

## Product datasheet for **MC218771**

### **Cdc25b (NM\_001111075) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cdc25b (NM_001111075) 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:** >MC218771 representing NM\_001111075  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGTACCCCTGCAGAAGTCTGCGCCGGTTAGCTCTCAGTCTGCCCGCTGCTGGGTGGCATT  
 AGCGGCCGCGCCACCTCTCGGTCTTTGAGTTGAGTCTGATGGCTTCTGGGGTCTCCGGAGCCTACAGC  
 TTCTCTCTCCGGTTACCACTCTTACACAGACCATGCACAACCTCGCTGGGCTCGGCAGTGAGCCTCCA  
 AAAGCTCAAGTAGGAAGCCTGTCGTTCCAGAACAGGCTGGCAGACCTATCCCTGTCCAGGCGCACCTCTG  
 AGTGCTCCCTGTCATCTGAGTCTCAGAATCTTCGGATGCAGGTCTGTGCATGGACTCCCCAGCCCTGT  
 GGACCCGAGATGGCAGAGCGCACGTTTGAACAGGCCATTAGGCAGCCAGTCCGGTTCATCAAAATGAG  
 CAGTTTACCATAAAACGCTTCCGATCCTTACCAGTGAGGCTGCTGGAACACAGTCCGGTGTGCAGAGCA  
 TCACCAACTCCCGAGCACTGGACAGCTGGAGGAAAAGTGAAGCAGGCTACCGAGCCGCCCAATAGTCC  
 TGGGGAGGACAAAGAGAATGTGCGCTTCCAGAGACCAAGATGGAGGAGCTCCAGGGAGAGAAGGTGTCTT  
 ACCACTGAGTGAAGATGGAAGTAGAGGAGCTGAGCCCGGTGGCAGATCTTCTTCTTGACTCCTGTGC  
 AAAGGGCTTCTGAAGAAGATGACGGATTTGTGGACATCCTGGAGAGTGATTTAAAGGATGACGAGAAGGT  
 CCCCAGGGCATGGAGAACCTCATTAGTGCCCCACTGGTCAAAAAGCTGGATAAGGAAGAGGAACAGGAT  
 CTCATCATGTTGAGCAAGTGCCAGAGGCTCTCCGCTCCCATCCATGCCATGCAGTGTGATCCGACCCA  
 TCCTCAAGAGGCTAGAGCGGCCCCAGGACCGGGATGTGCTGTCCAGAGCAAGCGCAGGAAAAGTGTGAC  
 ACCCTGGAAGAGCAGCAGCTTGAAGAACCTAAGGCCGTGTCTTTCGCTCAAAGTCGCTGTGTCATGAG  
 ATTGAGAACATCCTGGATAGTGACCACCGTGGACTGATCGGAGATTACTTAAGGCCTTCTCCTGCAGA  
 CCGTGGATGGCAAACACCAAGACCTTAAGTACATCTACCAGAACTATGGTGGCCCTGTTAACAGGCCAA  
 GTTCAGCAACATCGTGGAGAAATTTGTCAATTGTGGACTGCAGATACCCCTATGAGTATGAAGCGGGCAT  
 ATCAAGAATGCTGTGAACCTGCCCTGGAACGGGATGCTGAGACCTTTCTGCTGCAGCGTCCCATATGC  
 CTTGTAGCCTGGACAAGAGAATCATCCTCATTTCCTACTGTGAATTCTCGTCTGAGCGTGGACCAGGAAT  
 GTGCCGTTTATCAGGGAACGGGACCGTGCAGCTAACGACTACCCAGCCTGTACTACCCGGAGATGTAC  
 ATCCTCAAAGGCGGCTACAAGGAGTTCTCCACAGCATCCGAACCTTTGTGAGCCCCAGGACTACCGAC  
 CCATGAACCACGAGGCTTTCAGGGATGAGCTGAGGAACCTTTCGCCTTAAGACTCGCAGCTGGGCTGGGA  
 ACGGAGCAGGAGGGAACCTTGTAGCAGGCTGCAAGACCAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001111075

**Insert Size:** 1653 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\\_001111075.4](#), [NP\\_001104545.1](#)

**RefSeq Size:** 3028 bp

**RefSeq ORF:** 1653 bp

**Locus ID:** 12531

**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 (2) lacks an alternate in-frame coding exon and uses an alternate in-frame splice site compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to 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.