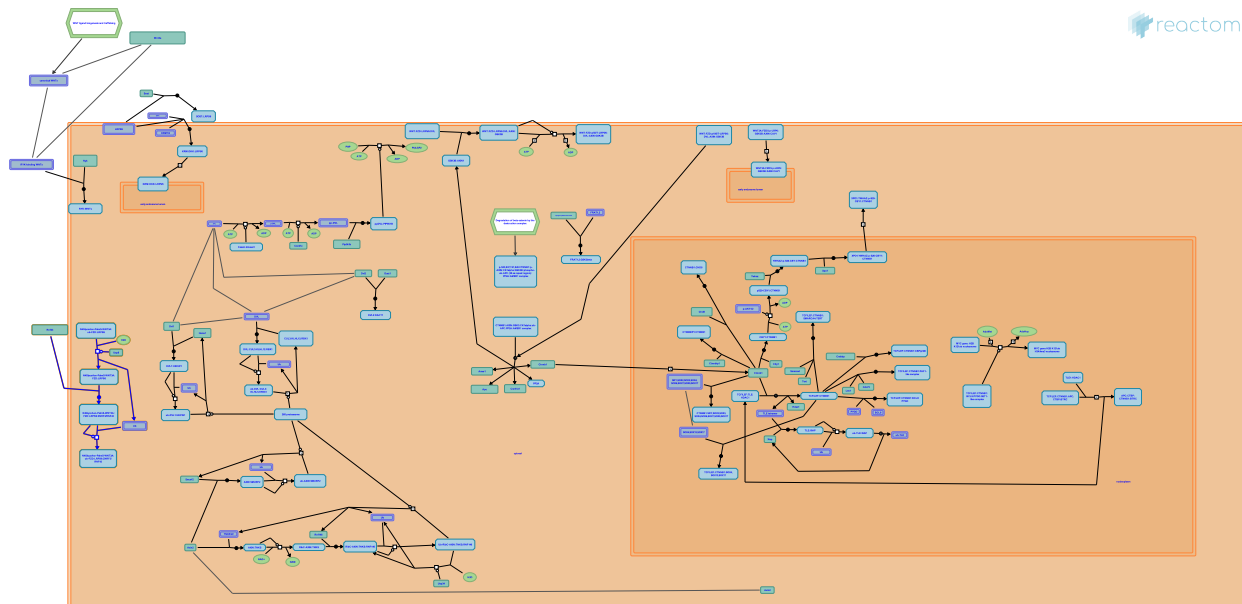


Regulation of FZD by ubiquitination



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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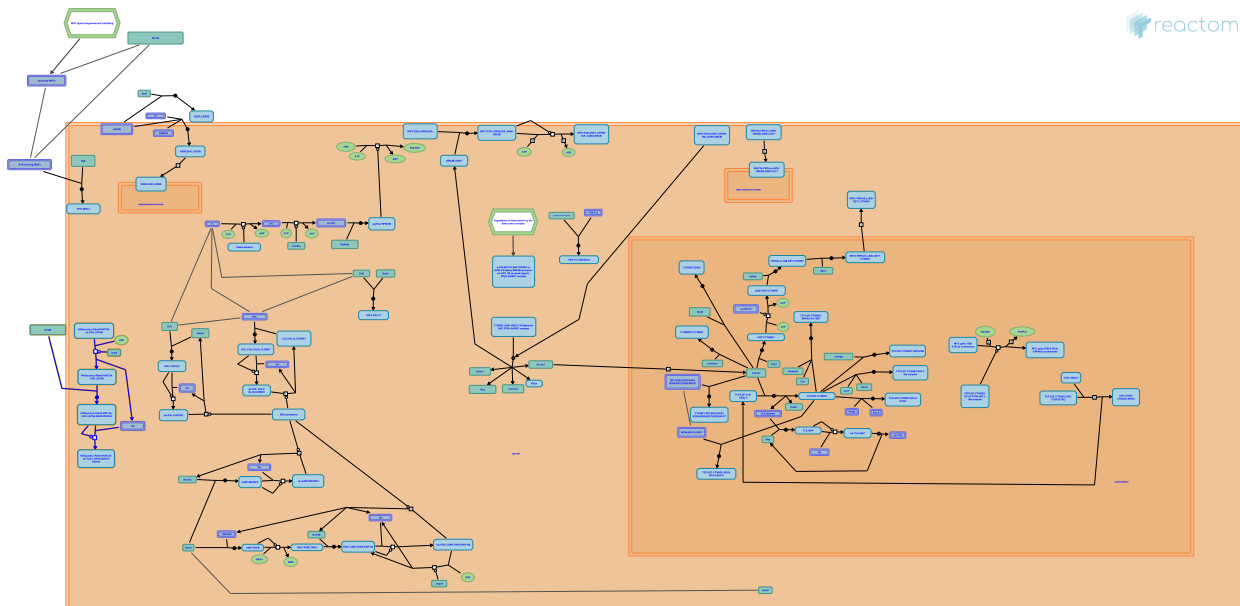
Reactome database release: 75

