

## Recombinant Mouse Myg1 Protein, Myc/DDK-tagged

Cat. No. Myg1-4244M    Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | Purified recombinant protein of mouse full-length melanocyte proliferating gene 1 (Myg1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                                                                                                                                                                                            |
| Species          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Source           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Description      | 3'-5' RNA exonuclease which cleaves in situ on specific transcripts in both nucleus and mitochondrion. Involved in regulating spatially segregated organellar RNA processing, acts as a coordinator of nucleo-mitochondrial crosstalk. In nucleolus, processes pre-ribosomal RNA involved in ribosome assembly and alters cytoplasmic translation. In mitochondrial matrix, processes 3'-termini of the mito-ribosomal and messenger RNAs and controls translation of mitochondrial proteins. |
| Molecular Mass   | 42.7 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** Myg1 melanocyte proliferating gene 1 [ Mus musculus (house mouse) ]

**Official Symbol** Myg1

**Synonyms** Myg1; melanocyte proliferating gene 1; Gamm; Gamm1; AI325965; 0610023A07Rik; 2810433J21Rik; 5830429P19Rik; MYG1 exonuclease; UPF0160 protein MYG1, mitochondrial; protein Gamm1

**Gene ID** 60315

**mRNA Refseq** NM\_021713

**Protein Refseq** NP\_068359

**UniProt ID** Q9JK81

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