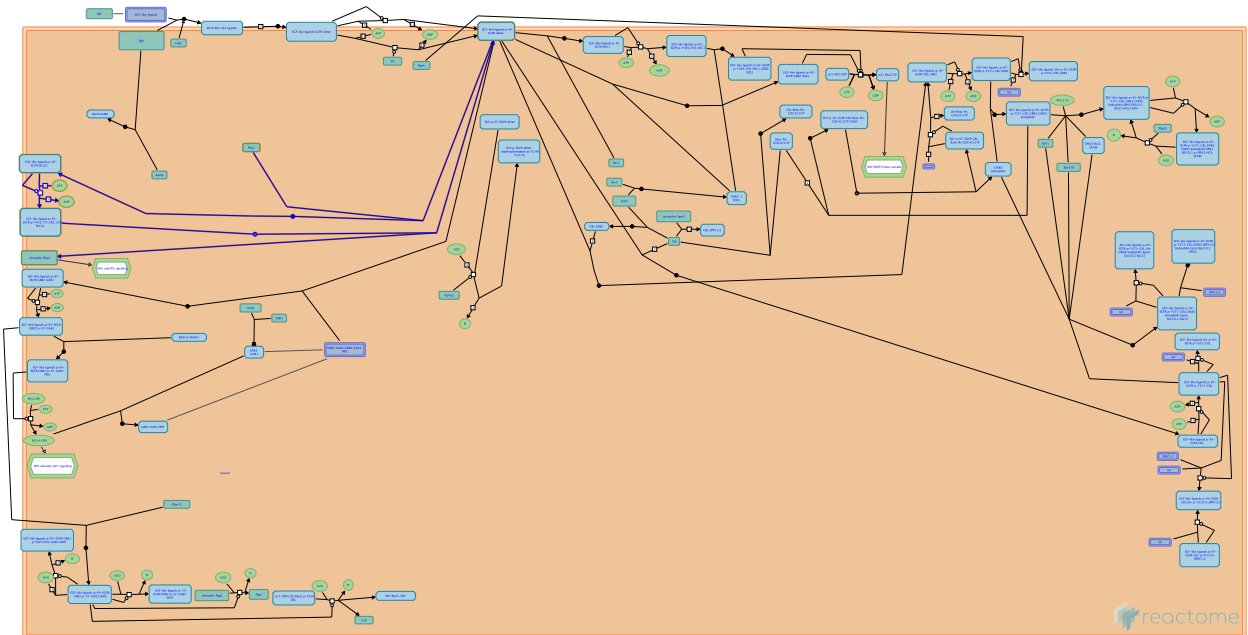


EGFR interacts with phospholipase C- gamma



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.

