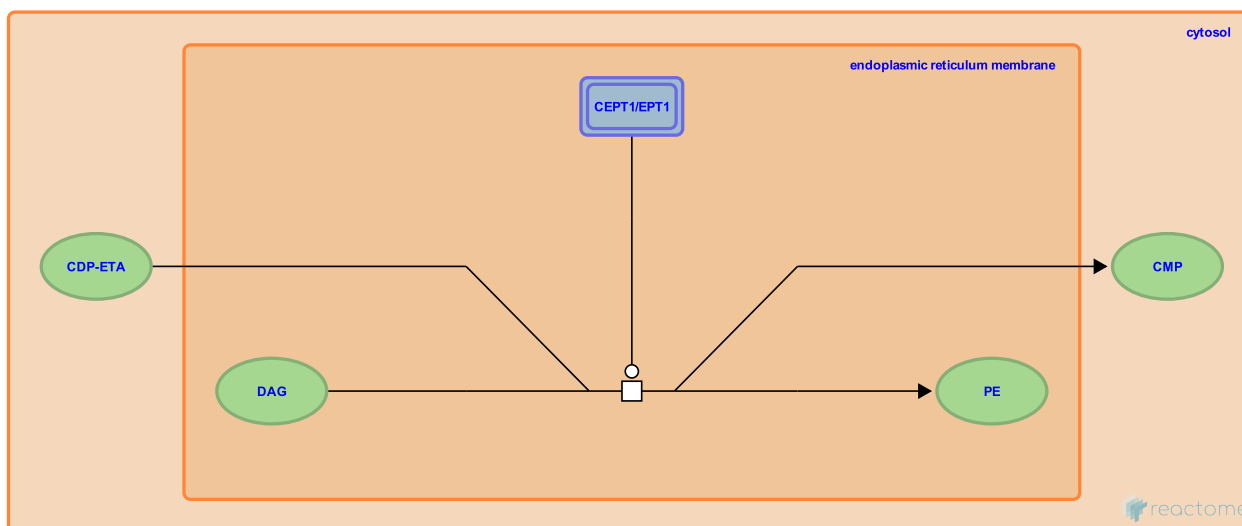
Location: [Synthesis of PE](#)

Stable identifier: R-SPO-1482962

Type: transition

Compartments: endoplasmic reticulum membrane, cytosol

Inferred from: [CDP-ETA and DAG are converted to PE by CEPT1/EPT1 \(Homo sapiens\)](#)



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: [PETA and CTP are condensed to CDP-ETA by PCY2](#), [PA is dephosphorylated to DAG by LPIN](#)

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