

## Product datasheet for **SC122380**

### CCDC51 (BC004341) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CCDC51 (BC004341) Human Untagged Clone
Tag:	Tag Free
Symbol:	CCDC51
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC004341 edited TGGGAATGCCTCGCTGGGAATGCAGCTGAGCCTGTGTGGGTGTGGAGAGAAGGTGCAGAT GGCCTCCGGTTTTCTCTTTGCAGGCTGAGAAAGTTCATGGTGGCTCGAGGGCTTGTC GAGAGGCTCGGGAGGACTTGAAGTTCCAGGCAAGCTGAAGGAGGTGAGGGACCGCT TGGACCGTGTCTCCAGGGAGGACAGTCAGTACTTGAAGTGGCTACTCTCGAGCACAGGA TGCTGCAGGAGGAGAAGAGGCTTCGCACAGCCTATCTGCGTGCAGAAGACTCTGAGCGAG AGAAGTTCTCCCTCTTCTGCACTGTGCGGAAAGTCATGAGAAGGAGCGCACAAAGGG CTGAGAGGACCAAGAAGTGGTCCCTCATTGGCTCAGTCTGGGGCCCTGATTGGTGTGG CTGGCTCCACCTATGTGAACCGTGTGCGACTACAGGAGCTGAAGGCTTTACTCTGGAGG CGCAGAAGGGGCTGTGAGTCTCAAGAGGCCATTGAGAACAGGCGTCTAGCTACTCCC GCCAGAGAGGGACCTCCACAATCTCATGGTGGACCTGAGGGGCTGGTACATGCTGCTG GGCCAGGGCAGGACTCTGGGTCACAGGCAGGTAGTCCCCGACCAGAGACAGAGATGTAG ATGTCCTTTTCAGCTGCCTTGAAAGAGCAGCTTAGTCATTCCAGGCAAGTCCATTCATGTC TAGAAGGCTTACGAGAGCAGCTTGTAGGCTAGAAAAGACTTGTAGCCAAATGGCTGGGG TGGTTCAGCTTGTAAAGTCTGCAGCACACCCAGGCTGGTGAACCAGCAGACGGGGCTA TGCCAGCTTCTGCTGGAGCAGGGGAGCATGATCTGGCACTGTCAGACACGGAGCAGA GACTAGAAGCCCAAGTCAACAGGAACACCATCTATAGCACCTGGTCACCTGTGTGACAT TTGTGGCCACACTGCCTGTGCTCTACATGCTATTCAAAGCCAGCTAACCCCTGGCCCTC CTCCAGAGGGTCTGAGGCAATAGCTGTGAATGTGGATTTAAGTAGAGAATCGTAGCAATG AAGCGAGCCTTTGGGGCATGTACAACCTCAATCTGAAGGAGCAGTATCTGTGTGGCTCA CCAGCAGGCATGCTTCGCTTTGTAGACAAGGTTCAATTTACATTAATTATCAAACTTTGT GCTAATGTCCAATTAATAATATCCTGAGTTTTATTATTTAAAAAAAAAAAAAAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC004341 unedited NNAAGACCCGTTCAAAATTGTATACGACTCATATAGGCGGCCGNAATTCGCACGAGG TGGGAATGCCTCGCTGGGAATGCAGCTGAGCCTGTGTGGGTGTGGAGAGAAGGTGCAGAT GGCCTCCGGTTTTCTCTTTCAGGCTGAGAAAGTGTTCATGGTGGCTCGAGGGCTTGCC GAGAGGCTCGGGAGGACTTGAAGTTCACCAGGCCAAGCTGAAGGAGGTGAGGGACCGCT TGGACCGTGTCTCCAGGGAGGACAGTCAGTACTTGAAGTGGCTACTCTCGAGCACAGGA TGCTGCAGGAGGAGAAGAGGCTTCGCACAGCCTATCTGCGTGCAGAAGACTCTGAGCGAG AGAAGTTCTCCCTTTCTCTGCAGCTGTGCGGGAAAGTCATGAGAAGGAGCGCACAAAGGG CTGAGAGGACCAAGAAGTGGTCCCTCATTGGCTCAGTCCTGGGGCCCTGATTGGTGTGG CTGGCTCCACCTATGTGAACCGTGTGCGACTACAGGAGCTGAAGGCTTTACTCCTGGAGG CGCAGAAGGGGCTGTGAGTCTCCAAGAGGCCATTCGAGAACAGGCGTCTAGCTACTCCC GCCAGCAGAGGGACCTCCACAATCTCATGGTGGACCTGAGGGCCCTGGTACATGCTGCTG GGCAGGGCAGGACTCTGGGTCACAGGCAGGTAGTCCCCGACCAGAGACAGAGATGTAG ATGTCCTTTCAGCTGCCTTGAAGAGCAGCTTAGTCATTCCAGGCAAGTCCATTCATGTC TAGAAGGCTTACGAGAGCAGCTTGTATGGCTAGAAAAGACTTGTAGCCAAATGGCTGGGG GTGGTTCAGCTTTGTAAGTCTGCAGCACACC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC004341
<b>Insert Size:</b>	1256 bp
<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>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="#">BC004341.1</a>
<b>RefSeq Size:</b>	1256 bp
<b>Locus ID:</b>	79714
<b>Cytogenetics:</b>	3p21.31
<b>Protein Families:</b>	Transmembrane

**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]