

PI(3,5)P₂ is dephosphorylated to PI5P by MTMR2:SBF1

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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: 74

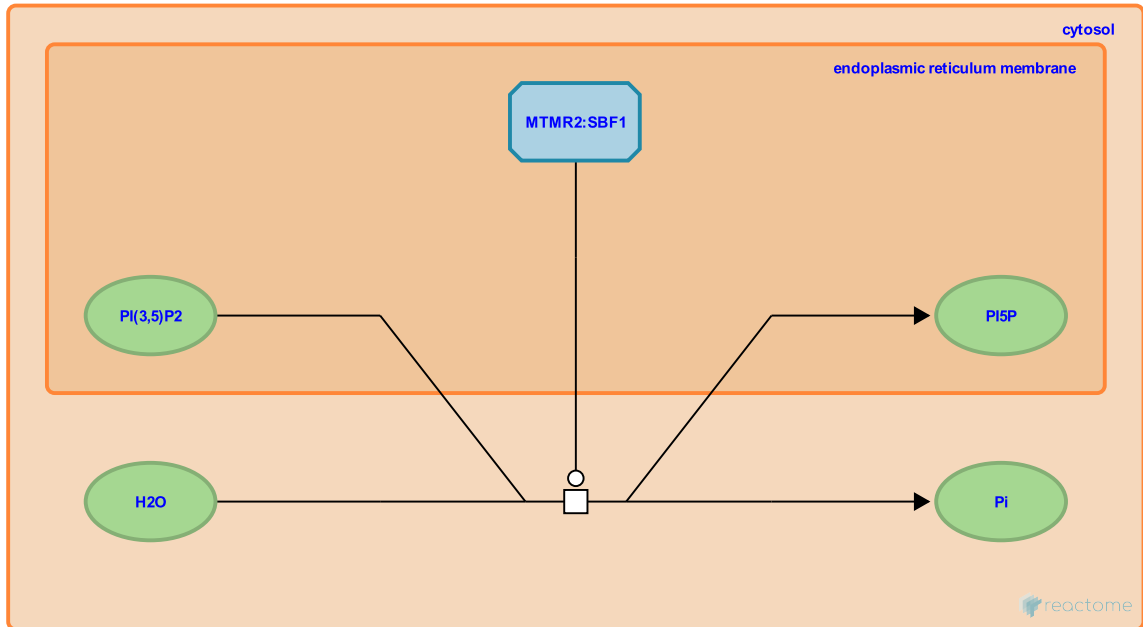
This document contains 1 reaction ([see Table of Contents](#))

PI(3,5)P2 is dephosphorylated to PI5P by MTMR2:SBF1 ↗

Stable identifier: R-HSA-6809778

Type: transition

Compartments: cytosol, endoplasmic reticulum membrane



Formation of the complex with SBF1 (MTMR5) increases phosphatidylinositol-3,5-bisphosphate 3-phosphatase activity of MTMR2 (Kim et al. 2003). SBF1 promotes perinuclear localization of MTMR2 (Kim et al. 2003), presumably to the endoplasmic reticulum(ER) membrane, as both proteins can localize to the ER membrane (Berger et al. 2003, Li et al. 2014).

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Editions

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