

## Product datasheet for **RN207358**

### **Ccdc51 (NM\_001014098) Rat Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ccdc51 (NM\_001014098) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ccdc51  
**Synonyms:** RGD1311466  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >RN207358 representing NM\_001014098  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACAAGGACTCTGTGCAGTCCAGGTCCAGCCGACCTGGAGAGAAGCGACCAGAAGCTGCAGCCTTAG  
GGCTGTATCATCGCTCCCCGAGTTGGGAAGAACAATAAGCCACACCATTGGAATCAAGCAGCCTCAAC  
TGCCAAGGCTTGGTGGGACAGATATGAGGAGTTTGTAGGACTCAATGAAGTTCGAGAGGCCAGGAAAC  
GTGACAGAGGCGGAGAAAGTGTTTCATGGTGGCAGTGGTCTTGTTCGAGAAGCCCGGAGGATCTAGAAG  
CTCAGCAGACGAAGCTGAAGGAGGTGAGGGACCGCTTGACCGAGTCTCCAGGGAGGACAACCAGTACCT  
GGAAGTGGCTACTTTGGAACACAGGATGCTACAGGAAGAGAAGAGGCTCCGAATAGCATATCTGCGTGCG  
GAAGACTCAGAGCGAGAGAAGTTCTCTCTTCTCTGAGCTGTGCGGGAGAGTACAGAGAAGAGCGTA  
CAAGGGCTGAGAGGACCAAGAAGTGGTCCCTCATTGGGTCAAGTCTAGGAGCTCTGATAGGTGTGGCTGG  
TTCCACCTATGTTAACCGTGTCCGGCTACAAGAAGTGAAGGCCTTACTCCTGGAAGCCAGAAAGGGCCT  
GTGAGCCTCCAGGAGGCCATCCGTGAACAGGCTTCTAGCTATTCCTCCAACAGAAAGACCTCCAGAACC  
TTATGGTGGATCTGAGGGCCTGGTGCACGTTGGCAGGACCAGGGCTCTGGGTACCAACAGGTCTCTC  
TTCTCCCCGAGGAAAAGACATAGATGGCCTTTACGAGAGCAGCTTACAGCCTGGAAAAGACTTGCAGCCAAATGGCTG  
GGTGGTTCGACTTGCAAAGGTCCCGGCATCCAGGCATGGTGGAGCCACTGGATGGGGCCTGCCAG  
CTCTTTGCTGGAACATGGGAGTACGATGTTGGCGCTGTCAGAGATGGAGCAGAGGCTAGAAGCCAGGCC  
AACAGGAATGCCATCTCTAGCACGCTGGTACCTGTGTGACTTTTATGGCCACATTGCCGCTGCTTACA  
TGCTATTCAAGACCAGT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001014098
<b>Insert Size:</b>	1140 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>	<u><a href="#">NM_001014098.1</a></u> , <u><a href="#">NP_001014120.1</a></u>
<b>RefSeq Size:</b>	1530 bp
<b>RefSeq ORF:</b>	1140 bp
<b>Locus ID:</b>	316008
<b>UniProt ID:</b>	<u><a href="#">Q5PPN7</a></u>
<b>Cytogenetics:</b>	8q32
<b>Gene Summary:</b>	Mitochondrial potassium channel located in the mitochondrial inner membrane. 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). May contribute to the homeostatic control of cellular metabolism under stress conditions by regulating the mitochondrial matrix volume.[UniProtKB/Swiss-Prot Function]