

Product datasheet for **SC100813**

MCU (NM_138357) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCU (NM_138357) Human Untagged Clone
Tag:	Tag Free
Symbol:	MCU
Synonyms:	C10orf42; CCDC109A; HsMCU
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC100813 sequence for NM_138357 edited (data generated by NextGen Sequencing)

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ATGGCGGCCGCGCCAGGTAGATCGCTCCTGCTGCTCCTCTCCTCTCGGGGCGGCGCGGGC
GGGGGCGCCGGCGGCTGCGGGGCGCTGACTGCCGGCTGCTTCCCTGGGCTGGGCGTCAGC
CGCCACCGGCAGCAGCAGCACCACCGGACGGTACACCAGAGGATCGCTTCTGGCAGAAT
TTGGGAGCTGTTTATTGCAGCACTGTTGTGCCCTCTGATGATGTTACAGTGGTTTATCAA
AATGGGTTACCTGTGATATCTGTGAGGCTACCATCCCGCGTGAACGCTGTCAGTTCACA
CTCAAGCCTATCTGACTCTGTTGGTGTATTTTTACGACAACGCAAGAAGAGGATCGG
GGAATTGACAGAGTTGCTATCTATTCACCAGATGGTGTTCGCGTTGCTGCTTCAACAGGA
ATAGACCTCCTCCTCTGATGACTTTAAGCTGGTCATTAATGACTTAACATACCAGTA
CGACCACCAAAAAGAGACCTCTTAAGTCATGAAAATGCAGCAACGCTGAATGATGTAAG
ACATTGGTCCAGCAACTATACCCACACTGTGCATTGAGCAGCACCAGTTAAACAAGGAA
AGGGAGCTTATTGAAAGACTAGAGGATCTCAAAGAGCAGCTGGCTCCCCTGGAAAAGGTA
CGAATTGAGATTAGCAGAAAAGCTGAGAAGAGGACCACTTTGGTGTATGGGGTGGCCTT
GCCTACATGGCCACACAGTTTGGCATTGTTGGCCCGGCTTACCTGGTGGGAATATTCCTGG
GACATCATGGAGCCAGTAACATACTTCATCACTTATGGAAGTGCCATGGCAATGTATGCA
TATTTTGTAAATGACACGCCAGGAATATGTTTATCCAGAAGCCAGAGACAGACAATACTTA
CTATTTTCCATAAAGGAGCCAAAAAGTCACGTTTTGACCTAGAGAAAATACAATCAACTC
AAGGATGCAATTGCTCAGGCAGAAATGGACCTTAAGAGACTGAGAGACCCATTACAAGTA
CATCTGCTCTCCGACAAATTGGTGA AAAAGATTGA

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Clone variation with respect to NM_138357.1



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_138357 unedited</p> <pre>CCGCCCGTTGCCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGC TCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCAATTC GGCAGCAGGTGAGAGATGGCGGCCGCCGAGGTAGATCGCTCCTGCTCCTCTCCTCT CGGGGCGGCGGCGGGGGCGCCGGCGCTGCGGGGCGCTGACTGCCGGCTGCTTCCT GGGCTGGGCGTCAGCCGCCACCGGCAGCAGCAGCACCACCGGACGGTACACCAGAGGATC GTTCTGGCAGAATTTGGGAGCTGTTTATTGCAGCACTGTTGTGCCCTGATGATGTT ACAGTGGTTTATCAAAATGGGTTACCTGTGATATCTGTGAGGCTACCATCCCGCGTGAA CGCTGTCAGTTCACACTCAAGCCTATCTCTGACTCTGTTGGTGTATTTTTACGACAACCTG CAAGAAGAGGATCGGGGAATTGACAGAGTTGCTATCTATTACCAGATGGTGTTCGCGTT GCTGCTTCAACAGGAATAGACCTCCTCCTTGTGACTTTAAGCTGGTCATTAATGAC TTAACATACCACGTACGACCACCAAAAAGAGACCTCTTAAGTCATGAAAAAGCAGCAACG CTGAATGATGTAAGACATTGGTCCAGCAACTATACCCACACTGTGCATTGAGCAGCAC CAGTTAAACAAGGAAAGGAGCTTATTGAANGACTAGAGGATCTCANAGAGCAGCTGGCT CCCCTGGNANAGGTTACGAATGAGATTAGCAGAAAAGCTGAGAAGAGGACCACTTTGGTG CTATGGGGTGGNCTGCCTACATGGCCACACAGTTGGNCATTNNTGCCCCNGCTTACCTG NTGGGGAANTATCCTGGGACATCATGGNAGCCAGTACCATACTTCATCACTTATGGNAAG TGCATGGNNCATGTATGCCATATTTGTATAACCGCCAGNATATGTTTTNCCANACN</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_138357 unedited</p> <pre>NCCTCCTACTATGNACCGCGCCGAATCTANATCGAGTTTTTTTTTTTTTTTTTAAAAT TGAATAAGTATTTATTGTTCCAGAAGGTACATTGCTTTTTATACATATTTATAAATGAT ACAGGATTTTACACATGTTCAATAGTTTGTCTATTTGTTTAAAGAACTTTCTCCATGTCC TCCTCCCTTGTCTCCACACACCCCAAAAAGATTTGCTCGTTGCACTGTGCTGTTTCTT CTTAAAAACCCTATGCACAAACAGGATAAATGGGTTAAAAATAATTCACACAACCTAACA AAAATAAATGAGGGAAGGAGCTGACGACTGGGGTGGTGGAGGGAGAAGGAAAGTGGGCGG AGGGTCAGGAAGTGGAGACATGCATCCTTTTCATCCGTCATGCCAATGAAAGGGGTGTTG GCAGGAGTAGCAGCAGCAGCAATCCTGGCTGGCCTTCAACCTTTGCAAGGCAACTGG AGTCTGGGTTTGTCAATTAAGTTTTCTTTTCATACACAATGATCCCAAGGAGGAAGA AAAAGAGAAAAGAACTCCTTGCCACAATGAGGAAGGATGAATCACGCTAAAGAAAAGGCC CATCAGTGGTGTGGCAGCCCCATCATTCTTTCCATCCTGCCCTACAGCAGTTAAAAAC AGGATATTAGACACAGATTCTTTGACTTTCAAGCGCAGATGTATCTGGAAATATGGG AGAAAAAGTTTTGACAAGTATAAGATTAATTCTTTCCCTCAATTTAAGATAAGAAAAA AAAAGGTGAAAAAAGGGCCTTAAANGAAACCCTAAAAATGTATCCCCTATTAAGAATA AATGGACCCCTTGAGAACCCCACTTGATTTACACTCGAATTTTGGGAGTGGGAAG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_138357
Insert Size:	3000 bp
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).
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_138357.1](#), [NP_612366.1](#)

RefSeq Size: 2978 bp

RefSeq ORF: 1056 bp

Locus ID: 90550

UniProt ID: [Q8NE86](#)

Cytogenetics: 10q22.1

Domains: DUF607

Protein Families: Transmembrane

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 (1) encodes the longest isoform (1).