

Product datasheet for **SC100617**

DCAMKL2 (DCLK2) (NM_152619) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DCAMKL2 (DCLK2) (NM_152619) Human Untagged Clone
Tag:	Tag Free
Symbol:	DCAMKL2
Synonyms:	DCK2, DCDC3, MGC45428, DKFZp761I032
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >OriGene ORF sequence for NM_152619 edited
ATGGCCAGCACCAGGAGTATCGAGCTGGAGCACTTTGAGGAACGGGACAAAAGGCCCGGG
CCGGGGTCCGGGAGAGGGGCCCCAGCTCCTCCGGGGCAGCAGCAGCTCGGGCCCAAG
GGGAACGGGCTCATCCCCAGTCCGGCGCACAGTGCCCACTGCAGCTTCTACCGCACGCGG
ACCCTGCAGGCCCTCAGCTCGGAGAAGAAGGCCAAGAAGGCGCGTTCTACCGAACGGG
GACCGCTACTTCAAGGGCCTGGTGTGGCCATCTCCAGCGACCGTTCCGGTCTTCGAT
GCGCTCCTCATAGAGCTCACCCGCTCCCTGTGCGACAACGTGAACCTGCCCCAGGTGTC
CGCACTATCTACCCATCGACGGCAGCCGAAGGTCACCAGCCTGGACGAGCTGCTGGAA
GGTGAGAGTTACGTGTGTGCATCCAATGAACCATTTCTGTAAGTCGATTACACAAAAAT
ATTAATCCAAACTGGTCTGTGAACATCAAGGGTGGGACATCCCGAGCGCTGGCTGCTGCC
TCCTCTGTGAAAAGTGAAGTAAAAGAAAGTAAAGATTTTCATCAAACCAAGTTAGTGACT
GTGATTCGAAGTGGAGTGAAGCCTAGAAAAGCCGTGCGGATCCTTCTGAATAAAAAGACT
GCTCATTCTTTGAACAAGTCTTAACAGATATCACCGAAGCCATTAAGTACTAGACTCAGGA
GTCGTCAAGAGGCTCTGCACCCTGGATGAAAAGCAGGTTACTTGTCTGCAAGACTTTTTT
GGTGATGACGATTTTTTATTGCATGTGGACCAGAAAAATTTCTGTTATGCCAAGATGAC
TTTGTCCTGGATCATAGTGAATGTCGTGCTGAGTCACTTATTCTCGATCCTCAGCT
GTTAAGTATTCTGGATCCAAAAGCCCTGGGCCCTCTCGACGCAGCAAATACCAGTTCA
GTTAATGGAACCTCCAGCAGCCAACTTTCTACTCTAAATCTACGAAATCCTCCAGTTCC
TCTCCAAGTACTCCAGGAAGTTTCAGAGGATTAAGATTTCTGCTCATGGCAGATCTTCT
TCCAATGTAAACGGTGGACCTGAGCTTGACCGTTGCATAAGTCTGAAGGTGTAATGGA
AACAGATGCTCTGAATCATCAACTCTTCTTGAGAAATACAAAATGGAAGGTGTAATGGA
GATGGCAATTTTGCAGTAGTCAAAGAGTGTATAGACAGGTCCTGGAAGGAGTTTGGC
CTAAAGATTATAGACAAAGCCAAATGTTGTGGAAGGAACACCTGATTGAGAATGAAGTG
TCAATACTGCGCCGAGTGAACATCCCAATATCATTATGCTGGTCGAGGAGATGGAACA
GCAACTGAGCTCTTTCTGGTGTGGAATTGGTCAAAGGTGGAGATCTTTGATGCAATT
ACTTCGTGACCAAGTACTGAGAGAGATGGCAGTGCCATGGTGTACAACCTAGCCAAT
GCCCTCAGGTATCTCCATGGCCTCAGCATCGTGCACAGAGACATCAAACCAGAGAATCTC
TTGGTGTGTAATATCCTGATGGAACCAAGTCTTTGAACTGGGAGACTTTGGGCTTGGC
ACTGTGGTAGAAGGCCCTTATACACAGTCTGTGGCACACCCACTTATGTGGCTCCAGAA
ATCATTGCTGAACTGGCTATGGCCTGAAGGTGGACATTTGGGCAGCTGGTGTGATCACA
TACATACTTCTGTGGATTCACCATTCCGAAGTGAGAACAATCTCCAGGAAGATCTC
TTCGACCAGATCTTGGCTGGGAAGCTGGAGTTTCCGGCCCTACTGGGATAACATCAGC
GACTCTGCCAAGGAATTAATCAGTCAAATGCTTCAAGTAAATGTTGAAGCTCGGTGTACC
GCGGGACAAATCCTGAGTCAACCCCTGGGTGTCAGATGATGCCCTCCAGGAGAATAACATG
CAAGCTGAGGTGACAGGTAACCTAAAACAGCACTTTAATAATGCGCTCCCAAACAGAAC
AGCACTACCACGGGGTCTCCGTCATCATGTTTGATTTGACAGTTTGA

