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Product datasheet for SC335798

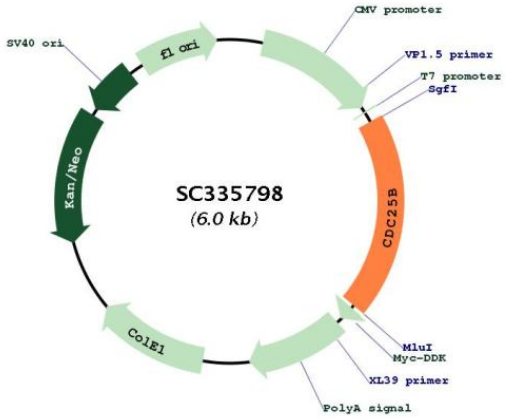
CDC25B (NM_001287524) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC25B (NM_001287524) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDC25B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335798 representing NM_001287524. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGCCGGATGGATTTGTCTTCAAGATGCCATGGAAGCCCACACATCCCAGCTCCACCCATGCTCTGGCA GAGTGGGCCAGCCGCAGGGAAGCCTTTGCCCAGAGACCCAGCTCGGCCCCCGACCTGATGTGTCTCAGT CCTGACCGGAAGATGGAAGTGGAGGAGCTCAGCCCCCTGGCCCTAGGTCGCTTCTCTCTGACCCCTGCA GAGGGGGATACTGAGGAAGATGATGGATTTGTGGACATCCTAGAGAGTGACTTAAAGGATGATGATGCA GTTCCCCCAGGCATGGAGAGTCTCATTAGTGCCCCACTGGTCAAGACCTTGGAAAAGGAAGAGGAAAAG GACCTCGTCATGTACAGCAAGTGCCAGCGGCTCTTCCGCTCTCCGTCCATGCCCTGCAGCGTGATCCGG CCCATCCTCAAGAGGCTGGAGCGGCCCCAGGACAGGGACACGCCCGTGCAGAATAAGCGGAGGCGGAGC GTGACCCCTCCTGAGGAGCAGCAGGAGGCTGAGGAACCTAAAGCCCGCGTCCTCCGCTCAAAATCACTG TGTCACGATGAGATCGAGAACCTCCTGGACAGTGACCACCGAGAGCTGATTGGAGATTACTCTAAGGCC TTCCTCCTACAGACAGTAGACGGAAAGCACCAAGACCTCAAGTACATCTCACCAGAAACGATGGTGGCC CTATTGACGGGCAAGTTCAGCAACATCGTGGATAAGTTTGTGATTGTAGACTGCAGATACCCCTATGAA TATGAAGGCGGGCACATCAAGACTGCGGTGAACTTGCCCCTGGAACGCGACGCCGAGAGCTTCCTACTG AAGAGCCCCATCGCGCCCTGTAGCCTGGACAAGAGAGTCATCCTCATTTTCCACTGTGAATTCTCATCT GAGCGTGGGCCCCGCATGTGCCGTTTCATCAGGGAACGAGACCGTGCTGTCAACGACTACCCCAGCCTC TACTACCCTGAGATGTATATCCTGAAAGGCGGCTACAAGGAGTTCTTCCCTCAGCACCCGAACTTCTGT GAACCCCAGGACTACCGGCCCATGAACCACGAGGCCTTCAAGGATGAGCTAAAGACCTTCCGCCTCAAG ACTCGCAGCTGGGCTGGGGAGCGGAGCCGGCGGGAGCTCTGTAGCCGGCTGCAGGACCAGTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI

View online »

Plasmid Map:



ACCN:	NM_001287524
Insert Size:	1167 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:	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
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 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] Transcript Variant: This variant (10) differs in the 5' UTR and has multiple coding region differences, compared to variant 1, which causes translation initiation at a downstream start codon. The resulting protein (isoform 9) has a shorter N-terminus and lacks an internal region compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.