# Recombinant Mouse Tars2 Protein, His-tagged

**Cat. No.** Tars2-2112M **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Mouse Tars2 Protein (Cys486-Phe723) with N-His tag was expressed in E. coli. |
| **Species** | Mouse |
| **Source** | E.coli |
| **ProteinLength** | Cys486-Phe723 |
| **Description** | Predicted to enable aminoacyl-tRNA editing activity; protein homodimerization activity; and threonine-tRNA ligase activity. Predicted to be involved in threonyl-tRNA aminoacylation. Predicted to act upstream of or within translation. Located in mitochondrion. Human ortholog(s) of this gene implicated in combined oxidative phosphorylation deficiency 21. Orthologous to human TARS2 (threonyl-tRNA synthetase 2, mitochondrial). |
| **Form** | Freeze-dried powder |
| **Molecular Mass** | Predicted Molecular Mass: 30.5 kDa<br>Accurate Molecular Mass: 34 kDa |
| **Purity** | > 90% |
| **Applications** | Positive Control; Immunogen; SDS-PAGE; WB. |

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| **Stability** | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| **Storage** | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months. |
| **Storage Buffer** | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300. |
| **Reconstitution** | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex. |

## GENE INFORMATION

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| **Gene Name** | Tars2 threonyl-tRNA synthetase 2, mitochondrial (putative) [ Mus musculus (house mouse) ] |
| **Official Symbol** | Tars2 |
| **Synonyms** | TARS2; threonyl-tRNA synthetase 2, mitochondrial (putative); threonine--tRNA ligase, mitochondrial; thrRS; threonyl-tRNA synthetase-like 1; threonyl-tRNA synthetase, mitochondrial; Tarsl1; AI429208; 2610024N01Rik; |
| **Gene ID** | 71807 |
| **mRNA Refseq** | NM_001163617 |
| **Protein Refseq** | NP_001157089 |

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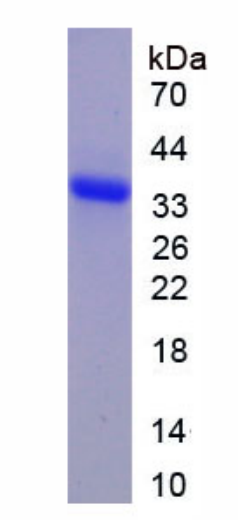
| **UniProt ID** | Q3UQ84 |

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