

Product datasheet for **RC222810**

CDC2L1 (CDK11B) (NM_033493) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC2L1 (CDK11B) (NM_033493) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CDC2L1
Synonyms:	CDC2L1; CDK11; CDK11-p46; CDK11-p58; CDK11-p110; CLK-1; p58; p58CDC2L1; p58CLK-1; PK58
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC222810 ORF sequence, **codon optimized**.
 Due to the complexity of NM_033493, the ORF clone is codon optimized for mammalian Expression.
 The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGC**C

ATGGGCGATGAGAAAGACAGCTGGAAGGTAAAACTCTTGACGAGATACTTCAGGAAAAAAGCGCCGCAAGAACAGGAAGAGAAGGCCGAGATAAAGCGGCTGAAGAAGCTCAGACGATAGAGATTCAAAGCGGGACAGCCTGGAAGAGGGTGAGTTGAGGGATCATTGTATGGAAATCACAATTCGAAACAGTCCGTACCGCCGCGAGACAGTATGGAAGACCGGGGAGAGGAGGATGACTCATTGGCCATTAAGCCTCCTCAGCAGATGTCCCGCAAGAGAAGGTGCATCATAGGAAAAGACGAGAAGCGGAAGGAAAAAAGCACGCGAGAGTTAAGGAAAAAGA GCGAGAGCATGAGCGACGAAAAGGCATCGCGAGGAACAGGATAAAGCCAGGCGCGAGTGGGAACGCCAG AAGCGCCGCGAAATGGCCAGAGAACATTCTAGAAGAGAGAGAGATAGGCTCGAACAGCTGGAAAAGGAAGA GAGAAAGAGAAAGGAAGATGAGGGAGCAGCAAAAGGAACAGAGGGAGCAAAAGGAAAGAGAGAGACGCGC GGAAGAGAGGAGAAAAGAAAAGAGAAGCAAGACGCGAAGTGAAGTGGCCATCACAGAACCATGCGGGAAGAT TACAGTGATAAAGTCAAGGCTTCCCCTGGTACGATCCCCGCCAGGCCACCTAGGGAGCGGTTTCGAGC TGGGAGACGGGCGGAAGCCGGTTAAGGAAGAGAAAATGGAAGAACGAGATCTCCTTAGTGACCTGCAAGA TATATCTGACTCAGAGAGGAAAACCACTCCGCGAGTCCAGTTCTGCCGAAAGCGGGTCCAGTACAGAG GAAGAGGAAGAGGAGGAGGAGGAGGAGGAAGAGGGCTCTACAAGCGAGGAGAGCGAAGAGGAAGAGG AGGAGGAGGAGGAAGAAGAGGAGGAAAAGTGGTTCTAATTCAGAGGAGGTTTCCAGAGCAGTCCGCTGAAGA GGTGTCCGAAGAGGAGATGTCTGAGGATGAAGAACGGGAGAACGAGAATCACCTCCTGGTGGTGCCAGAA TCCCGGTTTCGATAGAGACAGTGGTGAAGCGAGGAGGCCGAGGAGGAAGTCCGCGAGGGTACTCCCCAAT CCTCTGCCTTGACTGAAGGGGACTACGTCCCCGATTCCCCTGCTCTTCCCCCATCGAGTTGAAGCAGGA GCTCCCCAAGTATCTGCCAGCCCTTCAGGGCTGCAGAAGTGTGGAGGAGTTTCAATGTCTCAATCGGATA GAAGAAGGCACCTATGGCGTTGTGTACAGAGCCAAAGACAAGAAAACAGACGAAATCGTTGCCCTGAAGC GACTGAAAATGGAGAAGGAAAAGGAAGGGTTCCCAATTACGAGCCTCCGCGAGATTAACACCATATTGAA GGCCAGCATCCTAACATTGTTACAGTGAGGGAATAGTGGTGGGCTCCAACATGGACAAAATCTACATA GTTATGAATTATGTGGAGCACGACCTCAAGTCTCTGATGGAAAACATGAAGCAGCCTTCCCTGCCGGGG AGGTGAAAACATTGATGATACAACCTTCTGAGAGGGGTCAAACATCTTACGACAACCTGGATCCTGCATCG AGATCTGAAGACATCTAACCTTCTGCTGTCCCATGCTGGTATCCTGAAGGTGGGAGACTTTGGGCTCGCC AGAGAGTATGGCAGCCCACTGAAGGCATACACCCCGTTGTTGTGACCTTGTGGTACCGAGCACCTGAGT TGCTGCTTGGGGCGAAGGAGTATAGCACCGCGTGGACATGTGGAGCGTCGGCTGTATCTCGGCGAACT GGTGACCCAGAAGCCTTTGTTTCCGGGAAAATCCGAAATCGATCAAATCAATAAGGTGTTAAAGACCTT AGCATCCATATAACAACCTCAGGAAACGATTCGGCGCACTCCTCTCAGATCAGGGCTTCGACTTGATGAA TAAGTTTTTGACCTATTTCCCGGACGCGGAATCTCTGCGGAAGATGGACTGAAGCATGAGTACTTCCGG GAGACACCATTGCCATCGATCCAGTATGTTCCCGACCTGGCCGGCAAAATCTGAACAGCAGAGGGTGA AGCGAGGTACCAGTCTAGACCCCTGAAGGGGACTTGGTTACAGCCAGCTGGGAGATGACGACCTCAA GGAGACAGGTTTCCACCTGACAACCTACCAACCAGGGCGCTTCAGCCGCCGGGCCAGGTTTAGCTTGAAG TTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC222810 representing NM_033493
 Red=Cloning site Green=Tags(s)

