

Product datasheet for **MR226385**

Dclk2 (NM_001195500) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dclk2 (NM_001195500) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dclk2
Synonyms:	6330415M09Rik; AU044875; CL2; Clic; Click-II; CLICK2; Dcamk; Dcamk12
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR226385 representing NM_001195500
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCAGCACAAAGGAGCATTGAGCTGGAACATTTTGAAGAACGGGACAAAAGGCCGCGCCAGGGTCCAC
 GGAGAGGGGCTCCCAGCTCCTCCGGGGCAGCAGCATCTCTGGCCCAAGGGCAACGGGCTCATCCCAG
 CCCGGCGCACAGTGCTCACTGCAGCTTCTACCGCACGCGGACCTTGCAGGCCCTCAGCTCGGAGAAGAAG
 GCCAAGAAGGCGCGTCTACCGGAATGGGGACCCTATTTCAAAGGCCTGGTCTTTGCCATCTCCAACG
 ACCGTTTCCGTTCTTCGATGCGCTCCTCATAGAGCTCACCCGCTCACTGTCTGACAATGTGAACCTGCC
 CCAGGGCGTCCGACCCTACACCATAGACGGCAGCCGGAAGGTACCAGCCTGGACGAGCTGCTGGAA
 GGTGAAAGTTACGTGTGTGCTCCAACGAACATTTTCGTAAGTTGATTACACAAAAACGTTAATCCGA
 ACTGGTCTGTGAACATCAAGGGCGGAACACCCGACCCTGGCCGTGGCCTCTGCGAAGAGTGAGGTGAA
 AGAAAGCAAAGACTTCATTAACCCAAGTTAGTACTGTGATTGGAAGCGGAGTGAAGCCTAGAAAGGCC
 GTCGGGATCCTTCTGAATAAAAAGACTGCCATTCCTTTGAGCAGGTCTTAACAGATATACCGAAGCCA
 TTAAACTAGACTCAGGCGTGGTCAAGAGGCTGTGCACCCTGGATGGAAAGCAGGTTACTTGTCTGCAAGA
 CTTTTTTGGAGACGATGATGTTTTATTGCATGTGGACCTGAAAAATATCGTTATGCCAAAGATGACTTT
 GTCCTGGATCATAGCGAATGCCGTGTCTGAAATCGTCTACTCTCGAGCCTCAGCTGCGAAGTATTCTG
 GATCCAGAAGCCAGGGTTCTCCCGCCGACGAAGTACCAGCTTCAAGTGAATGGAATCCCAGTAGCCA
 GCTTCCACTCCGAAGTCCACCAAGTCTCCAGCTCCTTCAACCAGCCCGGAAGTTTCAGAGGATTG
 AAGATTTCTGCTCAGGGCAGATCTTCTCAACGTAACGGTGGCCTGAACTTGACCGTTGCCTGAGCC
 CTGAAGGTGTGAATGAAACCGGTGCTCCGAGTCTTCCCCTTCTGGAGAAATACAGAATAGGGAAGGT
 CATCGGGGACGGCAACTTCGCGGTAGTTAAGGAGTGCCTGGACAGGTACTGGAAGAAAGTTTGCATTA
 AAGATTATAGACAAAGCCAAATGCTGTGAAAGGAGCATCTGATTGAGAACGAAGTGTCAATCCTGCGCC
 GAGTGAAGCACCCCAACATCATGTTGGTTGAAGAGATGAAACAGCAACTGACCTCTTTCTAGTGAT
 GGAAGTGGTCAAAGGTGGAGATCTTTTGTGCGATTACCTTCAACCAAGTACTGAGAGAGATGGA
 AGCGCCATGGTGTACAACCTAGCCAATGCCCTCCGGTACCTGCACAGCCTCAGCATCGTCCACAGGGACA
 TCAAGCCTGAGAATCTGCTGGTGTGCGAATACCCAGATGGAACCAAGTCTTTGAAGCTGGGAGACTTTGG
 GCTGGCAGCGGTGTTGAAGCCCGTTGTACACGGTCTGTGGCAGCCAACCTATGTGGCACCAGAGATC
 ATAGCTGAAACAGGTTATGGCCTGAAGGTGGATGTTGGGCAGCTGGTGTATTACATACATACTTCTCT
 GTGGATTCCACCATTCCGGAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226385 representing NM_001195500
 Red=Cloning site Green=Tags(s)

MASTRSIELEHFEERDKRPRPGSRRGAPSSSSGSSISGPKGNGLIPSPAHSAHCSFYRTRTLQALSSEKK
 AKKARFYRNGDRYFKGLVFAISNDRFRSFDALLIELTRSLSDNVNLPQGVRTIYITIDGSRKVTSLDELLE
 GESYVCASNEPFRKVDYTKNPNWSVNIKGGTTRTLAVASAKSEVKESKDFIKPKLVTVIRSGVKPRKA
 VRILLNKKTAHSFEQVLTDITEAIKLD SGVVKRLCTLDGKQVTCQDFDGDVFIACGPEKYRYAQDDF
 VLDHSECRVLKSSYSRASAAKYSGRSPGF SRRSKSPASVNGTPSSQLSTPKSTKSSSSSPTSPGSFRGL
 KISAQGRSSNVNGPELDRCLSPG VNGNRCSESFPLLEKYRIGKVI GDNFAVVKECVDRYTGKEFAL
 KIIDKAKCCGKEHLIENEVSILRRVKHPNIIMLVEEMETATDLFLVMELVKGGDLFDAITSSTKYTERDG
 SAMVYNLANALRYLHSLIVHRDIKPENLLVCEYPDGKSLKLGDFGLATVVEGPLYTVCGTPTYVAPEI
 IAETGYGLKVDVWAAGVITYILLCGFPFRR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

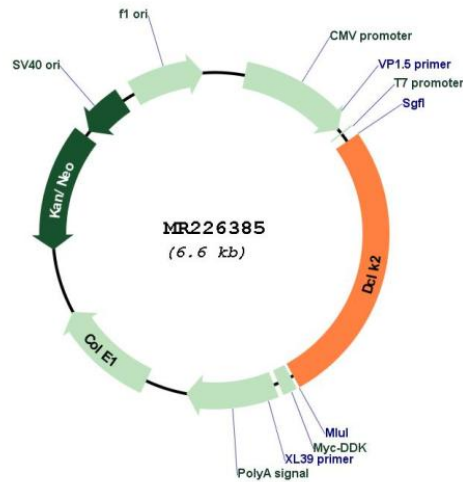
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001195500

ORF Size: 1773 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:	<ol style="list-style-type: none">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_001195500.2
RefSeq Size:	2577 bp
RefSeq ORF:	1776 bp
Locus ID:	70762
Cytogenetics:	3 F1
MW:	65.4 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 ²⁺ /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]