

## Recombinant Mouse Urm1 Protein, Myc/DDK-tagged

**Cat. No.** Urm1-6855M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified recombinant protein of mouse full-length ubiquitin related modifier 1 (Urm1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | <p>Acts as a sulfur carrier required for 2-thiolation of mcm5S2U at tRNA wobble positions of cytosolic tRNA(Lys), tRNA(Glu) and tRNA(Gln). Serves as sulfur donor in tRNA 2-thiolation reaction by being thiocarboxylated (-COSH) at its C-terminus by MOCS3. The sulfur is then transferred to tRNA to form 2-thiolation of mcm5S2U. Also acts as a ubiquitin-like protein (UBL) that is covalently conjugated via an isopeptide bond to lysine residues of target proteins such as MOCS3, ATPBD3, CTU2, USP15 and CAS. The thiocarboxylated form serves as substrate for conjugation and oxidative stress specifically induces the formation of UBL-protein conjugates.</p> |
| <b>Molecular Mass</b>   | 11.3 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|                      |                                                  |
|----------------------|--------------------------------------------------|
| <b>Concentration</b> | >50 µg/mL as determined by microplate BCA method |
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|-----------------------|-------------------------------------------------------|
| <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> | Urm1 ubiquitin related modifier 1 [ <i>Mus musculus</i> (house mouse) ] |
|------------------|-------------------------------------------------------------------------|

|                        |      |
|------------------------|------|
| <b>Official Symbol</b> | Urm1 |
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|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b> | URM1; ubiquitin related modifier 1 homolog ( <i>S. cerevisiae</i> ); ubiquitin-related modifier 1 homolog; RP23-443G7.1; 2900073H19Rik |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|

|                |       |
|----------------|-------|
| <b>Gene ID</b> | 68205 |
|----------------|-------|

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|--------------------|-----------|
| <b>mRNA Refseq</b> | NM_026615 |
|--------------------|-----------|

|                       |           |
|-----------------------|-----------|
| <b>Protein Refseq</b> | NP_080891 |
|-----------------------|-----------|

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|-------------------|--------|
| <b>UniProt ID</b> | Q9D2P4 |
|-------------------|--------|

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