

Product datasheet for **MR226417**

Dclk3 (NM_172928) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dclk3 (NM_172928) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dclk3
Synonyms:	BC056929; C730036H08; Dcamk; Dcamkl3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR226417 representing NM_172928
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCAGCCGCGCCGGTCTGCGCCCGCCGCCCGCCAGCGACCCCGCCCGCCGCCACCCAGTCCGC
 CTGCGCCTCCCATTCGGGCCACCGAGGCCATGTGACCATTCTCTGAAATGCTTAAGCTCGAAGATCTC
 TGAGAGAAAGCTGCCAGGCCCTGGTTACCTGCGGGACGAGGACCTCTGGAGAAGCCAGTTCTGGGGCCA
 CGTGGTGCCTCATGCCGCTGTTAGCCCTCAGAGCAGCCTCCACTCAGTCCGCGCAGAGCACAGCCAC
 TGAAGCCAGGGTGGTACGGTGGTGAAGCTGGTGGCAGCCCTCCGTAAAGCCACCCTGCTCTCAA
 CCGGCGCTCAGTGCAGACCTTTGAGCAGCTCTATCAGACATCTCCGAAGCCTTGGGCTTCCACGCTGG
 AAGAACGACCGTGTGCGGAAGCTGTTACCCTCAAGGGCAGGGAGGTGAAGAGTGTGTGACTTCTTCC
 GGGAGGGTGTATGCTTTCATAGCTATGGCAAAGAGCCGCTGACATTGAAGAGTATCCAGTTGGCCATGGA
 GGAGCTGTATCCTAAGAACCGGGCTCTTGCCCTGGCCCTCACAGTAGAGTCCCCTCCCCAAGGCTGAGA
 AGCAGACTTCCCAGCAAGCTTCTGAAAGGAAGTACCCGCTGTGGGGAGGCAGGAAGCTATAGCGCGGAAA
 TGGAGAGTAAGGCAGTCTTAGGCATCAGGGCAAGACTTCCACAGTGTGGCCCCAGAAGACAAGGCGAG
 GGCCAGAAAGTGGTAAGAGGAAAACAGGAGTCAGAACCTGGTGGCCCGCTTACCCCGGGGAGCCACT
 CAGGAGGAGACTCATGCAAGTGGAGAGAAAACATCTGGGGTGGAGATCGAAAAGACCTCCGGGGAGATTG
 TCAGATGTGAGAAGTGTAAAGAGAGAAAGAGAGCTGCAGTTGGGCTGCAGAGGGAGCCGTGCCCGTGGG
 AACAGTGAAGTGGACCTGGGGAGAGCTCAGAAGAGGGATTCCGAGAAGTTGGTGAAGGACCAAGAGCTGC
 AGGAGGCCCTTCTAGGCAAAATCTACAGATGGAGAGGAAGGGTGAAGGGTGACAGCCATCGGGGAGTC
 CCAGGGACCCCTCAGGAAGTGGAGGGCCCAACAGCAACTCAGACAAGAAAGAGATCAGAGGCTCAGA
 AAGTCAGGACAGTCATCCTCAGGGGGCACCCAAGGCCAGAAAGGACCTCGTGAAGGGCCACCAGCTGTA
 GAGGAGGGGCGATAGACATGAGGAGAGAGGACCGGCACACATGCAGGAGCAAGCATGCCGCTGGCTCC
 GGAGAGAGCAGCAGGCCGAACCCCCACAGCTCCCCAGAACCAGGGGAGGAGAAGCAAGCAGAGACCGA
 GAAGAAGCCAGGCGGCTTAGGAGAGAGGAGGGCGCCAGAGAAGGAGTCTAAGAGGAAGCTAGAAGAGAAG
 AGGCCAGAACGACCCAGTGGCCGAAGCCGAGGCCAAGGGCATCATCTCAGCGGATGTGGAGAAGCACT
 ATGACATAGTGGGGTCAATGGGGATGGCAACTTGGCCACCGTGAAGGAATGCAGGCACCGAGAGACCAA
 GCAGGCTTACGCCATGAAGATGATTGACAAGTCCAGCTGAAGGGTAAGGAGGACATTGTCGACAGTGAG
 ATTTTAATCATCCAGAGTCTCTCATCCAACATTGTGAAACTGCACGAGGTCTACGAGACGGAGGCGG
 AGATCTACCTGATCATGGAGTATGTGCAGGAGGGGACCTTTTGTATGCCATCGTTGAAAATGTGAAGTT
 TCCAGAGCCCAGGCTGCAGTTATGATCACAGACTTGTGTAAGGCCCTCGTCCACATGCACGACAAGAAT
 ATCGTCCACCGGGACGTGAAACCAGAAAACCTCCTGGTTCAGCGAAATGAAGACAAGTCTATCACCTTGA
 AGCTGGCTGATTTGGCTTGGCCAAATATGTGGTGAAGGCTATATTTACTGTGTGTGGGACGCCAACATA
 TGTAGCTCCTGAAATCTTTCTGAGAAAGGTTACGGCCTGGAGGTGGACATGTGGGCGGCAGGTGTGATC
 CTATACATCCTCTGTGTGGCTTCCCCCTTCCGAAGTCTGAGAGGGACCAAGACGAGCTTTCAACA
 TCATCCAAGTGGCCAGTTTGTGTTCTCTCTCTTACTGGGACAACATTTCTGATGCTGCCAAAGATCT
 GGTGAGAAATTTGCTGGAGGTGGACCCTAAGAAGCGGTACACGGCCGAACAGGTCTACAGCATCCCTGG
 ATTGAGATGGTTGGGCATACCAACACAGGGAACACAGAAGGAGGAGTCCCCAACAGT