MGDEKDSWKVKTLDLDEILQEKKRRKEQEEKAEIKRLKNSDDDRSKRDSLEEGELRDHCMEITIRNSPYRRE
 DSMEDRGEEDDSLAIKPPQMSRKEKVHHRKDEKRKEKKHARVKEKEREHERRKRHREEQDKARREWERQ
 KRREMAREHSRRERDRLEQLERKRERERKMREQKEQREQKERERRAEERRKEREARREVSAAHRTMRED
 YSDKVKASHWSRSPRPFRERFELGDGRKPVKEEKMEERDLLSDLQDISDSERKTSAAESSAESGSGSE
 EEEEEEEEEEGSTSEEEEEEEEEEEEEETGSNSEEASEQSAEEVSEEMSEDEERENENHLLVPE
 SRFDRDSGESEEAEEVGEVGPQSSALTEGDYVPDSPALSPIELKQELPKYLPALQGCRSVEEFQCLNRI
 EEGTYGVYRAKDKKTDEIVALKRLKMEKEKEGFPITSLREINTILKAQHPNIVTVREIVVGSNMDKIYI
 VMNYVEHDLKSLMETMKQPFPLPGEVKTLMIQLLRGVKHLHDNWLHRDLKTSNLLL SHAGILKVGDFGLA
 REYGSPLKAYTPVVVTLWYRAPELLLGAKEYSTAVDMWSVGCIFGELLTQKPLFPGKSEIDQINKVFKDL
 GTPSEKIWPGYSELPAVKKMTFSEHPYNNLRKRF GALLSDQGFDMNKFLTYFPGRRISAEDGLKHEYFR
 ETPLPIDPSMFPTWPAKSEQQRVKRGTSRPPPEGLGYSQLGDDDLKETGFHLTTTNGASAAAGPGFSLK
 F

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

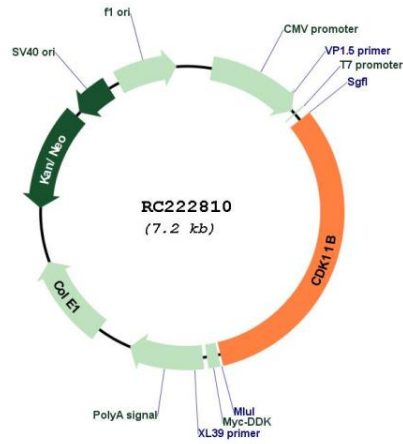


ACCN: NM_033493

ORF Size: 2313 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_033493.1 , NP_277028.1
RefSeq Size:	2453 bp
RefSeq ORF:	2315 bp
Locus ID:	984
Cytogenetics:	1p36.33
Protein Families:	Druggable Genome, Transcription Factors
MW:	90 kDa
Gene Summary:	This gene encodes a member of the serine/threonine protein kinase family. Members of this kinase family are known to be essential for eukaryotic cell cycle control. Due to a segmental duplication, this gene shares very high sequence identity with a neighboring gene. These two genes are frequently deleted or altered in neuroblastoma. The protein kinase encoded by this gene can be cleaved by caspases and may play a role in cell apoptosis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014]

Product images:



Circular map for RC222810