

Product datasheet for **MC228320**

Cdc7 (NM_001271566) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdc7 (NM_001271566) 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: >MC228320 representing NM_001271566
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGGAGCCAATGGCGTTTTCTTCCTTCGTCGGCAGTGACAGGTGTCCGGCTGATGACTCTTTAAAAA
 AATATGAGCAGAGTGTTAACTTTCAGGTATTAAGAGATATTGAGGAGCTTTGTGAAGCTGTACCACA
 ACTAGTCAATGTGTTCAAATTAAGGACAAAATTGGAGAAGGCACCTTCAGCTCTGTTTATTGGCCACA
 GCACAGTTGCAAGAAGGACATGAAGAGAAAATTGCGCTGAAACACTTAATCCCACAAGTCATCCTATGA
 GGATTGCAGCAGAGCTTCAGTGTCTGACAGTTGCAGGGGGCAAGACAATGTCATGGGACTTAAGTACTG
 CTTCAGAAAAATGATCATGTGGTTATTGCTATGCCGTATCTGGAACATGAGTCTTTTTGGACATTTTG
 AATTCTCTTTCCTCAAGAAGTTCGGGAATATGTATAATCTTTTTGTAGCTTTGAAACGGATTATC
 AGTTTGGTATTGTTACCGTGATGTGAAGCCAGCAATTTTTTATACAATAGACGCTGAAAAAGTATGC
 CTTGGTGGACTTCGGTTTGGCCAGGAAACCGTGACACAAAAATAGAGCTGCTCAAGTTTGTCCAGTCT
 GAGGCTCAGCAGGAAGATTGTTACGAAACAAGTATCATGGAGTCTGGACACAAGGGCCTGCTGAGTC
 GCCCGGCACCTAAAAGTGTGGATCAGCAGTGTACCCCAAAAACCTCTGTCAAAAGATCCTACACACAAGT
 TCACATTAAGCAAGGAAAAGACGGAAAGGAGAGATCTGTAGGCCTTCTGTCCAGCGCTCTGTTTTTGA
 GAGAGAAATTTCAATATACACAGCTCCATTTACATGAGAGCCCTGCAGAGAAACTCATCAAGCAATCAA
 AGACTGTGGACATAATATCACGAAAGCTAGCGACAAAAAGACGGCCATTTTACAAAAGCTATGAACAG
 CGTGATGAGGGAAACTGCCAGGTCTGCCCTGCTGTCTCACCTGCGACTGCTATGGATCAGATAGAGTC
 TGCAGCGTTTGCCTGTCGAGGCGGCAGCAGTTGCCCTAGGGCAGGCACACCAGGATTCAGAGCGCCAG
 AGTCCCTGACAAAAGTCTCTGACCAGACCACAGCGATTGACATGTGGTCTGCAGGTGTCATATTCCTGTC
 CTTGCTCAGTGGCGGTACCCATTTTACAAGGCCAGTGATGACTTAACTGCTTTGGCTCAGATCATGACA
 ATTCGAGGATCCAGGAAACTATCCAGGCTGCTAAAGCTTTTGGCAAATCAGTTCTGTGTAGCAAAGAAG
 TCCAGACAAGACTTGAGAGCTCTCTGTGAGAGACTGCGGGGTCTAGACTCTACCACTCCAGGTGAGC
 CAGTGGTCTCCAGGAAATGCTTCTATGACCCTGCTGCTTCAAGAACACTGACCACAAAGCATCCCGT
 GTACAGGCTGCTCAGGCACAGCACTCAGAGGACTCCTTGATAAAAAGGGACAACGATGGCTATTGGAGTC
 ATCCAAAAGACTGCACTTCCAAGTCAAGGCTGGGACTCAGTACCTGATGAAGCCTATGACCTGCTCGA
 CAAGCTTCTGGACCTAAACCCAGCTTCAAGGATAACAGCAGAAGCAGCCTTATTACATGCGTTCTTTAAA
 GATATGTGCTCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001271566

Insert Size: 1695 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_001271566.1](#), [NP_001258495.1](#)

RefSeq Size: 3137 bp

RefSeq ORF: 1695 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 (1) represents the longest transcript and encodes the longest isoform (1). Both variants 1 and 2 encode the same 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.