

## Product datasheet for MC210412

### Ccdc51 (NM\_025689) Mouse Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Ccdc51 (NM\_025689) Mouse Untagged Clone  
 Tag: Tag Free  
 Symbol: Ccdc51  
 Synonyms: 5730568A12Rik; AI551049  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >MC210412 representing NM\_025689  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGACAGGGTGCAGCCCCGTGTTTCGCAATGCAGCACGTGGTGGGTACCCCGTATACTGGTACGGAGAA  
 CCTTCCTTGGGACGGACGTCACCATGACAAGACTCTGTGCAGTCCAGGTCAGAGAGAAGCGACCGGA  
 AGCCGCAGCCTTAGGGCTTTTACCAGCCTCCCGAATTGGGAAGAAGACTGAGCCACACCGTTCGCCAT  
 CAAGCAGCCTCTACTGCCAAGGCTTGGTGGGACAGATATGAAGAGTTTGTGGGACTCAATGAAGTTCGGG  
 AGGCCAGGAAACGTGACAGAGCGGAGAAAAGTGTTCATGGTGGCTCGTGGGCTTGTTCGAGAAGCTCG  
 GGAGGGTTTGAAGCTCAGCAGACTAAGCTGAAGGAGGTGAGGGACCGCTTGGACCGAGTCTCCAGGGAG  
 GACAACCAGTACCTGGAGCTGGCCACTTTGGAGCACAGGATGCTACAGGAAGAGAAGAGGCTCCGAATAG  
 CATACCTGCGTGCAGAAGACTCAGAGCGAGAGAAGTTCTCTCTCTCTGCAGCTGTGCCGGAGAGTCA  
 TGAGAAAGAGCGTACAAGGGCTGAGAGGACCAAGAAGTGGTCCCTTATTGGTCAAGTCTAGGAGCTCTG  
 ATAGGTGTGGCCGTTCCACCTATGTTAACCGCTCCGGCTACAGGAGCTGAAGGCCTTACTCCTGGAAG  
 CACAGAAAGTCTCGAGTCTCCAGGAGCCATCCGTGAACAGGCTTAGCTATTCCCTCCAACAGAA  
 AGACCTCAGGACCTTATGATGGATCTGAGGGCCCTGGTGCACGCCGAGCAGGGCCAGGGCTCCGGGTCA  
 CCAACAGGTTCTTCTACCAGAGGAAAAGACATAGATGGCCTTTACGCCACCATGAAAAGAGCAGCTCCGTC  
 ATTCCAGGCAGTCTATTCTGCCTAGAGGGTTTACGAGAGCAGCTTGTGGCCTGGAAAAGACTTGCAG  
 TCAAATGGCTGGGGTGTTCAGCTGGCACAGGCTCCAGCACATCCAGGCACGGTGGGGCCGGTGGATGGG  
 GCCCTGCCAGCTCCTTGTGGAACACGGGAGTGTGATCTTGGCCCTGTCAGAGATGGAGCAGAGGCTAG  
 AAGCCCAGGCTAACAGGAACACTGTCTTAGCACACTGGTACCTGTGTGACCTTCTGGCCACATTGCC  
 TCTGCTTACATGCTGTTCAAGACCAGT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_025689
<b>Insert Size:</b>	1221 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="#">NM_025689.4</a> , <a href="#">NP_079965.2</a>
<b>RefSeq Size:</b>	2397 bp
<b>RefSeq ORF:</b>	1221 bp
<b>Locus ID:</b>	66658
<b>UniProt ID:</b>	<a href="#">Q3URS9</a>
<b>Cytogenetics:</b>	9 F2
<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]