

## Product datasheet for **SC330559**

### CCDC51 (NM\_001256964) Human Untagged Clone

#### Product data:

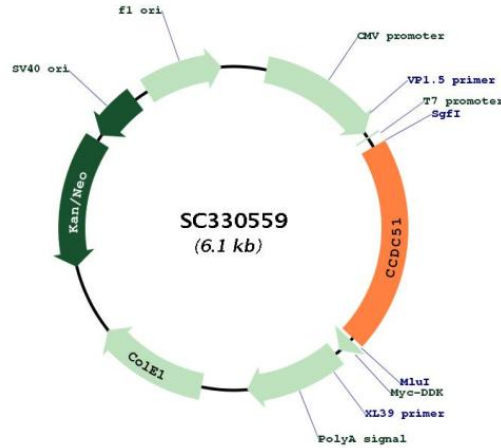
**Product Type:** Expression Plasmids  
**Product Name:** CCDC51 (NM\_001256964) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** CCDC51  
**Synonyms:** MITOK  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC330559 representing NM\_001256964.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGATGGGGCGCAGCCCTGGGTTTGCCATGCAGCACATCGTGGGTGTGCCCCACGTACTGGTTCGGAGG  
 GGCCTCCTTGAAGGGACCTCTTCATGACCAGGACTCTCTGCAGCCAGGCCAAGCCAGCCCGGAGAG  
 AAAAGACCTGAGGAGGTGGCCCTGGGGCTGCACCACCGCCTCCCAGCACTGGGAAGAGCCCTGGGGCAC  
 AGCATTACGACAACGAGCGACCTCCACAGCCAAGACTTGGTGGGACAGATATGAAGAGTTTGTGGACTC  
 AACGAGGTTTCGAGAGGCCAGGAAAGGTGACAGAGGCTGAGAAAGTGTTCATGGTGGCTCGAGGGCTT  
 GTCCGAGAGGCTCGGGAGGACTTGAAGTTCACCAGGCCAAGCTGAAGGAGGTGAGGGACCGCTTGGAC  
 CGTGTCTCCAGGGAGGACAGTCAGTACTTGAAGTGGCTACTCTCGAGCACAGGATGCTGCAGGAGGAG  
 AAGAGGCTTCGCACAGCCTATCTGCGTGCAGAAGACTCTGAGCGAGAGAAGTTCTCCCTCTCTCTGCA  
 GCTGTGCGGGAAAGTCATGAGAAGGAGCGCACAAGGGCTGAGAGGACCAAGAAGTGGTCCCTCATTGGC  
 TCAGTCTGGGGCCCTGATTGGTGTGGCTGGCTCCACCTATGTGAACCGTGTGCGACTACAGGAGCTG  
 AAGGCTTACTCCTGGAGGCGCAGAAGGGCCCTGTGAGTCTCCAAGAGGCCATTCGAGAACAGGCGTCT  
 AGTACTCCCGCCAGCAGAGGGACCTCCACAATCTCATGGTGGACTTGGGGCCCTGGTACATGTGCT  
 GGGCCAGGGCAGGACTCTGGGTACAGGCAGGTAGTCCCCGACCAGAGACAGAGATGTAGATGTCTT  
 TCAGTGCCTTGAAGAGCAGCTTAGTCATTCCAGGCAAGTCCATTTCATGTCTAGAAGGCTTACGAGAG  
 CAGCTTGATGGCCTAGAAAAGACTTGTAGCCAAATGGCTGGGGTGGTTCAGCTTGTAAAGTCTGCAGCA  
 CACCCAGGCTGGTGAACCAGCAGACGGGGCTATGCCAGCTTCTTGCTGGAGCAGGGGAGCATGATC  
 TTGGCACTGTCAGACACGGAGCAGAGACTAGAAGCCCAAGTCAACAGGAACACCCTATAGCACCTGT  
 GTCACCTGTGTGACATTTGTGGCCACACTGCCTGTGCTCTACATGCTATTCAAAGCCAGCTAA

**Restriction Sites:** SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001256964

**Insert Size:** 1236 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\\_001256964.1](#)

**RefSeq Size:** 1627 bp

**RefSeq ORF:** 1236 bp

Locus ID: 79714

UniProt ID: [Q96ER9](#)

Cytogenetics: 3p21.31

Protein Families: Transmembrane

MW: 45.8 kDa

**Gene Summary:** Mitochondrial potassium channel located in the mitochondrial inner membrane (PubMed:31435016). Together with ABCB8/MITOSUR, forms a protein complex localized in the mitochondria that mediates ATP-dependent potassium currents across the inner membrane (that is, mitoK(ATP) channel) (PubMed:31435016). May contribute to the homeostatic control of cellular metabolism under stress conditions by regulating the mitochondrial matrix volume (PubMed:31435016).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Variants 1 and 2 encode the same isoform.