

## Product datasheet for **MC204476**

### **Cdc25a (NM\_007658) Mouse Untagged Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | Cdc25a (NM_007658) Mouse Untagged Clone |
| Tag:                      | Tag Free                                |
| Symbol:                   | Cdc25a                                  |
| Synonyms:                 | D9Erttd393e                             |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | PCMV6-Kan/Neo (PCMV6KN)                 |
| E. coli Selection:        | Kanamycin (25 ug/mL)                    |



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**Fully Sequenced ORF:** >BC046296  
 AGCGGGAGTCCGGGCAGGCCCGGCGGCCATGGAACCTGGGCCCGGAGCCCCCACC GCCCGCCTGT  
 TCTTCGCTTGCAGCCCCACGCCTGCGCCGACGCCACGGGGAAGATGCTGTTGGCGCGTCAGCTGCTGG  
 CGGACTGTCCCCTGTACCAACCTGACGGTCACCATGGACCAGCTGGAAGGACTGGGCAGTGACTGTGAG  
 AAAATGGAAGTGAGAAAATAACAGCAGTCTACAGAGAATGGGCTCCTCAGAATCGACCGATTACAGGTTTCT  
 GTCTAGATTCTCCTGGGCCCTTGGACAGTAAAGAAAACCTTGAATTTCCCTGACGAGAATAAATCCCT  
 ACCTCAGAAGCTCCTGGGATGTAGCCAGCCCTGAAGAGGAGCCACTCTGATTCTCTAGACCACGACACC  
 TTTCACCTCATCGACCAGGATGAAAATAAAGAAAATGAAGCATTGAAATTTAAAAAGCCAATACGACCTG  
 CATCTCGTCACATCTACGAGGAGAGTAAAGATCCCTTTACACACAGGCAGAATTCAGCCCCAGCTCGGAT  
 GCTATCTTCAAATGAAAGTGAATCAGGAAATTTAGTCCTCTTTTTATACCCAGTCACCTGTAAAAGCC  
 ACTTTGTCCGATGAGGATGATGGCTTCATAGACCTTCTGGATGGCGAGAATATGAAGAATGATGAGGAGA  
 CCCCATCATGCATGGCAAGCCTCTGGACAGCTCCCCTTGTATGAGGAGACCTGCAAACCTTGCCGATCG  
 TTGCGGGTGTGACTCCCCTCCCGTGC GGCTCCAGCACTCGGGCGGTGTTGAAGAGAGCAGACCGG  
 TCTCAGGAGCCTCCTCGGGTACAAGAGGAGGAAGAGTGTGCCAGCCCTGTGAAGCGAAGCGG  
 ATGTTCCGGAGCCCGCCAGCTTCCATCCCAGTCTCTATCCCTGATGTCTTCCCCAAAGGAACCATTGA  
 GAACATTTTGGACAGTGACCCAAGAGACCTTATAGGAGATTTCTCCAAGGTTATCTCTTTAATACAGTC  
 TCTGGGAAGCATCAGGATTTGAAATATATTTCTCCAGAAATTATGGCATCTGTTTTGAATGGCAAGTTTG  
 CAGTCTCATTAAAGAGTTTGTATCATTGACTGCCGATACCCATATGAGTATGAAGGAGGTCACATCAA  
 GGGTGCCGTGAATCTGCACATGGAAGAAGAGGTTGAAGACTTCTTACTTAAGAACCCTATTGTGCCTACT  
 GATGGCAAGCGTGCATTTGTCTGTCCACTGTGAGTTTTCTCTGAAAGAGGCCCTCGAATGTGCCGAT  
 ATGTGAGAGAGAGATAGGCTCGGCAATGAGTACCCCAAGCTCCACTACCCTGAGCTGTATGTCCTGAA  
 GGGGGATACAAGGAGTTCTTTTTGAAGTGCCAGTCTCACTGTGAACCCCCAGCTACCGCCAATGCAC  
 CATGAAGACTTTAAAGAAGACCTAAAGAAGTTCGCACCAAGAGCCGGACCTGGGCAGGAGAAAAGAGCA  
 AAAGAGAGATGTACAGTCGCCTGAAGAAGCTCTGAAGCCAAATGGTAGCAGCCTGAGCTTCCCTCTGCC  
 CGTCCCTTTCCCTTTGCTGCAGAGCAGTAAGCAAAGGGGCCAGCTGTACGGTACCTGGAGAAAAGCCTG  
 GGCCTTCCATTCTTGGACCTGTCTCCTACACTCCCAGGTTGGAGCCTAGGGCACCTGCCGTTACTCT  
 TTCTGTTCTGTAAGAGTCTTCCCTCTCAGGACTGTCTGCCAAAGCTGGACAAGCACAGCACAGACTGGA  
 GTCTGCAACACCGTGTAGGCTGCTCTCACTGAGCATCCCATGAAGTACTCGGCCTTATTGGGCAGACC  
 CTGGCCTGTCACGAGGAGAGAAAAGCCGCCAAGTGTCTGTGCCAAATACCAAAGATAGGCTGGAAGGG  
 AGGAGAGGGCCTCGTGGATGACTCTTAACCTTAATTTATTTCAGCTTCATCAATTATTTATTATTTT  
 AATTCAAGACTTTTACTTTTCTGCTTCATTAAGTCAAAATACTGCCATTCTAGGTAGAGTTTTATCATCC  
 TAGGAGCTACCTACTTTTAATTTAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_007658

**Insert Size:** 1545 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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:** [BC046296](#), [AAH46296](#)

**RefSeq Size:** 2140 bp

**RefSeq ORF:** 1545 bp

**Locus ID:** 12530

**UniProt ID:** [P48964](#)

**Cytogenetics:** 9 59.81 cM

**Gene Summary:** Tyrosine protein phosphatase which functions as a dosage-dependent inducer of mitotic progression. Directly dephosphorylates CDK1 and stimulates its kinase activity. Also dephosphorylates CDK2 in complex with cyclin E, in vitro (By similarity). Phosphorylation by PIM1 leads to an increase in phosphatase activity (By similarity).[UniProtKB/Swiss-Prot Function]