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Literature references

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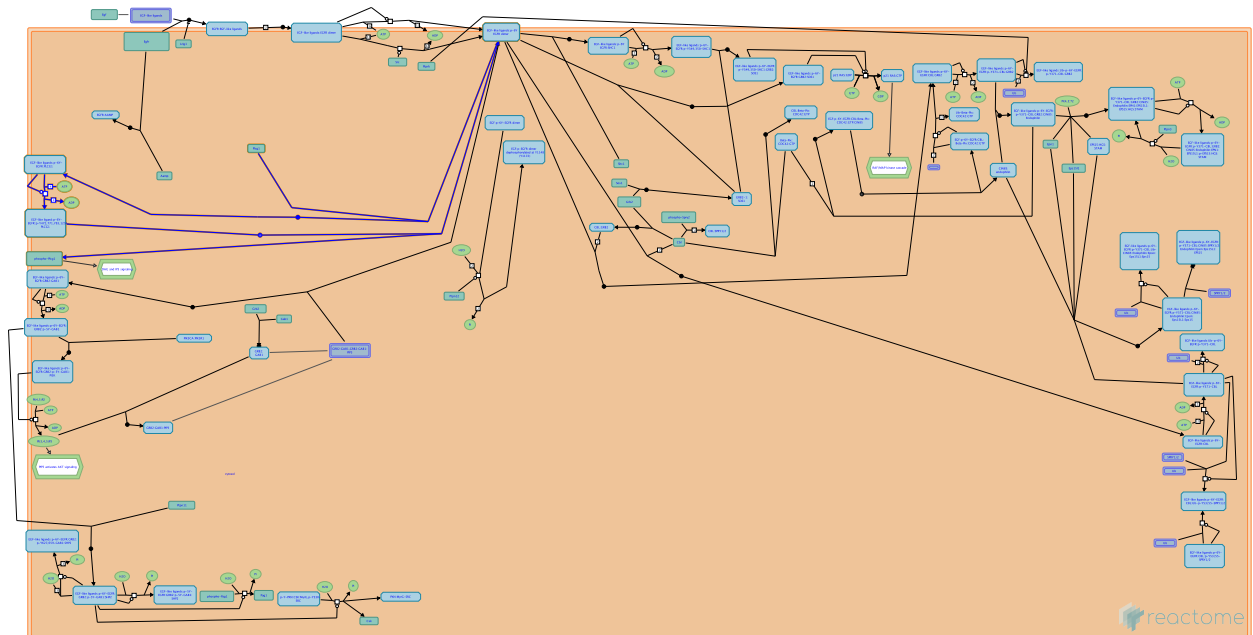
Reactome database release: 77

This document contains 1 pathway and 3 reactions ([see Table of Contents](#))

EGFR interacts with phospholipase C-gamma ↗

Stable identifier: R-RNO-212718

Inferred from: EGFR interacts with phospholipase C-gamma (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>

Phospholipase C-gamma1 binds to the activated EGF receptor ↗

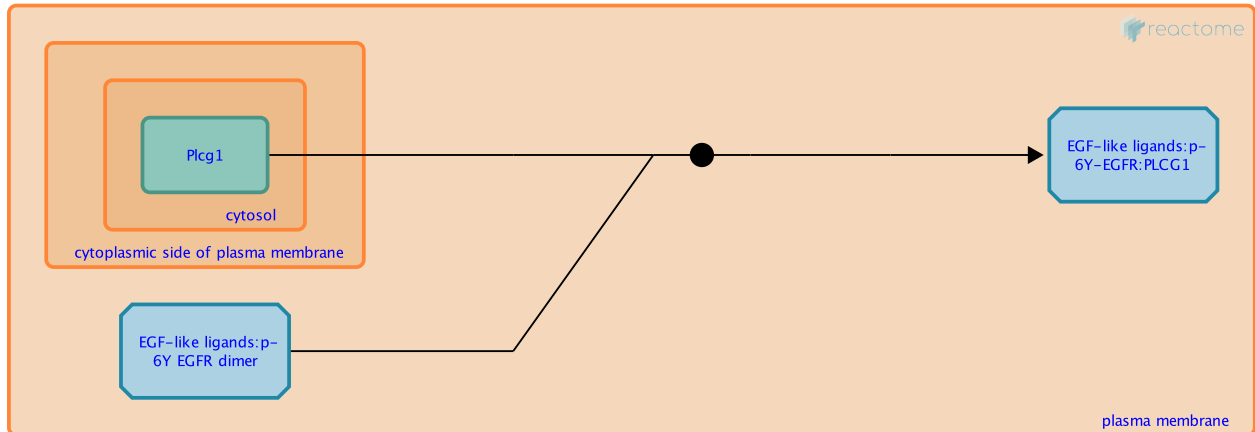
Location: [EGFR interacts with phospholipase C-gamma](#)

Stable identifier: R-RNO-212706

Type: binding

Compartments: plasma membrane, cytosol, extracellular region

Inferred from: [Phospholipase C-gamma1 binds to the activated EGF receptor \(Homo sapiens\)](#)



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: [EGFR activates PLC-gamma1 by phosphorylation](#)

