

Product datasheet for **MC228173**

Cdc7 (NM_001271568) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdc7 (NM_001271568) 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



[View online »](#)

Fully Sequenced ORF: >MC228173 representing NM_001271568
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGAGCCAATGGCGTTTTCTCCCTTCGTGGCAGTGACAGGTGCCGGCTGATGACTCTTTAAAAA
 AATATGAGCAGAGTGTTAACTTTCAGGTATTAAGAGATATTGAGGAGCTTTGTGAAGCTGTACCACA
 ACTAGTCAATGTGTTCAAATTAAGGACAAAATTGGAGAAGGCACCTTCAGCTCTGTTTATTGGCCACA
 GCACAGTTGCAAGAAGGACATGAAGAGAAAATTGCGCTGAAACACTTAATCCCACAAGTCATCCTATGA
 GGATTGCAGCAGAGCTTCAGTGTCTGACAGTTGCAGGGGGCAAGACAATGTCATGGGACTTAAGTACTG
 CTTCAGAAAAATGATCATGTGGTTATTGCTATGCCGTATCTGGAACATGAGTCTTTTTGGACATTTTG
 AATTCTCTTTCTCCAAGAAGTCGGGAATATGTATAATCTTTTTGTAGCTTTGAAACGGATTATC
 AGTTTGGTATTGTTACCGTGATGTGAAGCCAGCAATTTTTATACAATAGACGCTGAAAAAGTATGC
 CTTGGTGGACTTCGGTTTGGCCAGGAAACCGTGACACAAAAATAGAGCTGCTCAAGTTTGTCCAGTCT
 GAGGCTCAGCAGGAAGATTGTTACGAAACAAGTATCATGGAGTCGTTGGACACAAGGGCCTGCTGAGTC
 GCCCGGCACCTAAAAGTGTGGATCAGCAGTGTACCCCAAAAACCTCTGTCAAAAGATCTACACACAAGT
 TCACATTAAGCAAGGAAAAGACGGAAAGCTCATCAAGCAATCAAAGACTGTGGACATAATATCACGAAA
 CTAGCGCAAAAAAGACGGCCATTTCTACAAAAGCTATGAACAGCGTGATGAGGGAAACTGCCAGGTCT
 GCCCTGCTGTCTCACCTGCGACTGCTATGGATCAGATAGAGTCTGCAGCGTTTGCCTGTCGAGGCGGCA
 GCAGGTTGCCCTAGGGCAGGCACACCAGGATTCAGAGCGCCAGAGGTCCTGACAAAGTGCCTGACCAG
 ACCACAGGTGTCATATTCCTGTCTTGTCTCAGTGGCGGTACCCATTTTACAAGGCCAGTGATGACTTAA
 CTGCTTTGGCTCAGATCATGACAATTCGAGGATCCAGGAAACTATCCAGGCTGCTAAAGCTTTTGGCAA
 ATCAGTTCTGTGTAGCAAAGAAGTCCCAGCACAAGACTTGAGAGCTCTCTGTGAGAGACTGCGGGGTCTA
 GACTCTACCCTCCAGGTCAGCCAGTGGTCTCCAGGGAATGCTTCTATGACCCTGCTGCTTCCAAGA
 ACACTGACCACAAAGCATCCCGTGTACAGGCTGCTCAGGCACAGCACTCAGAGGACTCCTGTATAAAAAG
 GGACAACGATGGCTATTGGAGTCATCCCAAAGACTGCACCTCCAAGTCAAGAGGCTGGGACTCAGTACCT
 GATGAAGCCTATGACCTGCTCGACAAGCTTCTGGACCTAAACCCAGCTTCAAGGATAACAGCAGAAGCAG
 CCTATTACATGCGTTCTTTAAAGATATGTGCTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001271568

Insert Size: 1578 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_001271568.1](#), [NP_001258497.1](#)

RefSeq Size: 2851 bp

RefSeq ORF: 1578 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 (4) differs in the 5' UTR, lacks an alternate in-frame exon and uses an alternate in-frame acceptor splice site in the coding region compared to variant 1. It encodes isoform 3, which is shorter than 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.