

Product datasheet for **MG226170**

Cdc6 (NM_011799) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdc6 (NM_011799) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cdc6
Synonyms:	CDC18L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226170 representing NM_011799
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTGCAGGGAAGGAGCTAAAGTATTATAGAAATAAATGGAGACAGACTTCTGGCATCATACAAGTTT
 GTGTGGCCATCATGCCTCAAACCCAGATCCCAGACACAAGCTACCATCGGTTTTCCGAAAAAGAAGCTATC
 TAATACCCCTGAAGAAACCAATTCCCGGGATTGTGAAGTAAAACCTAGAAACGTCAGCCTGTACCCACC
 ACTCCGTGTGGACGTAACCTTCTGCCTCTCAGTCCCCGAAAACGCTCTGGGCGATGACAACTGTGCA
 ACACTCCCGGTTATCTCCCTGTCTCCACCAAAGCTGGGCAAGAAAGAAAACGGACCCCTCGCTCACA
 TACGTGGAAGGGGTGCAGATTAGTATTCGATGATGAGCCGACATTTAAGGCTTCCCCCAGAAAGAACAA
 GACAGAGTTCCCAACACCAGATACGTTCTCCTCCGCTCAAAGAAGTCCAGAGAGCAAAGCAGATCCTG
 AGCAGAAATGTCCGCCGAGAAGGAGTCTGTGTATAAAGACTGTTCAAGCAAGAAGGCACCTTGCTATCA
 GCAAGCCAAGCTCGTCTGAATACAGCTGTCCCGATCGGCTGCCAGAGAGCAGGAGATGGGTGTC
 ATCAGGAATTTCTGAAGGAGCAGATCTGTGGGAAGAAAGCTGGCAGTCTCTACCTTTCTGGCGCTCCTG
 GGACTGGAAGAACTGCCTGTTTAAAGCCGATTCTGCAAGACTTCAAGAAGGAAGTAAAAGGCTTTAATC
 CATCTGCTGAATTGCATGTCCCTGAGGAGTGCCAGGCTGTGTTCCAGCTATTGCTCAGGAGATTGGT
 CGGGAGGAGCTGTGCAGACCAGCTGGGAAGGACTTGATGAGAAAAGTGGAAAAGCACTTGACAGCAGAGA
 AAGGCCCATGATCGTGTGGTGTGGACGAGATGGATCAGCTGGACAGCAAAGGCAGGATGATTATA
 CACTGTTTGTAGTGGCCGTGGTAAGCAACTCCCGATTGGTGCTATTGGTATTGCTAATACCCTAGAT
 CTCACGGACAGAAATCTGCCGAGACTTGAAGCTAGAGAAAAGTAAAGCCGAGTATTGAACTCCAC
 CTTATACCAGGAATCAGATAGCTGCCATCTGCAGGATCGACTTGTAGTCAAGGAGTCAAAAAGCAGTTCT
 GGACAGTCTCGGATCCAGTCTGTGCCGCAAAGTGTCTGCTGTTTCAGGAGACATCCGTAAAGCGCTG
 GATGTTTGCAGGCGAGCTATAGAAATTGTGGAGTCCGATGTCAGGAGCCAGACAGTCTCAAACCACTCT
 CCGAATGTAATCACCCAGCGAGTCCCGGTCCTCAAGCGGTTGGTCTTGTCTACATATCCCAAGTCAT
 TTCGGAAGTTGATGGAAACAGGGTGACTTTGAGCCAAGAAAACACACAGGATTCCCTTCTCTCCAGCAG
 AAGATCCTGGTTTGTCTTTGCTGCTTTGACCCGGCGGCTGAAAATCAAAGAGGTCACCCTGGGAAGT
 TATATGAAGCCTACAGTAGCATCTGTCCGAAACAGCAGGTGACGGCCGTAGACCAGTCTGAGTGTGTC
 CCTTTCAGGACTCCTGGAGTCCAGGGCCTTGTGGGATTAAAGAAAAATAAGGAGAGCCGCCTCACCAAG
 GTGTCTCTGAAGATTGAAGAAAAGGAAATAGAGCATGTCTGAACGGCAAAGCTTCCACCGGAACATCC
 TCCTGCTGGTCTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226170 representing NM_011799
 Red=Cloning site Green=Tags(s)

MSAGKELKYRNKWRQTSGLIQVCVAIMPQTRSQTQATIGFPKKKLSNTLKKPNSRDCEVKLRNVQPVPT
 TPCVDVKLLPLSPRKRLGDDNLNTPRLSPCSPPKLGKKENGPPRSHTWKGRLVFDDEPTFKASPPKEQ
 DRVQRHQIRSSSAQRSPESKADPEQKCPPEKESVCIRLQDFKKEVKGFKSILLNCMSLRSAQAVFPAIAQEI
 IRNFLKEHICGKKAGSLYL SGAPGTGKTAACLSRILQDFKKEVKGFKSILLNCMSLRSAQAVFPAIAQEI
 REELCRPAGKDLMRKLEKHLTAEKGPMIVLVLDEMDQLDSKGDVLYTLFEWPWLSNSRLVLIGIANTLD
 LTDRILPRLEARENCKPQLLNFPYTRNQIAAILQDRLSQVSKDQVLDAAIQFCARKVSAVSGDIRKAL
 DVCRRAIIEIVSDVRSQTVLKLPLSECKSPSESPVPKRVGLAHSQVISEVDGNRVTLSEQNTQDSLPLQQ
 KILVCSLLLLTRRLKIKEVTLGKLYEAYSSICRKQQVTAVDQSECLSLSGLLESRLVGLKKNKESRLTK
 VSLKIEEKEIEHVLNGKAFTGNILAAGLP

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

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

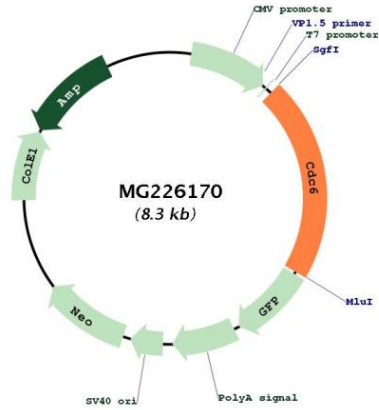
UniProt ID: [O89033](#)

Cytogenetics: 11 D

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 MG226170