EGFR activates PLC-gamma1 by phosphorylation ↗

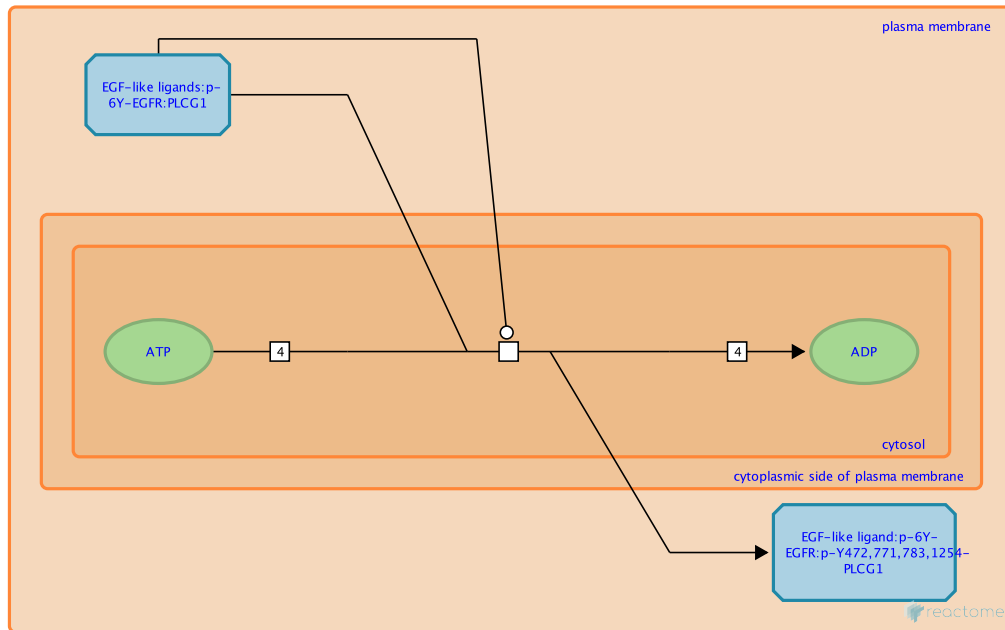
Location: EGFR interacts with phospholipase C-gamma

Stable identifier: R-RNO-212710

Type: transition

Compartments: cytosol, plasma membrane, extracellular region

Inferred from: EGFR activates PLC-gamma1 by phosphorylation (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: Phospholipase C-gamma1 binds to the activated EGF receptor

Followed by: Active PLC-gamma1 dissociates from EGFR

Active PLC-gamma1 dissociates from EGFR ↗

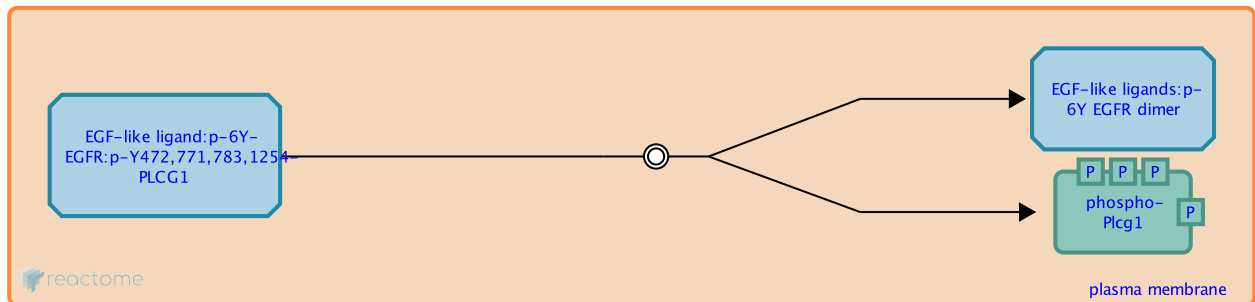
Location: EGFR interacts with phospholipase C-gamma

Stable identifier: R-RNO-212713

Type: dissociation

Compartments: plasma membrane, extracellular region

Inferred from: Active PLC-gamma1 dissociates from EGFR (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: EGFR activates PLC-gamma1 by phosphorylation

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