

Product datasheet for **SC316828**

Mitofilin (IMMT) (NM_001100170) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Mitofilin (IMMT) (NM_001100170) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | IMMT |
| Synonyms: | HMP; Mic60; MICOS60; MINOS2; P87; P87/89; P89; PIG4; PIG52 |
| Vector: | <u>pCMV6 series</u> |



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001100170, the custom clone sequence may differ by one or more nucleotides

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ATGCTGCGGGCCTGTCAGTTATCGGGTGTGACCGCCGCCCCAGAGTTGTCTCTGTGGG
AAGTTTGTCTCCGTCCATTGCGACCATGCCGACGATACTCTACTTCAGGCAGCTCTGGG
TTGACTACTGGCAAAATGCTGGAGCTGGCCTTTGTTTGGTGGAGGTATTGGTGGC
ACTATCCTATATGCCAAATGGGATTCCTCCATTTCCGGGAAAAGTGTAGAGAAAACCATACCT
TACTCAGACAAACTCTTCGAGATGGTTCTTGGTCTGCAGCTTATAATGTTCCATTGCCA
AAGAAATCGATTAGTTCGGGTCCACTAAAAATCTCTAGTGTATCAGAAGTAATGAAAGAA
TCTAAACAGCCTGCCTCACTCAAACTCCAAAAACAAAAGGGAGATACTCCAGCTTCAGCAACA
GCAGGTGATACCTGTCCGTCCCAGCCCCTGCAGTTCAGCCTGAGGAATCTTTAAAAACT
GATCACCTGAAATTGGTGAAGGAAAACCCACACCTGCACCTTTCAGAAGAAGCATCCTCA
TCTTCTATAAGGGAGCGACACCTGAAGAAGTTGCAGCTCGCCTGCACAAACAGGAAAAA
CAAGAACAAGTTAAAATTGAGTCTCTAGCCAAGAGCTTAGAAGATGCTCTGAGGCAAACT
GCAAGTGTCACTCTGCAGGCTATTGCAGCTCAGAATGCTCGGTCCAGGCTGTCAATGCA
CACTCCAACATATTGAAAGCCGCATGGACAATTCTGAGATTGCAGGCGAGAAGAAATCT
GCTCAGTGGCGCACAGTGGAGGGTGCATTGAAGGAACGCAGAAAGGCAGTAGATGAAGCT
GCCGATGCCCTTCTCAAAGCCAAAGAAGAGTTAGAGAAGATGAAAAGTGTGATTGAAAAT
GCAAAGAAAAAGAGGTTGCTGGGGCCAAGCCTCATATAACTGTGCAGAGGGTAAACTT
CACAACATGATAGTTGATCTGGATAATGTGGTCAAAAAGTCCAAGCAGCTCAGTCTGAG
GCTAAGGTTGATCTCAGTATCATGAGCTGGTGGTCCAAGCTCGGGATGACTTTAAACGA
GAGCTGGACAGTATTACTCCAGAAGTCTTCTGGGTGAAAGGAATGAGTGTTCAGAC
TTAGCTGACAAGTCTCTACTGATGATCTGAACCTCCCTCATTGCTCATGCACATCGTCGT
ATTGATCAGCTGAACAGAGAGCTGGCAGAACAGAAGGCCACCGAAAAGCAGCACATCACG
TTAGCCTTGGAGAAACAAAAGCTGGAAGAAAAGCGGGCATTGACTCTGCAGTAGCAAAA
GCATTAGAACATCACAGAAGTAAATACAGGCTGAACAGGACAGAAAGATAGAAGAAGTC
AGAGATGCCATGGAAAATGAAATGAGAACCAGCTTCGCCGACAGGCAGCTGCCACACT
GATCACTTGCAGATGTCCTTAGGGTACAAGAACAGGAATTGAAGTCTGAATTTGAGCAG
AACCTGTCTGAGAACTCTCTGAACAAGAATTACAATTTCTGTCGTCTCAGTCAAGAGCAA
GTTGACAACCTTTACTCTGGATATAAATACTGCCTATGCCAGACTCAGAGGAATCGAACAG
GCTGTTCCAGAGCCATGCAGTTGCTGAAGAGGAAGCCAGAAAAGCCACCAACTCTGGCTT
TCAGTGGAGGCATTAAGTACAGCATGAAGACCTCATCTGCAGAAACACCTACTATCCCG
CTGGGTAGTGCAGTTGAGGCCATCAAAGCCAAGTCTTCTGATAATGAATTCACCCAAGCT
TTAACCGCAGCTATCCCTCCAGAGTCCCTGACCCGTGGGGTGTACAGTGAAGAGACCCCTT
AGAGCCCGTTTCTATGCTGTTCAAAAAGTGGCCGAAGGGTAGCAATGATTGATGAAACC
AGAAATAGCTTGTACCAGTACTTCTCTCTACCTACAGTCCCTGCTCCTATTCCCACT
CAGCAACTGAAGCCGCCCCAGAGCTCTGCCCTGAGGATATAAACACATTTAAATTAAGT
TCATATGCTTCTATTGCATTGAGCATGGTGTCTGGAGCTAGCAGCAAAGTTTGTCAAT
CAGCTGAAGGGGGAATCCAGACGAGTGGCACAGGACTGGCTGAAGGAAGCCCGAATGACC
CTAGAAAACGAAACAGATAGTGGAAATCTGACAGCATATGCCAGCGCCGTAGGAATAGGA
ACCACTCAGGTGCAGCCAGAG

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Restriction Sites: Please inquire

ACCN: NM_001100170

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).

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| 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: | <u>NM_001100170.1</u> , <u>NP_001093640.1</u> |
| RefSeq Size: | 2985 bp |
| RefSeq ORF: | 2244 bp |
| Locus ID: | 10989 |
| UniProt ID: | <u>Q16891</u> |
| Cytogenetics: | 2 |
| Gene Summary: | <p>Component of the MICOS complex, a large protein complex of the mitochondrial inner membrane that plays crucial roles in the maintenance of crista junctions, inner membrane architecture, and formation of contact sites to the outer membrane. Plays an important role in the maintenance of the MICOS complex stability and the mitochondrial cristae morphology (PubMed:22114354, PubMed:25781180).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) uses an alternate in-frame splice site in the mid-coding region, compared to variant 1, resulting in a protein (isoform 3) that is shorter than isoform 1.</p> |