

# PDX1-dependent synthesis of NR5A2 protein

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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

Fabregat, A., Sidiropoulos, K., Viteri, G., Forner, O., Marin-Garcia, P., Arnau, V. et al. (2017). Reactome pathway analysis: a high-performance in-memory approach. *BMC bioinformatics*, 18, 142. [↗](#)

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: 90

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

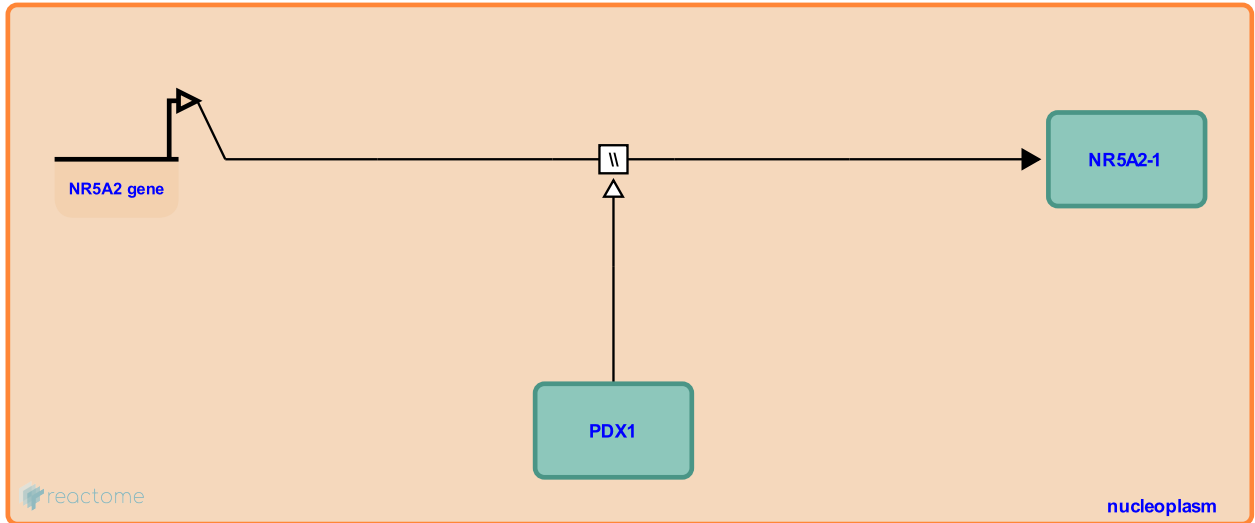
**PDX1-dependent synthesis of NR5A2 protein** ↗

**Stable identifier:** R-HSA-210773

**Type:** omitted

**Compartments:** nucleoplasm

**Inferred from:** [PDX1 transactivates Lrh1 \(Mus musculus\)](#)



The NR5A2 gene is transcribed, its mRNA is translated, and the protein product is transported to the nucleus. NR5A2 transcription requires the activity of the PDX1 transcription factor. These events and interactions have not been studied *in vivo* in humans, but are inferred from corresponding ones worked out in the mouse and from *in vitro* studies of PDX1 protein binding to the Nr5A2 gene (Annicotte et al. 2003).

**Editions**

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