

glucose [extracellular] \rightleftharpoons glucose [cytosol]

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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: 89

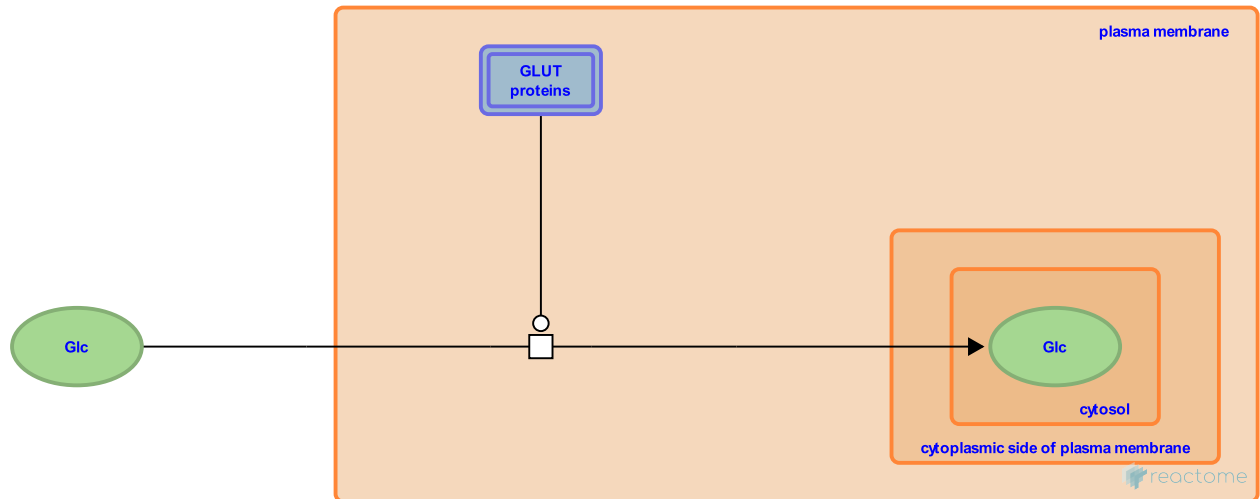
This document contains 1 reaction ([see Table of Contents](#))

glucose [extracellular] <=> glucose [cytosol] ↗

Stable identifier: R-GGA-352864

Type: transition

Compartments: cytosol, plasma membrane, extracellular region



Glucose enters cells by facilitated diffusion across the plasma membrane, mediated by members of the GLUT (SLC2A) family of transport proteins. This process is reversible. Three such proteins have been identified to date in chickens (Mathew et al. 1994; Wagstaff et al. 1995; Wang et al. 1994).

Literature references

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Editions

2008-09-10	Authored, Edited	D'Eustachio, P.
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