

## Product datasheet for **MC228203**

### **Cdc7 (NM\_001271567) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cdc7 (NM_001271567) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cdc7
Synonyms:	A1597260; Cdc7l1; muCdc7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228203 representing NM\_001271567  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGAGGAGCCAATGGCGTTTTCTCCCTTCGTGGCAGTGACAGGTGCCGGCTGATGACTCTTTAAAAA  
AATATGAGCAGAGTGTTAACTTTCAGGTATTAAGAGATATTGAGGAGCTTTGTGAAGCTGTACCACA  
ACTAGTCAATGTGTTCAAATTAAGGACAAAATTGGAGAAGGCACCTTCAGCTCTGTTTATTGGCCACA  
GCACAGTTGCAAGAAGGACATGAAGAGAAAATTGCGCTGAAACACTTAATCCCACAAGTCATCCTATGA  
GGATTGCAGCAGAGCTTCAGTGTCTGACAGTTGCAGGGGGCAAGACAATGTCATGGGACTTAAGTACTG  
CTTCAGAAAAATGATCATGTGTTATTGCTATGCCGTATCTGGAACATGAGTCTTTTTGGACATTTTG  
AATTCTCTTTCCTCCAAGAAGTCGGGAATATATGTATAATCTTTTTGTAGCTTTGAAACGGATTATC  
AGTTTGGTATTGTTACCGTGATGTGAAGCCAGCAATTTTTATACAATAGACGTCTGAAAAAGTATGC  
CTTGGTGGACTTCGGTTTGGCCAGGAAACCCGTGACACAAAAATAGAGCTGCTCAAGTTTGTCCAGTCT  
GAGGCTCAGCAGGAAGATTGTTACGAAACAAGTATCATGGAGTCGTTGGACACAAGGGCCTGCTGAGTC  
GCCCGGCACCTAAAAGTGTGGATCAGCAGTGTACCCCAAAAACCTCTGTCAAAAGATCTACACACAAGT  
TCACATTAAGCAAGGAAAAGACGAAAGCTCATCAAGCAATCAAAGACTGTGGACATAATATCACGAAAG  
CTAGCGCAAAAAAGACGGCCATTTCTACAAAAGCTATGAACAGCGTGATGAGGGAAACTGCCAGGTCTCT  
GCCCTGCTGTCTCACCTGCGACTGCTATGGATCAGATAGAGTCTGCAGCGTTTGCCTGTCGAGGCGGCA  
GCAGGTTGCCCTAGGGCAGGCACACCAGGATTCAGAGCGCCAGAGGTCCTGACAAAGTGCCTGACCAG  
ACCACAGCGATTGACATGTGCTGCAGGTGTCATATTCCTGTCCTTGTCTAGTGGGCGGTACCCATTTT  
ACAAGGCCAGTGATGACTTAACTGCTTTGGCTCAGATCATGACAATTCGAGGATCCAGGGAAACTATCCA  
GGCTGCTAAAGCTTTTGGCAAATCAGTTCTGTGTAGCAAAGAAGTCCAGCACAAGACTTGAGAGCTCTC  
TGTGAGAGACTGCGGGTCTAGACTCTACCACTCCAGGTCAGCCAGTGGTCTCCAGGGAATGTTCTCT  
ATGACCCTGCTGCTTCCAAGAACACTGACCACAAAGCATCCCGTGTACAGGCTGCTCAGGCACAGCACTC  
AGAGGACTCCTTGTATAAAAGGGACAACGATGGCTATTGGAGTATCCCAAAGACTGCACTTCCAACCTCA  
GAAGGCTGGGACTCAGTACCTGATGAAGCCTATGACCTGCTCGACAAGCTTCTGGACCTAAACCCAGCTT  
CAAGGATAACAGCAGAAGCAGCCTTATTACATGCGTCTTTAAAGATATGTGCTCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001271567

**Insert Size:** 1599 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).

**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

**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\\_001271567.1](#), [NP\\_001258496.1](#)

**RefSeq Size:** 2872 bp

**RefSeq ORF:** 1599 bp

**Locus ID:** 12545

**UniProt ID:** [Q9Z0H0](#)

**Cytogenetics:** 5 E5

**Gene Summary:** Seems to phosphorylate critical substrates that regulate the G1/S phase transition and/or DNA replication. Can phosphorylates MCM2 and MCM3.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (3) differs in the 5' UTR and lacks an alternate in-frame exon in the coding region compared to variant 1. It encodes isoform 2, which is shorter than isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.