

Product datasheet for **SC117412**

CDC25B (NM_004358) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC25B (NM_004358) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDC25B
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_004358, the custom clone sequence may differ by one or more nucleotides

```

ATGGAGGTGCCCCAGCCGGAGCCCGGCCAGGCTCGGCTCTCAGTCCAGCAGGCGTGTGCGGTGGCGCC
AGCGTCCGGGCCACCTCCCGGGCTCCTGCTGGGATCTCATGGCTCCTGGGGTCCCGGTGCGGGCGGC
CGCTTCTCGCCGGTACCACCCTCACCAGACCATGCACGACCTCGCCGGGCTCGGCAGCCGAGCCGC
CTGACGCACCTATCCCTGTCTCGACGGGATCCGAATCCTCCCTGTCGTCTGAATCCTCCGAATCTTCTG
ATGCAGGTCTCTGCATGGATTCCCCAGCCCTATGGACCCACATGGCGGAGCAGACGTTTGAACAGGC
CATCCAGGCAGCCAGCCGGATCATTGAAACGAGCAGTTTGCCATCAGACGCTTCCAGTCTATGCCGGTG
AGGCTGCTGGGCCACAGCCCGTGTCTCGGAACATCACCAACTCCAGGCGCCGACGGCCGGAGGAAGA
GCGAGGCGGGCAGTGGAGCTGCCAGCAGCTCTGGGAAGACAAGGAGAATGATGGATTTGTCTTCAAGAT
GCCATGGAAGCCACACATCCAGCTCCACCCATGCTCTGGCAGAGTGGCCAGCCGAGGAAGCCTTT
GCCAGAGACCCAGCTCGGCCCGACCTGATGTGTCTCAGTCTGACCGGAAGATGGAAGTGGAGGAGC
TCAGCCCTGGCCCTAGGTCGTTCTCTGACCCCTGCAGAGGGGATACTGAGAAGATGATGGATT
TGTGGACATCCTAGAGAGTGACTTAAAGGATGATGATGCAGTTCCCCAGGCATGGAGAGTCTATTAGT
GCCCCACTGGTCAAGACCTTGGAAAAGGAGGAAAAGGACCTCGTCATGTACAGCAAGTGCCAGCGGC
TCTTCCGCTCTCCGTCCATGCCCTGCAGCGTGATCCGGCCATCCTCAAGAGGCTGGAGCGGCCAGGA
CAGGGACACGCCCGTGCAGAATAAGCGGAGGCGGAGCGTGACCCCTCCTGAGGAGCAGCAGGAGGCTGAG
GAACCTAAAGCCCGCGTCTCCGCTCAAATCACTGTGTACAGATGAGATCGAGAACCCTCCTGGACAGTG
ACCACCGAGAGCTGATTGGAGATTACTTAAGGCTTCTCCTACAGACAGTAGACGAAAGCACCAGA
CCTCAAGTACATCTACCAGAAACGATGGTGGCCCTATTGACGGCAAGTTCAGCAACATCGTGGATAAG
TTTGTGATTGTAGACTGCAGATACCCCTATGAATATGAAGCGGGCACATCAAGACTGCGGTGAATTGC
CCCTGGAACGCGACGCCGAGAGCTTCTACTGAAGAGCCCATCGCGCCCTGTAGCTGGACAAGAGAGT
CATCCTCATTTTCCACTGTGAATTCTCATCTGAGCGTGGGCCCGCATGTGCCGTTTCATCAGGGAACGA
GACCGTGTGTCAACGACTACCCAGCCTCTACTACCCTGAGATGTATATCCTGAAAGCGGCTACAAGG
AGTTTCTCCCTCAGCACCCGAACCTTGTGAACCCAGGACTACCGCCCATGAACCACGAGGCCTTCAA
GGATGAGCTAAAGACCTTCCGCTCAAGACTCGCAGCTGGGCTGGGGAGCGGAGCCGGGGAGCTCTGT
AGCCGGTGCAGGACCAGTGA
    
```

