

## Product datasheet for **RG222039**

### **CDC2L1 (CDK11B) (NM\_033487) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CDC2L1 (CDK11B) (NM_033487) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDC2L1
Synonyms:	CDC2L1; CDK11; CDK11-p46; CDK11-p58; CDK11-p110; CLK-1; p58; p58CDC2L1; p58CLK-1; PITSLREA; PK58
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG222039 representing NM\_033487  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAAGAAAGGGACCTGCTGTCCGACTTACAGGACATCAGCGACAGCGAGAGGAAGACCAGCTCGGCCG  
 AGTCTCGTCAGCAGAATCAGGCTCAGGTTCTGAGGAAGAAGAGGAGGAGGAGGAAGAGGAGGAGGAGGA  
 AGGGAGCACCAAGTGAAGAATCAGAGGAGGAGGAGGAGGAAGAGGAAGAGGAGGAGGAGGAGACCGGCAGC  
 AACTCTGAGGAGGCATCAGAGCAGTCTGCCAAGAAGTAAAGTGAAGAAAGAAATGAGTGAAGATGAAGAAC  
 GAGAAAATGAAAACACCTCTTGGTGTGTTCCAGAGTACCGGTTCCGACGAGATCCGGGGAGAGTGAAGA  
 AGCAGAGGAAGAAGTGGGTGAGGAAACGCCGAGAGCAGCGCCCTGACAGAGGGCGACTATGTGCCCGAC  
 TCCCTGCCCTGTCGCCATCGAGCTCAAGCAGGAGCTGCCAAGTACCTGCCGGCCCTGCAGGGCTGCC  
 GGAGCGTCGAGGAGTTCAGTGCCTGAACAGGATCGAGGAGGGCACCTATGGAGTGGTCTACAGAGCAAA  
 AGACAAGAAAACAGATGAAATTTGGTCTAAAGCGGCTGAAGATGGAGAAGGAGAAGGAGGGCTTCCCG  
 ATCACGTCGTCGAGGAGATCAACACCATCCTCAAGGCCAGCATCCCAACATCGTCACCGTTAGAGAGA  
 TTGTGGTGGGCAGCAACATGGACAAGATCTACATCGTGATGAACTATGTGGAGCACGACCTCAAGAGCCT  
 GATGGAGACCATGAAACAGCCCTTCTGCCAGGGGAGGTGAAGACCCTGATGATCCAGCTGCTGCGTGGG  
 GTGAAACACCTGCACGACAACCTGGATCCTGCACCGTGACCTCAAGACGTCCAACCTGCTGCTGAGCCACG  
 CCGGCATCCTCAAGGTGGGTGACTTCGGGCTGGCGCGGGAGTACGGATCCCCTCTGAAGGCCACACCCC  
 GGTCGTGGTGACCCTGTGGTACCGCGCCCCAGAGCTGCTGCTTGGTGCCAAGGAATACTCCACGGCCGTG  
 GACATGTGGTCAGTGGGTGCATCTTCGGGGAGCTGCTGACTCAGAAGCCTCTGTTCCCCGGGAAGTCAG  
 AAATCGATCAGATCAACAAGGTGTTCAAGGATCTGGGGACCCCTAGTGAGAAAATCTGGCCCGGCTACAG  
 CGAGTCCCAGCAGTCAAGAAGATGACCTTCAGCGAGCACCCCTACAACAACCTCCGCAAGCGCTTCGGG  
 GCTCTGCTCTCAGACCAGGCTTCGACCTCATGAACAAGTTCCTGACCTACTTCCCCGGGAGGAGGATCA  
 GCGCTGAGGACGGCCTCAAGCATGAGTATTTCCGCGAGACCCCCCTCCCATCGACCCCTCCATGTTCCC  
 CACGTGGCCCGCAAGAGCGAGCAGCAGCGTGTGAAGCGGGCCACAGCCCGAGGCCCCCTGAGGGAGGC  
 CTGGGCTACAGCCAGCTGGGTGACGACGACCTGAAGGAGACGGGCTTCCACCTTACCACCACGAACCAGG  
 GGGCTCTGCCGCGGGCCCGGCTTCAGCTCAAGTTC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG222039 representing NM\_033487  
 Red=Cloning site Green=Tags(s)

MEERDLLSDLQDISDSERKTSSAESSAESGSGSEEEEEEEEEEEEEEGSTSEEEEEEEEEEEEEETGS  
 NSEEASEQSAEEVSEEMESEDEERENENHLLVVPESRFRDRDSGESEEAEEEEVGEETPQSSALTEGDYVPD  
 SPALSPIELKQELPKYLPALQGCERSVEEFQCLNRIEEGTYGVVYRAKDKKTDIEIVALKRLKMEKEKEGFP  
 ITSLREINTILKAQHPNIVTVREIVVGSNMDKIYIVMNYVEHDLKSLMETMKQPFLPGEVKTLMIQLLRG  
 VKHLHDNWLHRDLKTSNLLL SHAGILKVGDFGLAREYGSPLKAYTPVVVTLWYRAPELLLGAKEYSTAV  
 DMWSVGCIFGELLTQKPLFPGKSEIDQINKVFKDLGTPSEKIWPGYSELPVKKMTFSEHPYNNLRKRFG  
 ALLSDQGFDLMNKFLTYFPGRRISAEDGLKHEYFRETPLPIDPSMFPTWPAKSEQQRVKRGTSPRPPEGG  
 LGYSQLGDDDLKETGFHLTTTNQGASAAGPGFSLKF

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_033487

**ORF Size:** 1578 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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).

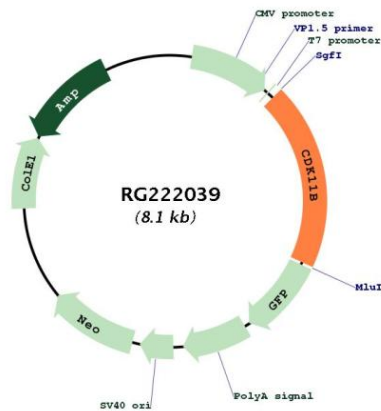
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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\\_033487.1](#), [NP\\_277022.1](#)

**RefSeq Size:** 2226 bp  
**RefSeq ORF:** 1581 bp  
**Locus ID:** 984  
**UniProt ID:** [P21127](#)  
**Cytogenetics:** 1p36.33  
**Domains:** pkinase, TyrKc, S\_TKc  
**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 RG222039