

## Product datasheet for **SC316829**

### Mitofilin (IMMT) (NM\_001100169) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mitofilin (IMMT) (NM_001100169) 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\_001100169, the custom clone sequence may differ by one or more nucleotides

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ATGCTGCGGGCCTGTCAGTTATCGGGTGTGACCGCCGCCCCAGAGTTGTCTCTGTGGG
AAGTTTGTCTCCGTCATTGCGACCATGCCGACAGATACTCTACTTCAGGCAGCTCTGGG
TTGACTACTGGCAAAATGCTGGAGCTGGCCTTTGTTTGGTGGAGGTATTGGTGGC
ACTATCCTATATGCCAAATGGGATCCCATTTCCGGGAAAAGTGTAGAGAAAACCATACCT
TACTCAGACAAACTCTTCGAGATGGTTCTTGGTCTGCAGCTTATAATGTTCCATTGCCA
AAGAAATCGATTAGTCGGGTCCACTAAAAATCTCTAGTGATCAGAAGTAATGAAAGAA
TCTAAACAGCCTGCCTCACAACTCCAAAAACAAAAGGGAGATACTCCAGCTTCAGCAACA
GCACCTACAGAAGCGGCTCAAATATTTCTGCAGCAGGTGATACCCTGTCCGGTCCCAGCC
CCTGCAGTTCAGCCTGAGGAATCTTTAAAAACTGATCACCTGAAATTGGTGAAGGAAAA
CCCACACCTGCACCTTCAGAAGCATCCTCATCTTCTATAAGGGAGCGACCACCTGAAGAA
GTTGCAGCTCGCCTTGCACAACAGGAAAAACAAGAACAAGTTAAAATTGAGTCTCTAGCC
AAGAGCTTAGAAGATGCTCTGAGGCAAAGTCAAGTGTCACTCTGCAGGCTATTGCAGCT
CAGAATGTGCGGTCCAGGCTGTCAATGCACACTCCAACATATTGAAAGCCGCCATGGAC
AATTCTGAGATTGAGGCGAGAAGAAATCTGCTCAGTGGCGCACAGTGGAGGGTGCATTG
AAGGAACGCAGAAAGGCAGTAGATGAAGCTGCCGATGCCCTTCTCAAAGCCAAAGAGAG
TTAGAGAAGATGAAAAGTGTGATTGAAAATGCAAAGAAAAAGAGGTTGCTGGGGCCAAG
CCTCATATAACTGCTGCAGAGGGTAAACTTCACAACATGATAGTTGATCTGGATAATGTG
GTCAAAAAGGTCCAAGCAGCTCAGTCTGAGGCTAAGGTTGATCTCAGTATCATGAGCTG
GTGGTCCAAGCTCGGGATGACTTTAAACGAGAGCTGGACAGTATTACTCCAGAAGTCCTT
CCTGGGTGAAAAGGAATGAGTGTTCAGACTTACTGACAAGCTCTCTACTGATGATCTG
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CAGAAGGCCACCGAAAAGCAGCAGCATCAGTTAGCCTTGGAGAAAACAAAAGCTGGAAGAA
AAGCGGGCATTGACTCTGCAGTAGCAAAAGCATTAGAACATCACAGAAGTGAATACAG
GCTGAACAGGACAGAAAGATAGAAGAGTCAAGATGCCATGGAAAATGAAATGAGAACC
CAGCTTCGCCGACAGGCAGCTGCCACACTGATCACTTGCAGATGTCCTTAGGGTACAA
GAACAGGAATTGAAGTCTGAATTTGAGCAGAACCTGTCTGAGAACTCTCTGAACAAGAA
TTACAATTTGCTGCTCAGTCAAGAGCAAGTTGACAACCTTACTCTGGATATAAATACT
GCCTATGCCAGACTCAGAGGAATCGAACAGGCTGTTGAGAGCCATGCAGTTGCTGAAGAG
GAAGCCAGAAAAGCCACCAACTCTGGCTTTGAGTGGAGGCATTAAGTACAGCATGAAG
ACCTCATCTGCAGAAACCTACTATCCCGCTGGGTAGTGCAGTTGAGGCCATCAAAGCC
AACTGTTCTGATAATGAATTCACCCAAGCTTTAACCGCAGCTATCCCTCCAGAGTCCCTG
ACCCGTGGGGTGTACAGTGAAGAGACCCTTAGAGCCCGTTTCTATGCTGTTCAAAAAGT
GCCCGAAGGGTAGCAATGATTGATGAAACCAGAAATAGCTTGTACCAGTACTTCTCTCC
TACCTACAGTCCCTGCTCCTATTTCCACCTCAGCAACTGAAGCCGCCCCAGAGCTCTGC
CCTGAGGATATAAACACATTTAAATTACTGTATGCTTCTCTATTGCATTGAGCATGGT
GATCTGGAGCTAGCAGCAAAGTTTGTCAATCAGCTGAAGGGGGAATCCAGACGAGTGGCA
CAGGACTGGCTGAAGGAAGCCGAATGACCCTAGAAACGAAACAGATAGTGAAAATCCTG
ACAGCATATGCCAGCGCCGTAGGAATAGGAACCACTCAGGTGCAGCCAGAG

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**Restriction Sites:** Please inquire

**ACCN:** NM\_001100169

**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).

<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_001100169.1</a></u> , <u><a href="#">NP_001093639.1</a></u>
<b>RefSeq Size:</b>	3015 bp
<b>RefSeq ORF:</b>	2274 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 (2) uses an alternate in-frame splice site in the mid-coding region, compared to variant 1, resulting in a protein (isoform 2) that is shorter than isoform 1.</p>