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

Regulation of FZD by ubiquitination ↗

Stable identifier: R-RNO-4641263

Inferred from: [Regulation of FZD by ubiquitination \(Homo sapiens\)](#)



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>

ZNRF3,RNF43 binds the FZD:LRP5/6 receptor complex ↗

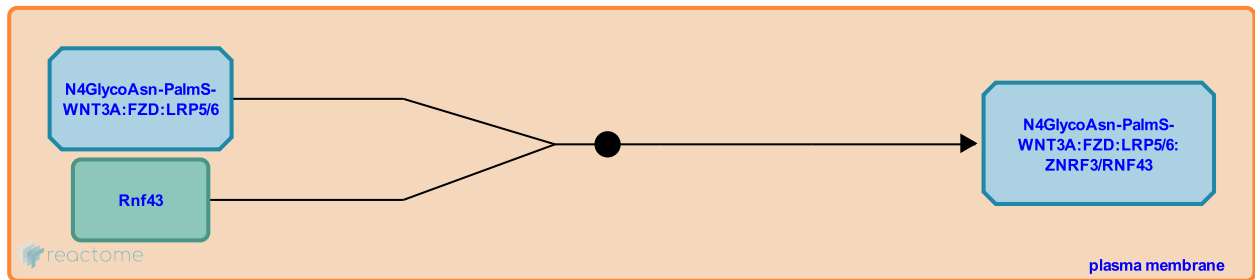
Location: [Regulation of FZD by ubiquitination](#)

Stable identifier: R-RNO-4641249

Type: binding

Compartments: plasma membrane

Inferred from: [ZNRF3,RNF43 binds the FZD:LRP5/6 receptor complex \(Homo sapiens\)](#)



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: [ZNRF3 ubiquitinates FZD to promote its downregulation](#)

ZNRF3 ubiquitinates FZD to promote its downregulation ↗

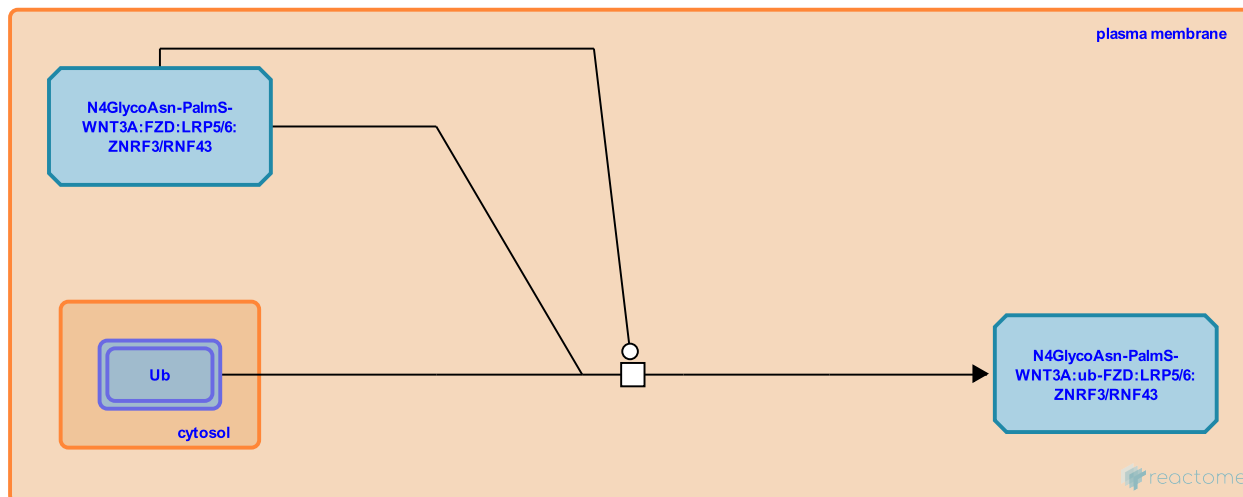
Location: [Regulation of FZD by ubiquitination](#)