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226417 representing NM_172928
Red=Cloning site Green=Tags(s)

MPAAPVLRPPPPPATPAPPAPSRPAPPVPGHRGPCDHSKLSKISERKLPGPWLPAGRGPLEKPVLP
RGAVMPLFSPQSSLHSVRAEHSPLKPRVTVVVKLGGQPLRKATLLLNRSSVQTFEQLLSDISEALGFPRW
KNDRVRKLFITLKGREKSVSDFREGDAFIAMGKEPLTKSIQLAMEELYPKNRALALAPHSRVSPRLR
SRLPSKLLKGSRCGEAGSYSAEMESKAVSRHQGKTSTVLAPEDKARAQKWVRGKQSESEPGGPPSPGAAT
QEETHASGEKHLGVEIEKTSGEIVRCEKCRERELQLGLQREPCPLGTSELDLGRAQKRDSEKLVRTKSC
RRPSEAKSTDGEEGWKGDShrgSPRDPPQELRRPNSNSDKKEIRGSESQDSHPQGAPKAQKDLVEGPPAV
EEGPIDMRREDRHTCRSKHAAWLRREQQAEPPLPRTRGEEKQAEHEKKPGGLGERRAPEKESKRKLEEK
RPERPSGRKPRPKGIISADVEKHVDIGGVIQDGNFATVKECRHRETKQAYAMKIDKSQLKGGKEDIVDSE
ILIIQSLSHPNIVKLHEVYETEAEIYLIMEYVQGGDLFDAIVENVKFPEPEAAVMITDLCKALVHMHDKN
IVHRDVKPENLLVQRNEDKSITLKLADFGGLAKYVVRPIFTVCGTPTYVAPEILSEKGYGLEVDMWAAGVI
LYILLCGFPFRSPERDQDELFNIIQVQGFELSPYWDNISDAAKDLVRNLLVDPKKRYTAEQVLQHPW
IEMVGHNTNGNSQKEESPNS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_172928

ORF Size: 2370 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_172928.5](#), [NP_766516.2](#)

RefSeq Size: 3498 bp

RefSeq ORF: 2373 bp

Locus ID: 245038

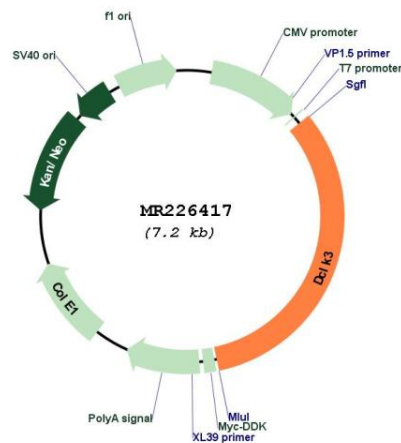
UniProt ID: [Q8BWQ5](#)

Cytogenetics: 9 F3

MW: 88.7 kDa

Gene Summary: This gene encodes a member of the protein kinase superfamily and the doublecortin family. Differently from the other two closely related family members (DCLK1 and DCLK2), the protein encoded by this gene contains only one N-terminal doublecortin domain and is unable to bind microtubules and to regulate microtubule polymerization. The protein contains 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. [provided by RefSeq, Sep 2010]

Product images:



Circular map for MR226417