

## Product datasheet for **SC222414**

### **DCAMKL1 (DCLK1) (NM\_004734) Human 3' UTR Clone**

#### **Product data:**

Product Type:	3' UTR Clones
Product Name:	DCAMKL1 (DCLK1) (NM_004734) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	DCLK1
Synonyms:	CL1; CLICK1; DCAMKL1; DCDC3A; DCLK
ACCN:	NM_004734
Insert Size:	2000 bp



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**Insert Sequence:**

>SC222414 3'UTR clone of NM\_004734

The sequence shown below is from the reference sequence of NM\_004734. The complete sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAGCGATCGCC
TTTTCCGACGAAGACGCAACCAGGATGTAGGAGCCGGTACAAGGCGCAGCCAGCTCCTCCCGAACTCA
ACTCGGAATCGGAAGACTACTCCCAAGCTCCTCCGAGACTGTTCCGCTCCCTAACTCGCCCTTTAAT
AAGACCCTTTTACTCAAAGTCTAGCTTAACCCTTTGAGACTCTGAGATTTTTTCCCCAAATTTGTG
TAAACAGTTTTCATCTGATCTATCTAGCGCTCAATGCTTGAATGGCAGAAGTAAAGTGTTTTCAGGTA
TCTTTGTAGCGGTTTCCCTTACTGAATAAGATGACACGTGGTATTGTGAAGATGGTAATTTGCTGCT
AATAGAGTCTCAAAGGGTTAAGCCAATTTGCAATTTTTTTTTAACTTAGAAGCAATGAATGTTTTTC
ATCAGTCAAGCTAGGATCTGCAGTATGTAATATAGCACTTGTTAACCTCTGAGTGCATAGATTTTAT
TGAGAATCTTGTGGGAATTTTCAGGCCTTTGGATGTATACACACATGTTTCTTGATTTTACTGCA
GATCAAGGGGTGTTGTTAGATGCTGAAATGTCCAGAAAAGAAGGACATTTAGAATGATATCTTGTGTTG
CCTTTTCTGTGGGTTTAGAACGTGGCAGGTTTATAACTTCGACACACGCACGGTCTTTTCTTCTTACA
ATCCTATTTCAGAAACAGATTTTTTTTTTTCATTAGAGATATGACTGTCAGTTGCAGTGAAGTCTGCATCC
CAAGTGGAGGGAATGGGTTTGTGGCAAAGAGCTTGACCCAGGAAATAGATGGTGCCCCCAAAATGTC
TCCACATGAAGATGACTGATGACGCCCCAGAAATGCTGCTTCCATATCAGCTGCTGCTAGCGCCAGCG
CAGACTCTCAGGGAGTCAACACAGCTTGTCTTGTGCTTGGTGAGTGAGGGTCTCTACTCAGTGTGAG
ACATCTACAGGAAAGAAACAACCTGGTGGAAAAGAGCAATAAATGCCCCGGTGTCTGCAGGGCTGGAAT
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CTGTGCAATCTACATCTAGTATGAAATCCACACATAGGAGAGCTGGGGCACAAGGGGACTGGAGGCAGT
TGCTTTGCAAGATGGCTGAGGAGAAAGCACACTGGGAACACAATCCAGAATGTTCTAACAATAAGTTTT
CAGTGAATAAACCACTGGCAAGACAATTCATGTGCACCTTTAGGTTACCTATATAGTCTCCTAGGAAG
ATCAGGATGAAAGACCTAGATGATACCCTGAGGATAAACCTCCATCCCCTAAAATGATTTTTTTTAA
ATACCACTGTCTTTAGCTGTCCAGGAGGTCAGAGTGTTTTTTCTGTCTTTGGGCCAAGTCTGTCTGAG
ACCTGTATTTTCACTCTTGTACCAATCTATCTCCCTAGTGCAGTGTCTCCAGGCTGAGTTTCTTCT
GGAACAGATTCATTTTGAATGGGATTCACAGGTTCTGTGCATCACCACAGTGTCTCAGAGAGGATTC
TCCTGGGGTGTCTTAGAGGCAGGTGCCCAACTCAAATGTATTCCCAAGGTTTGTGGGCTCTGGGATCC
ACGAGACAACCAGAGAGGGATATCTCATGAAATTTGCATCTGGTGGCTGAACAGTACCTATGTTCTCTG
TTTTGAATATACTTTAATACCTGAGAGTCTTAAAATTTGTGAACAACGTTTCTATAGTCTTTATTTTC
AAATGCACATTGATCTTCACTTGTGCTGATTTTTTACTCTTCAACCCTGAAACTATGGTCTACATTAATAT
GGATTTTTTAAATCACATGTCATTACTTTTGAACACCATCACCAAAATTTTTTGTCTTTTACATTTAG
GTTTCTCTGTGGTCTGTGTTGCTGACATGTAAAAAGCATATCGTTTATTGAGGTTTTTTTCCCC
ACGCGT AAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCACCGCCGCTTCTATGAAAGG
    
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**Restriction Sites:**

SgfI-MluI

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:**

The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:**

NM\_004734.5

**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]

**Locus ID:**

9201

**MW:**

76.2