

Product datasheet for **RG221819**

NKIAMRE (CDKL3) (NM_016508) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NKIAMRE (CDKL3) (NM_016508) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDKL3
Synonyms:	NKIAMRE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG221819 representing NM_016508
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGATGTATGAAACCCTTGAAAAGTGGGAGAGGGAAGTTACGGAACAGTCATGAAATGTAACATA
 AGAATACTGGGCAGATAGTGGCCATTAAGATATTTTATGAGAGACCAGAACAATCTGTCAACAAAATTGC
 GATGAGAGAAAATAAAGTTTCTAAAGCAATTTTCATCACGAAAACCTGGTCAATCTGATTGAAGTTTTAGA
 CAGAAAAAGAAAATTCATTTGGTATTTGAATTTATTGACCACACAGTATTAGATGAGTTACAACATTATT
 GTCATGGACTAGAGAGTAAGCGACTTAGAAAATACCTCTCCAGATCCTTCGAGCAATTGACTATCTTCA
 CAGTAATAATATCATTTCGAGATATAAACCTGAGAATATTTTAGTATCCAGTCAGGAATTACTAAG
 CTCTGTGATTTGGTTTTGCACGAACACTAGCAGCTCCTGGGACATTTATACGGACTATGTGGCCACAC
 GCTGGTATAGAGCTCCCGAATTAGTATTAAGATACTTCTTATGAAAACCTGTGGATATCTGGGCTTT
 GGGCTGTATGATCATTGAGATGGCCACTGGAAATCCCTATCTTCTAGTATTCTGATTTGGATTTACTC
 CATAAAATGTTTTGAAAGTGGCAATTTGTCACCTCACTTGCAGAATATCTTTTCCAAGAGCCCAATTT
 TTGCTGGGGTAGTTCTTCTCAAGTTCAACACCCCAAAAATGCAAGAAAAAATATCCAAGCTTAATGG
 ATTGTTGGCAGATATAGTTCATGCTTGTTTACAAATTGATCCTGCTGACAGGATATCATCTAGTGATCTT
 TTGCATCATGAGTATTTACTAGAGATGGATTTATTGAAAAATTCATGCCAGAAGTAAAGCTAAATTAC
 TGCAGGAAGCAAAAGTCAATTCATTAATAAAGCCAAAAGAGAGTTCTAAAGAAAATGAACTCAGGAAAGA
 TGAAAGAAAACAGTTTATACCAATACACTGCTAAGTAGTTTCAGTTTTGGGAGAGGAAATAGAAAAGAG
 AAAAGCCCAAGGAGATCAAAGTCAGAGTTATTAAGTCAAAGGAGGAAGAGGAGATATCTCAGAACCAA
 AAAAGAAAAGAGTATGAAGGTGGACTTGGTCAACAGGATGCAAATGAAAATGTTTCATCTATGCTCCAGA
 TACAAAACCTTGTAACCATTGAACCACCAACCCTATCAATCCCAGCACTAACTGTAATGGCTTGAAGAA
 AATCCACATTGCCGAGGTTCTGTGACAATGCCACCCATCAATCTAACTAACAGTAATTTGATGGCTGCAA
 ATCTCAGTTCAAATCTCTTTACCCAGTGTGAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG221819 representing NM_016508
 Red=Cloning site Green=Tags(s)

MEMYETLGKVGEGSYGTVMKCKHKNTGQIVAIIKIFYERPEQSVNKIAMREIKFLKQFHENLVNLTIEVFR
 QKKKIHLVFEFIDHTVLDELQHYCHGLESKRLRKYLFQILRAIDYLHSNNIIHRDIKPENILVSQSGITK
 LCDFGFARTLAAPGDIYTDYVATRWYRAPELVKDTSYGKPVDIWALGCMIIEMATGNPYLPSSSDL
 HKIVLKVGNLSPHLQNIIFSKSPIFAGVVLQVQHPKNARKKYPKLNGLLADIVHACLQIDPADRISSDL
 LHHEYFTRDGFIEKFPELAKALLQEAKVNSLIKPKESSENELRKDERKTVYNTLLSSSVLGEEIEKE
 KKPKEIKVRVIKVKGGGDISEPKKKEYEGLGQQDANENVHPMSPDTKLVITIEPPNPINPSTNCSNGLKE
 NPHCGGSVTMPPIINLTNSNLMAANLSSNLFHPSVR

TRTRPLE - GFP Tag - V

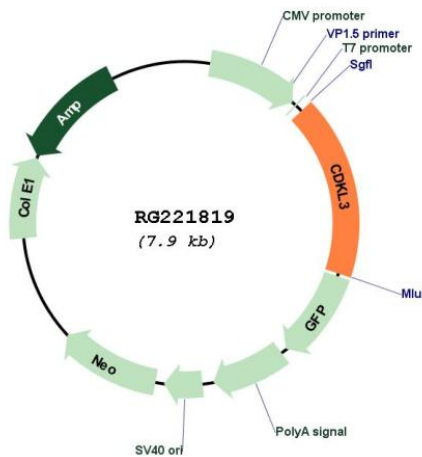
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_016508

ORF Size: 1365 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:	<u>NM_016508.2</u> , <u>NP_057592.1</u>
RefSeq Size:	1513 bp
RefSeq ORF:	1368 bp
Locus ID:	51265
UniProt ID:	<u>Q8IVW4</u>
Cytogenetics:	5q31.1
Protein Families:	Druggable Genome, Protein Kinase
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 cdc28</i> , and <i>Schizosaccharomyces pombe cdc2</i> , 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]