

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)

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ATGGTACACCAGAGGATCGCTTCCTGGCAGAATTTGGGAGCTGTTTATTGCAGCACTGTTGTGCCCTCT
GATGATGTTACAGTGTTTATCAAAATGGGTTACCTGTGATATCTGTGAGGCTACCATCCCGCGTGAA
CGCTGTCAGTTCACACTCAAGCCTATCTCTGACTCTGTTGGTGTATTTTTACGACAACGCAAGAAGAG
GATCGGGGAATTGACAGAGTTGCTATCTATTACCAGATGGTGTTCGCGTTGCTGCTTCAACAGGAATA
GACCTCCTCCTTGTGACTTTAAGCTGGTCATTAATGACTTAACATACCACGTACGACCACCAAAA
AGAGACCTCTTAAGTCATGAAAATGCAGCAACGCTGAATGATGTAAGACATTGGTCCAGCAACTATAC
ACCACACTGTGCATTGAGCAGCACCAGTTAAACAAGGAAAGGGAGCTTATTGAAAGACTAGAGGATCTC
AAAGAGCAGCTGGCTCCCCTGGAAAAGGTACGAATTGAGATTAGCAGAAAAGCTGAGAAGAGGACCACT
TTGGTGCATGGGGTGGCCTTGCCTACATGGCCACACAGTTTGGCATTGTTGGCCCGGCTTACCTGGTGG
GAATATTCCTGGGACATCATGGAGCCAGTAACATACTTCATCACTTATGGAAGTGCCATGGCAATGTAT
GCATATTTTGTAAATGACACGCCAGGAATATGTTTATCCAGAAGCCAGAGACAGACAATACTTACTATTT
TTCCATAAAGGAGCCAAAAAGTCACGTTTTGACCTAGAGAAATACAATCAACTCAAGGATGCAATTGCT
CAGGCAGAAATGGACCTTAAGAGACTGAGAGACCCATTACAAGTACATCTGCCTCTCCGACAAATTGGT
GAAAAAGATTGA
```

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



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OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

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:

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_001270680.1](#)

RefSeq Size: 3239 bp

RefSeq ORF: 909 bp

Locus ID: 90550

UniProt ID: [Q8NE86](#)

Cytogenetics: 10q22.1

Protein Families: Transmembrane

MW: 35.2 kDa

Gene Summary: 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]
 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.