

Product datasheet for **RG216519**

CDC2L1 (CDK11B) (NM_033488) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC2L1 (CDK11B) (NM_033488) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDC2L1
Synonyms:	CDC2L1; CDK11; CDK11-p46; CDK11-p58; CDK11-p110; CLK-1; p58; p58CDC2L1; p58CLK-1; PK58
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG216519 representing NM_033488
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGAGTCTGATGACCGGGATTCCAAGCGGGATTCCCTTGAGGAGGGGGAGCTGAGAGATCACCGCA
 TGGAGATCACAATAAGGAACTCCCGTATAGAAGAGAAGACTCTATGGAAGACAGAGGAGAAGAAGATGA
 TTCTTTGGCCATCAAACCACCCAGCAAATGTCTCGGAAAAGAAAAAGTTCATCACAGAAAAGATGAAAA
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 AAGAACAGGATAAAGCTCGCCGGGAATGGGAAAGACAGAAGAGAAGGAAATGGCAAGGGAGCATTCCAG
 GAGAGAAAAGGACCGCTTGGAGCAGTTAGAAAGGAAGCGGGAGCGGGAGCGCAAGATGCGGGAGCAGCAG
 AAGGAGCAGCGGGAGCAGAAGGAGCGGAGCGGGCGGAGGAGCGGCGCAAGGAGCGGGAGGCCCGCA
 GGAAGTGTCTGCACATACCGAACGATGAGAGAGGACTACAGCGACAAAGTAAAAGCCAGCCACTGGAG
 TCGCAGCCCGCTCGGCCCGCGGGAGCGGTTTCGAGTTGGGAGACGGCCGGAAGCCAGTAAAAGAAGAG
 AAAATGGAAGAAAAGGACCTGTGTCCGACTTACAGGACATCAGCGACAGCGAGAGGAAGACCAGCTCGG
 CCGAGTCTCGTCAGCAGAATCAGGCTCAGGTTCTGAGGAAGAAGAGGAGGAGGAGGAAGAGGAGGAGGA
 GGAAGGGAGCACCACTGAAGAATCAGAGGAGGAGGAGGAGGAAGAGGAAGAGGAGGAGGAGGAGACCGGC
 AGCAACTCTGAGGAGGCATCAGAGCAGTCTGCCAAGAAGTAAGTGAAGAAAGTGAAGTGAAGTGAAG
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 ACGCCGGCATCCTCAAGGTGGTGACTTCGGGCTGGCGCGGGAGTACGGATCCCCTCTGAAGGCCTACAC
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 CAGCGAGCTCCCAGCAGTCAAGAAGATGACCTTCAGCGAGCACCCCTACAACAACCTCCGCAAGCGCTTC
 GGGGCTCTGCTCTCAGACCAGGGCTTCGACCTCATGAACAAGTTCCTGACCTACTTCCCGGGAGGAGGA
 TCAGCGCTGAGGACGGCCTCAAGCATGAGTATTTCCGCGAGACCCCTCCCATCGACCCCTCCATGTT
 CCCACGTGGCCCGCAAGAGCGAGCAGCAGCGTGTGAAGCGGGGACCAGCCCGAGGCCCTGAGGGA
 GGCCTGGGCTACAGCCAGCTGGGTGACGACGACCTGAAGGAGACGGGCTTCCACCTTACCACCACGAACC
 AGGGGGCTCTGCCGCGGGCCCCGGCTTACGCTCAAGTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG216519 representing NM_033488
Red=Cloning site Green=Tags(s)

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MSQSDDRDSKRDLSLEEGELRDHRMEITIRNSPYRREDSMEDRGEEDDSLAIKPPQMSRKEKVHHRKDEK
RKEKKHARVKEKEREHERRKRHREEQDKARREWEROQRREAREHSRRERDRLEQLERKRERERKMREQQ
KEQREQKERERRAEERRKEREARREVSAAHRTMREDYSDKVKASHWSRSPRPPRERFELGDGRKPVKEE
KMEERDLLSDLQDISDSEKRTSSAESSSAESGSGSEEEEEEEEEEGSTSEESEEEEEEEEEEEEEETG
SNSEEEASEQSAEEVSEEESEDEERENENHLLVVPESRFDRDSGESEEAEEEEVGEETPQSSALTEGDYVP
DSPALSPIELKQELPKYLPALQGCERSVEEFQCLNRIIEEGTYGVVYRAKDKKTDEIVALKRLKMEKEKEGF
PITSLREINTILKAQHPNIVTVREIVVGSNMDKIYIVMNYVEHDLKSLMETMKQPFLPGEVKTLMIQLLR
GVKHLHDNWILHRDLKTSNLLLSHAGILKVGDFGLAREYGSPLKAYTPVVVTLWYRAPELLLGAKEYSTA
VDMWSVGCIFGELLTQKPLFPKGSEIDQINKVFKDLGTPSEKIWPGYSELPAVKKMTFSEHPYNNLRKRF
GALLSDQGFDLMNKFLTYFPGRRISAEDGLKHEYFRETPLPIDPSMFPTWPAKSEQQRVKRGTSRPPPEG
GLGYSQLGDDDLKETGFHLTTTNGASAAAGPGFSLKF
    
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033488

ORF Size: 2211 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_033488.1](#), [NP_277023.1](#)

RefSeq Size: 2500 bp

RefSeq ORF: 2213 bp

Locus ID: 984

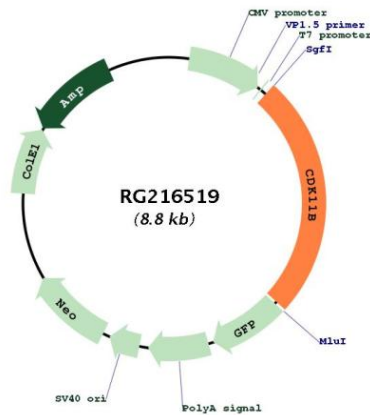
Cytogenetics: 1p36.33

Domains: pkinase

Protein Families: Druggable Genome, Transcription Factors

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 RG216519