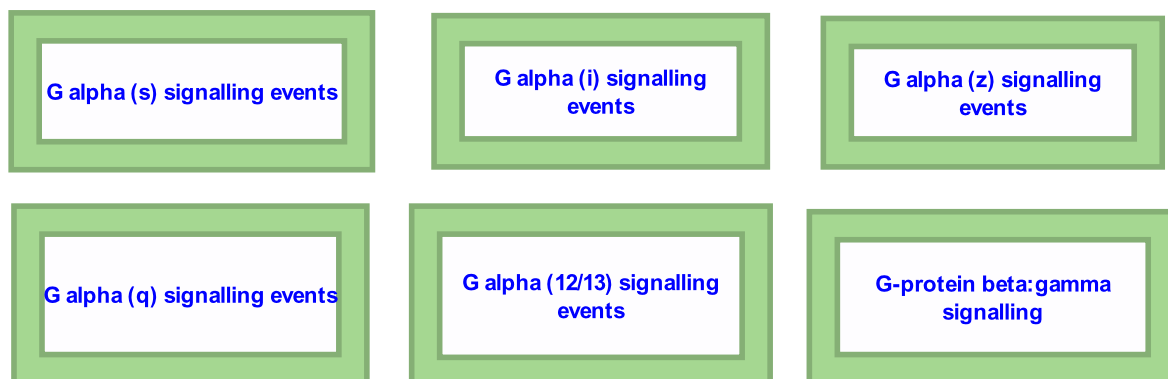


GPCR downstream signalling



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: 70

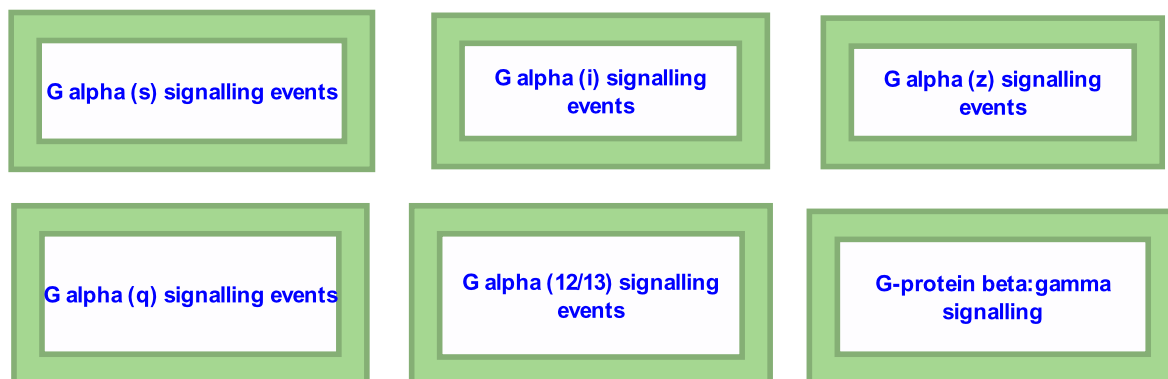
This document contains 7 pathways ([see Table of Contents](#))

GPCR downstream signalling [↗](#)

Stable identifier: R-GGA-388396

Compartments: plasma membrane

Inferred from: [GPCR downstream signalling \(Homo sapiens\)](#)



