

## Recombinant Mouse Thg1l Protein, Myc/DDK-tagged

Cat. No. Thg1l-6412M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length tRNA-histidine guanylyltransferase 1-like ( <i>S. cerevisiae</i> ) (Thg1l), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	Adds a GMP to the 5'-end of tRNA(His) after transcription and RNase P cleavage. This step is essential for proper recognition of the tRNA and for the fidelity of protein synthesis. Also functions as a guanyl-nucleotide exchange factor/GEF for the MFN1 and MFN2 mitofusins thereby regulating mitochondrial fusion. By regulating both mitochondrial dynamics and bioenergetic function, it contributes to cell survival following oxidative stress.
<b>Molecular Mass</b>	35 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

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

## GENE INFORMATION

<b>Gene Name</b>	Thg1l tRNA-histidine guanylyltransferase 1-like ( <i>S. cerevisiae</i> ) [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Thg1l
<b>Synonyms</b>	THG1L; tRNA-histidine guanylyltransferase 1-like ( <i>S. cerevisiae</i> ); probable tRNA(His) guanylyltransferase; nterphase cytoplasmic foci protein 45; AA387658; RP23-298M7.6; 1700121M19Rik; 5730409G07Rik; MGC107321
<b>Gene ID</b>	66628
<b>mRNA Refseq</b>	NM_001080969
<b>Protein Refseq</b>	NP_001074438
<b>UniProt ID</b>	Q9CY52

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