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004358 unedited

```

TGTAATACGACTCACTATAGGGCGGCCCGGATTCGGCACGAGGGTGCCCCAGCCGGAGC
CCGCGCCAGGCTCGGCTCTCAGTCCAGCAGGCGTGTGCGGTGGCGCCAGCGTCCGGGC
ACCTCCCGGGCTCCTGCTGGGATCTCATGGCTCCTGGGGTCCCGGTGCGGGCGGCCG
CTTCTCGCCGGTACCACCCTCACCAGACCATGCACGACCTCGCCGGGCTCGGCAGCG
AAACCCAAAGAGTCAGGTAGGGACCCTGCTCTTCCGACGCCGACGCCCTGACGCACC
TATCCCTGTCTCGACGGGATCCGAATCCTCCCTGTCGTCTGAATCCTCCGAATCTTCTG
ATGCAGGTCTCTGCATGGATTCCCCAGCCCTATGGACCCACATGGCGGAGCACACGT
TTGAACAGGCCATCCAGGCAGCCAGCCGGATCATTGAAACGAGCAGTTTGCCATCAGAC
GCTTCCAGTCTATGCCGGTGAAGGCTGCTGGGCCACAGCCCGTGTCTCGGAACATCACCA
ACTCCAGGCGCCGACGGCCGGAGGAAGAGCGAGGCGGGCAGTGGAGCTGCCAGCAGCT
CTGGGGAAGACAAGGAGAATGATGGATTTGTCTTCAAGATGCCCTGGAAGGCCACACAT
CCCAGCTCCCACCCATGCTCTGGCAGAGTGGGCCAGCCGAGGAAGCCTTTGCCAGAG
ACCCAGCTCGGCCCGACCTGATGTGTCTCAGTCTGACCGGAAGATGGAATGGAGGA
GCTCACCCCTGGCCCTAGTCGTTCTCTGACCCCTGCCGNNAGGGATACCTGAGAA
AGAGATGGCAATTTGTGACCTCCACAGAGGGACTTAAAGGATGATGATGCCACTTCCCC
AGCCATGGAAAGTCTATTAGTGCCCCACTGGCAG
    
```

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_004358 unedited TGTACCGCGCCCGCTTTTCTATATCGAGTTTTTTTTTTTTTTTTTCTCAACTTGCTCA TTGCTTTATTGAACCAAGGCCCTAACAGATGACTCAGCAGGGCCTTCAAGCACAGCCCTG CCCCCGTCTTGAGATTGAGAATCCAGAGGGTGCTCAGTCCTTGGTTTATCTGCTTCTGTG ACATTTCTCTTGAATAGCTACAAACCCTAAGTGTAATATTTTTGTCCACACAAATAGG CACACATATATTCTGCTGCAGGCTGTCATGCTCAACAAAACGCTCCCACCTGGTTTGGG TATGCAAGGCACTGCGCATCCACGGCCATCCACGGCCATCCACCCATCCATCCAACCTTC CATCCATCCGCAACAAGACAGCAGCAAGTTCTGAGCACTCAGGCCCCAGGGTTCACAGCA GTAAGGGCTGGGCTTCCATCAGGCTCATGATTCAGGCCTTAACCCCTTGCCTGGGAGCCC CCAATGATAATTAACATCCCTTTCTGGGCAACAAAACCTGGGACCGATTGGGTAACCTGT ATTTGACAGGGGAACCTAAACAGTCTACGGAAGTTGCCTGAGATGGCCGTAAGCCAAAC GGACCATAGCCACAGGTCACTGAAATAGGAAAGTAGTAAAGCCTCTGTTCAAGCTGAA GGTGCCTCGTATGGTGGCACCCGACAAGGGGAAAACAAAGGGGGCCCTCTGGCAATCTT CCCTCGTTTCTCACATAAATAGGTGCCCCCTGGCCCGAGTTTTCCACAAGCATTAAATC TGCTCTTCAGGCCACGAAGCATCTACCCTCGACCATTCTTAGTAACACGGTTCTCCCC ACTCTCCTCGTCCCCACCTTGGATCCCCTCCGACCCCGCTAAAGAAGGTTCTCCTTACA GATAAAAAACCTCGGGATCAATATTGTCTTTTCTGTGTTACCACTAATCACTTACATA CCGTCTTCAGGGGGGGCTCCATATCCCACTCCTATTAN
Restriction Sites:	NotI-NotI
ACCN:	NM_004358
Insert Size:	2930 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:	<ol style="list-style-type: none"> 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:	<u>NM_004358.3</u> , <u>NP_004349.1</u>
RefSeq Size:	3659 bp
RefSeq ORF:	1701 bp
Locus ID:	994
UniProt ID:	<u>P30305</u>
Cytogenetics:	20p13
Domains:	RHOD

Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	Cell cycle, MAPK signaling pathway, Progesterone-mediated oocyte maturation
Gene Summary:	<p>CDC25B is a member of the CDC25 family of phosphatases. CDC25B activates the cyclin dependent kinase CDC2 by removing two phosphate groups and it is required for entry into mitosis. CDC25B shuttles between the nucleus and the cytoplasm due to nuclear localization and nuclear export signals. The protein is nuclear in the M and G1 phases of the cell cycle and moves to the cytoplasm during S and G2. CDC25B has oncogenic properties, although its role in tumor formation has not been determined. Multiple transcript variants for this gene exist. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2), also known as CDC25B1, uses an alternate splice site in the 5' coding region, compared to variant 1, resulting in a shorter protein (isoform 2) compared to isoform 1.</p>