 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>

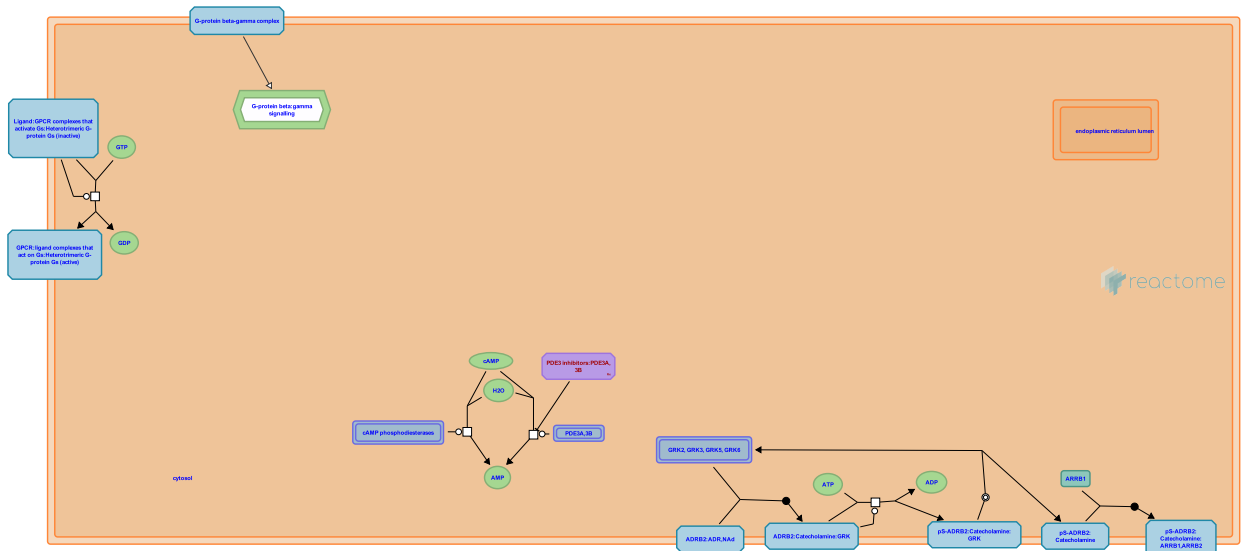
G alpha (s) signalling events ↗

Location: GPCR downstream signalling

Stable identifier: R-GGA-418555

Compartments: plasma membrane

Inferred from: G alpha (s) signalling events (Homo sapiens)



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

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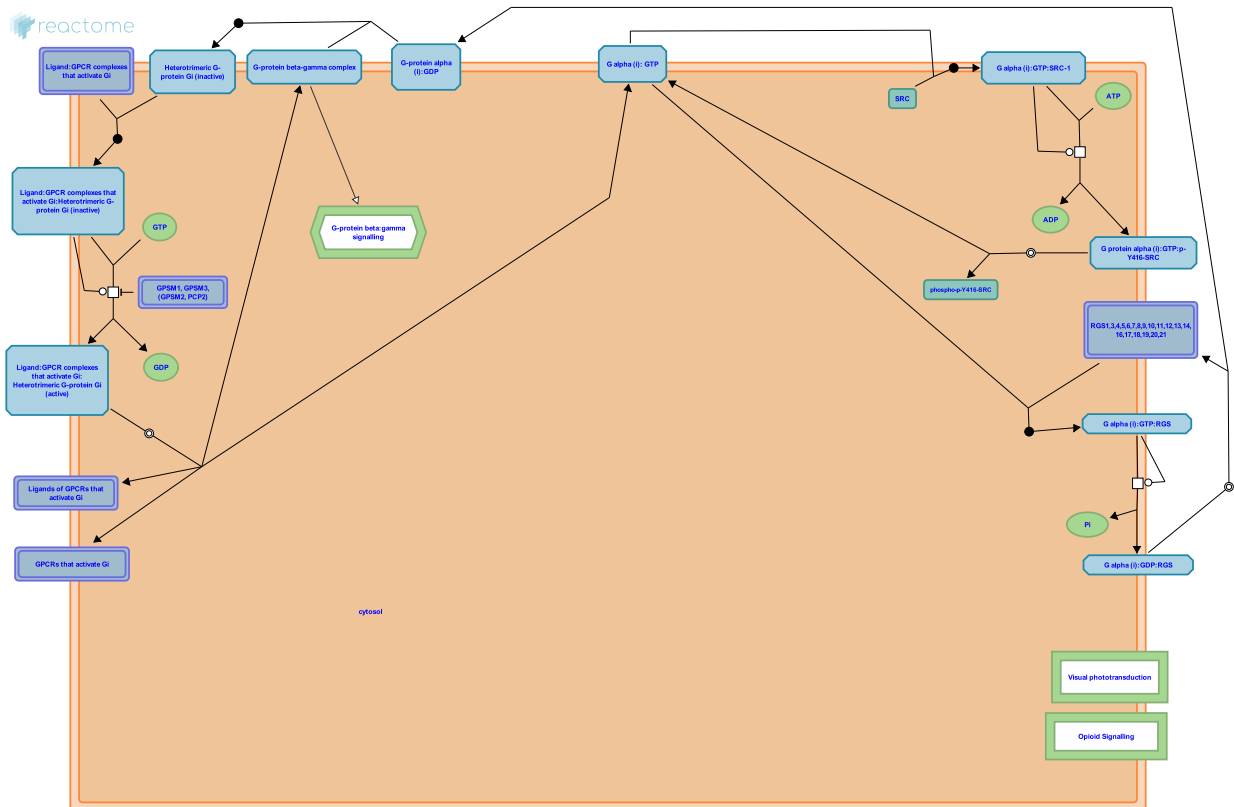
G alpha (i) signalling events ↗

