

Product datasheet for RC237995

NKIAMRE (CDKL3) (NM_001300853) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NKIAMRE (CDKL3) (NM_001300853) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CDKL3
Synonyms:	NKIAMRE
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237995 representing NM_001300853 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCATTGAGATGGCCACTGGAATCCCTATCTTCTAGTAGTTCTGATTTGGATTTACTCCATAAAA
TTGTTTTGAAAGTGGCAATTTGTCACCTCACTGCAGAATATCTTTTCCAAGAGCCCCATTTTGTCTGG
GGTAGTCTTCTCAAGTTCAACACCCCAAAAATGCAAGAAAAAATATCCAAGCTTAATGGATTGTTG
GCAGATATAGTTCATGCTTGTAAACAAATTGATCCTGCTGACAGGATATCATCTAGTGATCTTTGCATC
ATGAGTATTTACTAGAGATGGATTTATTGAAAAATTCATGCCAGAACTGAAAGCTAAATTAAGTGCAGGA
AGCAAAAGTCAATTCATTAATAAAGCCAAAAGAGAGTTCTAAAGAAAATGAACTCAGGAAAGATGAAAGA
AAAACAGTTTATACCAATACACTGCTAAGTAGTTCAAGTTTGGGAAAGGAAATAGAAAAAGAGAAAAAGC
CCAAGGAGATCAAAGTCAGAGTTATTAAGTCAAAGGAGGAAAGAGGAGATATCTCAGAACCAAAAAGAA
AGAGTATGAAGGTGGACTTGGTCAACAGGATGCAAAATGAAAATGTTTCATCCTATGTCTCCAGATACAAA
CTTGTAACCATTAAGCCAAACCCATCAATCCCAGCACTAAGTAAAGGCTTGAAGAAAAATCCAC
ATTGCGGAGTTCTGTGACAATGCCACCCATCAATCACTAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAG
TTCAAATCTCTTTCACCCAGTGTGAGGTTAACTGAAAGAGCAAAAAAGAGACGCACTTCTTCAATCT
ATTGGACAAGTTATGCCTAATAGCAGGCAAGAGGATCCAGGTCCTATTCAAAGCCAAATGGAGAAGGGTA
TATTTAATGAGCGAACAGGTACAGTGACCAAAATGGCAAATGAGAACAAAAGGAAGCTGAATTTTCCAG
ATCTGACAGGAAAGAATTCATTTTCCAGAATTGCCTGTCAAAATACAGTCAAAAGATACAAAAGGAATG
GAAGTTAAACAGATAAAAATGCTGAAGAGGGAGTCAAAGAAAACAGAGTCATCTAAGATACCAACTTTAC
TTAACGTGGATCAAAATCAAGAAAAACAAGAGAATACAGGAAATGCACAACTGAAAGGAAGAAGAACTT
GCCAGATGTAGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237995 representing NM_001300853
 Red=Cloning site Green=Tags(s)

MIEMATGNPYLPSSSDLHLLHKIVLKVGNLSPHLQNIQIFSKSPIFAGVVLQVQHPKNARKKYPKLNGLL
 ADIVHACLQIDPADRISSDLLHHEYFTRDGFIEKFMPKELKAKLLQEAKVNSLIKPKESSKENELRKDER
 KTVYNTNLLSSSVLGKEIEKEKPKKEIKVRVIKVKGGRGDISEPKKKEYEGGLGQQDANENVHPMSPDTK
 LVTIEPPNPINPSTNCNGLKENPHCGGSVTMPPINLTNSNLMAANLSSNLFHPSVRLTERAKKRRTSSQS
 IGQVMPNSRQEDPGPIQSQMEKGIQFNERTGHSDQMANENKRKLNFSRSDRKEFHFPPELVTIQSKDTKGM
 EVKQIKMLKRESKKTESKIPITLLNVDQNEKQENTGNAQTERKKNLPDVE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

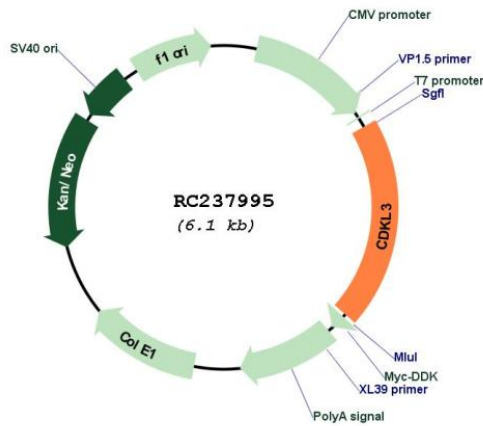
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001300853

ORF Size:	1203 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_001300853.1 , NP_001287782.1
RefSeq Size:	1999 bp
RefSeq ORF:	1206 bp
Locus ID:	51265
UniProt ID:	Q8IVW4
Cytogenetics:	5q31.1
Protein Families:	Druggable Genome, Protein Kinase
MW:	45.5 kDa
Gene Summary:	The protein encoded by this gene is a member of cyclin-dependent protein kinase (CDK) family. CDK family members are highly similar to the gene products of <i>Saccharomyces cerevisiae</i> cdc28, and <i>Schizosaccharomyces pombe</i> cdc2, and are known to be important regulators of cell cycle progression. This gene was identified as a gene absent in leukemic patients with chromosome 5q deletion. This loss may be an important determinant of dysmyelopoiesis. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]