

POU5F1 (OCT4), SOX2, NANOG bind

DPPA4 gene

May, B.

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.

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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. [↗](#)
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- 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

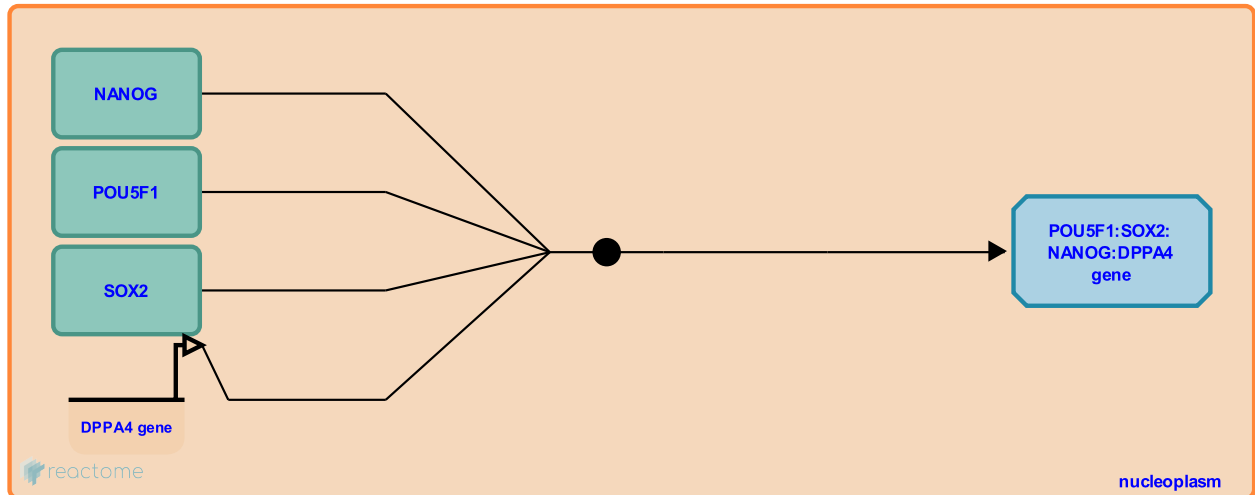
This document contains 1 reaction ([see Table of Contents](#))

POU5F1 (OCT4), SOX2, NANOG bind DPPA4 gene [↗](#)

Stable identifier: R-HSA-6800120

Type: binding

Compartments: nucleoplasm



POU5F1, SOX2, and NANOG bind the promoter of the DPPA4 gene and activate transcription of DPPA4 (Player et al. 2006, Boyer et al. 2007).

Literature references

Gifford, DK., Jaenisch, R., Lee, TI., Young, RA., Kumar, RM., Guenther, MG. et al. (2005). Core transcriptional regulatory circuitry in human embryonic stem cells. *Cell*, 122, 947-56. [↗](#)

Player, A., Rao, M., Puri, RK., Wang, Y., Kawasaki, ES., Bhattacharya, B. (2006). Comparisons between transcriptional regulation and RNA expression in human embryonic stem cell lines. *Stem Cells Dev*, 15, 315-23. [↗](#)

Editions

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