Location: GPCR downstream signalling

Stable identifier: R-GGA-418594

Compartments: plasma membrane

Inferred from: G alpha (i) signalling events (Homo sapiens)



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

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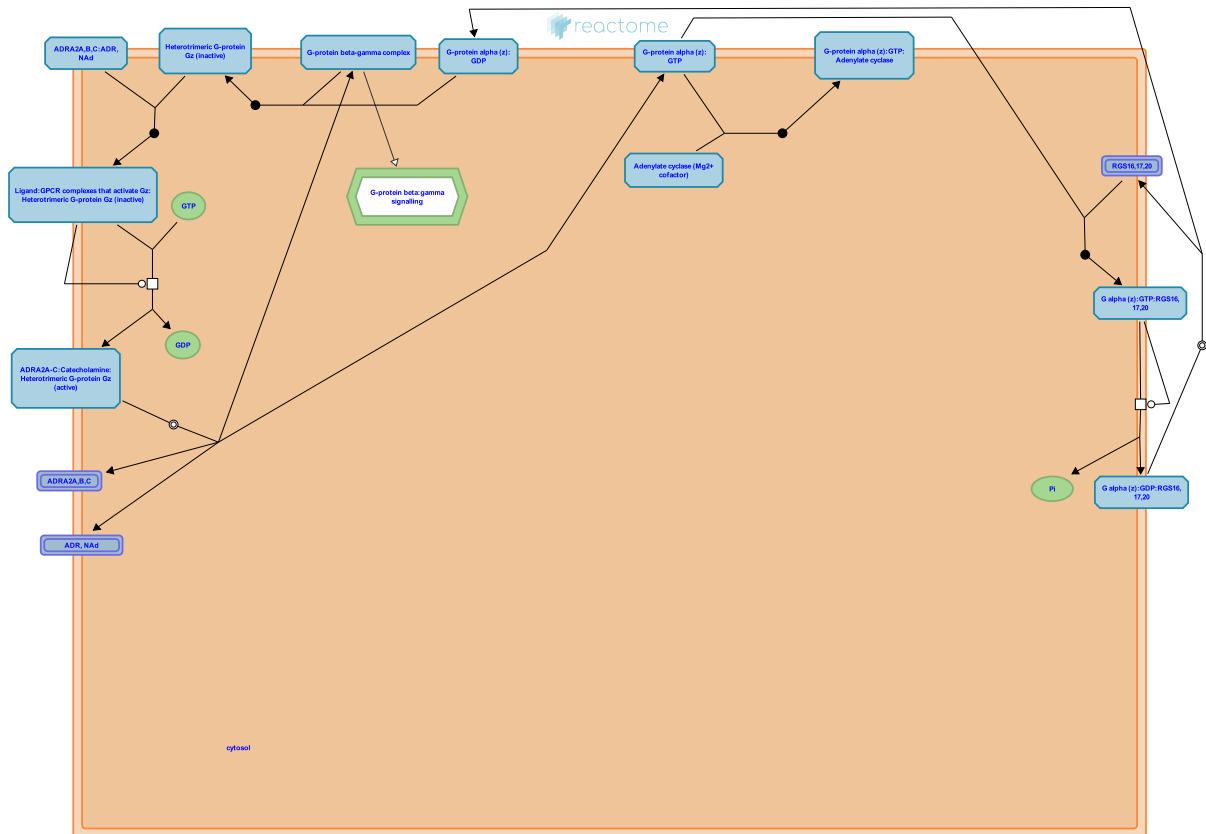
G alpha (z) signalling events ↗

