

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

**Cat. No.** Trmu-6669M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified recombinant protein of mouse full-length tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase (Trmu), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                         |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | Catalyzes the 2-thiolation of uridine at the wobble position (U34) of mitochondrial tRNA(Lys), tRNA(Glu) and tRNA(Gln). Required for the formation of 5-taurinomethyl-2-thiouridine (tm5s2U) of mitochondrial tRNA(Lys), tRNA(Glu), and tRNA(Gln) at the wobble position. ATP is required to activate the C2 atom of the wobble base. |
| <b>Molecular Mass</b>   | 47.2 kDa                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                           |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                         |
| <b>Storage</b>          | Store at -80 centigrade after receiving vials.                                                                                                                                                                                                                                                                                        |
| <b>Concentration</b>    | >50 µg/mL as determined by microplate BCA method                                                                                                                                                                                                                                                                                      |
| <b>Storage Buffer</b>   | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                 |

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## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Trmu tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase [ Mus musculus (house mouse) ]                                                                                                                                                    |
| <b>Official Symbol</b> | Trmu                                                                                                                                                                                                                                              |
| <b>Synonyms</b>        | Trmu; tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase; Trmt; Trmt1; AI314320; 1110005N20Rik; 1600025P05Rik; mitochondrial tRNA-specific 2-thiouridylase 1; tRNA (5-methylaminomethyl-2-thiouridylate)-methyltransferase 1; EC 2.8.1.14 |
| <b>Gene ID</b>         | 72026                                                                                                                                                                                                                                             |
| <b>mRNA Refseq</b>     | NM_028063                                                                                                                                                                                                                                         |
| <b>Protein Refseq</b>  | NP_082339                                                                                                                                                                                                                                         |
| <b>UniProt ID</b>      | Q9DAT5                                                                                                                                                                                                                                            |

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