

TUFM binds GTP displacing TSFM

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05/05/2024

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.

The development of Reactome is supported by grants from the US National Institutes of Health (P41 HG003751), University of Toronto (CFREF Medicine by Design), European Union (EU STRP, EMI-CD), and the European Molecular Biology Laboratory (EBI Industry program).

Literature references

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Reactome database release: 88

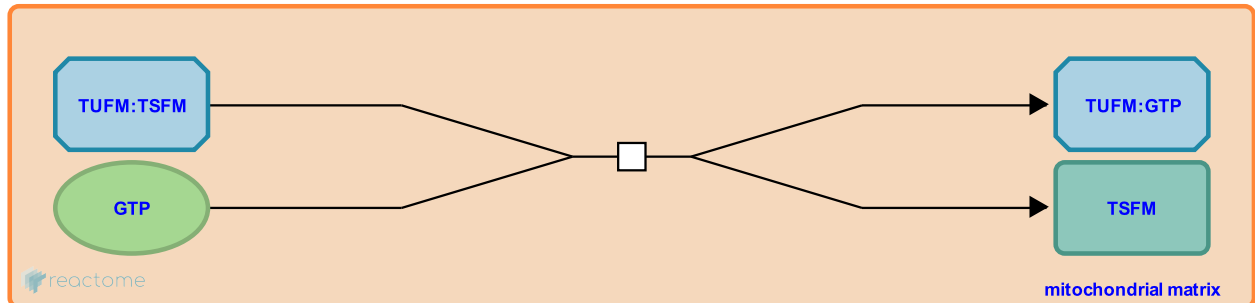
This document contains 1 reaction ([see Table of Contents](#))

TUFM binds GTP displacing TSFM [↗](#)

Stable identifier: R-BTA-5432551

Type: transition

Compartments: mitochondrial matrix



TSFM (EF-Ts, EF-TsMt) acts as a guanine nucleotide exchange factor for TUFM (EF-Tu) to regenerate TUFM:GTP from TUFM:GDP. In the second step of the process TUFM in the TUFM:TSFM complex binds GTP and TSFM is released, yielding TUFM:GTP and TSFM (Kumazawa et al. 1991, Schwartzbach and Spremulli 1991, Cai et al. 2000).

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Editions

2014-05-09	Authored, Edited	May, B.
2014-08-29	Reviewed	Chrzanowska-Lightowlers, ZM.
2014-09-20	Reviewed	Spremluli, LL.