Location: GPCR downstream signalling

Stable identifier: R-GGA-418597

Compartments: plasma membrane

Inferred from: G alpha (z) signalling 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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

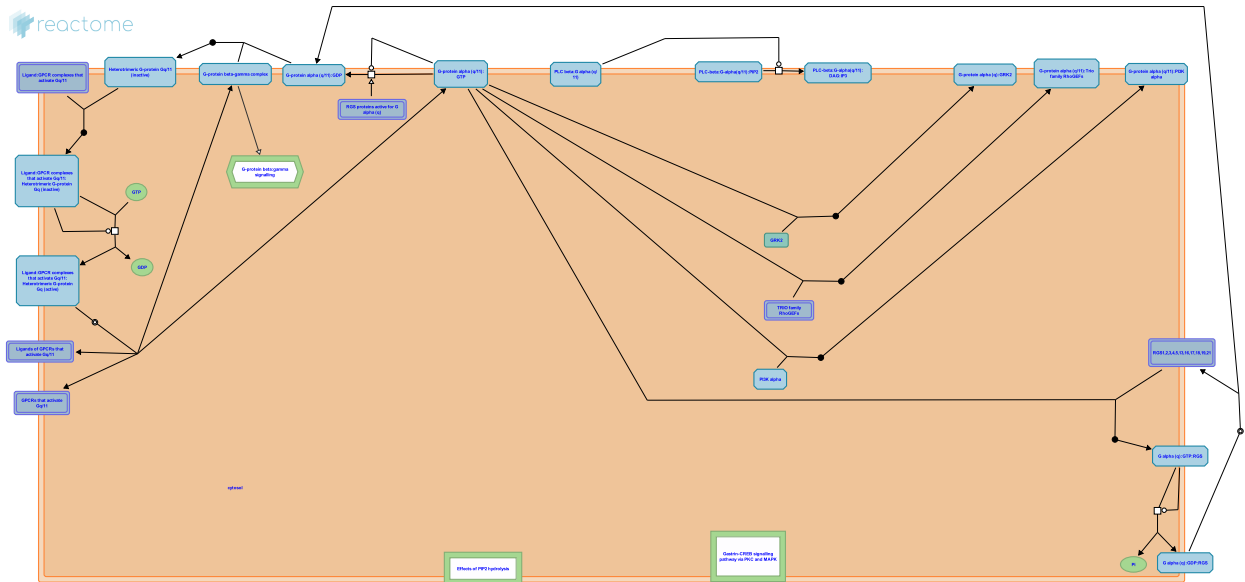
G alpha (q) signalling events ↗

Location: GPCR downstream signalling

Stable identifier: R-GGA-416476

Compartments: plasma membrane

Inferred from: G alpha (q) signalling 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.

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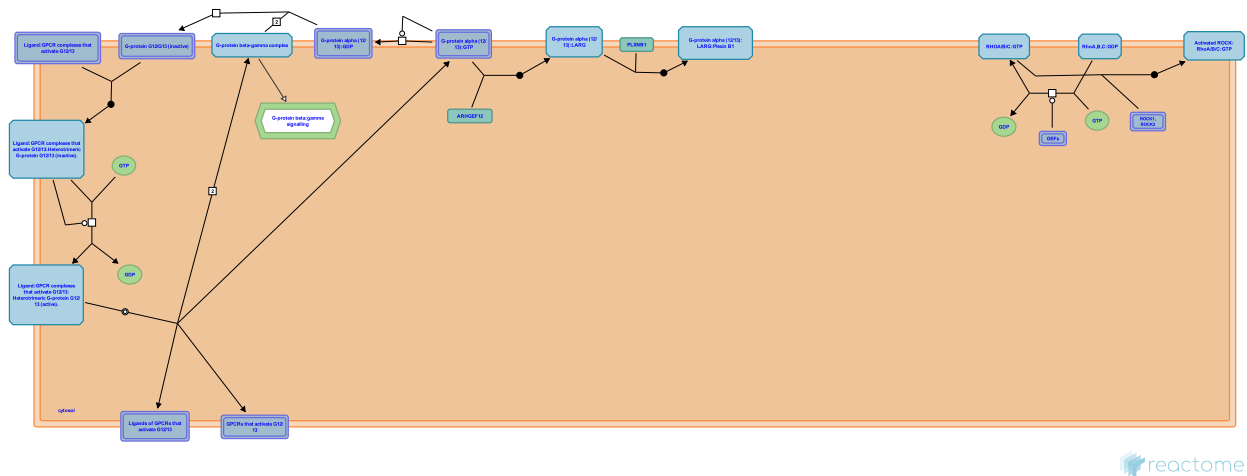
G alpha (12/13) signalling events ↗

