

Product datasheet for **MR209493**

Cdc16 (NM_027276) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdc16 (NM_027276) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdc16
Synonyms:	2700071J12Rik; 2810431D22Rik; APC6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209493 representing NM_027276
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACCTGGAGCCGCTGCGCAAACCGCTCCGGCAGTACCTGGACCAGCAACAGTATCAAAGTGCTCTGT
 TTTGGGCAGACAAGGTAGCTTCACTCTCTCATGAGGAGCCCAGGATGTTTATTGGTTGGCTCAGTGCCT
 TTACCTCACAGCGCAGTACCACCGAGCAGCCATGCGCTCCGGTCACGCAAGCTGGACAATTTGATGAA
 GCTTGCCGATACCTTGCAGCTAGATGCCACTATGCTGCAAAAGAGCACCAGCAGGCTCTGGACATCCTTG
 ACATGGAGGAGCCAATTAACAGAAGGCTCTTTGAGAAATACCTGAAGGATGACAATGGCTCGAGAGACCC
 TTCCAGTGACTGGGAGATGTCACAGTCTCCATAAAGAGCTCGATTTGTCTCCTGAGAGGGAAGATCTAT
 GATGCTTTAGATAATCGCACCTGGCTACCTACAGTTACAAGAGGCTCTGAACTGGATGTCTACTGCT
 TTGAAGCCTTTGACCTTTTGACATCACACCACATGCTGACAGCACAGGAAGAAAAAGAACTTCTGGACTC
 CCTGCCTCTTAACAAGCTCTGTGCTGAAGAACAAGAGTTGCTGCGATTTGATTTGAGAACAATTAAG
 AAGTATAATAAGCCAGTGAAACGGTCATTCGAGTCACTGGACGGCTTGCAGGAGAATCTGGAGCTGG
 TAGTGCTTTAGCTGAGAGACACTATTACAAGTGTGATTTAAGATGTGCTACAAGCTTACTTCTACAGT
 GATGGAGAAAGATCCTTTCCATGCAAACTGTTTACCTGTGCATAGGAACTCTTGTGGAGCTGAATAAA
 GCGAATGAACTTTTCTATCTTTCTCACAACCTGGTGGATTTATATCCGAGTAATCCTGTGTCTTGGTTTG
 CGGTGGGATGTTACTATCTCATGGTTGGTCATAAAAATGAGCATGCCAGAAGATATCTCAGCAAAGCTAC
 CAGTTGGAGAAGACCTACGGTCTGCCTGGATAGCCTACGGGCATTCTTCGCTGTGGAGAGTGAGCAC
 GACCAAGCAATGGCTGCTTACTTACAGCAGCAGCTGATGAAGGGGTGCTCACTTGCCAATGCTATATA
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 CGCCCCAGAAGACCCATTTGTATCCATGAGTTGGAGTGGTTGCCTTTCAGAATGGAGAATGGAAAAACA
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 TTTCTGTTACAATGCTTGGTCACTGCATTGAAATGTACATCGGGGATTCGGAAGCTTATATCGGAGCAGA
 CATTAAAGACAAATTAAGTGTATGACTTCGATGTGCATACAATGAAAACACTAAAAACATCATTTCG
 CCTCCATGGGATTTAGGACTTTGAAGTAGAAAAGCAGAACACAGGGAAGCGGACTTGCACCTCTGC
 AAACTCCAATAAGCTCCAGAGTCCAGACCTAATTGGAAGAGACTTTTGAAATGAAATGAACGAAAG
 TGACATGATGCTAGAGACGTCTATGTCAGACCACAGCACA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

