

Product datasheet for SC305133

CCDC51 (NM_024661) Human Untagged Clone

Product data:

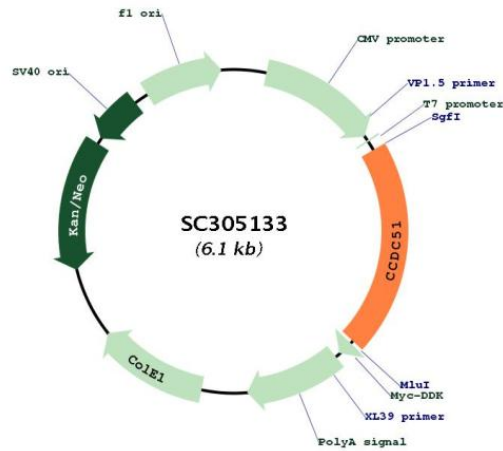
Product Type:	Expression Plasmids
Product Name:	CCDC51 (NM_024661) Human Untagged Clone
Tag:	Tag Free
Symbol:	CCDC51
Synonyms:	MITOK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC305133 representing NM_024661. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGCATCGCC
ATGATGGGGCGCAGCCCTGGGTTTGCCATGCAGCACATCGTGGGTGTGCCCCACGTACTGGTTCCGGAGG
GGCCTCCTTGAAGGGACCTCTTCATGACCAGGACTCTCTGCAGCCAGGCCAAGCCAGCCCGGAGAG
AAAAGACCTGAGGAGGTGGCCCTGGGGCTGCACCACCGCCTCCCAGCACTGGGAAGAGCCCTGGGGCAC
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AACGAGGTTTCGAGAGGCCAGGAAAGGTGACAGAGGCTGAGAAAGTGTTTCATGGTGGCTCGAGGGCTT
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TCAGTGCCTTGAAAGAGCAGCTTAGTCATTCCAGGCAAGTCCATTTCATGTCTAGAAGGCTTACGAGAG
CAGCTTGATGGCCTAGAAAAGACTTGTAGCCAAATGGCTGGGGTGGTTCAGCTTGTAAAGTCTGCAGCA
CACCCAGGCTGTGGAACAGCAGACGGGGCTATGCCAGCTTCTTGCTGGAGCAGGGGAGCATATC
TTGGCACTGTCAGACACGGAGCAGAGACTAGAAGCCCAAGTCAACAGGAACACCCTATAGCACCTGT
GTCACCTGTGTGACATTTGTGGCCACACTGCCTGTGCTTACATGCTATTCAAAGCCAGCTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:


ACCN: NM_024661

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).

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:

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_024661.4](#)

RefSeq Size: 1519 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 (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform (1).