

Product datasheet for **SC319093**

CCDC109B (MCUB) (NM_017918) Human Untagged Clone

Product data:

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| 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-AC (PS100020) |
| E. coli Selection: | Ampicillin (100 ug/mL) |

Fully Sequenced ORF: >OriGene sequence for NM_017918.3
 CAGGCGCTGACGAGGAGCCCGGCTGAGGGAGGATGCGCCGCTGACGCCTGCGGGAGCCGC
 GCGCCTGGGGCGGGAGGATGCTCCAGAGGGCCCTGCGCCGTGGCGCACGCGGCTGCTGC
 CGACCCCTGGCACCTGGCGCCCGCGCCCGTGGCCGCTGCGCCCTCCGCCCCAGGTTT
 TGCGTGTGAAGCTGTGTGAAATGTGAAATACTACCAGTCACACCATTATAGTACCGTGG
 TGCCACCTGATGAAATAACAGTTATTTATAGACATGGCCTTCCCTTGGTAACACTTACCT
 TGCCATCTAGAAAAGAACGTTGTCAATTCGTAGTCAAACCAATGTTGTCAACAGTTGGTT
 CATTCTTCAGGACCTACAAAATGAAGATAAGGGTATCAAACACTGCAGCCATCTTCACAG
 CAGATGGCAACATGATTTACGCTTCTACCTTGATGGATATTTTGCTAATGAATGATTTTA
 AACTTGCATTAATAAAAATAGCATATGATGTGCAGTGTCCAAAGAGAGAAAAACCAAGTA
 ATGAGCAGACTGCTGAGATGGAACACATGAAATCCTTGGTTCACAGACTATTTACAATCT
 TGCATTTAGAAGAGTCTCAGAAAAAGAGAGAGCACCATTTACTGGAGAAAATTGACCACC
 TGAAGGAACAGCTGCAGCCCTTGAACAGGTGAAAGCTGGAATAGAAGCTCATTGGAAG
 CCAAAACAGTGGACTCCTGTGGGCTGGATTGGCACTGCTGTCCATTCAGGGTGGGGCAC
 TGGCCTGGCTCACGTGGTGGGTGACTCCTGGGATATCATGGAGCCAGTTACATACTTCA
 TCACATTTGCAAATCTATGGTCTTTTTTGCACTTTTATAGTCACTCGACAGGATTATA
 CTTACTCAGCTGTTAAGAGTAGGCAATTTCTTCAGTCTTCCACAAGAAATCAAAGCAAC
 AGCACTTTGATGTGCAGCAATACAACAAGTTAAAAGAAGACCTTGCTAAGGCTAAAGAAT
 CCCTGAAACAGGCGCGTCACTCTCTGTTTGGCAATGCAAGTAGAAGAACTCAATGAAA
 AGAATTAATCTTACAGTTTTAAATGTCGTGAGATTTTCCATTATGATTGATTTTGAAC
 TTAGGATGTTTTGAGTCCCATGGTTCATTTTGATTGTTAATCTTTGTTATTAATTCT
 TGTAACAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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| Restriction Sites: | Please inquire |
| ACCN: | NM_017918 |



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| 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). |
| OTI Annotation: | 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. |
| 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: | <u>NM_017918.3</u> , <u>NP_060388.1</u> |
| RefSeq Size: | 1236 bp |
| RefSeq ORF: | 747 bp |
| Locus ID: | 55013 |
| UniProt ID: | <u>Q9NWR8</u> |
| Cytogenetics: | 4q25 |
| Domains: | DUF607 |
| Protein Families: | 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] |