

Product datasheet for **RC204507L3V**

OMA1 (NM_145243) Human Tagged ORF Clone Lentiviral Particle

Product data:

| | |
|---------------------------|--|
| Product Type: | Lentiviral Particles |
| Product Name: | OMA1 (NM_145243) Human Tagged ORF Clone Lentiviral Particle |
| Symbol: | OMA1 |
| Synonyms: | 2010001O09Rik; DAB1; MPRP-1; MPRP1; peptidase; YKR087C; ZMPOMA1 |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-Myc-DDK-P2A-Puro (PS100092) |
| Tag: | Myc-DDK |
| ACCN: | NM_145243 |
| ORF Size: | 1572 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC204507). |
| OTI Disclaimer: | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info |
| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| RefSeq: | NM_145243.3 |
| RefSeq Size: | 1928 bp |
| RefSeq ORF: | 1575 bp |
| Locus ID: | 115209 |
| UniProt ID: | Q96E52 |
| Cytogenetics: | 1p32.2-p32.1 |
| Protein Families: | Druggable Genome, Protease, Transmembrane |
| MW: | 60.1 kDa |



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Gene Summary:

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 UQCC3 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. [UniProtKB/Swiss-Prot Function]