

## Product datasheet for **RC215881**

### **CDC2L1 (CDK11B) (NM\_033492) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CDC2L1 (CDK11B) (NM_033492) 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:**

>RC215881 ORF sequence, **codon optimized**.  
 Due to the complexity of NM\_033492, 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**

ATGGGCGATGAAAAAGATTCATGGAAGGTGAAGACCTCGATGAGATCCTTCAGGAAAAGAAACGCCGCA  
 AAGAGCAAGAAGAGAAAGCGGAGATCAAGCGACTGAAAACTCTGATGATCGGGATTCAGAGGGGACTC  
 CCTGGAGGAGGGAGAGTTGCGGGACCACTGTATGAAATAACAATCAGGAACAGCCCATATCGACGGGAA  
 GACAGCATGGAAGACAGGGGCGAAGAAGACGATTCCCTCGCCATCAAGCCTCCCCAGCAAATGTCCAGAA  
 AGGAGAAAAGTGCACCATAGGAAGGATGAGAAGCGGAAGGAAAAAACACGCCCGAGTCAAAGAAAAAGA  
 GAGAGAGCACGAGAGAAGAAAACGGCACCCGAGGAGCAGGATAAAGCGCGGCGAGAATGGGAAAGACAG  
 AAAAGAAGAGAGATGGCGCGGGAACATTCAAGAAGGAAAGGGGTAAAGACGGGGTTTGCTGTTCCGCG  
 ATCGGCTCGAACAGCTCGAAAGAAAGAGGGAAAGAGAAAGAAAGATGAGAGAACAGCAGAAGGAACAGAG  
 AGAACAAAAAGAGAGAGAGAGGCCGCGCCGAGGAGAGGAGGAAGGAGAGGGAAAGCCCGCAGAGAAGTCAGC  
 GCCCACCATAGAACTATGAGAGAGGACTACAGCGACAAAGTCAAGGCATCACATTGGAGCCCGAGCCCTC  
 CAGCACCACCTAGAGAAAGGTTTCGAGTTGGGCGATGGAAGAAAACCAAGTTAAAGAGGAAAAAATGGAGGA  
 GAGAGATCTGCTTAGCGATCTCCAGGACATCAGTGATAGCGAAGAAAACTAGCTCCGCTGAGTCATCA  
 TCTGCAGAGAGCGGTTCCAGGATCCGAGGAGGAGGAAGAAAGAGAGGAAAGAGGAGGAAAGAGGGAGCA  
 CGAGCGAGGAGTCCGAGGAGGAAGAGGAAGAGGAGGAGGAAGAAAGAGACAGGGAGTAACTCCGA  
 GGAGGCCCTCTGAGCAGTCAGCCGAGGAAGTCTCAGAAGAGGAGATGTCCGAAGACGAGGAGCGGGAGAAT  
 GAGAACCATTGCTGGTGGTCCCAGAATCACGCTTTGATAGGGATTCTGGAGAGTCCGAGGAAGCTGAAG  
 AAGAAGTGGGGAAAGGTACACCACAGTCATCCGCACTGACCGAGGGGCACTATGTGCCGATTCCCCAGC  
 CCTGAGCCCAATTGAGCTGAAGCAGGAAGTCCCAAATATCTGCCCGCCCTGCAGGGGTGCCGTCAGTT  
 GAGGAATTCAGTGCCTCAACAGAAATTGAGGAAGGGACGTACGGTGTGGTCTACCGAGCTAAAGACAAAA  
 AGACTGACGAAATCGTCGCTCTGAAGCGGCTGAAGATGGAAAAAGAGAAAGAGGGGTTCCCTATCACGTC  
 CCTGAGGGAGATCAATACAATTTGAAGGCCAGCACCCGAACATTGTAACAGTGCGGGAGATCGTGGTG  
 GGAAGTAATATGGATAAGATTTATATCGTCATGAACTACGTTGAACACGATCTGAAGAGCTTGATGGAAA  
 CTATGAAGCAACCATTTCTGCCAGGAGAGGTGAAGACCCTGATGATACAACCTGTTGAGAGGGGTGAAGCA  
 CCTGCACGATAACTGGATCCTGCACAGAGATCTGAAAACCTCAAACCTCCTGCTTTCACATGCTGGTATC  
 CTGAAAGTTGGGGATTTCCGACTGGCAAGGGAGTACGGATCACCTCTCAAGGCTTATACCCCGGTGGTGG  
 TGACCCCTGTTACCGGGCACCAGAAGTCTGTTGGGAGCTAAAGAGTATTCAACGGCCGTGGATATGTG  
 GTCCGTCGGATGCATCTTCGGCGAACTCCTCACAAAAAACCCCTGTTCCCGGGAAAAGTGAGATTGAT  
 CAGATCAACAAAGTCTTCAAAGACCTGGGACCCCGAGGAAAAGATCTGGCCGGGTATAGCGAACTGC  
 CTGCTGTTAAAAAATGACCTTCTCCGAGCATCCATAACAATAACCTCCGGAAGAGGTTTGGGGCCCTGCT  
 GAGTGATCAGGGCTTCGACCTGATGAATAAATTTCTTACTTACTTTCCCGGACGCCGATTAGTGCCGAA  
 GACGGCCTCAAGCACGAATACTTTCGCGAACTCCACTGCCATCGACCTTCCATGTTTCCGACCTGGC  
 CAGCAAAAAGCGAACAGCAAAGGTGAAGAGAGGCACTTCTCCGCGCCCGCGGAGGGGGTCTTGGCTA  
 CAGCCAACTGGGCGACGATGATCTGAAGGAGACAGGCTTCCATTTGACTACTACAAACCAGGGCGCTAGC  
 GCTGCTGGACCAGGGTTCAGCCTCAAGTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC215881 representing NM\_033492  
 Red=Cloning site Green=Tags(s)

