

## 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)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC231222 representing NM\_001195415  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTTAGAAGTTCATAGAAGTAAATGGAACCCCTGGTAGTCAGCTCTCTACTCCGCGCTCAGCAAGTCGC  
 CAAGCCCATCACCCACCAGCCAGGAAGCCTGCGAAGCAGAGGAGCTCTCAGCATGGCGGCTCCTCTAC  
 GTCACCTTGCCTCCACCAAGTCTGCAGCTCGATGGATGAGAACGATGGCCCTGGAGAAGAAGTGTGGAG  
 GAAGGCTTCCAGATTCCAGCTACAATAACAGAACGATATAAAGTCGAAGAACAATAGGAGATGAAATT  
 TTGCTGTTGTCAAGGAATGTGTAGAAAGATCGACTGCTAGAGAGTATGCTCTGAAAATTATCAAGAAAA  
 CAAATGTCGAGGCAAAGAGCACATGATCCAGAATGAAGTGTCTATTTAAGAAGAGTGAAGCATCCCAAT  
 ATCGTTCTCTGATTGAGGAGATGGATGTGCCAAGTGAAGTGTCTTGTCTGATGGAATTAGTAAAGGGG  
 GAGACCTTTTGGATGCCATTACTCCACTAACAAATACACCGAGAGAGACGCCAGTGGGATGCTGTACAA  
 CCTAGCCAGCGCCATCAAATACCTGCATAGCCTGAACATCGTCCACCGTATATCAAGCCAGAGAACCTG  
 CTGGTGTATGAGACCAAGATGGCAGCAAATCACTGAAGCTGGGTGACTTTGGACTGGCCACCATTGTAG  
 ACGGCCCCCTGTACACAGTCTGTGGCACCCCAACATACGTGGCTCCAGAAATCATTGCAGAGACTGGATA  
 CGGCCTCAAGGTGGACATCTGGCAGCAGGTGTAATCACTTATATCCTGCTGTGTGGTTTCCCTCCATTC  
 CGTGGAAGTGGTATGACCAGGAGGTGCTTTTGGATCAGATTTTGGTGGGACAGTGGACTTTCTTCTC  
 CATACTGGGATAATGTTCCGATTCTGCAAAGGAGCTCATTACCATGATGCTGTTGGTTCGATGTAGATCA  
 GCGATTTTCTGCTGTTCAAGTACTTGAGCATCCCTGGGTTAATGATGATGGCCTCCAGAAAATGAACAT  
 CAGCTGTCAGTAGCTGGAAGATAAAGAAGCATTCAACACAGGCCCAAGCCGAATAGCACAGCAGCTG  
 GAGTTTCTGTATAGCACTGGACCACGGGTTTACCATCAAGAGATCAGGGTCTTTGGACTACTACCAGCA  
 ACCAGGAATGTATTGGATAAGACCACCGCTCTTGATAAGGAGAGGCAGGTTTTCCGACGAAGACGCAACC  
 AGGATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC231222 representing NM\_001195415  
 Red=Cloning site Green=Tags(s)

MLELIEVNGTPGSQLSTPRSGKSPSPSPTSPGSLRKQRSSQHGGSSLSLTKVCSMDENDGPGEVSE  
 EGFQIPATITERYKVGRTIGDGNFAVVKECVERSTAREYALKI IKKSKCRGKEHMIQNEVSILRRVKHPN  
 IVLLIEEMDVPTL EYLMELVKGDLFDAITSTNKYTERDASGMLYNLASAIKYLHSLNI VHRDIKPENL  
 LVYEHQDGSKSLKLGDFGLATIVDGPLYTVCGTPTYVAPEIIAETGYGLKVDIWAAGVITYILLCGFPPF  
 RSGDDEVLFDQILMGQVDFPSYWDNVSDSAKELITMMLLDVVDQRFSAVQVLEHPWVNDGLPENEH  
 QLSVAGIKKHFNTGPKPNSTAAGVSVIALDHGFTIKRSGSLDYYPQPGMYWIRPPLL IRRGRFSDEDAT  
 RM

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8058\\_g06.zip](https://cdn.origene.com/chromatograms/mk8058_g06.zip)

**Restriction Sites:**

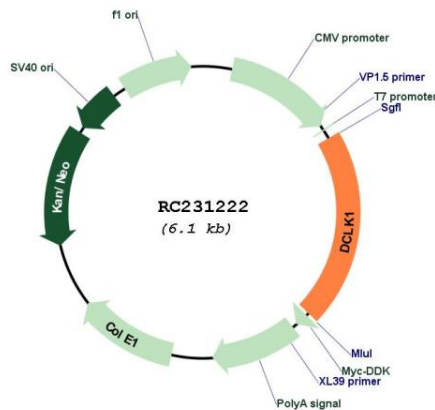
Sgfl-Mlul



**RefSeq ORF:** 1269 bp  
**Locus ID:** 9201  
**UniProt ID:** [O15075](#)  
**Cytogenetics:** 13q13.3  
**Protein Families:** Druggable Genome, Protein Kinase  
**MW:** 47 kDa

**Gene Summary:** 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 Ca<sup>2+</sup>/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]

### Product images:



Circular map for RC231222