

Product datasheet for **RR207451**

Cdkl3 (NM_021772) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdkl3 (NM_021772) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdkl3
Synonyms:	Nkiatre; Nkiatreb
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR207451 representing NM_021772
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGATGTATGAAACCCTTGAAAAGTAGGAGAGGGAAGTTATGGAACGGTCATGAAATGCAAGCATA
 AGGATACTGGGCGGATAGTGGCCATTAAGATATTCTATGAGAAAACAGAAAAATCTGTCAACAAAATTGC
 AACGAGAGAAAATAAGTTTCTAAAGCAATTTTCGTATGAAAACCTGGTCAATCTGATTGAAGTTTTTGA
 CAAAAAAGAAAAATCCATTTGGTATTTGAGTTTATTGACCACACGGTCTTAGATGAGTTACAGCATTATT
 GTCACGGATTAGAGAGTAAGCGACTAAGAAAGTACCTGTTCCAGATCCTCCGAGCGATCGAGTATCTGCA
 CAACAACAACATTATCCACCGAGATATAAAGCCTGAGAATATTTTAGTCTCCAGTCAGGAATTACAAG
 CTCTGCGATTTTGGGTTTGGCGGACACTAGCAGCTCCTGGAGACGTTTACACAGACTACGTGGCCACCC
 GCTGGTACAGAGCTCCAGAGCTGGTGTGAAAGACACCACCTATGAAAACCAAGTGGATATCTGGGCTTT
 GGGCTGTATGATCATTGAAATGGCCACTGGCAATCCCTACCTTCTAGCAGTTCCGATTTGGATTTGCTC
 CACAAGATTGTTTTAAAAGTAGGCAACCTGACCCCGCACCTGCACAATATTTTTTCCAAGAGTCCCATCT
 TTGCTGGGGTGGTTCTTCTCAAGTTCAACATCCCAAAAACGCAAGAAAGAAATACCCAAAGCTCAACGG
 ATTGCTGGCAGATATAGTTCATGCTTGTTTACAAATTGATCCTGCTGAGAGGATATCATCCACCGATCTT
 TTGCATCACGATTACTTTACTAGAGATGGATTTATTGAGAAATTTATACCAGAGCTGAGAGCTAAGTTAT
 TACAGGAAGCAAAGGTTAATTCATTTATAAAGCCAAAAGAGAATTTAAGGAAAATGAACCTGTGAGAGA
 TGAGAAAAAACAGTTTTTACCAACCCTCTGCTCTATGAAAACCAACACTTTATGGAAGGAAGTGGAC
 AGAGACAAAAGGCCAAGGAGCTCAAAGTCAGAGTCATTAAGGCCAAAGGGGAAAAGGAGAGCTCCAG
 ACCTGAAAGAGACAGAGAGTGAAGGTGAACACCCAGCAGGGCACAGCTGAGGACACACACCCACATC
 ACTGGACAGGAAGCCTTCTGTCTCGGAACTAACAAACCCTGTCCATCCCAGTGCGAATTTCTGACTGTC
 AAAGAAGACCCACACTCTGGGGCTGTATGATAATGCCACCTATCAACCTGACAAGCAGTAATTTGTTGG
 CCGCAATCCCAGTTCAAACCTCTCCACCCCAATTCACGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207451 representing NM_021772
 Red=Cloning site Green=Tags(s)

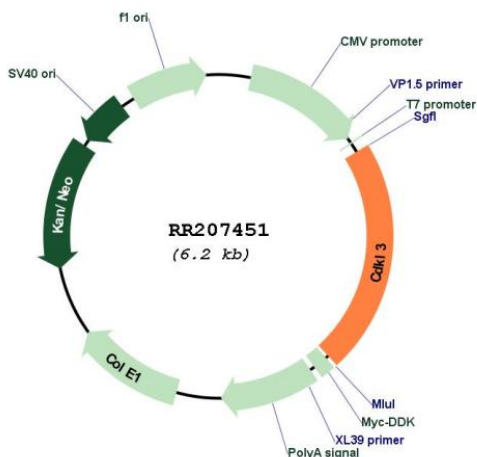
MEMYETLKGVEGSYGTVMKCKHKDTGRIVAIAIKIFYEKPEKSVNKIATREIKFLKQFRHENLVNLIIEVFR
 QKKKIHLVFEFIDHTVLDELQHYCHGLESKRLRKYLFQILRAIEYLHNNNIHRDIKPENILVSQSGITK
 LCDFGFARTLAAPGDVYTDYVATRWYRAPELVLKDTTYGKPVDIWALGCMIIEMATGNPYLPSSSDLDLL
 HKIVLKVGNLTPHLHNIFSKSPIFAGVVLQVQHPKNARKKYPKLNGLLADIVHAQLQIDPAERISSTDLL
 LHHDYFTRDGFIEKFIPELRAKLLQEAKVNSFIKPKENFKENEPVRDEKKPVFTNPLLYGNPTLYGKEVD
 RDKRAKELKVRVIKAKGGKGDVPLKKTSEGEHRQQTAEADTHPTSLDRKPSVSEL TNPVHPSANSDTV
 KEDPHSGGCMIMPPINLTSSNLLAANPSSNLSHPNSR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_021772

ORF Size: 1371 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_021772.2](#), [NP_068540.1](#)

RefSeq Size: 1731 bp

RefSeq ORF: 1374 bp

Locus ID: 60396

UniProt ID: [Q9JIM01](#)

Cytogenetics: 10q22

MW: 51.9 kDa

Gene Summary: putative protein serine kinase with similarity to MAPKs and CDKs; human homolog may play a role in inhibition of cell growth [RGD, Feb 2006]