

## Product datasheet for **SC330865**

### MCU (NM\_001270680) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MCU (NM_001270680) Human Untagged Clone
Tag:	Tag Free
Symbol:	MCU
Synonyms:	C10orf42; CCDC109A; HsMCU
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC330865 representing NM_001270680. Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGTACACCAGAGGATCGCTTCCTGGCAGAATTTGGGAGCTGTTTATTGCAGCACTGTTGTGCCCTCT  
 GATGATGTTACAGTGTTTATCAAAATGGGTTACCTGTGATATCTGTGAGGCTACCATCCCGCGTGAA  
 CGCTGTCAGTTCACACTCAAGCCTATCTCTGACTCTGTTGGTGTATTTTACGACAACTGCAAGAAGAG  
 GATCGGGGAATTGACAGAGTTGCTATCTATTACCAGATGGTGTTCGCGTTGCTGCTTCAACAGGAATA  
 GACCTCCTCCTCTTGATGACTTTAAGCTGGTCATTAATGACTTAACATACCACGTACGACCACAAAA  
 AGAGACCTCTTAAGTCATGAAAATGCAGCAACGCTGAATGATGTAAGACATTGGTCCAGCAACTATAC  
 ACCCACTGTGCATTGAGCAGCACCAGTTAAACAAGGAAAGGGAGCTTATTGAAAGACTAGAGGATCTC  
 AAAGAGCAGCTGGCTCCCCTGGAAGGTACGAATTGAGATTAGCAGAAAAGCTGAGAAGAGGACCACT  
 TTGGTGTATGGGGTGGCCTTGCTACATGGCCACACAGTTTGGCATTGTTGGCCCGGCTTACCTGGTGG  
 GAATATTCCTGGGACATCATGGAGCCAGTAACATACTTCATCACTTATGGAAGTGCCATGGCAATGTAT  
 GCATATTTTGAATGACACGCCAGGAATATGTTTATCCAGAAGCCAGAGACAGACAATACTTACTATTT  
 TTCCATAAAGGAGCCAAAAAGTCACGTTTTGACCTAGAGAAATACAATCAACTCAAGGATGCAATTGCT  
 CAGGCAGAAATGGACCTTAAGAGACTGAGAGACCCATTACAAGTACATCTGCCTCTCCGACAAATTGGT  
 GAAAAAGATTGA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001270680
Insert Size:	909 bp


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<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<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>	<a href="#">NM_001270680.1</a>
<b>RefSeq Size:</b>	3239 bp
<b>RefSeq ORF:</b>	909 bp
<b>Locus ID:</b>	90550
<b>UniProt ID:</b>	<a href="#">Q8NE86</a>
<b>Cytogenetics:</b>	10q22.1
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	35.2 kDa
<b>Gene Summary:</b>	<p>This gene encodes a calcium transporter that localizes to the mitochondrial inner membrane. The encoded protein interacts with mitochondrial calcium uptake 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2012]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (3) has a distinct N-terminus and is shorter than isoform 1.</p>