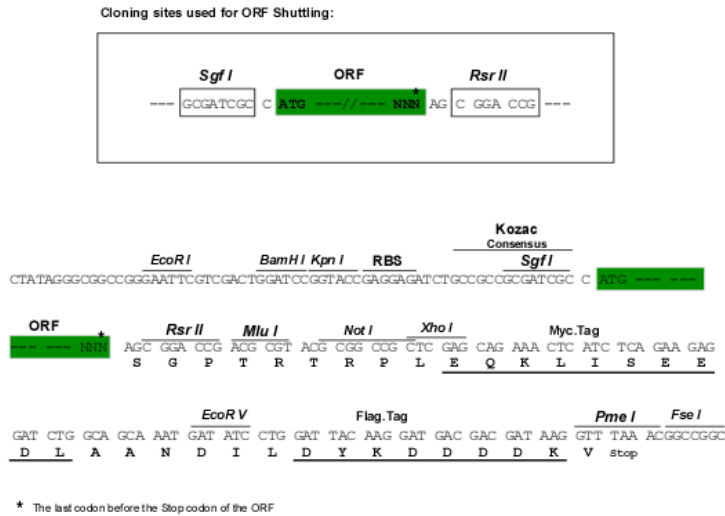
Protein Sequence:

>MR209493 representing NM_027276
 Red=Cloning site Green=Tags(s)

MNLEPLRKRVRQYLDQQQYQSALFWADKVASLSHEEPQDVYWLQCLYLTAQYHRAAHALRSRKLDKLYE
 ACRYLAARCHYAAKEHQALDILDMEEPINRRLFKEYLKDDNGSRDPSSDWEMSQSSIKSSICLLRGKIY
 DALDNRTLATYSYKEALKLDVYCFEAFDLLTSHHMLTAQEEKELLDLPLNKLCAEEQELLRFVFNKLY
 KYNKPSETVIPESVDGLQENLDVVVSLAERHYNCDFKMCYKLTSTVMEKDPFHANCLPVHIGTLVELNK
 ANELFYLSHKLVDLYPSNPVSWFVAVGCYMLMVGHKNEHARRYLSKATTLKTYGPAWIAYGHSFAVESEH
 DQAMAAFYFTAAQLMKGCHLPMLYIGLEYLNNNSKLAERFFGQALSIAPEDPFVIHEVGVVAFQNGEWT
 AEKWFLDALEKIKAIAGNEVTVDKWEPLNNGHVCRLKLYAEALDYHRQALVLPQNASTYSIAGIYIHS
 LMGNFENAVDYFHTALGLRRDDTFVSTMLGHCIEMYIGDSEAYIGADIKDKLKCYPDVDVHTMKTLLKNIIS
 PPWDFRDFEVEKQNTTEEAGLAPLQNSTKAPESRPNLEETFEIEMNESDMMLETSMDSHST

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9044_g03.zip
Restriction Sites: SgfI-RsrII
Cloning Scheme:



ACCN: NM_027276

ORF Size: 1860 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_027276.3](#)

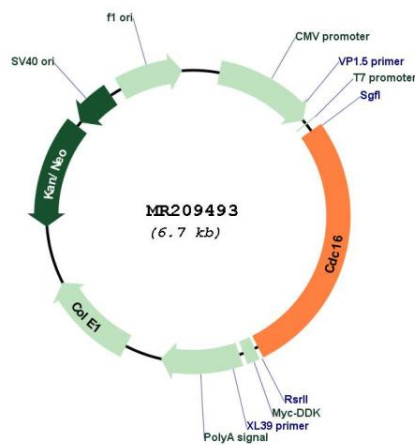
RefSeq Size: 2253 bp

RefSeq ORF: 1863 bp

Locus ID: 69957
UniProt ID: [Q8R349](#)
Cytogenetics: 8 A1.1
MW: 71.9 kDa

Gene Summary: Component of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated E3 ubiquitin ligase that controls progression through mitosis and the G1 phase of the cell cycle. The APC/C complex acts by mediating ubiquitination and subsequent degradation of target proteins: it mainly mediates the formation of 'Lys-11'-linked polyubiquitin chains and, to a lower extent, the formation of 'Lys-48'- and 'Lys-63'-linked polyubiquitin chains (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209493