

## Product datasheet for **SC320269**

### Mitofilin (IMMT) (NM\_006839) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mitofilin (IMMT) (NM_006839) Human Untagged Clone
Tag:	Tag Free
Symbol:	Mitofilin
Synonyms:	HMP; Mic60; MICOS60; MINOS2; P87; P87/89; P89; PIG4; PIG52
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\_006839.1  
 CCACCAGCAGCGCCGTCCGCTTGACCGAGATGCTGCGGGCCTGTGAGTTATCGGGTGTGA  
 CCGCCCGCCAGAGTTGTCTCTGTGGGAAGTTGTCTCCGTCCATTGCGACCATGCC  
 GCAGATACTCTACTTCAGGCAGCTCTGGGTTGACTACTGGCAAAATTGCTGGAGCTGGCC  
 TTTTGTGGTGGTGGAGGATTGGTGGCACTATCCTATATGCCAAATGGGATTCCCATT  
 TCCGGGAAAGTGTAGAGAAAACCATACCTTACTCAGACAACTCTTCGAGATGGTTCTTG  
 GTCTGCAGCTTATAATGTTCCATTGCCAAAGAAATCGATTGAGTCCGGTCCACTAAAA  
 TCTCTAGTGATCAGAAGTAATGAAAGAATCTAAACAGCCTGCCTCACAACCTCCAAAAAC  
 AAAAGGGAGATACTCCAGCTTCAGCAACAGCACCTACAGAAGCGGCTCAAATTTTCTG  
 CAGCAGGTGATACCCTGTCGGTCCAGCCCTGCAGTTCAGCCTGAGGAATCTTTAAAAA  
 CTGATCACCTGAAATTGGTGAAGGAAAACCCACCTGCACCTTCAGAAAGCATCCT  
 CATCTTCTATAAGGGAGCGACCCTGAAGAAGTTCAGCTCGCCTTGCACAACAGGAAA  
 AACAGAACAAGTAAAAATTGAGTCTCTAGCCAAGAGCTAGAAAGATGCTCTGAGGCAA  
 CTGCAAGTGTCACTCTGCAGGCTATTGCAGCTCAGAATGCTGCGGTCCAGGCTGCAATG  
 CACTCAACATATTGAAAGCCGCATGGACAATTCTGAGATTGCAGGCGAGAAGAAAT  
 CTGCTCAGTGGCCACAGTGGAGGGTGCATTGAAGGAACGAGAAAGGCAGTAGATGAAG  
 CTGCCGATGCCCTTCTCAAAGCCAAAGAAGAGTTAGAGAAGATGAAAAGTGTGATTGAAA  
 ATGCAAAGAAAAAGAGGTTGCTGGGCAAGCCTCATATAACTGCTGCAGAGGGTAAAC  
 TTCACAACATGATAGTTGATCTGGATAATGTGGTCAAAAAGTCCAAGCAGCTCAGTCTG  
 AGGCTAAGGTTGATCTCAGTATCATGAGCTGGTGGTCCAAGCTCGGGATGACTTTAAAC  
 GAGAGCTGGACAGTATTACTCCAGAAGTCTTCTGGGTGAAAGGAATGAGTGTTCAG  
 ACTTAGCTGACAAGCTCTACTGATGATCTGAACTCCCTCATTGCTCATGCACATCGTC  
 GTATTGATCAGCTGAACAGAGAGCTGGCAGAACAGAAGGCCACCGAAAAGCAGCACATCA  
 CGTTAGCCTTGGAGAAAACAAAAGCTGGAAGAAAAGCGGGCATTGACTCTGCAGTAGCAA  
 AAGCATTAGAACATCACAGAAGTAAAACAGGCTGAACAGGACAGAAAGATAGAAGAAG  
 TCAGAGATGCCATGAAAATGAAATGAGAACCCAGCTTCGCCGACAGGCAGCTGCCACA  
 CTGATCACTTGCAGATGTCCTTAGGGTACAAGAACAGGAATTGAAGTCTGAATTTGAGC  
 AGAACCTGTCTGAGAACTCTCTGAACAAGAATTACAATTTCTGTCGTCTCAGTCAAGAGC  
 AAGTTGACAACCTTACTCTGGATATAAATACTGCCTATGCCAGACTCAGAGGAATCGAAC  
 AGGCTGTTCAGAGCCATGCAGTTGCTGAAGAGGAAGCCAGAAAAGCCACCAACTCTGGC  
 TTTCAAGTGGAGGCATTAAGTACAGCATGAAGACCTCATCTGCAGAAACCTACTATCC  
 CGCTGGGTAGTGGGTTGAGGCCATCAAAGCCAACTGTTCTGATAATGAATTCACCCAAG  
 CTTAACCAGCAGCTATCCCTCCAGAGTCCCTGACCCGTGGGGTGTACAGTGAAGAGACCC  
 TTAGAGCCCGTTTCTATGCTGTTCAAAAAGTGGCCGAAGGGTAGCAATGATTGATGAAA  
 CCAGAAATAGCTTGTACCACTTCTCTCTCTACCTACAGTCCCTGCTCCTATTTCCAC  
 CTCAGCAACTGAAGCCGCCCCAGAGCTCTGCCCTGAGGATATAAACACATTTAAATTAC  
 TGTGATGCTTCTTATGCAATGAGCATGGTGTCTGGAGCTAGCAGCAAGTTTGTCA  
 ATCAGCTGAAGGGGGAATCCAGACGAGTGGCACAGGACTGGCTGAAGGAAGCCCAATGA  
 CCCTAGAAAACGAAACAGATAGTGGAAATCCTGACAGCATATGCCAGCGCCGTAGGAATG  
 GAACCACTCAGGTGCAGCCAGAGTGGGTTAGGAAGATTTTCATAAAGTCATATTTTCAT  
 GTCAAAGGAAATCAGCAGTATAGATGAAGGGTTCGCAGCGAGAGTCCCGGACTTGTCTA  
 GAAATGAGCAGGTTTACAAGTACTGTTCTAAATGTTAACACCTGTTGCATTTATATTCTT  
 TCCATTTGCTATCATGTCAGTGAACGCCAGGAGTCTTTCTTTGCAACTTGTGTAACATT  
 TTCTGTTTTTTCAGGTTTTACTGATGAGGCTTGTGAGGCCAATCAAATAATGTTTGTGA  
 TCTCTACTACTGTTGATTTTGCCTCGGAGCAAACCTGAATAAAGCAACAAGATGAAAAA  
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_006839

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_006839.1</a></u> , <u><a href="#">NP_006830.1</a></u>
<b>RefSeq Size:</b>	2697 bp
<b>RefSeq ORF:</b>	2277 bp
<b>Locus ID:</b>	10989
<b>UniProt ID:</b>	<u><a href="#">Q16891</a></u>
<b>Cytogenetics:</b>	2
<b>Gene Summary:</b>	<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 (1) represents the longest transcript and encodes the longest isoform (1).</p>