

## Product datasheet for **RC206105**

### **CDC2L6 (CDK19) (NM\_015076) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CDC2L6 (CDK19) (NM_015076) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CDC2L6
Synonyms:	bA346C16.3; CDC2L6; CDK11; DEE87; EIEE87
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC206105 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATTATGATTCAAGGCGAAGCTGGCGCGGAGCGGGAGCGGGTGGAGGATTTGTTTGTAGTACGAAG  
 GGTGCAAAGTGGGACCGGCACCTACGGTCACGCTACAAGGCGAGGCGAAAGATGAAAAAGATGAAAA  
 GGAATATGCATTGAAGCAAATTGAAGGCACAGGAATATCCATGTCGGCTTGTAGAGAGATTGCACCTTTG  
 CGAGAATTGAAGCACCTAATGTGATTGCATTGCAGAAGGTGTTCTTTCTCACAGTGACAGGAAGGTAT  
 GGCTGCTGTTGATTATGCAGAGCATGACTTGTGGCATATTATTAAGTTTCACCGTGCATCAAAGCAAA  
 TAAAAAGCCCATGCAGTTGCCAAGATCTATGGTTAAATCCTTACTTTACCAGATTCTTGATGGTATCCAT  
 TACCTCCATGCAAATTGGTGCTTACAGAGACTTGAACACAGCAAATATCCTAGTAATGGGAGAAGGTC  
 CTGAGAGGGGGAGAGTCAAATAGCTGACATGGGTTTTGCCAGATTATCAATTCTCTCTAAAGCCACT  
 AGCAGATTTGGATCCAGTAGTTGTGACATTTTGGTATCGGGCTCCAGAACTTTTGTGGTGAAGGCAT  
 TATACAAAGGCCATTGATATATGGCAATAGTTGTATATTTGCTGAATTGTTGACTTCGGAACCTATTT  
 TCACTGTCGTCAGGAAGATATAAAAAACAGCAATCCCTTTCATCATGATCAACTGGATCGGATATTTAG  
 TGTGATGGGGTTTCTGCAGATAAAGACTGGGAAGATATTAGAAAAGATGCCAGAAATATCCCACACTTCAA  
 AAAGACTTTAGAAGAACAACGTATGCCAACAGTAGCCTCATAAAGTACATGGAGAAAACACAAGGTCAAGC  
 CTGACAGCAAAGTGTTCCTTCTGCTTCCAGAACTCCTGACCATGGATCCAACCAAGAGAATTACCTCGGA  
 GCAAGCTCTGCAGGATCCCTATTTTCAGGAGACCCTTGGCAACATTAGATGTATTTGCCGGCTGCCAG  
 ATTCATACCCCAAACGAGAATTCCTTAATGAAGATGATCCTGAAGAAAAAGGTGACAAGAATCAGCAAC  
 AGCAGCAGAACCAGCATCAGCAGCCACAGCCCTCCACAGCAGCAGCAGCCCTCCACAGGCGCCCC  
 ACCACAGCAGAACAGCACCCAGACCAACGGGACCGCAGGTGGGGCTGGGGCCGGGTTCGGGGCACCGGA  
 GCAGGGTTGCAGCACAGCCAGGACTCCAGCCTGAACCAGGTGCCTCCAAACAAGAAGCCACGGCTAGGGC  
 CTTCAGGCGCAAACCTCAGGTGGACCTGTGATGCCCTCGGATTATCAGCACTCCAGTTCTCGCTGAATTA  
 CCAAAGCAGCGTTCCAGGATCCTCTCAGTCCCAGAGCACACTTGGCTACTTCTCTCGTCTCAGCAGAGC  
 TCACAGTACCACCATCTCACCAGGCCACCGGTAC

**ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:**

>RC206105 protein sequence  
 Red=Cloning site Green=Tags(s)

MDYDFKAKLAAERERVEDLFEYEGCKVGRGTYGHVYKARRKDGKDEKEYALKQIEGTGISMSACREIALL  
 RELKHPNVIALQKVFLSHSDRKVWLLFDYAEHDLWHIIFHRASKANKKPMQLPRSMVKSLLYQILDGIIH  
 YLHANWVLRDLKPANILVMGEGPERGRVKIADMGFARLFNSPLKPLADLDPVVVTFWYRAPELLLGARH  
 YTKAIDIWAIGCIFAELLTSEPIFHCRQEDIKTSNPFHHDQLDRIFSVMGFPADKDWEDIRKMPYPTLQ  
 KDFRRTTYANSSLIKYMCHKVKPDSKVFLLQKLLTMDPTKRITSEQALQDPYFQEDPLPLDVFAGCQ  
 IPYPKREFLNEDDPEEKGDKNQQQQNQHQOPTAPPQQAAPPQAPPQQNSTQTNGTAGGAGAGVGGTG  
 AGLQHSQDSSLNQVPPNKKPRLGPSGANSVMPSPDYQHSSRLNYQSSVQSSSQSTLGYSSSSQSS  
 SQYHPSHQAHRY

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6515\\_e02.zip](https://cdn.origene.com/chromatograms/mk6515_e02.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_015076

**ORF Size:** 1506 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\\_015076.5](#)

**RefSeq Size:** 6246 bp

**RefSeq ORF:** 1509 bp

**Locus ID:** 23097

**UniProt ID:** [Q9BWU1](#)

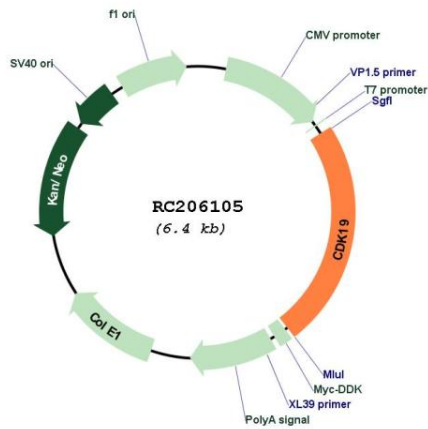
**Cytogenetics:** 6q21

**Protein Families:** Druggable Genome, Protein Kinase

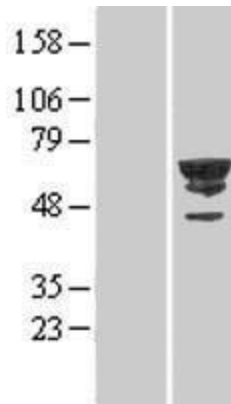
**MW:** 56.8 kDa

**Gene Summary:** This gene encodes a protein that is one of the components of the Mediator co-activator complex. The Mediator complex is a multi-protein complex required for transcriptional activation by DNA binding transcription factors of genes transcribed by RNA polymerase II. The protein encoded by this gene is similar to cyclin-dependent kinase 8 which can also be a component of the Mediator complex. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2014]

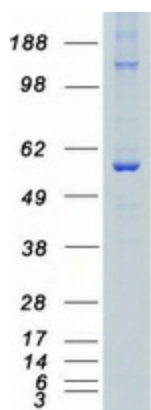
**Product images:**



Circular map for RC206105



Western blot validation of overexpression lysate (Cat# [LY414814]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206105 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CDK19 protein (Cat# [TP306105]). The protein was produced from HEK293T cells transfected with CDK19 cDNA clone (Cat# RC206105) using MegaTran 2.0 (Cat# [TT210002]).