

## Product datasheet for **RC232426**

### CCDC51 (NM\_001256968) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CCDC51 (NM\_001256968) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** CCDC51  
**Synonyms:** MITOK  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC232426 representing NM\_001256968  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGTGGCTCGAGGGCTTGCCGAGAGGCTCGGGAGGACTTGAAGTTCACCAGGCCAAGCTGAAGGAGG  
TGAGGGACCGCTTGGACCGTGTCTCCAGGGAGGACAGTCAGTACTTGAAGTGGTACTCTCGAGCACAG  
GATGCTGCAGGAGGAGAAGAGGCTTCGCACAGCCTATCTGCGTGCAGAAGACTCTGAGCGAGAGAAGTTC  
TCCTCTTCTCTGCAGCTGTGCGGGAAAGTCATGAGAAGGAGCGACAAGGGCTGAGAGGACCAAGAAGT  
GGTCCCTCATTGGCTCAGTCCTGGGGCCCTGATTGGTGTGGCTGGCTCCACCTATGTGAACCGTGTGCG  
ACTACAGGAGCTGAAGGCTTTACTCCTGGAGGCGCAGAAGGGCCCTGTGAGTCTCCAAGAGGCCATTCTGA  
GAACAGGCGTCTAGTACTCCCGCCAGCAGAGGGACCTCCACAATCTCATGGTGGACCTGAGGGGCTGG  
TACATGCTGTGGGCCAGGGCAGGACTCTGGGTACAGGCAGGTAGTCCCCGACCAGAGACAGAGATGT  
AGATGTCTTTTCTGCTGCCTTGAAGAGCAGCTTAGTCAATCCAGGCAAGTCCATTCATGTCTAGAAGGC  
TTACGAGAGCAGCTTGTGGCTAGAAAAGACTGTAGCCAAATGGCTGGGTGGTTCAGCTTGTAAAGT  
CTGCAGCACACCCAGGCTGGTGAACAGCAGACGGGGCTATGCCAGCTTCTTGTCTGGAGCAGGGGAG  
CATGATCTTGGCACTGTCAGACACGGAGCAGAGACTAGAAGCCCAAGTCAACAGGAACACCATCTATAGC  
ACCTGGTCACCTGTGTGACATTTGTGGCCACACTGCCTGTGCTCTACATGCTATTCAAAGCCAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC232426 representing NM\_001256968  
 Red=Cloning site Green=Tags(s)

MVARGLVREAREDELVHQAKLKEVRDRLDRVSREDSQYLELATLEHRMLQEEKRLRTAYLRAEDSEREKF  
 SLFSAAVRESHEKERTRAERTKNWSLIGSVL GALIGVAGSTYVNRVRLQELKALLLEAQKGPVSLQEAIR  
 EQASSYSRQQRDLHNL MVDLRGLVHAAGPGQDSGSQAGSPPTRDRD VDL SAALKEQLSHSRQVHSCLEG  
 LREQLDGLEKTCSQMAGVVQLVKSAHPGLVEPADGAMPSFLLLEQGS MILALSDTEQRLEAQVNRNTIYS  
 TLVTCVTFVATLPVLYMLFKAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

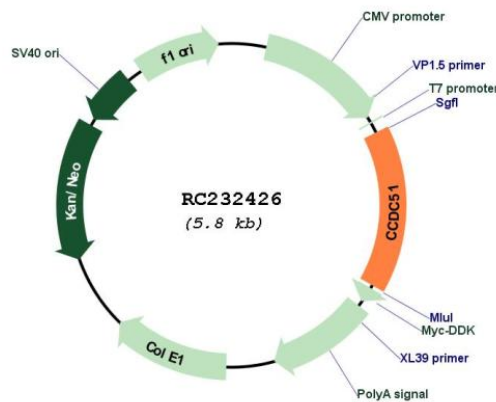
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001256968

**ORF Size:** 906 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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="#">NM_001256968.3</a>
<b>RefSeq Size:</b>	1398 bp
<b>RefSeq ORF:</b>	909 bp
<b>Locus ID:</b>	79714
<b>UniProt ID:</b>	<a href="#">Q96ER9</a>
<b>Cytogenetics:</b>	3p21.31
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	34.1 kDa
<b>Gene Summary:</b>	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]