

## Product datasheet for RC211124

### CDC2L2 (NM\_033532) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CDC2L2 (NM_033532) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CDC2L2
Synonyms:	CDC2L3, p58GTA, PITSLRE, CDK11-p46, CDK11-p58, MGC131975, CDK11-p110
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211124 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGAACGAGAAAATGAAAACCACTCTTGTTGTTCCAGAGTCACGGTTCGACCGAGATTCGGGGA  
GAGTGAAGAAGCAGAGGAAGAAGTGGGGCTGCCGGAGCGTCGAGGAGTTCAGTGCCTGAACAGGATCGA  
GGAGGGCACCTATGGAGTGGTCTACAGAGCAAAAGACAAGAAAACAGATGAAATTGTGGCTCAAAGCGG  
CTGAAGATGGAGAAGGAGAAGGAGGGCTCCCCGATCACGTCCCTGAGGGAGATCAACACCATCCTCAAGG  
CCCAGCATCCCAACATTGTCACCGTTAGAGAGATTGTGGTGGGCAGCAACATGGACAAGATCTACATCGT  
GATGAACTATGTGGAGCAGCACCTCAAGAGCCTGATGGAGACCATGAAACAGCCCTTCTGCCAGGGGAG  
GTGAAGACCTGATGATCCAGCTGCTGCGTGGGGTGAACACCTGCACGCAAACTGGATCCTGCACCGTG  
ACCTCAAGACGTCCAACCTGCTGCTGAGCCACGCCGGCATCCTCAAGGTGGGTGATTTTGGGCTGGCGCG  
GGAGTACGGATCCCCTCTGAAGGCCTACACCCGGTCTGGTGACCCAGTGGTACCGCGCCCCAGAGCTG  
CTGCTTGGTGCCAAGGAATACTCCACGGCCGTGGACATGTGGTCACTGGGCTGCATCTTCGGGGAGCTGC  
TGACTCAGAAGCCTCTGTTCCCCGGGAATTCGAAATCGATCAGATCAACAAAGTGTCAAGGAGCTGGG  
GACCCCAAGTGAAGAAATCTGGCCCGGCTACAGTGAGCTCCAGTAGTCAAGAAGATGACCTTCAGCGAG  
CACCCCTACAACAACCTCCGCAAGCGCTTCGGGGCTCTGCTCTCAGACCAGGGCTTCGACCTCATGAACA  
AGTTCCTGACCTACTTCCCGGGAGGAGGATCAGCGCTGAGGACGGCCTCAAGCATGAGTATTTCCGCGA  
GACCCCTCCCATCGACCCCTCCATGTTCCACAGTGGCCCGCAAGAGCGAGCAGCAGCGTGTGAAG  
CGGGGCACCAGCCGAGGCCCTGAGGGAGGCTGGGCTACAGCCAGCTGGGTGACGACGACCTGAAGG  
AGACGGGCTTCCACCTTACCACCACGAACCAGGGGGCCTCTGCCGGGGCCCCGGCTTCAGCCTCAAGTT  
C

**ACGGT**ACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC211124 protein sequence  
Red=Cloning site Green=Tags(s)

MKNEKMKTTSWLFQSHGSTEIPGRVKKQRKKWGCRSVVEEFQCLNRIEEGTYGVVYRAKDKKTDEIVALKR  
 LKMEKEKEGFPITSLREINTILKAQHPNIVTVREIVVGSNMDKIYIVMNYVEHDLKSLMETMKQPFLPGE  
 VKTLMIQLLRGVKHLHDNWILHRDLKTSNLLL SHAGILKVGDFGLAREYGSPLKAYTPVVVTQWYRAPEL  
 LLGAKEYSTAVDMWSVGCIFGELLTQKPLFPGNSEIDQINKVFKELGTPSEKIWPYSELPPVVKMTFSE  
 HPYNNLRKRFGALLSDQGFDMNKFLTYFPGRRISAEDGLKHEYFRETPLPIDPSMFPTWPAKSEQQRVK  
 RGTSPRPPEGGLGYSQLGDDDLKETGFHLTTTNGASAAAGPGFSLKF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6585\\_d11.zip](https://cdn.origene.com/chromatograms/mk6585_d11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_033532

**ORF Size:** 1191 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_033532.1](#), [NP\\_277074.1](#)

**RefSeq Size:** 2362 bp

**RefSeq ORF:** 1193 bp

**Locus ID:** 985

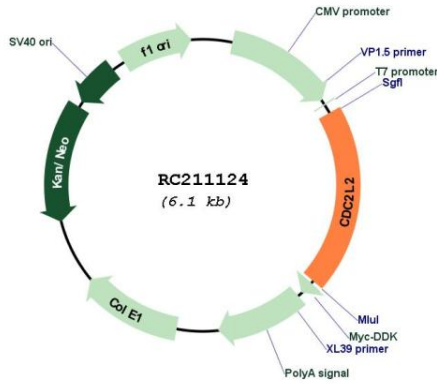
**Cytogenetics:** 1p36.33

**Protein Families:** Protein Kinase, Transcription Factors

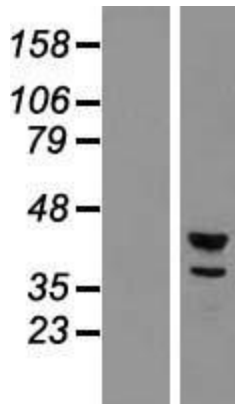
**MW:** 45.2 kDa

**Gene Summary:** This gene encodes a member of the p34Cdc2 protein kinase family. p34Cdc2 kinase family members are known to be essential for eukaryotic cell cycle control. This gene is in close proximity to CDC2L1, a nearly identical gene in the same chromosomal region. The gene loci including this gene, CDC2L1, as well as metalloprotease MMP21/22, consist of two identical, tandemly linked genomic regions, which are thought to be a part of the larger region that has been duplicated. This gene and CDC2L1 were shown to be deleted or altered frequently in neuroblastoma with amplified MYCN genes. The protein kinase encoded by this gene could be cleaved by caspases and was demonstrated to play roles in cell apoptosis. Many transcript variants encoding several different isoforms have been found for this gene, but the full-length nature of only two have been determined so far.

Product images:



Circular map for RC211124



Western blot validation of overexpression lysate (Cat# [LY409508]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211124 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).