

## Product datasheet for **RR206300**

### **Cdc25a (NM\_133571) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cdc25a (NM_133571) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdc25a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR206300 representing NM\_133571  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAAGTGGCCCGGAGCCCCACCGCCGCCCTGCTTCACTTGCAGCCCCACTCTGCGCCG  
 AGCCACGGGAAGGTGCAGTTTGGCGCTCACGTGCTGGCGACTGTCCCTGTACCAACCTGACGGT  
 CACCATGGACCAGCTGGAAGGGCTGGGCAGTGACTATGAGAAACCAATGGACGTGAGAAATAGCAGCAGT  
 CTACAGAGAATGGGCTCCTCTGAATCGACTGATTCAAGTTTCTGTCTAGATTCTCCTGGGCCCTTGACA  
 GTAAGAAAACCTTGAATTTCCCTGAGGAGAATAAATTGCCTACCTCAGAAGCTTTGGGGTGTAGCCC  
 AGCGCTAAAGAGGAGCCATTCTGATTCTTAGACCACGACATCTTCAACTATTGACCAGGATGAAAAT  
 AAAGAAAATGAAGCATTGAATTTAAAAAGCCAATAAGACCTGCATCTCGTGGCTGCCTGAATGCTCAG  
 TTCACGAGGAAAGTAAGGACCCCTTACACACAGGCAGAATTAGCCCGAGCTCGGATGCTGTCTCAA  
 TGAAGTGACATTAGTGAATCAGGAAATTCAGTCTCTTTTACACCCAGTCACCTGTGAAAGCGAGT  
 TTGCTGATGAGGATGATGGCTTATAGACCTTCTGGATGGAGAGAATCTGAAGAATGATGAGGAGACCC  
 CGTCGTGCATGTCAAGCCTCTGGACCGCTCCCCTTGTCTAGAGAAGACCTACAAACCTTGCCGATCGATG  
 TGGACTGTTTACTCCCTTCCCGTGCAGCTCCACCAGCAGCTGCAGCACTCGGGCAGTGAAGAGAGCA  
 GACCGATCTCATGAGGAGTCTCCTCGAGGTACAAAGCGGAGGAAGAGCAGTGAGGCCAGTCCAGTGAAGG  
 CAGATGTTCCGGAGCCAACGCAGCTTCCACACCAGTCTCTCCTGACATCTTTCCCAAAGGAACCAT  
 TGAGAACATTTCCACAGTGACCAAGAGACCTTATAGGGGATTTCTCCAAGGTTACCTCTTTCATACG  
 GTCTCTGGGAAGCATCAGGATTTGAAATATATTTCTCCAGAAATATGGCATCTGTTTGAATGGCAAGT  
 TTGCCAATCTCATTAAAGAGTTTGTATCATTGACTGCCGATACCCATATGAATATGAAGGAGGACAT  
 CAAGGGTGCCGTGAACCTTGACATGGAAGAAGAGGTTGAGGAGTCTTACTCAAGAAACCTATCGTGCCC  
 GCTGACGCAAGCGTGTATTGTCGTGTTCCACTGTGAGTTCTCCTCTGAGAGAGGCCCTCGGATGTGCC  
 GATATGTACGGGAACGAGATAGGCTTGGCAATGAATACCCCAAACCTCCACTACCTGAGCTGTATGCTCT  
 GAAGGGGGGATACAAGGAGTTCTTTTGAATGCCAGTCTCACTGTGAACCCCCAGCTACCGACCGATG  
 CACCATGAAGACTTTAAGAAGACCTAAGAAGTCCGCACCAAGAGCCGACCTGGGCAGGGGAGAAGA  
 GCAAAAGGGAGATGTACAGTCGCTGAAGAAGCTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR206300 representing NM\_133571  
 Red=Cloning site Green=Tags(s)

MELGPEPPHRRLLFTCSPTPAPQPTGKVQFGASRAGGLSPVTNLVTMDQLEGLGSDYKPMQVNRSS  
 LQRMGSSESTDSGFCLDSPGLDSKENLEISLRRINCLPQKLLGCSPALKRSHSDSLDHDIFQLIDQDEN  
 KENEAFEFKPIRPASRGCLNAHVHEESKDPFTHRQNSAPARMLSSNESDISESGNF SPLFTPQSPVKAS  
 LSDEDDGFIDLLDGENLKNDEETPSCMSSLWTAPLVMRRPTNLADRCGLFDSPSPCSSTSSCSTRAVKRA  
 DRSHSESPRGTKRRKSSEASPVKADVPEPTQLPHQSLSLTSFPGKTIENIFHSDPRDLIGDFSKGYLFHT  
 VSGKHQDLKYISPEIMASVLNGKFANLIKEFVIIDCRYPIYEGGHIKGAVNLHMEEVEEFLLKKPIVP  
 ADGKRVI VVFHCEFSSERGPRMCRYVREDRDLGNEYPKLHYPELVYVKKGGYKEFFLKCQSHCEPPSYRPM  
 HHEDFKEDLKKFRTKSRWAGEKSKREMYSRLLKL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1910\\_g06.zip](https://cdn.origene.com/chromatograms/ja1910_g06.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_133571

**ORF Size:** 1575 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\\_133571.1](#), [NP\\_598255.1](#)

RefSeq Size: 3415 bp

RefSeq ORF: 1578 bp

Locus ID: 171102

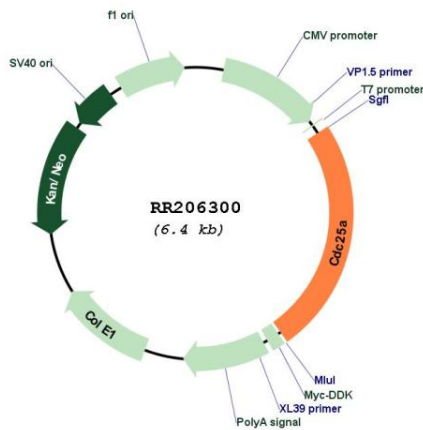
UniProt ID: [P48965](#)

Cytogenetics: 8q32

MW: 59.7 kDa

Gene Summary: novel phosphatase that mediates the start of the cell cycle; predominantly expressed in late G1, does not function as mitotic regulator [RGD, Feb 2006]

**Product images:**



Circular map for RR206300