

Product datasheet for **SC126516**

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:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_145243, the custom clone sequence may differ by one or more nucleotides

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ATGAGCTTCATCTGTGGATTGCAGTCTGCTGCTAGAAACCATGTTTTCTCCGATTTAATCACTGTCTA
ACTGGAGAAAATGTAACACATTAGCATCCACCTCACGGGGCTGTCATCAAGTACAAGTTAACCATATAGT
AAATAAGTATCAGGGACTGGGAGTAAATCAGTGTGACAGGTGGAGTTTTCTGCCTGGAAACTTTCATTTT
TATAGTACTTTTAAACAACAAAAGAACAGGAGGCCCTCTCAAGTACCAAAAAGTAAGGAAATTTGGAGGATTA
CCAGCAAATGTAAGTATGGAATGATGCTTTTTCAAGACAGCTGCTAATAAAAAGAAGTTACAGCAGTCCC
TAGTCTGTGAGTATTGCATCCTCTAAGCCCTGCTTCCATAAGAGCTATTAGGAATTTCCATACTTCTCCA
CGGTTTCAAGCTGCTCCGGTTCCTCTTGTGATGATTCTTAAACCAGTACAGAAGTTATTTGCAATCA
TTGTAGGCAGGGGCATAAGGAAATGGTGGCAGGCACCTTCTCCTAACAAGAAGGAAGTAGTTAAAGAAAA
TATAAGGAAGAATAAATGGAAGCTATTCCTTGGTTTGAGTAGTTTTGGATTGCTCTTTGGTGTTTTAT
TTTACTCACCTGGAAGTAAGTCCAATCACAGGAAGGAGCAAGCTACTATTATTGGGAAAGAGCAGTTCA
GACTTTTATCGGAAGTGAATATGAAGCATGGATGGAAGATTTAAAAATGATATGCTAACTGAGAAAGA
TGCCCGATACCTGGCTGTTAAAGAAGTGTCTTGCATCTAATTGAATGCAATAAAGATGTTCCAGGGATC
TCTCAGATCAATGGGTTATTCATGTGGTTGATCCCCAATTATTAATGCCTTCGTGCTTCCAAATGGAC
AAATGTTTGTCTTCACTGGATTTTTAAATAGTGTAAACCGATTCATCAACTTTCTTCTTCTGGGCCA
TGAAATAGCACATGCAGTACTTGGGCATGCTGCAGAAAAGGCTGGCATGGTTCATTTGTTGGATTTCCTA
GGTATGATTTTCTCACAAATGATTTGGGCCATTTGCTCCTCGAGATAGCTTGGCAGTCTTGTGCCAGTGGA
TACAGTCTAAATGCAGGAGTATATGTTAATAGACCATACAGCAGAAAATTGGAGGCCGAAGCTGACAA
AATTGGACTACTGCTTGTGCAAAGGCTTGTGCAGACATAAGAGCCAGTTCAGTGTTTGGCAGCAAATG
GAGTTCGTTGATAGCCTGCATGGCCAACCAAGATGCCAGAATGGTTATCTACACACCCTTCTCATGGCA
ATCGAGTTGAGTACTTGGATAGACTTATACCTCAGGCTCTCAAAATTAGAGAGATGTGTAATTGTCCACC
ACTGTCTAATCCAGACCCTCGATTACTATTCAAACCTCAGCACGAAGCATTCTTGAAGAATCAGAGAAA
GAAGACCTAAATATCACGAAGAAACAGAAAATGGATACTTCTTCTATTCAAAAACAGGAGCAAATACCAT
TAACATACATAGTTGAGAAAAGAACGGGCAGTTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_145243 unedited

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GACTCCTATAGGCGGCCGACATTCGCACGAGGCACCGCTTTCGCTTCTGCTTGTGAGTCA
GTCCTCACGGTGCAGCTTTTCCCGAGCTTTCCGAGTAATCAAGTGAAAAATGAGCTTC
ATCTGTGGATTGCAGTCTGCTGCTAGAAACCATGTTTTCTCCGATTTAATCACTGTCT
AACTGGAGAAAATGTAACACATTAGCATCCACCTCACGGGGCTGTCATCAAGTACAAGTT
AACCATATAGTAAATAAGTATCAGGGACTGGGAGTAAATCAGTGTGACAGGTGGAGTTTT
CTGCCTGGAAACTTTCATTTTTATAGTACTTTTAAACAACAAAAGAACAGGAGGCCCTCTCA
AGTACCAAAAAGTAAGGAAATTTGGAGGATTACCAGCAAATGACTGTATGGAATGATGCT
TTTTCAAGACAGCTGCTAATAAAAAGAAGTTACAGCAGTCCCTAGTCTGTGATGATGAT
CCTCTAAGCCCTGCTTCCATAAGAGCTATTAGGAATTTCCATACTTCTCCACGGTTTCAA
GCTGCTCCGGTTCCTCTTGTGATGATTCTTAAACCAGTACAGAAGTTATTTGCAATC
ATTGTAGGCAGGTAAGTGTCTTTTGAATAAAAATTTTATATTAACCTTNTGCTTAA
TATTNTGTGCTAACGTATTAACCTTTAGAAAATAATTTTTTTTATTTATAAAAATGACTT
TTAAAGAAACCTTGCCAGATCCCCCTGTCTCCCCATTTAGCTCANAGNTGAAGTTCTA
ACCCAGTAGGGTCTGCCCAATTTTGTCTGGTATGATTTAATAAATCTGAAACCATTNN
CTGCTACTAATTNATGGGNATAGAAATATCTCTTTTAAATTTATNCTTACATTTTGNAT
AGGCATAAAAAATCTAAATTTATGACTACAATCTAGATAATGGNANCAAAAAGGGGGG
TTTTCTTTGTTTTAAAAAATCTTCAACACTTTTTTTTATTGGGGAATTAGGCNCATCCT
AATTGGGACTTGCTTTTTAGGGGGGCCCCCTATAA
    
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Restriction Sites:

ECoRI-NOT

ACCN:

NM_145243

Insert Size:	4100 bp
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).
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]