Stable identifier: R-RNO-4641253

Type: transition

Compartments: plasma membrane

Inferred from: [ZNRF3 ubiquitinates FZD to promote its downregulation \(Homo sapiens\)](#)



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: [ZNRF3,RNF43 binds the FZD:LRP5/6 receptor complex](#)

Followed by: [USP8 deubiquitinates FZD to potentiate WNT signaling](#)

USP8 deubiquitinates FZD to potentiate WNT signaling ↗

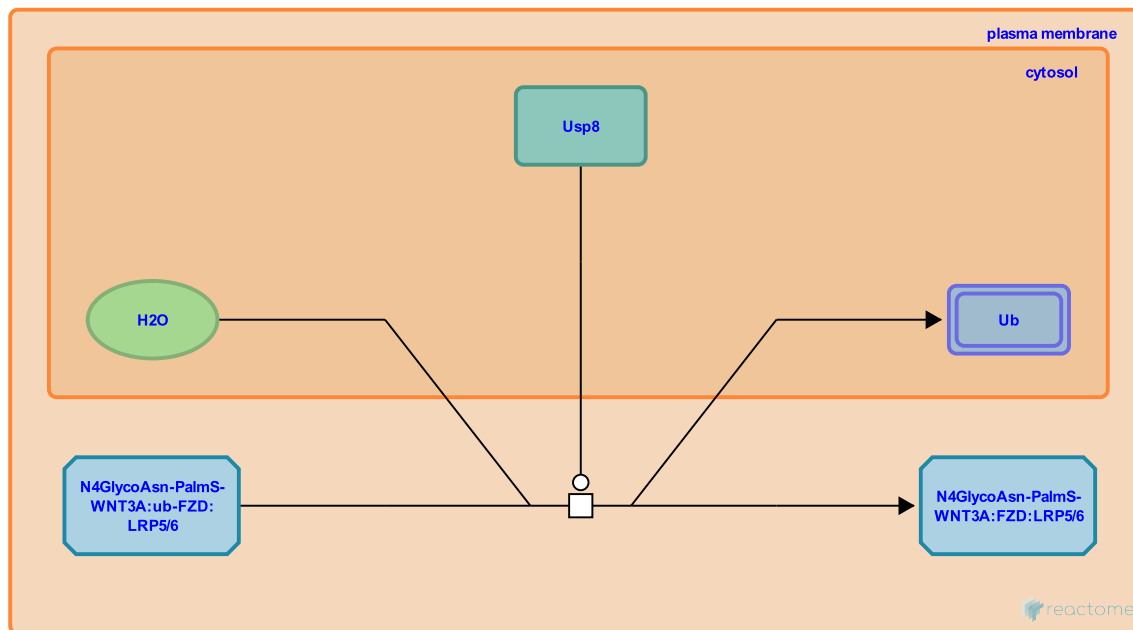
Location: [Regulation of FZD by ubiquitination](#)

Stable identifier: R-RNO-4641236

Type: transition

Compartments: plasma membrane, cytosol, extracellular region

Inferred from: [USP8 deubiquitinates FZD to potentiate WNT signaling \(Homo sapiens\)](#)



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: [ZNR3 ubiquitinates FZD to promote its downregulation](#)

Table of Contents

Introduction	1
⚡ Regulation of FZD by ubiquitination	2
↳ ZNRF3,RNF43 binds the FZD:LRP5/6 receptor complex	3
↳ ZNRF3 ubiquitinates FZD to promote its downregulation	4
↳ USP8 deubiquitinates FZD to potentiate WNT signaling	5
Table of Contents	6