

Product datasheet for SC213211

DCAMKL2 (DCLK2) (NM_001040260) Human 3' UTR Clone

Product data:

Product Type: 3' UTR Clones
Product Name: DCAMKL2 (DCLK2) (NM_001040260) Human 3' UTR Clone
Vector: pMirTarget (PS100062)
Symbol: DCLK2
Synonyms: CL2; CLICK-II; CLICK2; CLIK2; DCAMKL2; DCDC3; DCDC3B; DCK2
ACCN: NM_001040260
Insert Size: 1221 bp
Insert Sequence: >SC213211 3'UTR clone of NM_001040260
 The sequence shown below is from the reference sequence of NM_001040260. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAACGATCGCC
GCAGGAACCTGGCGCCGCCACCGAGACTGAGCCTCCTGCAGACGGGCGAAGCCCGCTGCTGCAGCCCAG
GAAGCCAGCCCTCTGCTCGGCCTCGCCGGCCTCCCTGCTGCAGGCCTCCCTCTTCCACCGCTGCGCC
TGAGTTCGCGGGTCCCTCCGCAAGGCCGCTGGGAACCGGAGCCTGGCGTGCCGGAGCCTGGCCTGGTGCT
CTGGGCTCTGCCTTCTGGTTCCTGGAGGCATCAAAGGCTGCATCCGTTCTGCCAACAGCTGTTCCGAGA
GACTCGTTCAGATCATCCCGTCATTTTTCAGTTTGTGGACATTTACAGCTTACCAGGAGAATGTGC
AACTTTATTCCAGCATTGATGCATTTTATAGAAACACTTTGAAACACTTTGGATGAACCAAGGCCT
TTTCTTATTTAAGTAGACTCAGAACACTCCCTTTCTTTTCTTTTCTCTCTCTCTCTCTCTTTTTTTTT
TACGAAAGACTTAGAATTGCATTTGTCTTTTGTGGGTGCTGTGAGAGGTGATATGGGGGCTAAGAG
GACTGGCTTTCTAATAGAAGAAGTGAGCGCCTGAGAGGACAATTTGGTCATTGGACACGGATTGCAGGC
TTTGAGAAGCGCTCAGAGGCCAGGGCGGGGCTCAGCCATTGGCTTGGGGCACCAGGCTCCCCAGA
GACAATGCTCAGTATTCAATCATACACAGACGATGGAAGAAGCCACTTCTCCCTGGGCGGTGTGGGTT
TCCCCAGCTCTCCACACGTGTGTTAGGAAATGCCCGTGAACCTGCCCTCTGGGCTTTTTAATGAGA
GGCTTGGCGCATGCGGCACCCAGCGGCTGCTTCCCTGCAAGCCAGCGACTTGCCGAGCAGAATGAGCTC
TGCTCCTGAGCCCCGGTAGCTGCTTCCCTCATCTGCATTTTCATCTGGAGCAGGGCAGGTAACCACAGGAG
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AAGGCTGCTGGCAGTTTTTCTTTTTGTCCACCACCCTGCTTTTTTAATAATTGTACATAATCCGTGT
ATTTGTTTTACCTGCTCATCTTAAACTGGCGAGCCCTATAGTTCGTTTCATTGTTAGATTTTGCCT
TTTACAAGTGTCCCCAACCTGCAATAAACTTTTCCCTTTGAAAAA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTTTCGATTCCACCGCCGCTTCTATGAAAGG
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Restriction Sites: SgfI-MluI



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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_001040260.4
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 ²⁺ /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]
Locus ID:	166614
MW:	45.1