

Product datasheet for **RR207358**

Ccdc51 (NM_001014098) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ccdc51 (NM_001014098) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ccdc51
Synonyms:	RGD1311466
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR207358 representing NM_001014098 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACAAGGACTCTGTGCAGTCCAGGTCCAGCCGACCTGGAGAGAAGCGACCAGAAGCTGCAGCCTTAG
GGCTGTATCATCGCTCCCCGAGTTGGGAAGAACAATAAGCCACACCATTCCGGAATCAAGCAGCCTCAAC
TGCCAAGGCTTGGTGGGACAGATATGAGGAGTTTGTAGGACTCAATGAAGTTCGAGAGGCCAGGAAAC
GTGACAGAGGCGGAGAAAGTGTTTCATGGTGGCAGGTGGTCTTGTTCGAGAAGCCCGGAGGATCTAGAAG
CTCAGCAGACGAAGCTGAAGGAGGTGAGGGACCGCTTGGACCGAGTCTCCAGGGAGGACAACCAAGTACCT
GGAAGTGGCTACTTTGGAACACAGGATGCTACAGGAAGAGAAGAGGCTCCGAATAGCATATCTGCGTGCG
GAAGACTCAGAGCGAGAGAAGTTCTCTCTTCTCTGAGCTGTGCGGGAGAGTCAAGAGAAAGAGCGTA
CAAGGGCTGAGAGGACCAAGAAGTGGTCCCTCATTGGGTCAGTTCTAGGAGCTCTGATAGGTGTGGCTGG
TTCCACCTATGTTAACCGTGTCCGGCTACAAGAAGTGAAGGCCTACTCCTGGAAGCCAGAAAGGGCCT
GTGAGCCTCCAGGAGGCCATCCGTGAACAGGCTTCTAGCTATCCCTCCAACAGAAAGACCTCCAGAACC
TTATGGTGGATCTGAGGGCCCTGGTGCAGTTGGGCAGGACCAGGGCTCTGGGTACCAACAGGTCCTTC
TTCTCCCGAGGAAAAGACATAGATGGCCTTTCAGCTGCCATGAAAGAGCAGCTCAATCATTCCCGGACG
GTCTATTCTGCCTAGAGGGTTTACGAGAGCAGCTTGACAGCCTGAAAAAGACTTGCAGCCAAATGGCTG
GGGTGGTTCGACTTGCAAAGGTCCCGGCACATCCAGGCATGGTGGAGCCACTGGATGGGGCCCTGCCAG
CTCTTTGCTGGAACATGGGAGTACGATGTTGGCGCTGTCAGAGATGGAGCAGAGGCTAGAAGCCAGGCC
AACAGGAATGCCATCTCTAGCACGCTGGTACCTGTGTGACTTTTATGGCCACATTGCCGCTGCTCTACA
TGCTATTCAAGACCAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR207358 representing NM_001014098
Red=Cloning site Green=Tags(s)

MRTLCSPGPSRPGKRPEAAALGLYHRLPELGRTL SHTIRNQAASTAKAWWDRYEEFVGLNEVREAQGN
 VTEAEKVFMVARGLVREAREDLAQQTKLKEVRDRLDRVSREDNQYLELATLEHRMLQEEKRLRIAYLRA
 EDSEREKFSLFSAAVRESHEKERTRAERTKNWSLIGSVLGALIGVAGSTYVNRVRLQELKALLLEAQKGP
 VSLQEAIREQASSYSLQKQDLQNL MVDLRGLVHVGDQDQSGSPTGPSSPRGKDIDGLSAAMKEQLNHSRQ
 VYSCLEGLREQLDSLEKTCQMAGVVRLLAKVPAHPGMVEPLDGALPSSLLEHGSTMLALSEMQRLEAQA
 NRNAISSTLVTCVTFMATLPLL YMLFKTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

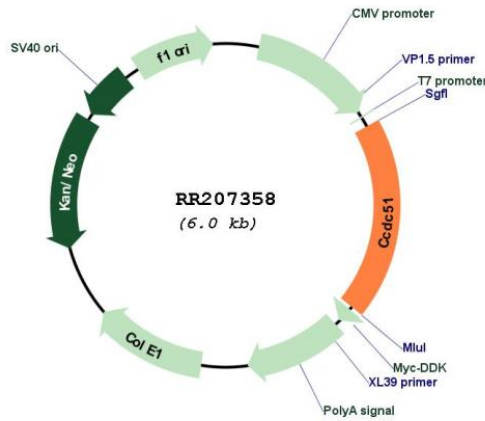
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001014098

ORF Size:	1137 bp
OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<ol style="list-style-type: none">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_001014098.1 , NP_001014120.1
RefSeq Size:	1530 bp
RefSeq ORF:	1140 bp
Locus ID:	316008
UniProt ID:	Q5PPN7
Cytogenetics:	8q32
MW:	42.3 kDa
Gene Summary:	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]