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_152619 unedited ATTCGCACGAGGGCGCGTTAAGGGCCCTCGCAGTCAGACGTCCCTGCACCGGCGCTCGCA CCCTTAGTCGGCCCGAAACGTCTTTTTGCGGACGCCCTCGGAGCAGCCGCGATGGCCAGC ACCAGGAGTATCGAGCTGGAGCACTTTGAGGAACGGGACAAAAGGCCGCGCCGGGGTCCG CGGAGAGGGGCCCCAGCTCCTCCGGGGCAGCAGCAGCTCGGGCCCCAAGGGGAACGGG CTCATCCCCAGTCCGGCGCACAGTGCCCACTGCAGCTTCTACCGCACGGGACCCCTGCAG GCCCTCAGCTCGGAGAAGAAGGCCAAGAAGGCGCGCTTCTACCGGAACGGGGACCGCTAC TTCAAGGGCCTGGTGTTTGCCATCTCCAGCGACCGCTTCCGGTCCCTTCGATGCGCTCCTC ATAGAGCTCACCCGCTCCCTGTCCGACAACGTGAACCTGCCCCAGGGTGTCCGCACTATC TACACCATCGACGGCAGCCGGAAGGTCACCAGCCTGGACGAGCTGCTGGAAGGTGAGAGT TACGTGTGTGCATCCAATGAACATTTTCGTAAAGTCGATTACACCAAAAAATTAATCCA AACTGGTCTGTGAACATCAAAGGTGGGACATCCCGAGCGCTGGCTGCTGCCTCCTCTGTG AAAAAGTGAAGTAAAAGAAAGTAAAGATTTTCATCAAACCCAGTTAGTGACTGTGATTCTGA AGTGGAGTGAAGCCTAAAAGCCGTGCGGATCCCTCTGAATAAAAGACTGCTCATTCCCTT TGAACAAAGTCTACAGATATCACCGAAACCTTTAACTAACTCAGGAGTCGCCAAGAGCT CTGCACCCCTGAAGGAAAGCAGGTACCTGTCTGCAAGACTTTTTTGAGAAGACGATGTT
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_152619 unedited NAAAAATACTTGTTCGNGAGGGCAAAGATTTATTGCCTAGGTTGGGNACACTTGNTAA AAGGCAAAATCTAACAAATGAGAACGAATATAGGGCTCGCCAGTTTAGAAGATGAGCAGG TAAAACAATACACGGATTATGTACAATTATTAAGAGCAGGGTGGTGGACAAAAAGG AAAACTGCCAGCAGCCTTCCAGAAGGTTACAGAGTATATCCAGGGAGCACCTTCCCGC CCAGTCCCTGGCTGCCTCGGGCATGCCTCCTCCTGTGGTTACCTGCCCTGCTCCAGATGAA ATGCAGATGAGGAAGCAGCTACCGGGGCTCAGGAGCAGAGCTCATTCTGCTCGGCAAGTC GCTGGCTTGCAGGGAAGCAGCCGCTGGGTGCCGCATGCGCCAAGCCTCTCATTAAAAAGC CCAGAGGGCAAGTTCACGGGCATTTCTAACACACGTGTGGGAAGAGCTGGGGGAAACCC ACACCGCCAGGGAAGAAGTGGCTTCTCCATCGTCTGTGTATGAATGAATACTGAGCAT TGTCTCTGGGGAGCCTGGTGCCCAAGCCGAATGGCTGAGCCCGCCCTGGGCCTCTG AGCGCTTCTCAAAGCCTGCAATCCGTGTCCAATGACCAAATGTCTCTCAGGCGCTCAC TTCTTTATTAGAAAGCCAGTCTCTTAGCCCCATATCACCTCTCACAGGACACCCACA AAAGGACAAATGCAATTCTAAGTCTTCGTCAAAAAAAGGAGAGAGAGAAAAAGAAAA GAAAGGGAATGTTCTGGATTCTACTTTAATAAGGAAAAGCCTTGGTTTTCATCCAAAGTG TTTCAAAGTGTTTTTATAAAAAATGCCATCGATGGCTGGATAAAGTTGCCATTCTCCTG GTGAAGCCGTAAGGCCG
Restriction Sites:	NotI-NotI
ACCN:	NM_152619
Insert Size:	4700 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
RefSeq:	NM_152619.1 , NP_689832.1
RefSeq Size:	3626 bp
RefSeq ORF:	2088 bp
Locus ID:	166614
Domains:	pkinese, TyrKc, S_TKc, DCX

Protein Families: Druggable Genome, Protein Kinase

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 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. Mouse studies show that the DCX gene, another family member, and this gene share function in the establishment of hippocampal organization and that their absence results in a severe epileptic phenotype and lethality, as described in human patients with lissencephaly. Multiple alternatively spliced transcript variants have been identified. [provided by RefSeq, Sep 2010]