

## Product datasheet for **SC106107**

### CCDC109B (MCUB) (AL832311) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CCDC109B (MCUB) (AL832311) Human Untagged Clone
Tag:	Tag Free
Symbol:	CCDC109B
Synonyms:	MCUb
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AL832311, the custom clone sequence may differ by one or more nucleotides

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GCAGCCCCTTGAACAGGTGAAAGCTGGAATAGAAGCTCATTTCGGAAGCCAAAACCAGTGGACTCCTGTGG
GCTGGATTGGCACTGCTGTCCATTAGGGTGGGCACTGGCCTGGCTCACGTGGTGGGTGTACTCCTGGG
ATATCATGGAGCCAGTTACATACTTCATCACATTTGCAAATCTATGGTCTTTTTGCATACTTTATAGT
CACTCGACAGGTGAGTAGTTTGTAGGAAAATGGTAAGTTAGAACATCTTGCAAAGAATGCTTATCTA
AGCAATGAGCAAAAAAGCCTTTTTATTTACTGAATTACTGCCATCTGGTTTTATGAGCTGGTAAATTTT
TTATTGTTTTTACAAGACTGAATGAAGACTCACAAACACAGAGAAATTATATAACTTCTTTGGAGAAG
TAATTAGTGAACACACAAATTCCTCCATTGGGATAAATATGTGTCTCTGTGCCCTCATTATAAAAAA
AAACTGAATTTGCATTGCAAAACATTCAGTAACATCAGCTTTGCCTCATGGTTATTTAATATGCCAAAA
TCTCCCTTTTCTTATTTCTTCTTCTTCCATTATGTGTAATTTCTTCCAGCTTGCTGTTTTT
TGAAAGGAGCAGCAGATCTTAAATGAGACTAAATGTTTTGTGGCTTATGCTTACTCTCATGGCCATT
GCAAATATTTCACTCATTATCTGCCTTCTTTGCTTTGGTGTGCTGAGTCAAGTATCTTTCTTGAGA
GGCATTATGTTTCATTCAAACATGTTGTTTTCTTCTCTCTCTTTTTTTTTAAGGATTATACTTACTC
AGCTGTTAAGAGTAGGCAATTTCTCAGTTCTCCACAAGAAATCAAAGCAACAGCACTTTGATGTGCAG
CAATACAACAAGTTAAAAGAAGACCTTGCTAAGGCTAAAGAATCCCTGAAACAGGCGCGTCATTCTCT
GTTTGCAATGCAAGTAGAAGAAGCAATGAAAAGAATTAATCTTACAGTTTTAAATGTCGTCAGATTTT
CCATTATGATTGATTTTGAACACTTAGGATGTTTTGAGTCCCATGGTTCATTTTGATTGTTAATCTTT
GTTATTAATTCTGTAAAAACAAAAAAAAAAAAAAAAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for AL832311 unedited GGTGTGCAAATTAGGTAATACGACTCATATAGGCGGCNCGCGATTTCGGCACGAGGGTGT CTCTGTGCCCTCATTTATCCCAATGGCAGAATTTGCATTGCAAAACATTCAGTAACATCA GCTTTGCCTCATGGTTATTTAATATGCCAAAAATCTCCCTTTTCTATTTCTTCCTTCT CTTTCCATTATGTGTAATTTCTTCCAGCTTGCTGTTTTGAAAGGAGCAGCAGAT CTTAAATGAGACTAAATGTTTTGTGGCTTATGCTTACTCTCATGGCCATTGCAATA TTTCACTATTCATCTGCCTTCTTTGCTTTGGTGTGCTGAGTCAAGTATCTTTCTTGC AGCGGCATTATGTTCAATCAAAACATGTTGTTTTCTTCTCTCTCTCTTTTTTTTTAAGG ATTATACTTACTCATCTGTTAAGAGTAGGCAATTCCTTCAGTCTTCCACAAGAATCA AAGCAACAGCACTTTGACGTGCAGCAATACAACATGTTAAAAGAAGACCTTGCTAAGGTA TACTACAAATACATCCTATAGCCGGTTTGTGGGAGCCAGAACTTACTACCAGGGAAGC ATAACTCGGGCTCATCCTTACCAAAATTAATCTTGGTCTATATTTCTGTGTGTGTGGG GATTGCTCATTGAAATGGCTCGCCATTTAATATTAATCCCTCTCCACTTCTACTCTT CTGTCCACCAAAATAGCTTTAAATGCTGCGCTAAAATCCCAAATGACCTTAAATACTC AAATAAAATTTTACCTGGAAATCTTTTAAACAATATTAATAAAACCCCTTTAAGAGCGC AAACCTGTATAAAGAACCTCACGCCTTTTAAAGTCTTTGCCCCAGATCAAAAACATTTT CCTTCCCCCTCAATCTTTTC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AL832311
<b>Insert Size:</b>	3000 bp
<b>OTI Disclaimer:</b>	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>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="#">AL832311.1</a>
<b>RefSeq Size:</b>	1158 bp
<b>RefSeq ORF:</b>	1158 bp
<b>Locus ID:</b>	55013
<b>Cytogenetics:</b>	4q25
<b>Protein Families:</b>	Transmembrane

**Gene Summary:**

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]