

## Product datasheet for **RC238160**

### CDC25B (NM\_001287522) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CDC25B (NM_001287522) 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:	>RC238160 representing NM_001287522 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATCCCCAGCCCTATGGACCCACATGGCGGAGCAGACGTTTGAACAGGCCATCCAGGCAGCCA  
GCCGGATCATTGAAACGAGCAGTTTGGCATCAGACGCTCCAGTCTATGCCGGATGGATTTGTCTTCAA  
GATGCCATGGAAGCCCACACATCCAGCTCCACCCATGCTTGGCAGAGTGGCCAGCCGAGGAAAGCC  
TTTGCCAGAGACCCAGCTCGGCCCCGACCTGATGTGTCTCAGTCTGACCGGAAGATGGAAGTGAGG  
AGCTCAGCCCTGGCCCTAGGTCGCTTCTCTGACCCCTGCAGAGGGGATACTGAGGAAGATGATGG  
ATTTGTGGACATCCTAGAGAGTGACTTAAAGGATGATGATGCAGTTCCCCAGGCATGGAGAGTCTCATT  
AGTGCCCCACTGGTCAAGACCTTGGAAAAGGAAGGAAAAGGACCTCGTCATGTACAGCAAGTGCCAGC  
GGCTCTCCGCTCTCCGTCCATGCCCTGCAGCGTGATCCGGCCCATCCTCAAGAGGCTGGAGCGCCCA  
GGACAGGGACACGCCGTGCAGAATAAGCGGAGGCGGAGCGTGACCCCTCCTGAGGAGCAGCAGGAGGCT  
GAGGAACCTAAAGCCCGCTCCTCCGCTCAAAATCACTGTGTACGATGAGATCGAGAACCTCCTGGACA  
GTGACCACGAGAGCTGATTGGAGATTACTTAAGGCCTTCTCCTACAGACAGTAGACGAAAGCACCA  
AGACCTCAAGTACATCTACCAGAAACGATGGTGGCCCTATTGACGGCAAGTTCAGCAACATCGTGGAT  
AAGTTTGTGATTGTAGACTGCAGATACCCCTATGAATATGAAGGCGGGCACATCAAGACTGCGGTGAACT  
TGCCCTGGAACGCGACGCCGAGAGCTTCTACTGAAGAGCCCCATCGCGCCCTGTAGCCTGGACAAGAG  
AGTCATCCTCATTTTCCACTGTGAATTCTCATCTGAGCGTGGGCCCGCATGTGCCGTTTTCATCAGGGAA  
CGAGACCGTGCTGTAACGACTACCCAGCCTCTACTACCTGAGATGTATATCTGAAAGGCGGCTACA  
AGGAGTTCTTCCCTCAGCACCCGAATTCTGTGAACCCAGGACTACCGCCATGAACCACGAGGCCTT  
CAAGGATGAGCTAAAGACCTTCCGCCTCAAGACTCGCAGCTGGGCTGGGAGCGGAGCCGGCGGAGCTC  
TGTAGCCGGCTGCAGGACCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC238160 representing NM\_001287522  
Red=Cloning site Green=Tags(s)

MDSPSPMDPHMAEQTFEQAIQAASRIIRNEQFAIRRFQSPMDGFVFKMPWKPTHPSSSTHALAEWASRREA  
 FAQRSSAPDLMCLSPDRKMEVEELSPLALGRFSLTPAEGDTEEDDGFVDILESDLKDDAVPPGMESLI  
 SAPLVKLTLEKEEEKDLVMSKQRLFRSPMPCSVIRPILKRLERPQDRDTPVQNKRRRSVTPPEEQEA  
 EEPKARVLRKSLCHDEIENLLSDHRELIGDYSKAFLLQTVDGKHQDLKYISPETMVALLTGKFSNIVD  
 KFVIVDCRYPYEYEGGHKTAVNPLERDAESFLLKSPIAPCSLDKRVILIFHCEFSSERPRMCRFIRE  
 RDRAVNDYPSLYPEMYILKGGYKEFFPQHPNFCEPQDYRPMNHEAFKDELKTFRLKTRSWAGERSRREL  
 CSRLQDQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

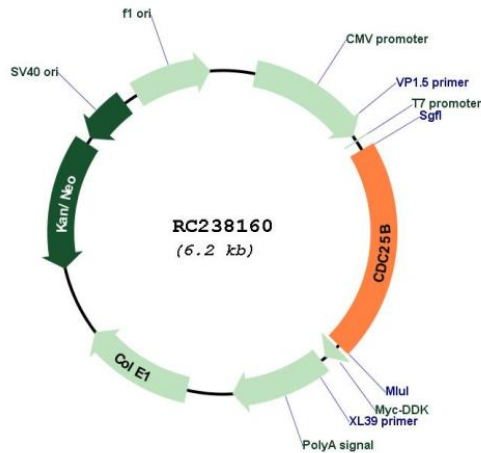
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



<b>ACCN:</b>	NM_001287522
<b>ORF Size:</b>	1281 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001287522.1</a> , <a href="#">NP_001274451.1</a>
<b>RefSeq Size:</b>	2721 bp
<b>RefSeq ORF:</b>	1284 bp
<b>Locus ID:</b>	994
<b>Cytogenetics:</b>	20p13
<b>Protein Families:</b>	Druggable Genome, Phosphatase
<b>Protein Pathways:</b>	Cell cycle, MAPK signaling pathway, Progesterone-mediated oocyte maturation
<b>MW:</b>	49.9 kDa
<b>Gene Summary:</b>	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]