

## Product datasheet for **MG209493**

### Cdc16 (NM\_027276) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cdc16 (NM_027276) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cdc16
Synonyms:	2700071J12Rik; 2810431D22Rik; APC6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209493 representing NM\_027276  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAACCTGGAGCCGCTGCGCAAACCGCTCCGGCAGTACCTGGACCAGCAACAGTATCAAAGTGCTCTGT  
 TTTGGGCAGACAAGGTAGCTTCACTCTCTCATGAGGAGCCCAGGATGTTTATTGGTTGGCTCAGTGCCT  
 TTACCTCACAGCGCAGTACCACCGAGCAGCCATGCGCTCCGGTCACGCAAGCTGGACAAATTGTATGAA  
 GCTTGCCGATACCTTGCAGCTAGATGCCACTATGCTGCAAAAGAGCACCAGCAGGCTCTGGACATCCTTG  
 ACATGGAGGAGCCAATTAACAGAAGGCTCTTTGAGAAATACCTGAAGGATGACAATGGCTCGAGAGACCC  
 TTCCAGTGACTGGGAGATGTCACAGTCTCCATAAAGAGCTCGATTTGTCTCCTGAGAGGGAAGATCTAT  
 GATGCTTTAGATAATCGCACCTGGCTACCTACAGTTACAAGAGGCTCTGAACTGGATGTCTACTGCT  
 TTGAAGCCTTTGACCTTTTGACATCACACCACATGCTGACAGCACAGGAAGAAAAAGAACTTCTGGACTC  
 CCTGCCTCTTAACAAGCTCTGTGCTGAAGAACAAGAGTTGCTGCGATTTGTATTTGAGAACAATTAAG  
 AAGTATAATAAGCCAGTGAAACGGTCATTCCTGAGTCAGTGGACGGCTTGCAGGAGAATCTGGACGTGG  
 TAGTGCTTTAGCTGAGAGACACTATTACAACGTGATTTAAGATGTGCTACAAGCTTACTTCTACAGT  
 GATGGAGAAAGATCCTTTCCATGCAAACTGTTTACCTGTGCACATAGGAACTCTTGTGGAGCTGAATAAA  
 GCGAATGAACTTTTCTATCTTTCTCACAACTGGTGGATTTATATCCGAGTAATCCTGTGTCTTGGTTTG  
 CGGTGGGATGTTACTATCTCATGGTTGGTCATAAAAATGAGCATGCCAGAAGATATCTCAGCAAAGCTAC  
 CAGTTGGAGAAGACCTACGGTCTGCCTGGATAGCCTACGGGCATTCTTCGCTGTGGAGAGTGAGCAC  
 GACCAAGCAATGGCTGCTTACTTACAGCAGCACAGCTGATGAAGGGGTGTCACCTGCCAATGCTATATA  
 TTGGATTAGAATATGGTCTGACCAATAACTCGAACTGGCTGAGCGGTTCTTTGGCCAAGCTCGAGCAT  
 CGCCCCAGAAGACCCATTTGTATCCATGAGGTTGGAGTGGTTGCCTTTTACAATGGAGAATGGAAAAACA  
 GCAGAAAAATGGTTTCTCGATGCTTTGGAAAAATTAAGCAATTGGAATGAGGTACAGTTGACAAAT  
 GGGAACTTTGTTGAACAACCTGGGGCATGTCTGCAGAAAACTTAAGAAATATGCTGAGGCTTTGGATTA  
 CCACAGGCAGGCACTGGTGTAAATCCCTCAGAACGCATCCACCTACTCTGCTATAGGGTACATCCACAGT  
 CTGATGGGCACTTTGAAAACGCTGTGGACTATTTCCACACAGCTCTTGGTCTCAGGCGAGACGACACAT  
 TTTCTGTTACAATGCTTGGTCACTGCATTGAAATGTACATCGGGATTCCGAAGCTTATATCGGAGCAGA  
 CATTAAAGACAAATTAAGTGCTATGACTTCGATGTGCATACAATGAAAACACTAAAAACATCATTTCG  
 CCTCCATGGGATTTAGGACTTTGAAGTAGAAAAGCAGAACACAGGGAAGCGGACTTGCACCTCTGC  
 AAACTCCAATAAGCTCCAGAGTCCAGACCTAATTGGAAGAGACTTTTGAATTTGAAATGAACGAAAG  
 TGACATGATGCTAGAGACGTCTATGTCAGACCACAGCACA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG209493 representing NM\_027276  
 Red=Cloning site Green=Tags(s)

MNLEPLRKRVRQYLDQQYQSALFWADKVASLSHEEPQDVYWLAQCLYLTAQYHRAAAHALRSRKLDKLYE  
 ACRYLAARCHYAAKEHQALDILDMEEPINRRLFKEYLKDDNGSRDPSSDWEMSQSSIKSSICLLRGKIY  
 DALDNRTLATYSYKEALKLDVYCFEAFDLLTSHHMLTAQEEKELLDLPLNKLCAEEQELLRFVFNKLLK  
 KYNKPSETVIPESVDGLQENLDVVVSLAERHYNCDFKMCYKLTSTVMEKDPFFHANCLPVHIGTLVELNK  
 ANELFYLSHKLVDLYPSNPVSWFAVGCYMLMVGHKNEHARRYLSKATTLEKTYGPAWIAYGHSFAVESEH  
 DQAMAAYFTAAQLMKGCHLPLM YIGLEYGLTNNKLAERFFGQALSIAPEDPFVIHEVGVVAFQNGEWT  
 AEKWFLDALEKIKAIIGNEVTVDKWEPLLNNGHVCRLKLYAEALDYHRQALVLIQONASTYSAIGYIHS  
 LMGNFENAVDYFHTALGLRRDDTFSVTMLGHCIEMYIGDSEAYIGADIKDKLKYDFDVHTMKTLLKNIIS  
 PPWDFRDFEVEKQNTTEEAGLAPLQNSTKAPESRPNLEETFEIEMNESDMMLETSMDSHST

SGP**TRRRLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-RsrII

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:


**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

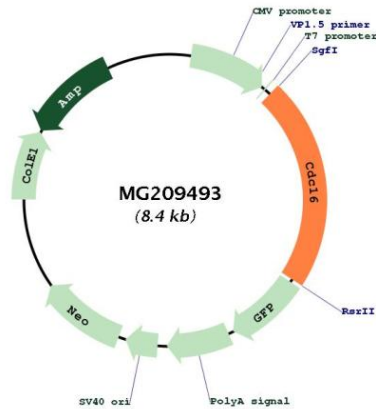
**Locus ID:** 69957

**UniProt ID:** [Q8R349](#)

**Cytogenetics:** 8 A1.1

**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 MG209493