MGDEKDSWKVKTLDLDEILQEKKRRKEQEEKAEIKRLKNSDDDRSKRDSLEEGELRDHCMEITIRNSPYRRE  
 DSMEDRGEEDSLAIKPPQMSRKEKVHHRKDEKRKEKKHARVKEKEREHERRKRHREEQDKARREWERO  
 KRREMARHESRRERGNMGVCLFRDRLEQLERKRERERMREQKEQREKERERRAEERRKEREARREVS  
 AHHRTMREDYSDKVKASHWSRSPRPFRERFELGDGRKPVKEEKMEERDLLSDLQDISERKTSSEAESS  
 SAESGSGSEEEEEEEEEEGSTSEEEEEEEEEEEEEETGSNSEEASEQSAEEVSEEMSEDEEREN  
 ENHLLVVPESRFRDRSGESEEAEVEVGEGTPQSSALTEGDYVPDSPAISPILKQELPKYLPALQGCRSV  
 EEFQCLNRIIEGTYGVVYRAKDKKTDEIVALKRLKMEKEKEGFPITSLREINTILKAQHPNIVTVREIVV  
 GSNMDKIYVMNYVEHDLKSLMETMKQPFLPGEVKTLMIQLLRGVKHLHDNWLHRDLKTSNLLSHAGI  
 LKVGDFGLAREYGSPLKAYTPVVVTLWYRAPELLLGAKEYSTAVDMWSVGCIFGELLTQKPLFPGKSEID  
 QINKVFKDLGTPSEKIWPGYSELPAVKKMTFSEHPYNNLRKRFGALLSDQGFDMNKFLTYFPGRRI SAE  
 DGLKHEYFRETPLPIDPSMFPTWPAKSEQQRVKRGTSPRPPEGGLGYSQLGDDDLKETGFHLTTTNQGAS  
 AAGPGFSLKF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfi-MluI

Cloning Scheme:

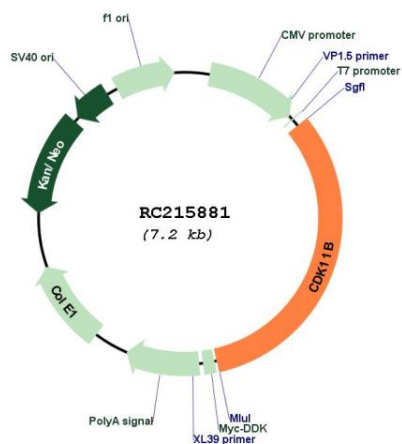


ACCN: NM\_033492

ORF Size: 2340 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_033492.1</a> , <a href="#">NP_277027.1</a>
<b>RefSeq Size:</b>	2480 bp
<b>RefSeq ORF:</b>	2342 bp
<b>Locus ID:</b>	984
<b>Cytogenetics:</b>	1p36.33
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>MW:</b>	91 kDa
<b>Gene Summary:</b>	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 RC215881