

Mtf1 dimer:12Zn²⁺ binds Csrp1 gene

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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: 88

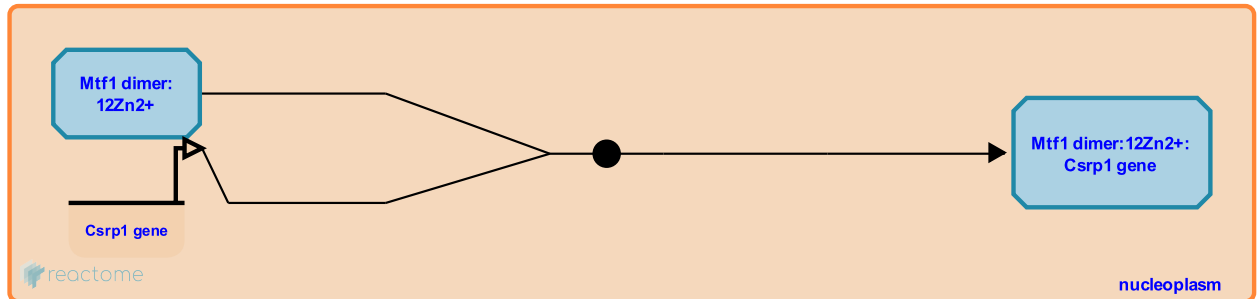
This document contains 1 reaction ([see Table of Contents](#))

Mtf1 dimer:12Zn2+ binds Csrp1 gene [↗](#)

Stable identifier: R-MMU-5660470

Type: binding

Compartments: nucleoplasm



The promoter of the Csrp1 gene contains 3 consensus metal response elements, at least one of which binds Mtf1 (Wimmer et al. 2005). Expression of Csrp1 is activated by cadmium via Mtf1.

Literature references

Georgiev, O., Wang, Y., Schaffner, W., Wimmer, U. (2005). Two major branches of anti-cadmium defense in the mouse: MTF-1/metallothioneins and glutathione. *Nucleic Acids Res.*, 33, 5715-27. [↗](#)

Editions

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