

Product datasheet for MC210439

Mcub (NM_025779) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mcub (NM_025779) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mcub
Synonyms:	9030408N13Rik; Ccdc109b; MCUb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC210439 representing NM_025779 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGCCAGGAGCTCTGTCCGGCAGGAGGATGCTCCCGAGCGGGCTATGTCTGGGTCGGTGGCAGCTGCTGC
GGACGATCCGAGCCCGCGGCCGCGGGATCCCAGGAGCTGCCATCCACACCCAGGTTTATGTATGAA
ACTCTATGGAAATCCAAATACCAAGCACTCCATTATGGACAGTGGAGCCACAGGATGAAATAACA
GTTACTTATAAACACGGCCTTCCCTTGGTAACCCTCACTCTGCCATCCAGAAAAGAGCGCTGCCAGTTTG
TAGTCAAGCCGATGTTGTCGACAGTAGGCTCATTCTGCAGGACTTACAGAATGAGGATAAAGGCATCAA
AACTGCAGCCATCATCACGGCAGATGGCAGTGAAATCCAGCTTCAACATTGATGGACACTTTGCTAATG
ACAGATTTTAAGCTCATCATTAAACAACTACGGTATGATATACGGTGTCACAAGAAAGAAGGCCAAGTG
GAGAGCATATGACTGAGTTGAAAAACCAAGTCCTTGGTTACAGACTATTCATATCCTGCATTTAGA
GGAGATCCAGAAGAGACGAGAGCGCCATCTGATGGCGAAGATCGACCACCTGCAGGAACAGCTGCGGCC
TTGGAGCAGGTCAAAGCTGCAATAGAAGCCGGTCGGAAGCCAACACCAAGTGGTCTCCTGTGGGCCGGCT
TAGCTCTGCTCTCCGTGCAGGGCGGGCGCTGGCTGGCTTACTTGGTGGGTGTAATCCTGGGATATCAT
GGAGCCAGTTACCTTCTCCTGTCGTTTGCGAATTCATCGTCTTTTTGCATACTTCATCATAACCCGG
CAGAACTACACATACTCATCCCTCCGAGCAGGCAGTTTCTTCAGTTCTCCACAAGAAATCGCAGCGGC
GGTGTGTTGATGTGGAACAATAACAAGCTAAAGGAAGACCTTGCTGAGGCTACAGAATCCCTGGAAAG
CGTGCGCCGCTCCCTCCGCTTGCGAATCCAAGGAGAGGAAGCCAGCGAGAAGAAC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_025779
Insert Size:	1038 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
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:	<ol style="list-style-type: none"> 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_025779.3 , NP_080055.2
RefSeq Size:	1332 bp
RefSeq ORF:	1038 bp
Locus ID:	66815
UniProt ID:	Q810S1
Cytogenetics:	3 G3
Gene Summary:	<p>Negatively regulates the activity of MCU, the mitochondrial inner membrane calcium uniporter, and thereby modulates calcium uptake into the mitochondrion. Does not form functional calcium channels by itself. Mitochondrial calcium homeostasis plays key roles in cellular physiology and regulates cell bioenergetics, cytoplasmic calcium signals and activation of cell death pathways.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>