

Product datasheet for **RC237904**

CDC25B (NM_001287524) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: CDC25B (NM_001287524) Human Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: CDC25B
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RC237904 representing NM_001287524
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCGGATGGATTTGTCTTCAAGATGCCATGGAAGCCACACATCCCAGCTCCACCCATGTCTGGCAG
 AGTGGCCAGCCGAGGGAAGCCTTTGCCAGAGACCCAGCTCGGCCCCGACCTGATGTCTCAGTCC
 TGACCGGAAGATGGAAGTGGAGGAGCTCAGCCCCCTAGGTCGTTCTCTGACCCTGCAGAG
 GGGGATACTGAGGAAGATGATGGATTTGTGGACATCCTAGAGAGTGACTTAAAGGATGATGATGCAGTTC
 CCCCAGGCATGGAGAGTCTCATTAGTGGCCCACTGGTCAAGACCTTGAAAAGGAAGAGGAAAAGGACCT
 CGTCATGTACAGCAAGTCCAGCGGCTCTCCGCTCTCCGTCCATGCCCTGCAGCGTGATCCGGCCCATC
 CTCAAGAGGCTGGAGCGGCCCCAGGACAGGACACGCCCGTGCAGAATAAGCGGAGGCGGAGCGTGACCC
 CTCCTGAGGAGCAGCAGGAGGCTGAGGAACCTAAAGCCCGCTCCTCCGCTCAAATCACTGTGTCACGA
 TGAGATCGAGAACCTCCTGGACAGTGACCACCGAGAGCTGATTGGAGATTACTCTAAGGCCTTCTCCTA
 CAGACAGTAGACGAAAGCACCAAGACCTCAAGTACATCTCACCAGAAACGATGGTGGCCCTATTGACGG
 GCAAGTTCAGCAACATCGTGGATAAGTTTGTGATTGTAGACTGCAGATACCCCTATGAATATGAAGCGG
 GCACATCAAGACTGCGGTGAACCTTGCCCTGGAACGCGACGCCGAGAGCTTCTACTGAAGAGCCCCATC
 GCGCCCTGTAGCCTGGACAAGAGAGTATCCTCATTTCCTACTGTGAATTCTCATCTGAGCGTGGGCCCC
 GCATGTGCCGTTTCATCAGGGAACGAGACCGTGCTGTCAACGACTACCCAGCCTCTACTACCCTGAGAT
 GTATATCTGAAAGGCGGCTACAAGGAGTCTTCCCTCAGCACCCGAACTTCTGTGAACCCAGGACTAC
 CGGCCATGAACCACGAGGCCTCAAGGATGAGCTAAAGACCTTCGCTCAAGACTCGCAGCTGGGCTG
 GGGAGCGGAGCCGGCGGAGCTCTGTAGCCGGCTGCAGGACCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237904 representing NM_001287524
 Red=Cloning site Green=Tags(s)

MPDGFVFKMPWKPTHTPSSTHALAEWASRREAFQRPSSAPDLMCLSPDRKMEVEELSPLALGRFSLTPAE
 GDTEEDDGFVDILESDLKDDDAVPPGMESLISAPLVKTLKEKEEKDLVMYSKCQQLFRSPSMPCSVIRPI
 LKRLERPQDRDTPVQNKRRRSVTPPEEQQEAEPEKARVLRSKSLCHDEIENLLDSDHRELIGDYSKAFLL
 QTVDGKHQDLKYISPETMVALLTGKFSNIVDKFVIVDCRYPYEYEGGHIKTAVNPLPERDAESFLKSPI
 APCSLDKRVILIFHCEFSSERGPRMCRFIRERDRAVNDYPSLYPEMYILKGGYKEFFPQHPNFCEPQDY
 RPMNHEAFKDELKTFRLKTRSWAGERSRRELCSRLQDQ

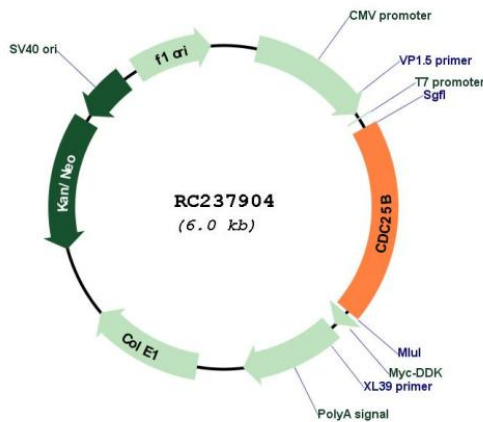
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001287524

ORF Size:	1164 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:	<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_001287524.1 , NP_001274453.1
RefSeq Size:	2626 bp
RefSeq ORF:	1167 bp
Locus ID:	994
UniProt ID:	P30305
Cytogenetics:	20p13
Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	Cell cycle, MAPK signaling pathway, Progesterone-mediated oocyte maturation
MW:	45.4 kDa
Gene Summary:	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]