

## Recombinant Mouse Dars2 Protein, His-tagged

Cat. No. Dars2-1313M Lot. No. (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant Mouse Dars2 Protein (Ala390-Ser653) with N-His tag was expressed in E. coli.   |
| <b>Species</b>          | Mouse  |
| <b>Source</b>           | E.coli   |
| <b>ProteinLength</b>    | Ala390-Ser653  |
| <b>Description</b>      | Predicted to enable aspartate-tRNA ligase activity; aspartate-tRNA(Asn) ligase activity; and protein homodimerization activity. Predicted to be involved in aspartyl-tRNA aminoacylation and mitochondrial asparaginyl-tRNA aminoacylation. Predicted to act upstream of or within translation. Located in mitochondrion. Is expressed in several structures, including alimentary system; genitourinary system; integumental system; midbrain; and telencephalon. Orthologous to human DARS2 (aspartyl-tRNA synthetase 2, mitochondrial). |
| <b>Form</b>             | Freeze-dried powder  |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 29.4 kDa<br>Accurate Molecular Mass: 33 kDa  |
| <b>Purity</b>           | > 97%  |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.   |

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|-----------------------|--|
| <b>Stability</b>      | 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. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.   |
| <b>Storage Buffer</b> | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.  |
| <b>Reconstitution</b> | Reconstitute in PBS or others.   |

## GENE INFORMATION

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|------------------------|--|
| <b>Gene Name</b>       | Dars2 aspartyl-tRNA synthetase 2 (mitochondrial) [ Mus musculus (house mouse) ]  |
| <b>Official Symbol</b> | Dars2  |
| <b>Synonyms</b>        | DARS2; aspartyl-tRNA synthetase 2 (mitochondrial); aspartate--tRNA ligase, mitochondrial; aspRS; aspartyl-tRNA synthetase, mitochondrial; 5830468K18Rik; MGC99963; |
| <b>Gene ID</b>         | 226539   |
| <b>mRNA Refseq</b>     | NM_172644  |
| <b>Protein Refseq</b>  | NP_766232  |
| <b>UniProt ID</b>      | Q8BIP0   |

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