

Product datasheet for **RC231222**

DCAMKL1 (DCLK1) (NM_001195415) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DCAMKL1 (DCLK1) (NM_001195415) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DCAMKL1
Synonyms:	CL1; CLICK1; DCAMKL1; DCDC3A; DCLK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC231222 representing NM_001195415
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTAGAACTCATAGAAGTTAATGGAACCCCTGGTAGTCAGCTCTCTACTCCGCGCTCAGGCAAGTCGC
 CAAGCCCATCACCCACCAAGCCTGCGGAAGCAGAGGAGCTCTCAGCATGGCGGCTCCTCTAC
 GTCACCTTTCGCTCCACCAAGTCTGCAGCTCGATGGATGAGAACGATGGCCCTGGAGAAGAAGTGTGGAG
 GAAGGCTTCCAGATTCCAGCTACAATAACAGAACGATATAAAGTCGGAAGAAACAATAGGAGATGGAATT
 TTGCTGTTGTCAAGGAATGTGTAGAAAGATCGACTGCTAGAGAGTATGCTCTGAAAATTATCAAGAAAAG
 CAAATGTCGAGGCAAAGAGCACATGATCCAGAATGAAGTGTCTATTTTAAGAAGAGTGAAGCATCCCAAT
 ATCGTTCTTCTGATTGAGGAGATGGATGTGCCAAGTGAAGTGTCTTGTCTGATGGAATTAGTAAAGGGG
 GAGACCTTTTGGATGCCATTACTTCCACTAACAAATACACGAGAGAGACGCCAGTGGGATGCTGTACAA
 CCTAGCCAGCGCCATCAAATACCTGCATAGCCTGAACATCGTCCACCGTATATCAAGCCAGAGAACCTG
 CTGGTGTATGAGACCAAGATGGCAGCAAATCACTGAAGCTGGGTGACTTTGGACTGGCCACCATTTGTAG
 ACGGCCCCCTGTACACAGTCTGTGGCACCCCAACATACGTGGCTCCAGAAATCATTGCAGAGACTGGATA
 CGGCCTCAAGGTGGACATCTGGGCAGCAGGTGTAATCACTTATATCCTGCTGTGTGGTTTCCCTCCATT
 CGTGGAAGTGGTATGACCAGGAGGTGCTTTTGTATCAGATTTTGTATGGGCAGGTGGACTTTCTTCTC
 CATACTGGGATAATGTTCCGATTCTGCAAAGGAGCTCATTACCATGATGCTGTTGGTCGATGTAGATCA
 GCGATTTTCTGCTGTTCAAGTACTTGAGCATCCCTGGGTTAATGATGATGGCCTCCAGAAAATGAACAT
 CAGCTGTCAGTAGCTGGAAGATAAAGAAGCATTTCAACACAGGCCCAAGCCGAATAGCACAGCAGCTG
 GAGTTTCTGTCATAGCACTGGACCACGGGTTTACCATCAAGAGATCAGGGTCTTTGGACTACTACCAGCA
 ACCAGGAATGTATTGGATAAGACCACCGCTCTTGATAAGGAGAGGCAGGTTTCCGACGAAGACGCAACC
 AGGATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC231222 representing NM_001195415
 Red=Cloning site Green=Tags(s)

MLELIEVNGTPGSQLSTPRSGKSPSPSPSPGSLRKQRSSQHGGSSSTSLASTKVCSSMDENDGPGEVSE
 EGFQIPATITERYKVGRTIGDGNFAVVKECVERSTAREYALKIHKSKCRGKEHMIQNEVSILRRVKHPN
 IVLLIEEMDVPTELYLMELVGGDLFDAITSTNKYTERDASGMLYNLASAIKYLHSLNIVHRDIKPNL
 LVYEHQDGSLSKLKGLDFLATIVDGPLYTVCGTPTYVAPEIIAETGYGLKVDIWAAGVITYILLCGFPPF
 RSGDDQEVLFQILMGQVDFPSPYWDNVSDSAKELITMMLLVDVDQRFSAVQVLEHPWVNDGLPENEH
 QLSVAGIKKHFNTGPKPNSTAAGVSVIALDHGFTIKRSGSLDYYQQPGMYWIRPPLLIRRGRFSDEDAT
 RM

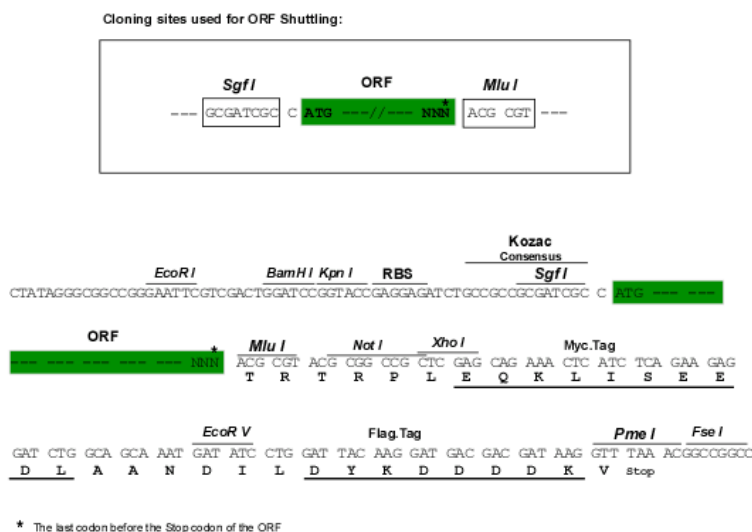
TRTRPLE**QKLISEEDLAANDILDYKDDDDKV**

Chromatograms:

https://cdn.origene.com/chromatograms/mk8058_g06.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001195415

ORF Size: 1266 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001195415.1](#), [NP_001182344.1](#)

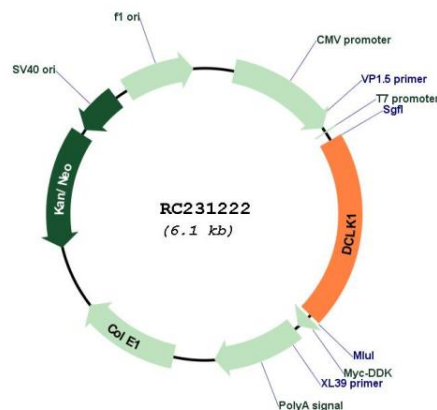
RefSeq ORF: 1269 bp

Locus ID: 9201

UniProt ID: [O15075](#)

Cytogenetics:	13q13.3
Protein Families:	Druggable Genome, Protein Kinase
MW:	47 kDa
Gene Summary:	<p>This gene encodes a member of the protein kinase superfamily and the doublecortin family. The protein encoded by this gene contains two N-terminal doublecortin domains, which bind microtubules and regulate microtubule polymerization, a C-terminal serine/threonine protein kinase domain, which shows substantial homology to Ca²⁺/calmodulin-dependent protein kinase, and a serine/proline-rich domain in between the doublecortin and the protein kinase domains, which mediates multiple protein-protein interactions. The microtubule-polymerizing activity of the encoded protein is independent of its protein kinase activity. The encoded protein is involved in several different cellular processes, including neuronal migration, retrograde transport, neuronal apoptosis and neurogenesis. This gene is up-regulated by brain-derived neurotrophic factor and associated with memory and general cognitive abilities. Multiple transcript variants generated by two alternative promoter usage and alternative splicing have been reported, but the full-length nature and biological validity of some variants have not been defined. These variants encode different isoforms, which are differentially expressed and have different kinase activities.[provided by RefSeq, Sep 2010]</p>

Product images:



Circular map for RC231222