

Product datasheet for **MR226384**

Dclk2 (NM_001195499) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Dclk2 (NM_001195499) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Dclk2 |
| Synonyms: | 6330415M09Rik; AU044875; CL2; Clic; Click-II; CLICK2; Dcamk; Dcamk12 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>MR226384 representing NM_001195499
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAGCACAAAGGAGCATTGAGCTGGAACATTTTGAAGAACGGGACAAAAGGCCGCGCCAGGGTCAC
 GGAGAGGGGCTCCAGCTCCTCCGGGGCAGCAGCATCTCTGGCCCAAGGGCAACGGGCTCATCCCAG
 CCCGGCGCACAGTGCTCACTGCAGCTTCTACCGCACGCGGACCTTGCAGGCCCTCAGCTCGGAGAAGAAG
 GCCAAGAAGGCGCGTTCACCGAATGGGGACCCTATTTCAAAGGCCTGGTCTTTGCCATCTCCAACG
 ACCGTTCCGTTCTTCGATGCGCTCCTCATAGAGCTCACCCGCTCACTGTCTGACAATGTGAACCTGCC
 CCAGGGCGTCCGACCCTACACCATAGACGGCAGCCGGAAGGTACCAGCCTGGACGAGCTGTGGAA
 GGTGAAAGTTACGTGTGCCTCCAACGAACATTTTCGTAAGTTGATTACACAAAAACGTTAATCCGA
 ACTGGTCTGTGAACATCAAGGGCGGAACACCCGACCCTGGCCGTGGCCTCTCGGAAGAGTGAGGTGAA
 AGAAGCAAAGACTTCATTAACCAAGTTAGTACTGTGATTGAAGCGGAGTGAAGCCTAGAAGGCC
 GTGCGGATCCTTCTGAATAAAAAGACTGCCATTCCTTTGAGCAGGTCTTAACAGATATACCGAAGCCA
 TTAACACTAGACTCAGGCTGGTCAAGAGGCTGTGCACCCTGGATGGAAAGCAGGTTACTTGTCTGCAAGA
 CTTTTTTGGAGACGATGATGTTTTATTGCATGTGGACCTGAAAAATATCGTTATGCCAAAGATGACTTT
 GTCCTGGATCATAGCGAATGCCGTGTCTGAAATCGTCTACTCTCGAGCCTCAGCTGCGAAGTATTCTG
 GATCCAGAAGCCAGGGTTCTCCCGCCGACGAAGTACCAGCTTCAGTAAAGAGGGCTGGCCACTCCAG
 TGCCTATTCTACAGCCAAATCCCAGTGAATGAACTCCCAGTAGCCAGCTTCCACTCCGAAGTCCACC
 AAGTCTCCAGCTCCTCTCAACCAGCCGGAAGTTTCAGAGGATTGAAGATTTCTGCTCAGGGCAGAT
 TTCTTCCAAACGTAAACGGTGGCCTGAACCTGACCGTTGCCTGAGCCCTGAAGGTGTAATGGAACCCG
 GTGCTCCGAGTCGTTCCCTTCTGGAGAAATACAGAATAGGGAAGGTCAATCGGGGACGGCAACTTCGCG
 GTAGTTAAGGAGTGCGTGGACAGGTACTGAAAAGAGTTTGCATTAAGATTATAGACAAAGCCAAAT
 GCTGTGAAAAGGAGCATCTGATTGAGAACGAAGTGTCAATCCTGCGCCGAGTGAAGCACCCCAACATCAT
 CATGTTGGTTGAAGAGATGGAACAGCAACTGACCTCTTCTAGTGATGGAAGTGGTCAAAGGTGGAGAT
 CTCTTTGATGCGATTACCTTTCAACCAAGTACTGAGAGAGATGGAAGCGCCATGGTGTACAACCTAG
 CCAATGCCCTCCGGTACCTGCACAGCCTCAGCATCGTCCACAGGGACATCAAGCCTGAGAATCTGCTGGT
 GTGCGAATACCCAGATGGAACCAAGTCTTTGAAGCTGGGAGACTTTGGGCTGGCGACGGTGGTTGAAGGC
 CCGTTGTACACGGTCTGTGGCACGCAACTTATGTGGCACCAGAGATCATAGCTGAAACAGGTTATGGCC
 TGAAGGTGGATGTTGGGAGCTGGTGTGATTACATACATACTTCTCTGTGGATTCCACCATTCGGAG
 TGAGAACAATCTCCAGGAAGATCTTTGACCAGATCTTGGCTGGAAAGCTGGAATTCACAGCCCTAC
 TGGGACAACATTACAGACTCTGCCAAGGAGTAAATCAGTCAAATGCTTACGGTAAACGTTGAAGCTCGCT
 GTACTGCGGGAGAAATCTGAGTCACCCCTGGGTGTCAGATGATGCATCCAGGAGAACAATATGCAAGC
 CGAGGTTACAGGTAACATAAACAGCACTTTAATAATGCGCTCCCAACAGAACAGCACCACCACCGGG
 GTCTCCGTTATCATGGTCCAAGGCCATGAACACGGCTCTAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226384 representing NM_001195499
 Red=Cloning site Green=Tags(s)

