

# LCMT2 methylates yW-72 yielding yW-58 at nucleotide 37 of tRNA(Phe)

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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](#))

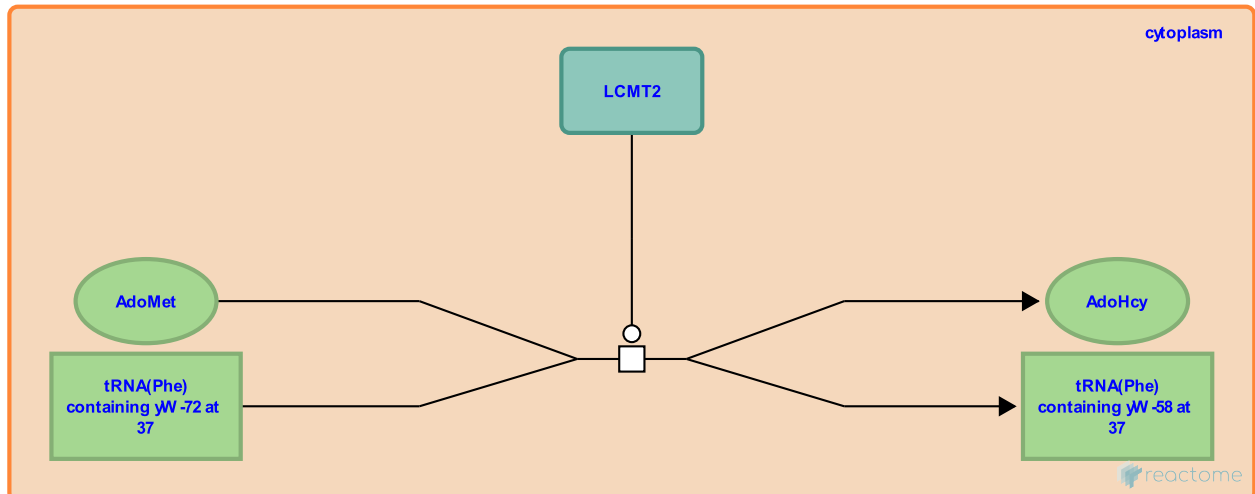
## LCMT2 methylates yW-72 yielding yW-58 at nucleotide 37 of tRNA(Phe) ↗

**Stable identifier:** R-HSA-6782881

**Type:** transition

**Compartments:** cytoplasm

**Inferred from:** PPM2 methylates yW-72 yielding yW-58 at nucleotide 37 of tRNA(Phe) (*Saccharomyces cerevisiae*)



As inferred from homologues in *Saccharomyces cerevisiae*, LCMT2 (TYW4) transfers a methyl group from S-adenosylmethionine to yW-72 (7-((3S)-3-amino-3-carboxypropyl)wyosine) at nucleotide 37 of tRNA(Phe), yielding yW-58 (7-((3S)-3-amino-3-(methoxycarbonyl)propyl)wyosine) and S-adenosylhomocysteine.

### Editions

2015-06-08	Authored, Edited	May, B.
2015-08-11	Reviewed	Levinger, L.
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2015-10-24	Reviewed	Jarrous, N.