

Product datasheet for **SC323927**

OMA1 (NM_145243) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OMA1 (NM_145243) Human Untagged Clone
Tag:	Tag Free
Symbol:	OMA1
Synonyms:	2010001O09Rik; DAB1; MPRP-1; MPRP1; peptidase; YKR087C; ZMPOMA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_145243.3
 GTATGGCGGGCAGGAAGTGCGAGTGCGCGCCTGCGCATAGGTCGGGTCGGCGGTGTCAACC
 GCTTTCGCTTCTGCTTGAGTAATCAAGTGAAAAATGAGCTTCATCTGTGGATTGCAGTC
 TGCTGCTAGAAACCATGTTTTCTCCGATTTAATTCAGTGTCTAACTGGAGAAAAATGTA
 CACATTAGCATCCACCTCAGGGGCTGCATCAAGTACAAGTTAACCATATAGTAAATAA
 GTATCAGGGACTGGGAGTAAATCAGTGTGACAGGTGGAGTTTTCTGCCTGGAACTTTCA
 TTTTATAGTACTTTTAAACAACAAAAGAACAGGAGGCCTCTCAAGTACCAAAAAGTAAGGA
 AATTTGGAGGATTACCAGCAAAATGTACTGTATGGAATGATGCTTTTTCAAGACAGCTGCT
 AATAAAAAGAAATTACAGCAGTCCCTAGTCTGTCTAGTATTGCATCTCTAAGCCCTGCTTC
 CATAAGAGCTATTAGGAATTTCCATACTTCTCCACGGTTTCAAGCTGCTCCGGTTCTCT
 CTTGTTGATGATTCTTAAACCAGTACAGAAGTTATTTGCAATCATTGTAGGCAGGGGCAT
 AAGGAAATGGTGGCAGGCACTTCTCCTAACAGAAGGAAGTAGTTAAAGAAAATATAAG
 GAAGAATAAATGGAAGCTATTCCTTGGTTTGGTGTAGTTTGGATTGCTCTTTGTGGTGT
 TTATTTTACTCACCTGGAAGTAAGTCCAATCACAGGAAGGAGCAAGCTACTATTATGGG
 GAAAGAACAGTTCAGACTTTTATCGGAACTGGAATATGAAGCATGGATGGAAGAATTTAA
 AAATGATATGCTAACTGAGAAAGATGCCCGATACTGGCTGTTAAAGAAGTGCTTTGTCA
 TCTAATGGAATGCAATAAAGATGTTCCAGGGATCTCTCAGATCAATTGGGTTATTCATGT
 GGTTGATCCCAATTATTAATGCCTTCGTGCTTCCAAATGGACAAATGTTTGTTCAC
 TGGATTTTTAAATAGTGTAAACCGATATTCATCAACTTTCTTCTCTGGCCATGAAAT
 AGCACATGCAGTACTTGGGCATGCTGCAGAAAAGGCTGGCATGGTTCATTTGTTGGATTT
 CCTAGGTATGATTTTCTCACAATGATTTGGGCCATTTGCTCCTCGAGATAGCTTGGCACT
 TTTGTGCCAGTGGATACAGTCTAAATTGCAGGAGTATATGTTTAAATAGACCATACAGCAG
 AAAATTGGAGGCCGAAGCTGACAAAATTGGACTACTGCTTGCTGCAAAGGCTTGTGCAGA
 CATAAAGGCCAGTTCAGTGTTTTGGCAGCAAAATGGAGTTCGTTGATAGCTGCATGGCCA
 ACCCAAGATGCCAGAATGGTTATCTACACACCCTTCTCATGGCAATCGAGTTGAGTACTT
 GGATAGACTTATACCTCAGGCTCTCAAAATTAGAGAGATGTGTAATTGTCCACCACTGTC
 TAATCCAGACCCTCGATTACTATTCAAACCTCAGCACGAAGCATTTTCTTGAAGAATCAGA
 GAAAGAAGACCTAAATATCACGAAGAAACAGAAAATGGATACTCTTCTATTCAAAAACA
 GGAGCAAATACCATTAACATACATAGTTGAGAAAAGAACGGGCAGTTGAATTAATAATTTA
 TGAGACACAAGATATATGAAGAATGTTGCAGTCTTATCATTTTTATGTTACTTTTTAAAA
 AATGATGTTTGAAGTGAATAAAAAAAGGATATTCAGGGTCAAATCATGTACATTACAGA
 TATTATCTAAATCTTCTAGAATTTATTTTTCATGAAATATTGATGTATTTAATCTATG
 TTAATAATATCTTCAATGAGGAAAATGTCACAGAATAAATTTATATTACACATTTTAAAAA
 AAAAAAAAAA

Restriction Sites: ECoRI-NOT

ACCN: NM_145243

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_145243.3 , NP_660286.1
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
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]