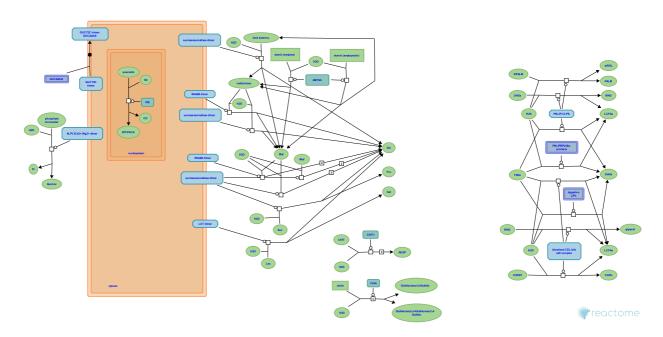


# Digestion



European Bioinformatics Institute, New York University Langone Medical Center, Ontario Institute for Cancer Research, Oregon Health and Science University.

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This is just an excerpt of a full-length report for this pathway. To access the complete report, please download it at the <a href="Reactome-Textbook">Reactome-Textbook</a>.

21/05/2024

#### 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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- Fabregat, A., Jupe, S., Matthews, L., Sidiropoulos, K., Gillespie, M., Garapati, P. et al. (2018). The Reactome Pathway Knowledgebase. *Nucleic Acids Res*, 46, D649-D655.
- Fabregat, A., Korninger, F., Viteri, G., Sidiropoulos, K., Marin-Garcia, P., Ping, P. et al. (2018). Reactome graph data-base: Efficient access to complex pathway data. *PLoS computational biology, 14*, e1005968.

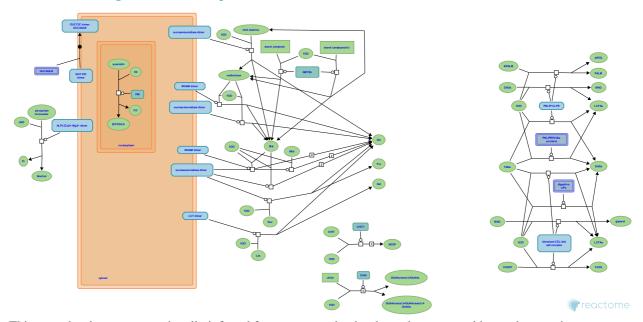
Reactome database release: 88

This document contains 3 pathways and 3 reactions (see Table of Contents)

## **Digestion**

Stable identifier: R-MMU-8935690

**Inferred from:** Digestion (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: <a href="http://www.pantherdb.org/about.jsp">http://www.pantherdb.org/about.jsp</a>

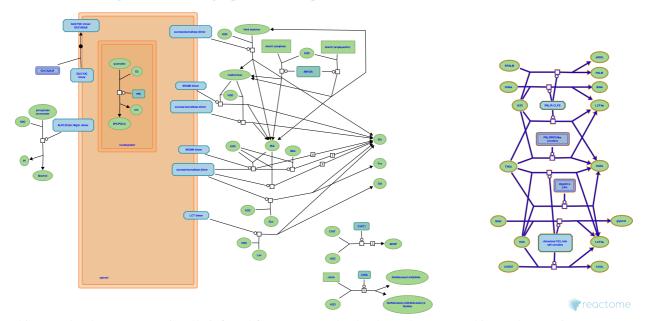
## Digestion of dietary lipid **₹**

**Location:** Digestion

Stable identifier: R-MMU-192456

Compartments: extracellular region

**Inferred from:** Digestion of dietary lipid (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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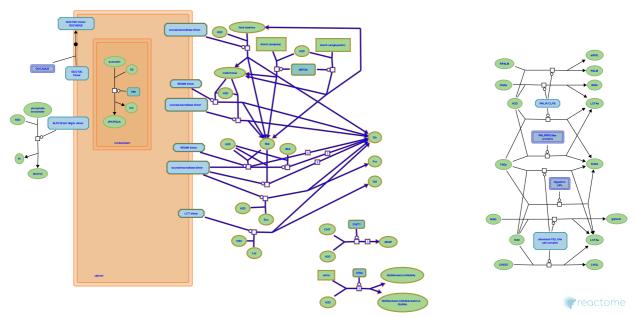
## Digestion of dietary carbohydrate **→**

**Location:** Digestion

Stable identifier: R-MMU-189085

Compartments: plasma membrane, extracellular region

**Inferred from:** Digestion of dietary carbohydrate (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: <a href="http://www.pantherdb.org/about.jsp">http://www.pantherdb.org/about.jsp</a>

#### ALPI dimer hydrolyses phosphate monoesters 7

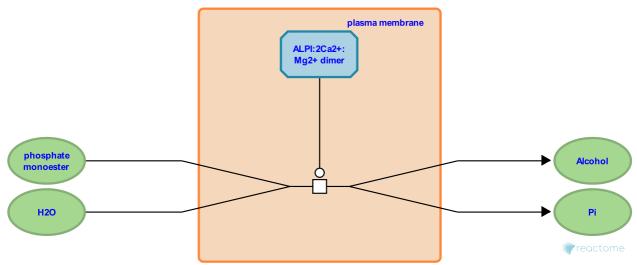
**Location:** Digestion

Stable identifier: R-MMU-8878787

**Type:** transition

Compartments: plasma membrane, extracellular region

**Inferred from:** ALPI dimer hydrolyses phosphate monoesters (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: <a href="http://www.pantherdb.org/about.jsp">http://www.pantherdb.org/about.jsp</a>

## **GUCY2C trimer binds GUCA2A,B 对**

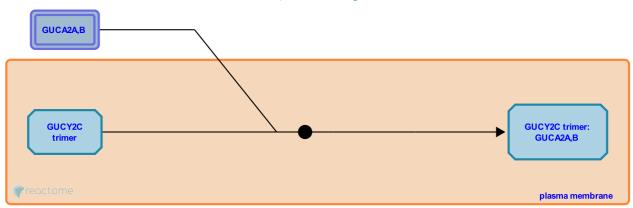
**Location:** Digestion

Stable identifier: R-MMU-8936214

Type: binding

Compartments: plasma membrane, extracellular region

**Inferred from:** GUCY2C trimer binds GUCA2A,B (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: <a href="http://www.pantherdb.org/about.jsp">http://www.pantherdb.org/about.jsp</a>

https://reactome.org Page 7

## PIR oxygenates quercetin **对**

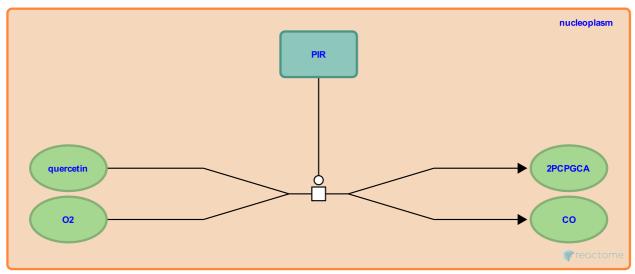
**Location:** Digestion

Stable identifier: R-MMU-8953398

Type: transition

Compartments: nucleoplasm

Inferred from: PIR oxygenates quercetin (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: <a href="http://www.pantherdb.org/about.jsp">http://www.pantherdb.org/about.jsp</a>

https://reactome.org Page 8

# **Table of Contents**

Introduction	1
Togestion	2
Digestion of dietary lipid	3
Digestion of dietary carbohydrate	4
→ ALPI dimer hydrolyses phosphate monoesters	5
→ GUCY2C trimer binds GUCA2A,B	6
→ PIR oxygenates quercetin	7
Table of Contents	8