MASTRSIELEHFEERDKRPRPGSRRGAPSSSSGGSSISGPKGNGLIPSPAHSACSFYRTRTLQALSSEKK
 AKKARFYRNGDRYFKGLVFAISNDRFRSFDALLIELTRSLSDNVNLPQGVRTIYITIDGSRKVTSLDELLE
 GESYVVCASNEPFRKVDYTKNVNPNWSVNIKGGTTRTLAVASAKSEVKESKDFIKPKLVTVIRSGVKPRKA
 VRILLNKKTAHSFEQVLTDITEAIKLD SGVVKRLCTLDGKQVTC LQDFFGDDDFIACGPEKYRYAQDDF
 VLDHSECRVLKSSYSRASAAKYSGSRSPGF SRRSKSPASVKRAGHSSAYSTAKSPVNGTPSSQLSTPKST
 KSSSSSPTSPGSFRGLKISAQGRSSSNVNGPELDRCLSPEGVNGNRCSESFPLLEKYRIGKVIKVDGNFA
 VYKECVDRYTGKEFALKIIDKAKCCGKEHLIENEVSILRRVKHPNIIMLVEEMETATDLFLVMELVKGGD
 LFDAITSSTKYTERDGSAMVYNLANALRYLHLSIVHRDIKPENLLVCEYDPGKSLKLGDFGLATVVEG
 PLYTVCGTPTYVAPEIIAETGYLKVVDVWAAGVITYILLCGFPPFRSENNLQEDLFDQILAGKLEFPAPY
 WDNITDSAKELISQMLQVNVEARCTAGEILSHPWVSDDASQENNMQA EVTGK LKQHFNNALPKQNSTTTG
 VSVIMVQGEHGSR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001195499

ORF Size: 2142 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.

RefSeq: [NM_001195499.1](#), [NP_001182428.1](#)

RefSeq Size: 4105 bp

RefSeq ORF: 2145 bp

Locus ID: 70762

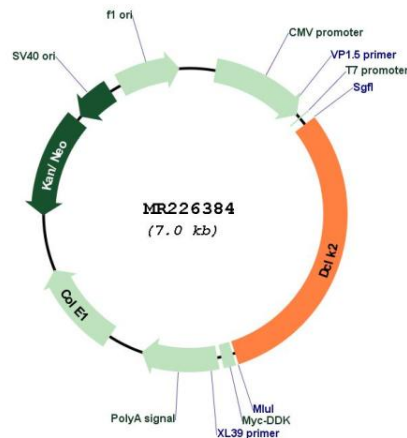
UniProt ID: [Q6PGN3](#)

Cytogenetics: 3 F1

MW: 78.8 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 Ca²⁺/calmoduline-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. This gene and the DCX gene, another family member, share function in the establishment of hippocampal organization and their absence results in a severe epileptic phenotype and lethality, as described in human patients with lissencephaly. Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Sep 2010]

Product images:



Circular map for MR226384