

## Recombinant Human OMA1 Protein, GST-tagged

**Cat. No.** OMA1-1457H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human OMA1 full-length ORF ( NP_660286.1, 1 a.a. - 524 a.a.) recombinant protein with GST-tag at N-terminal was expressed in Wheat Germ.                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | Metalloprotease that is part of the quality control system in the inner membrane of mitochondria. Following stress conditions that induce loss of mitochondrial membrane potential, mediates cleavage of OPA1 at S1 position, leading to OPA1 inactivation and negative regulation of mitochondrial fusion. May also cleave UQC3 under these conditions. Its role in mitochondrial quality control is essential for regulating lipid metabolism as well as to maintain body temperature and energy expenditure under cold-stress conditions. |
| <b>Molecular Mass</b>   | 86.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>AA Sequence</b>      | MSFICGLQSAARNHVFFRFNSLSNWRKCNTLASTSRGCHQVQVNHIVNKYQGLGV<br>NQCDRWSFLPGNFHFYSTFNNKRTGGLSSTKSKEIWRITSKCTVWNDASRQLLIKE<br>VTAVPSLSVLHPLSPASIRAIRNFHTSPRFQAAPVPLLLMILKPVQKLFIIIVGRGIRKW<br>WQALPPNKKEVVKENIRKNKWKLFLGLSSFGLLFVVFYFTHLEVSPITGRSKLLLLGK<br>EQFRLLSELEYEAWMEEFKNDMLTEKDARYLAVKEVLCHLIECNKDVPGISQINWVI<br>HVVDSPIINAFVLPNGQMFVFTGFLNSVTDIHLQSLFLLGHEIAHAVLGHAAEKAGMVH<br>LLDFLGMIFLTMIIWAICPRDSLALLCQWIQSKLQEYMFNRPYSRKLEAEADKIGLLAA                                                                                                 |

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KACADIRASSVFWQQMEFVDSLHGQPKMPEWLSTHPSHGNNRVEYLDRLIPQALKIR  
EMCNCPLSNPDPRLFLKLSTKHFLEESEKEDLNITKKQKMDTLPIQKQEQLTYIVE  
KRTGS

**Applications**

Enzyme-linked Immunoabsorbent Assay  
Western Blot (Recombinant protein)  
Antibody Production  
Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

OMA1 OMA1 zinc metallopeptidase [ Homo sapiens (human) ]

**Official Symbol**

OMA1

**Synonyms**

OMA1; OMA1 zinc metallopeptidase; DAB1; MPRP1; MPRP-1; YKR087C;  
ZMPOMA1; peptidase; 2010001O09Rik; metalloendopeptidase OMA1, mitochondrial;  
OMA1 homolog, zinc metallopeptidase; OMA1 zinc metallopeptidase homolog;  
metalloprotease-related protein 1; overlapping activity with M-AAA protease;  
overlapping with the m-AAA protease 1 homolog; zinc metallopeptidase OMA1

**Gene ID**

115209

**mRNA Refseq**

NM\_145243

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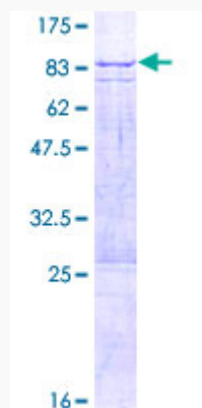
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**Protein Refseq** NP\_660286

**MIM** 617081

**UniProt ID** Q96E52

**Quality Control  
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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