

Product datasheet for **MC219153**

Cdc25b (NM_023117) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdc25b (NM_023117) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cdc25b
Synonyms:	A1604853
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219153 representing NM_023117
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGTACCCCTGCAGAAGTCTGCGCCGGGTTAGCTCTCAGTCTGCCCGCTGCTGGTGGCATTG
 AGCGGCCGCGCCACCTCTCGGTCTTTGAGTTTGTAGTCTGATGGCTTCTGGGGTCTCCGGAGCCTACAGC
 TTCTCTCTCCGGTTACCACTCTTACACAGACCATGCACAACCTCGCTGGGCTCGGCAGTGAGCCTCCA
 AAAGCTCAAGTAGGAAGCCTGTCTGTTCCAGAACAGGCTGGCAGACCTATCCCTGTCCAGGCGCACCTCTG
 AGTGCTCCCTGTCTGAGTCTCAGAATCTTCGGATGCAGGTCTGTGCATGGACTCCCCAGCCCTGT
 GGACCCGAGATGGCAGAGCGCACGTTTGAACAGGCCATTAGGCAGCCAGTCCGGTTCATCAAAATGAG
 CAGTTTACCATAAAACGTTCCGATCCTTACCAGTGAGGCTGTGGAACACAGTCCGGTGTGCAGAGCA
 TCACCAACTCCCGAGCACTGGACAGCTGGAGGAAAAGTGAAGCAGGCTACCGAGCCGCCCAATAGTCC
 TGGGGAGGACAAAGAGAATGATGGATATATCTTCAAGATGCCACAGGAGCTCCCTCATTCCAGCTCTGCC
 CAAGCTTTGGCAGAATGGGTGAGCCGAGACAGGCCTTTACCCAGAGGCCAGCTCAGCCCTGACTTGA
 TGTGTCTTACCCTGAGTGAAGATGGAAGTAGAGGAGCTGAGCCCGGTGGCACAGTCTTCTTCTTGCAC
 TCCTGTGAAAGGGCTTCTGAAGAAGATGACGGATTTGTGGACATCCTGGAGAGTGATTTAAAGGATGAC
 GAGAAGTCCCGCGGGCATGGAGAACCCTATTAGTGCACCCTGGTCAAAAAGCTGGATAAGGAAGAGG
 AACAGGATCTCATGTTTCAGCAAGTCCAGAGGCTCTTCCGCTCCCATCCATGCCATGCAGTGTGAT
 CCGACCCATCCTCAAGAGGCTAGAGCGGCCCCAGGACCGGGATGTGCCTGCCAGAGCAAGCGCAGGAAA
 AGTGTGACACCCCTGGAAGAGCAGCAGCTTGAAGAACCCTAAGGCCGTGTCTTTCGCTCAAAGTCCGCTGT
 GTCATGAGATTGAGAACATCCTGGATAGTGACCACCGTGGACTGATCGGAGATTACTCTAAGGCCTTCT
 CCTGCAGACCGTGGATGGCAAACACCAAGACCTTAAGTACATCTACCAGAACTATGGTGGCCCTGTTA
 ACAGGCAAGTTCAGCAACATCGTGGAGAAATTTGTCTTGTGGACTGCAGATACCCCTATGAGTATGAAG
 GCGGGCATATCAAGAATGCTGTGAACCTGCCCTGGAACGGGATGCTGAGACCTTTCTGCTGCAGCGTCC
 CATCATGCCTTGTAGCCTGGACAAGAGAATCATCTCATTTTTCCACTGTGAATTCTCGTCTGAGCGTGG
 CCACGAATGTGCCGCTTTCATCAGGGAACGGGACCGTGCAGCTAACGACTACCCAGCCTGTACTACCCGG
 AGATGTACATCCTCAAAGCGGCTACAAGGAGTCTTCCACAGCATCCGAACTTTGTGAGCCCCAGGA
 CTACCGACCCATGAACCAGGAGCTTTCAGGGATGAGCTGAGGAACTTTTCGCTTAAAGACTCGCAGCTGG
 GCTGGGGAACGGAGCAGGAGGAACTTTGTAGCAGGCTGCAAGACCAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_023117
- Insert Size:** 1731 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_023117.4](#), [NP_075606.1](#)

RefSeq Size: 3106 bp

RefSeq ORF: 1731 bp

Locus ID: 12531

UniProt ID: [P30306](#)

Cytogenetics: 2 63.29 cM

Gene Summary: Tyrosine protein phosphatase which functions as a dosage-dependent inducer of mitotic progression. Required for G2/M phases of the cell cycle progression and abscission during cytokinesis in a ECT2-dependent manner. Directly dephosphorylates CDK1 and stimulates its kinase activity (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a). 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.