

Product datasheet for **RC238403**

CDC25B (NM_001287520) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC25B (NM_001287520) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CDC25B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238403 representing NM_001287520
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGATCCCCAGCCCTATGGACCCCCACATGGCGGAGCAGACGTTTGAACAGGCCATCCAGGCAGCCA
 GCCGATCATTGAAACGAGCAGTTTGCCATCAGACGCTTCCAGTCTATGCCGGTGGGCTGCTGGGCCA
 CAGCCCGTGCTTCGGAACATCACCAACTCCAGGCGCCGACGCGCGGAGGAAGAGCGAGGCGGGCAGT
 GGAGCTGCCAGCAGCTCTGGGAAGACAAGGAGAATGATGGATTTGTCTTCAAGATGCCATGGAAGCCCA
 CACATCCAGCTCCACCCATGCTCTGGCAGAGTGGCCAGCCGACGGGAAGCCTTTGCCAGAGACCCAG
 CTCGGCCCCGACCTGATGTGTCTCAGTCTGACCGGAAGATGGAAGTGGAGGAGCTCAGCCCCCTGGCC
 CTAGGTCGCTTCTCTGACCCCTGCAGAGGGGATACTGAGGAAGATGATGGATTTGTGGACATCTAG
 AGAGTGACTTAAAGGATGATGATGCAGTCCCCAGGCATGGAGAGTCTCATTAGTCCCCACTGGTCAA
 GACCTTGGAAAAGGAAGAGGAAAAGGACCTCGTCATGTACAGCAAGTGCCAGCGGCTCTCCGCTCTCCG
 TCCATGCCCTGCAGCGTATCCGGCCATCCTCAAGAGGCTGGAGCGGCCCCAGGACAGGGACACGCCCG
 TGAGAATAAGCGGAGGCGGAGCGTGACCCCTCCTGAGGAGCAGCAGGAGGCTGAGGAACCTAAAGCCCG
 CGTCTCCGCTCAAAATCACTGTGTACAGTACGAGAACCTCCTGGACAGTGACCACCGAGAGCTG
 ATGGAGATTACTCTAAGGCCTTCTCTACAGACAGTAGACGGAAGCACAAGACCTCAAGTACATCT
 CACCAGAAACGATGGTGGCCCTATTGACGGGCAAGTTCAGCAACATCGTGGATAAGTTTGTGATTGTAGA
 CTGCAGATACCCCTATGAATATGAAGCGGGCAGTCAAGACTGCGGTGAAGTGGCCCTGGAACGCGAC
 GCCGAGAGCTTCTACTGAAGAGCCCCATCGCGCCCTGTAGCCTGGACAAGAGAGTATCCTCATTTTCC
 ACTGTGAATTCTCATCTGAGCGTGGGCCCCGATGTCCGTTTTCATCAGGGAACGAGACCTGCTGTCAA
 CGACTACCCAGCCTCTACTACCCTGAGATGTATATCCTGAAAGCGGCTACAAGGAGTTCTTCCCTCAG
 CACCCGAACTTCTGTGAACCCAGGACTACCGCCATGAACCACGAGGCTTCAAGGATGAGCTAAAGA
 CCTTCCGCTCAAGACTCGCAGCTGGGCTGGGAGCGGAGCCGCGGGAGCTCTGTAGCCGCTGCAGGA
 CCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238403 representing NM_001287520
 Red=Cloning site Green=Tags(s)

MDSPSPMDPHMAEQTFEQAIQAASRIIRNEQFAIRRFQSMVRLLGHSPVLRNITNSQAPDGRKSEAGS
 GAASSSGEDKENDGFVFKMPWKPTHPSSTHALAEWASRREAFQRPSSAPDLMCLSPDRKMEVEELSPLA
 LGRFSLTPAEGDTEEDDFVDILESCLKDDAVPPGMESLISAPLVKTLKKEEKDLVMYSKCQRLFRSP
 SMPCSVIRPILKRLERPQDRDTPVQNKRRRSVTPPEEQEAEPEPKARVLRKSLCHDEIENLLSDHREL
 IGDYSKAFLLQTVDGKHQDLKYISPETMVALLTGKFSNIVDKFVI VDCRYPYEYEGGHIKTAVNPLERD
 AESFLLKSPIAPCSLDRVILIFHCFSSERGPRMCRFIRERDRAVNDYPSLYPEMYILKGGYKEFFPQ
 HPNFCEPQDYRPMNHEAFKDELKTRFRKTRSWAGERSRRELCSRLQDQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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_001287520.1, NP_001274449.1</u>
RefSeq Size:	2844 bp
RefSeq ORF:	1407 bp
Locus ID:	994
Cytogenetics:	20p13
Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	Cell cycle, MAPK signaling pathway, Progesterone-mediated oocyte maturation
MW:	54.2 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]