Location: GPCR downstream signalling

Stable identifier: R-GGA-416482

Compartments: cytoplasmic side of plasma membrane

Inferred from: G alpha (12/13) signalling 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.

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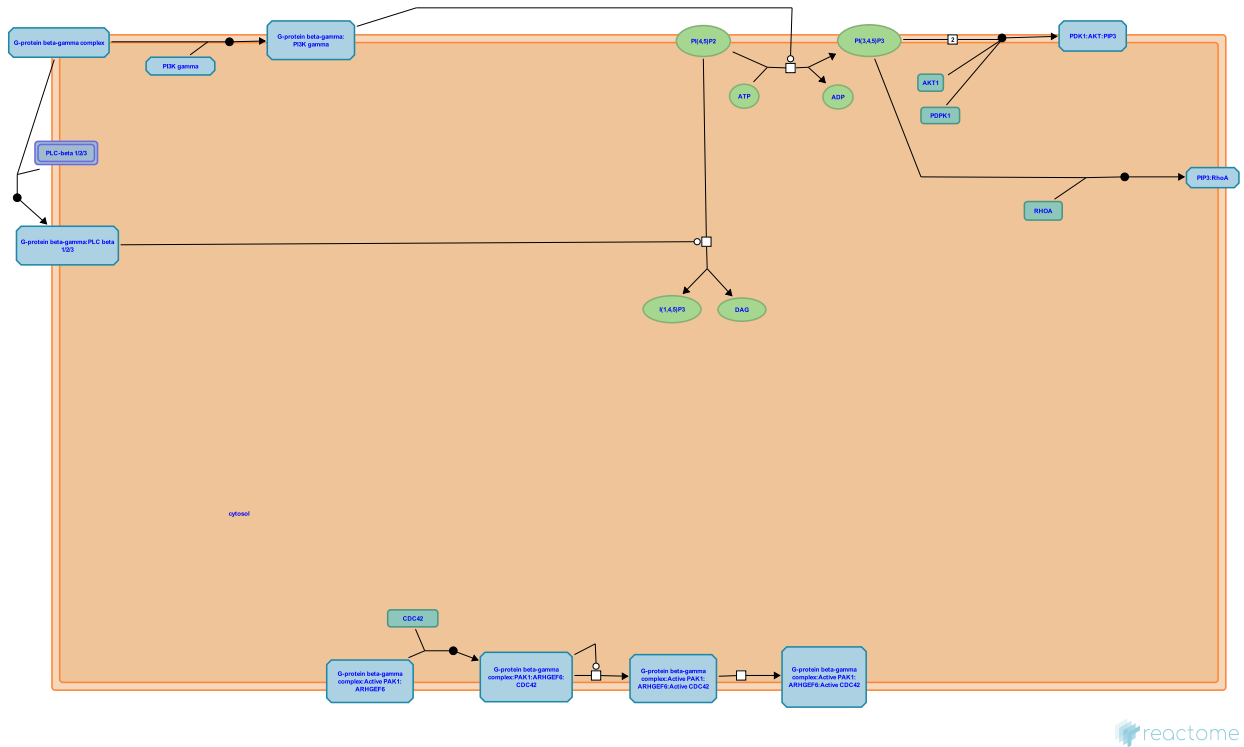
G-protein beta:gamma signalling ↗

Location: GPCR downstream signalling

Stable identifier: R-GGA-397795

Compartments: plasma membrane

Inferred from: G-protein beta:gamma signalling (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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