

# PI3K produces PIP3 and other phosphatidyl inositides

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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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- Sidiropoulos, K., Viteri, G., Sevilla, C., Jupe, S., Webber, M., Orlic-Milacic, M. et al. (2017). Reactome enhanced pathway visualization. *Bioinformatics*, 33, 3461-3467. [↗](#)
- 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 database: Efficient access to complex pathway data. *PLoS computational biology*, 14, e1005968. [↗](#)

Reactome database release: 88

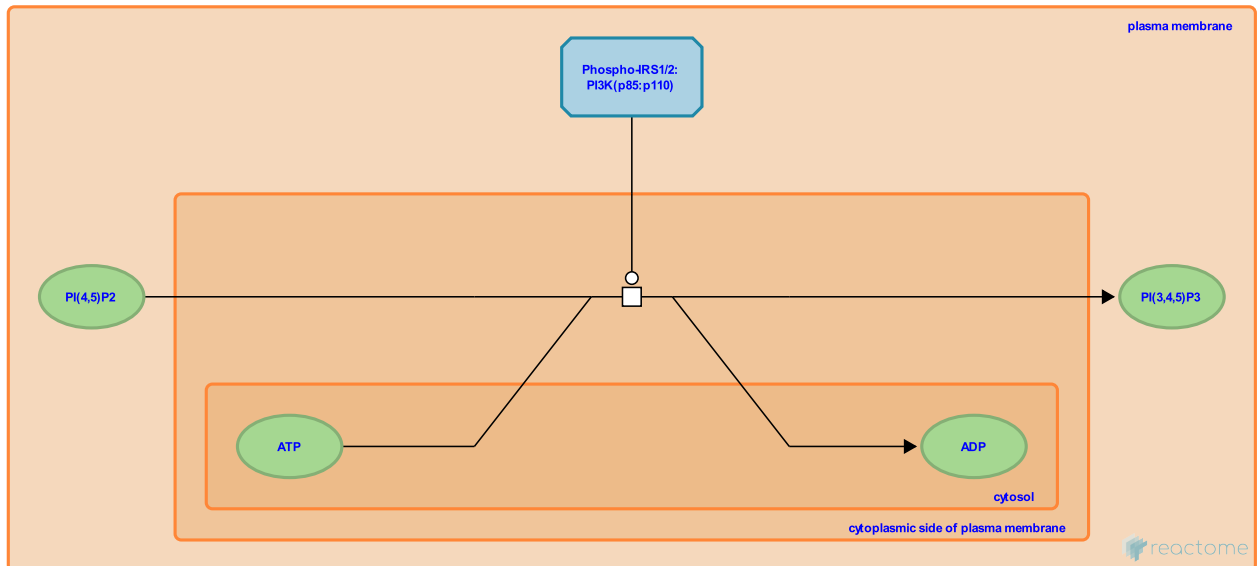
This document contains 1 reaction ([see Table of Contents](#))

## PI3K produces PIP3 and other phosphatidyl inositides ↗

**Stable identifier:** R-HSA-198266

**Type:** transition

**Compartments:** cytoplasmic side of plasma membrane



PI3-kinase phosphorylates several phosphatidyl-inositides (phospholipids) at the plasma membrane: the most relevant is PtdIns(3,4,5)P3, also named PIP3.

### Literature references

Woodgett, JR., Scheid, MP., Marignani, PA. (2002). Multiple phosphoinositide 3-kinase-dependent steps in activation of protein kinase B. *Mol Cell Biol*, 22, 6247-60. ↗

### Editions

2006-10-10	Authored	Annibali, D., Nasi, S.
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