

Product datasheet for **RR217222**

Dclk3 (NM_001191800) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dclk3 (NM_001191800) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dclk3
Synonyms:	Dcamkl3; RGD1309232
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RR217222 representing NM_001191800
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAGCCGCGCCGGTCTGCGCCCTCCGCCACCAGCGACCCCTGCCCCGCCGACCCAGCCGCC
 CTGCGCCTGCTATCTCGGGCCATCGGGTCCGTGTGACCATTCTCTAAAATGCTTAAGCTCGAAGATCTC
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 CAGGCGGTGAGTGCAGACCTTTGAGCAGCTCTGTGCGACATCTGAAGCCTTGGGCTTCCCGCATGG
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Protein Sequence:

>RR217222 representing NM_001191800
 Red=Cloning site Green=Tags(s)

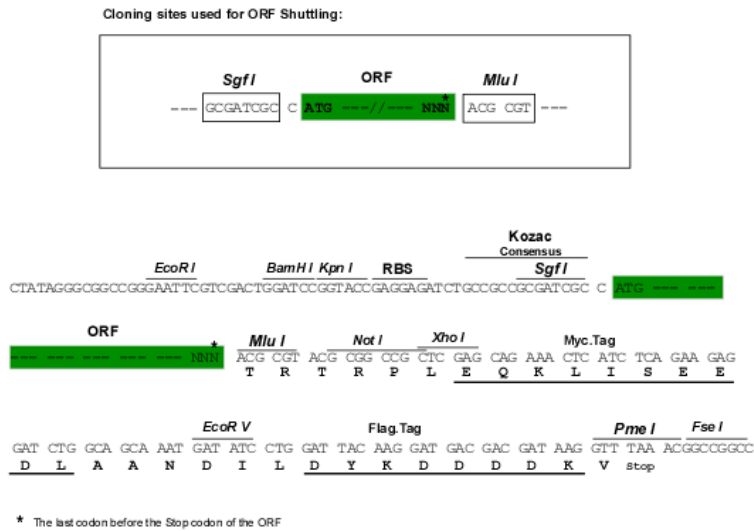
MPAAPVLRPPPPPATPAPPAPSRPAPAI SGHRGPCDHSLKCLSSKISERKLPGSWLP SGRGPLEKPVLP
 RGAVMPMFSPQSSLHSVRAEHSPLKPRVVTVVKLG VQPLRKATLLLNRRSVQTFEQLLSDISEALGFPRW
 KNDRVRKLF TLKGREKSVSDF FREGDAFIAMGKEPLTKSIQLAMEEL YPKNRALALAPHSRVPSRRLR
 SRLPSKLLKGSHRCGEAGSYGEVMGNKAVIRHQKTSTELAPEDKARAQKKWVGKQSENGGLPSPREA
 TQEETHASGEKHLGVEIEKTSGEIVRCEKCKRETELQLGLQRGQCPPGTSEL DLGRGQKRDSEKLVRTKS
 CRRASEAKSTDGEEGWKGD SHRGSPRDPPELRRPNNNSDKKESRGSEAQESH PQGVAKAQKDLMEGLPA
 VEEGAVDARRDSRHTCR IKHAAWL RREQQAEPQLPRTRGEEKEAEHEK KSGGLGRRMLEKESKTKPEE
 NRPERPSGRKL RPTGII SADVEKH YDIGRVI GDNFAIVKECKHRETRQAYAMKI IDKSQ LK GKEDIVDS
 EILIIQSL SHPNIVKLHEVYETEAEIYL IMEYVQGGDFDAIIESVKFPEPDAAVMITDLCKALVHMHDK
 KIVHRDLKPENLLVQRNEDKSTTLK LADFLAKHVVRPIFTVCGTPTYVAPEILSEKGYGLEVDMWAAGV
 ILYILLCGFPFRSPERDQDEL FNIIQLGQFEFLSPYWDNISDAAKDLVRNLLV VDPKKRYTAHQVLHHP
 WIGMVGHPSTVNPQKEEPSSEGRFQS QHKKVAEHVS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001191800

ORF Size: 2421 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_001191800.1](#), [NP_001178729.1](#)

RefSeq Size: 3249 bp

RefSeq ORF: 2424 bp

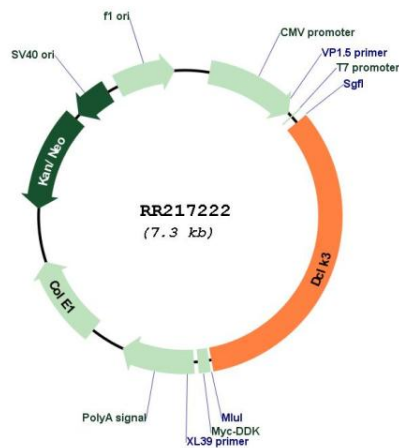
Locus ID: 316023

Cytogenetics: 8q32

MW: 90 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 RR217222