

# Mitochondrial intermembrane PRIN9 translocates to mitochondrial matrix

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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: 88

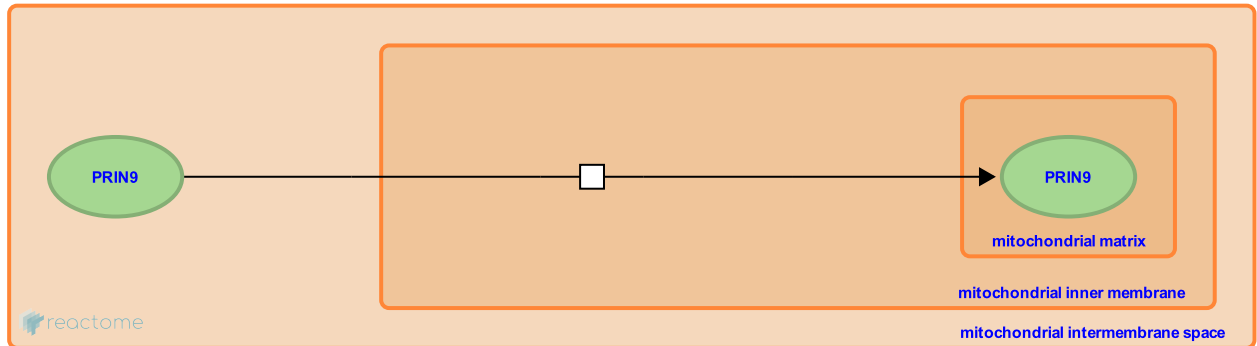
This document contains 1 reaction ([see Table of Contents](#))

## Mitochondrial intermembrane PRIN9 translocates to mitochondrial matrix [↗](#)

**Stable identifier:** R-HSA-189457

**Type:** transition

**Compartments:** mitochondrial inner membrane



Protoporphyrin IX (PRIN9) is transported into the mitochondrial matrix where it becomes available for the last step in the heme biosynthetic pathway. The transporter that mediates this event is unknown (Krishnamurthy et al. 2006).

### Literature references

Sosa-Pineda, B., Sampath, J., Fukuda, Y., Sun, D., Murti, KG., Krishnamurthy, PC. et al. (2006). Identification of a mammalian mitochondrial porphyrin transporter. *Nature*, 443, 586-9. [↗](#)

### Editions

2007-01-24	Authored, Edited	Jassal, B., D'Eustachio, P.
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