

Product datasheet for **MR226170**

Cdc6 (NM_011799) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdc6 (NM_011799) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdc6
Synonyms:	CDC18L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR226170 representing NM_011799
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCAGGGAAGGAGCTAAAGTATTATAGAAATAAATGGAGACAGACTTCTGGCATCATACAAGTTT
 GTGTGGCCATCATGCCTCAAACAGATCCCAGACACAAGCTACCATCGGTTTTCCGAAAAAGAAGCTATC
 TAATACCTGAAGAAACCAATTCCCGGATTGTGAAGTAAAAGTAACTAGAAACGTCACGCCTGTACCCACC
 ACTCCGTGTGGACGTAAGTCTGCCTCTCAGTCCCCGAAAACGCTGGGGGATGACAACTGTGCA
 AACTCCCGTTATCTCCCTGTCTCCACAAAGCTGGGCAAGAAAGAAAACGGACCCCTCGCTCACA
 TACGTGGAAGGGTGCAGATTAGTATTCGATGATGAGCCGACATTTAAGGCTTCCCCCAGAAAGAA
 GACAGAGTTCCCAACACCAGATACGTTCTCCTCCGCTCAAAGAAGTCCAGAGAGCAAAGCAGATCCTG
 AGCAGAAATGTCCGCCGAGAAGGAGTCTGTGTATAAGACTGTTCAAGCAAGAAGGCCTTGTATCA
 GCAAGCCAAGCTCGTCTGAATACAGCTGTCCCGATCGGCTGCCAGAGAGCAGGAGATGGGTGTC
 ATCAGGAATTTCTGAAGGAGCAGATCTGTGGGAAGAAAGCTGGCAGTCTCTACCTTTCTGGCGCTCCTG
 GGACTGAAAAACTGCCTGTTTAAAGCCGATTCTGCAAGACTTCAAGAAGGAAGTAAAAGGCTTTAATC
 CATCTGCTGAATTGCATGTCCCTGAGGAGTGCCAGGCTGTGTTCCAGCTATTGCTCAGGAGATTGGT
 CGGGAGGAGCTGTGCAGACCAGCTGGGAAGGACTTGATGAGAAAAGTGGAAAAGCACTTGACAGCAGAGA
 AAGGCCCATGATCGTGTGGTGTGGACGAGATGGATCAGCTGGACAGCAAAGGCAGGATGATTATA
 CACTGTTTGTAGTGGCGTGGTAAGCAACTCCCGATTGGTGTCTATTGGTATTGCTAATACCTAGAT
 CTCACGGACAGAAATCTGCCGAGACTTGAAGCTAGAGAAAAGTAAAGCCGAGTATTGAACTCCCAC
 CTTATACCAGGAATCAGATAGCTGCCATCTGCAGGATCGACTTAGTCAGGTGTCAAAGACCCAGTCTCT
 GGACAGTCTCGGATCCAGTTCTGTGCCGCAAAGTGTCTGCTGTTTCAGGAGACATCCGTAAAGCGCTG
 GATGTTTGCAGGCGAGCTATAGAAATTGTGGAGTCCGATGTCAGGAGCCAGACAGTCTCAAACCTCT
 CCGAATGTAATCACCCAGCGAGTCCCGGTCCCCAAGCGGTTGGTCTTGTCTACATATCCCAAGTCAT
 TTCGGAAGTTGATGGGAACAGGGTACTTTGAGCCAAGAAAACACACAGGATTCCCTTCTCTCCAGCAG
 AAGATCTGGTTTGTCTTTGCTGCTTTGACCCGGCGGCTGAAAATCAAAGAGGTACCCTGGGAAGT
 TATATGAAGCCTACAGTAGCATCTGTCCGAAACAGCAGGTGACGGCCGTAGACCAGTCTGAGTGTGTC
 CCTTTCAGGACTCTGGAGTCCAGGGCCTTGTGGGATTAAAGAAAAATAAGGAGAGCCGCTCACCAAG
 GTGTCTCTGAAGATTGAAGAAAAGGAAATAGAGCATGTCTGAACGGCAAAGCTTCCACGGGAACATCC
 TCCTGCTGGTCTGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226170 representing NM_011799
 Red=Cloning site Green=Tags(s)

MSAGKELKYRNKWRQTSGLIQVCVAIMPQTRSQTQATIGFPKKLSNTLKKPNSRDCEVKLRNVQPVPT
 TPCVDVKLLPLSPRKLGDNLNTPRLSPCSPKLGKKENPPRSHTWKGCRLVFDDEPTFKASPPKEQ
 DRVRQHQRSSAQRSPESKADPEQKCPPEKESVCIRLQFKQEGTCYQAKLVLNTAVPDRLPAREQEMGV
 IRNFLKEHICGKKAGSLYL SGAPGTGKTAACL SRILODFKKEVKGFKSILLNCMSLRSAQAVFPAIAQEIG
 REELCRPAGKDLMRKLEKHLTAEKGPMIVLVLEMDQLDSKGQDVLTYLFEWPWLSNSRLVLIGIANTLD
 LTDRILPRLEARENCKPQLLNFPYTRNQIAAILQDRLSQVSKDQVLDAAIQFCARKVSAVSGDIRKAL
 DVCRRAIIEIVESDVRSTVLKPLSECKSPSESPVPRVGLAHISQVI SEVDGNRVTL SQENTQDSLPLQQ
 KILVCSLLLLTRRLKIKEVTLGKLYEAYSSICRKQVTVAVDQSECLSLGLESRLVGLKKNKESRLTK
 VSLKIEEKEIEHVLNGKAFTGNILAAGLP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_011799

ORF Size: 1767 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_011799.2](#), [NP_035929.1](#)

RefSeq Size: 4608 bp

RefSeq ORF: 1770 bp

Locus ID: 23834

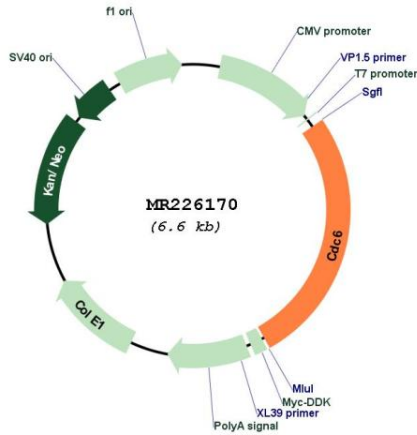
UniProt ID: [O89033](#)

Cytogenetics: 11 D

MW: 66.2 kDa

Gene Summary: Involved in the initiation of DNA replication. Also participates in checkpoint controls that ensure DNA replication is completed before mitosis is initiated.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226170