

Product datasheet for RC221749

DCDC1 (NM_181807) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DCDC1 (NM_181807) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DCDC1
Synonyms:	DCDC5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221749 representing NM_181807 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAAAACAGGAGCAGAAGATCACAGAGAAGCACTATCTCAGTCTTCCTTATCCCTCTTGACTGAAG
CAATGGAAGTATTACAGCAAAGTAGCCCTGAAGGCACTTTGGATGGGAATACTGTAACCCCAATTTACAA
ATATATTTGAATGATTTACCAAGAGAGTTTATGTCATCCAGGCAAAAGCAGTTATTAACACTACTGAT
GATTATTTGCAGTCTCAGTTTGGCCCAACAGACTCGTGCATTACAGCAGCAGTATCAGAAGGGTCAGGAC
TTCAAGATTGCTCCACACATCAAACAGCATCAGATCACAGCCATGATGAAATATCAGACCTAGATAGCTA
CAAATCAAACAGTAAAAACAATTCCTGTTCTATATCAGCATCCAAGAGAAACAGACCTGTGAGTGTCCCA
GTGGGTCAACTGAGGGTTGCAGATTTCTCTTTAAAAATTTTCAGTCAGCCCGGAATTGGCAGAAATTTGT
CTCAAAGACACAACTTCAACCAAGAGTGATTAAGTAACAGCTTACAAAAATGGATCTAGAACAGTCTT
TGCCAGAGTACTGTACCAACCATCACCTTGCTGCTGGAGGAGTGACAGAAAAGCTGAATCTGAACATG
GCCGCAAGACGAGTGTCTTGGCAGACGGCAAGGAAGCCCTCGAACCTGAAGATATACCCCATGAAGCCG
ATGTTTATGTTTCAACGGGAGAGCCCTTTTAAATCCATTCAAAAAATTAAGACCATCTGTTGTTAAT
TAAGAAAGTAACCTGGACAATGAATGGTTGATGCTTCTACTGATATCAAAAAGACGGAAAACCAAGCCT
GTTCTTTCTATTAGAATGAAGAACTTACTGAGAGGACCTCAGTCCGAATTCTGTTCTTTAAGAATGGCA
TGGGGCAGGATGGGCATGAGATTACAGTGGGAAAAGAAAACAATGAAAAAGGTTTTAGATACTTGTACAAT
AAGAATGAATCTAAATTTACCAGCCAGATATTTTTATGATTTGTATGGCAGAAAAATTAAGATATTTCA
AAAGGAAAGCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC221749 representing NM_181807
Red=Cloning site Green=Tags(s)

MAKTGAEDHREALSQSSLSLLTEAMEVLQSSPEGLDGNTPVNPYKYILNDLPREFMSSQAKAVIKTTD
 DYLSQFQPNRLVHSAAVSEGLQDCSTHQTASDHSDEISDLDSYKSNKNNSCSISASKRNRPVSA
 VGQLRVAEFSSLKFQARNWQKLSQRHKLQPRVIKVTAYKNGSRTVFARVTVPTITLLLECTEKLNLNM
 AARRVFLADGKEALEPEDIPHEADVYVSTGEPFLNPFKKIKDHLLLIKKTWTMNGMLMLPTDIKRRKTKP
 VLSIRMKKLTERTSVRILFFKNGMGQDGHEITVGKETMKKVLDTCTIRMNLNLPARYFYDLYGRKIEDIS
 KGKH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8039_h10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_181807

ORF Size: 1062 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:

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_181807.4](#)

RefSeq Size: 1719 bp

RefSeq ORF: 1065 bp

Locus ID: 341019

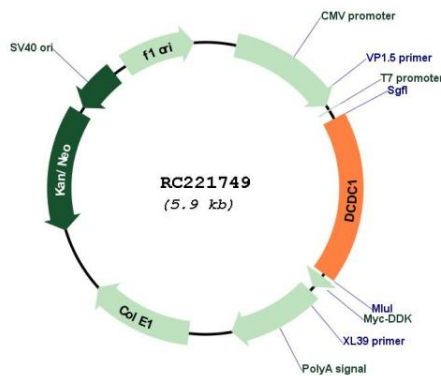
UniProt ID: [Q6ZRR9](#)

Cytogenetics: 11p13

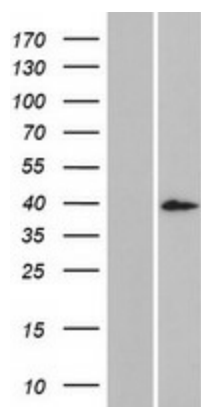
MW: 39.7 kDa

Gene Summary: This gene encodes a member of the doublecortin family. The protein encoded by this gene is a hydrophilic, intracellular protein. It contains a single doublecortin domain and is unable to bind microtubules and to regulate microtubule polymerization. This gene is mainly expressed in adult testis. It does not have a mouse homolog. [provided by RefSeq, Sep 2010]

Product images:



Circular map for RC221749



Western blot validation of overexpression lysate (Cat# [LY405598]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221749 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).