

## Product datasheet for **SC327798**

### CCDC109B (MCUB) (NM\_017918) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CCDC109B (MCUB) (NM_017918) Human Untagged Clone
Tag:	Tag Free
Symbol:	CCDC109B
Synonyms:	CCDC109B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC327798 representing NM_017918. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGTTGTCAACAGTTGGTTCATTCTTCAGGACCTACAAAATGAAGATAAGGGTATCAAACTGCAGCC
ATCTTCACAGCAGATGGCAACATGATTTTCAGCTTCTACCTTGATGGATATTTTGCTAATGAATGATTTT
AACTTGTCAATAAAAATAGCATATGATGTGCAGTGTCCAAGAGAGAAAAACCAAGTAAAGAGTCT
ACTGCTGAGATGGAACACATGAAATCCTTGGTTCACAGACTATTTACAATCTTGCAATTTAGAAGAGTCT
CAGAAAAAGAGAGAGCACCATTTACTGGAGAAAATTGACCACCTGAAGGAACAGCTGCAGCCCTTGAA
CAGGTGAAAGCTGGAATAGAAGCTCATTGGAAGCCAAAACAGTGGACTCCTGTGGGCTGGATTGGCA
CTGCTGTCCATTCAGGGTGGGGCACTGGCTGGCTCACGTGGTGGGTGTACTCCTGGGATATCATGGAG
CCAGTTACATACTTCATCACATTTGCAAATTCATGGTCTTTTTGCATACTTTATAGTCACTCGACAG
GATTATACTTACTCAGCTGTTAAGAGTAGGCAATTTCTTCAGTCTTCCACAAGAAATCAAAGCAACAG
CACTTTGATGTGCAGCAATACAACAAGTAAAAGAAGACCTTGCTAAGGCTAAAGAATCCCTGAAACAG
GCGCGTCATTCTCTGTTTGCAAATGCAAGTAGAAGAACTCAATGAAAAGAAATTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_017918
Insert Size:	747 bp



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<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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA
<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>	<u><a href="#">NM_017918.4</a></u>
<b>RefSeq Size:</b>	1298 bp
<b>RefSeq ORF:</b>	747 bp
<b>Locus ID:</b>	55013
<b>UniProt ID:</b>	<u><a href="#">Q9NWR8</a></u>
<b>Cytogenetics:</b>	4q25
<b>Domains:</b>	DUF607
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	28.8 kDa
<b>Gene Summary:</b>	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]