

## Recombinant Mouse Hars2 Protein, Myc/DDK-tagged

Cat. No. Hars2-3357M Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | Purified recombinant protein of mouse full-length histidyl-tRNA synthetase 2 (Hars2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                                                                                                                                                                                   |
| Species          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Source           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Description      | This gene encodes a putative member of the class II family of aminoacyl-tRNA synthetases. These enzymes play a critical role in protein biosynthesis by charging tRNAs with their cognate amino acids. This protein is encoded by the nuclear genome but is likely to be imported to the mitochondrion where it is thought to catalyze the ligation of histidine to tRNA molecules. Mutations in a similar gene in human have been associated with Perrault syndrome 2 (PRLTS2). |
| Molecular Mass   | 57 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Purity           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Stability        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                    |
| Storage          | Store at -80 centigrade after receiving vials.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Concentration    | >50 µg/mL as determined by microplate BCA method                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

**Gene Name** Hars2 histidyl-tRNA synthetase 2 [ *Mus musculus* (house mouse) ]

**Official Symbol** Hars2

**Synonyms** Hars2; histidyl-tRNA synthetase 2; H; HO; HO3; HARSR; Harsl; 4631412B19Rik; histidine--tRNA ligase, mitochondrial; hisRS; histidyl-tRNA synthetase 2, mitochondrial (putative); probable histidine--tRNA ligase, mitochondrial; probable histidyl-tRNA synthetase, mitochondrial; EC 6.1.1.21

**Gene ID** 70791

**mRNA Refseq** NM\_080636

**Protein Refseq** NP\_542367

**UniProt ID** Q99KK9

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