

Product datasheet for **SC126594**

CDC25B (NM_021873) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC25B (NM_021873) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDC25B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC126594 sequence for NM_021873 edited (data generated by NextGen Sequencing)

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ATGGAGGTGCCCCAGCCGAGCCCGCGCCAGGCTCGGCTCTCAGTCCAGCAGGCGTGTGC
GGTGGCGCCAGCGTCCGGGCCACTCCCGGGCTCCTGCTGGGATCTCATGGCCCTCTG
GGGTCCCCGGTGCGGGCGGCCGTTCTCGCCGGTACCACCCTACCCAGACCATGCAC
GACCTCGCCGGGCTCGGCAGCGAAACCCAAAGAGTCAGGTAGGGACCCTGCTCTTCCGC
AGCCGCAGCCGCTGACGCACCTATCCCTGTCTCGACGGGCATCCGAATCCTCCCTGTGCG
TCTGAATCCTCCGAATCTTCTGATGCAGTCTCTGCATGGATTCCCCAGCCCTATGGAC
CCCCACATGGCGAGCAGACGTTTGAACAGGCCATCCAGGCAGCCAGCCGGATCATTGCA
AACGAGCAGTTTCCATCAGACGTTCCAGTCTATGCCGGTGAGGCTGCTGGGCCACAGC
CCCGTGTTCGGAACATCACCACTCCAGGCGCCGACGGCCGGAGGAAGAGCGAGGCG
GGCAGTGGAGCTGCCAGCAGCTTGGGGAAGACAAGGAGAATGATGGATTTGCTTCAAG
ATGCCATGGAAGCCACACATCCAGCTCCACCATGCTCTGGCAGAGTGGGCCAGCCGC
AGGAAGCCTTTGCCAGAGACCAGCTCGGCCCGACCTGATGTGTCTCAGTCCTGAC
CGAAGATGGAAGTGGAGGAGCTCAGCCCCTGGCCCTAGGTCGTTCTCTGACCCCT
GCAGAGGGGATACTGAGGAAGATGATGGATTTGTGGACATCCTAGAGAGTGACTTAAAG
GATGATGATGCAGTTCGCCAGGCATGGAGAGTCTCATTAGTGCCTCAAGACC
TTGAAAAGGAAGAGGAAAAGGACCTCGTCATGTACAGCAAGTGCAGCGGCTCTTCCGC
TCTCCGTCCATGCCCTGCAGCGTATCCGGCCATCCTCAAGAGGCTGGAGCGGCCCCAG
GACAGGGACACGCCCGTGCAGAATAAGCGGAGGCGGAGCGTGACCCTCCTGAGGAGCAG
CAGGAGGCTGAGGAACCTAAAGCCCGCTCCTCCGCTCAAAATCACTGTGTACAGATGAG
ATCGAGAACCTCCTGGACAGTGACCACCGAGAGCTGATTGGAGATTACTTAAGGCCTTC
CTCCTACAGACAGTAGACGGAAAGCACCAGACCTCAAGTACATCTCACCAGAAACGATG
GTGGCCCTATTGACGGGCAAGTTCAGCAACATCGTGGATAAGTTTGTGATTGTAGACTGC
AGATACCCTATGAATATGAAGGCGGGCACATCAAGACTGCGGTGAACTTGCCCTGGAA
CGCGACGCCGAGAGCTTCTACTGAAGAGCCCATCGCGCCCTGTAGCCTGGACAAGAGA
GTCATCTCATTTTCCACTGTGAATTCTCATCTGAGCGTGGGCCCGCATGTGCCGTTTC
ATCAGGGAACGAGACCGTGTCAACGACTACCCAGCCTCTACTACCCTGAGATGTAT
ATCCTGAAAGGCGGCTACAAGGAGTTCTCCCTCAGCACCCGAATTCTGTGAACCCAG
GACTACCGGCCCATGAACCACGAGGCTTCAAGGATGAGCTAAAGACCTCCGCCTCAAG
ACTCGCAGCTGGGCTGGGAGCGGAGCCGCGGGAGCTCTGTAGCCGGCTGCAGGACCAG
TGA

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Clone variation with respect to NM_021873.2

Restriction Sites:

NotI-NotI

ACCN:

NM_021873

Insert Size:

2770 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:	NM_021873.2 , NP_068659.1
RefSeq Size:	3701 bp
RefSeq ORF:	1743 bp
Locus ID:	994
UniProt ID:	P30305
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 (1), also known as CDC25B3, represents the longest transcript and encodes the longest isoform (1).</p>