

Transport of the Mature Intronless Transcript Derived Histone mRNA:SLBP:TAP:Aly/Ref complex through the NPC

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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: 75

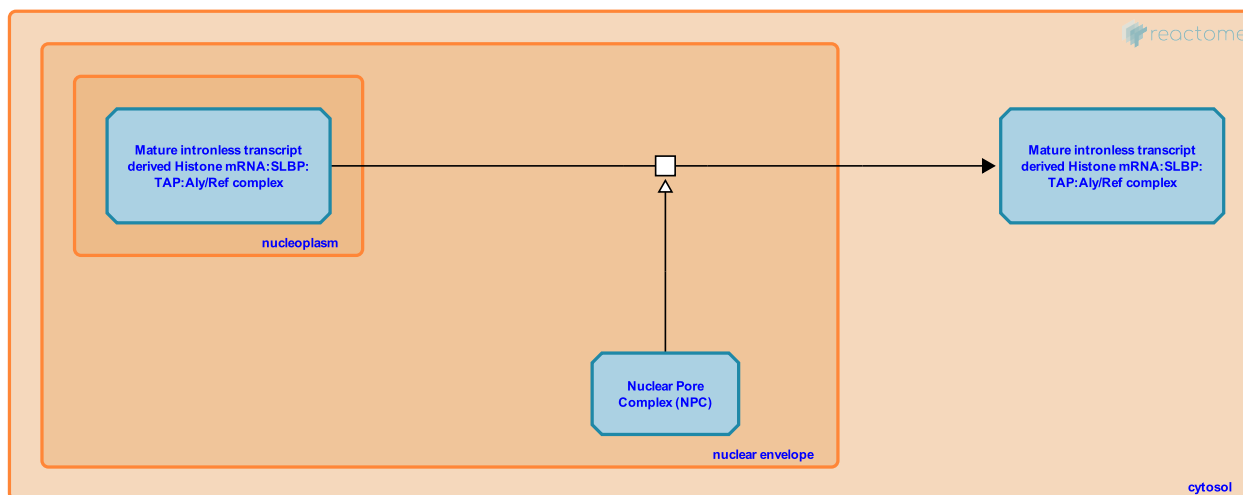
This document contains 1 reaction ([see Table of Contents](#))

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Stable identifier: R-HSA-159046

Type: transition

Compartments: nuclear envelope, cytosol, nucleoplasm



Once the transport complex is fully assembled the mature mRNA can be translocated from the nucleoplasm to the cytoplasm. The assembled complex starts at the nucleoplasmic basket, travels through the pore, and ends its journey at the cytoplasmic face of the nuclear pore complex.

Literature references

Harris, ME., Bohni, R., Schneiderman, MH., Ramamurthy, L., Schumperli, D., Marzluff, WF. (1991). Regulation of histone mRNA in the unperturbed cell cycle: evidence suggesting control at two posttranscriptional steps. *Mol Cell Biol*, 11, 2416-24. ↗

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Editions

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