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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:	AI597260; Cdc7l1; muCdc7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC228203 representing NM_001271567
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGAGCCAATGGCGTTTTCTTCCCTTCGTGGCAGTGACAGGTGTCCGGCTGATGACTCTTTAAAAA
AATATGAGCAGAGTGTTAAACTTTCAGGTATTAAAAGAGATATTGAGGAGCTTTGTGAAGCTGTACCACA
ACTAGTCAATGTGTTCAAAATTAAGGACAAAATTGGAGAAGGCACCTTCAGCTCTGTTTATTTGGCCACA
GCACAGTTGCAAGAAGGACATGAAGAGAAAATTGCGCTGAAACACTTAATTCCCACAAGTCATCCTATGA
GGATTGCAGCAGAGCTTCAGTGTCTGACAGTTGCAGGGGGGCAAGACAATGTCATGGGACTTAAGTACTG
CTTCAGAAAAAATGATCATGTGGTTATTGCTATGCCGTATCTGGAACATGAGTCCTTTTTGGACATTTTG
AATTCTCTTTCCTTCCAAGAAGTTCGGGAATATATGTATAATCTTTTTGTAGCTTTGAAACGGATTCATC
AGTTTGGTATTGTTCACCGTGATGTGAAGCCCAGCAATTTTTTATACAATAGACGTCTGAAAAAGTATGC
CTTGGTGGACTTCGGTTTGGCCCAGGGAACCCGTGACACAAAAATAGAGCTGCTCAAGTTTGTCCAGTCT
GAGGCTCAGCAGGAAGATTGTTCACGAAACAAGTATCATGGAGTCGTTGGACACAAGGGCCTGCTGAGTC
GCCCGGCACCTAAAACTGTGGATCAGCAGTGTACCCCAAAAACTTCTGTCAAAAGATCCTACACACAAGT
TCACATTAAGCAAGGAAAAGACGGAAAGCTCATCAAGCAATCAAAGACTGTGGACATAATATCACGAAAG
CTAGCGACAAAAAAGACGGCCATTTCTACAAAAGCTATGAACAGCGTGATGAGGGAAACTGCCAGGTCCT
GCCCTGCTGTCCTCACCTGCGACTGCTATGGATCAGATAGAGTCTGCAGCGTTTGCCTGTCGAGGCGGCA
GCAGGTTGCCCCTAGGGCAGGCACACCAGGATTCAGAGCGCCAGAGGTCCTGACAAAGTGTCCTGACCAG
ACCACAGCGATTGACATGTGGTCTGCAGGTGTCATATTCCTGTCCTTGCTCAGTGGGCGGTACCCATTTT
ACAAGGCCAGTGATGACTTAACTGCTTTGGCTCAGATCATGACAATTCGAGGATCCAGGGAAACTATCCA
GGCTGCTAAAGCTTTTGGCAAATCAGTTCTGTGTAGCAAAGAAGTCCCAGCACAAGACTTGAGAGCTCTC
TGTGAGAGACTGCGGGGTCTAGACTCTACCACTCCCAGGTCAGCCAGTGGTCCTCCAGGGAATGCTTCCT
ATGACCCTGCTGCTTCCAAGAACACTGACCACAAAGCATCCCGTGTACAGGCTGCTCAGGCACAGCACTC
AGAGGACTCCTTGTATAAAAGGGACAACGATGGCTATTGGAGTCATCCCAAAGACTGCACTTCCAACTCA
GAAGGCTGGGACTCAGTACCTGATGAAGCCTATGACCTGCTCGACAAGCTTCTGGACCTAAACCCAGCTT
CAAGGATAACAGCAGAAGCAGCCTTATTACATGCGTTCTTTAAAGATATGTGCTCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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).

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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.

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