

## Product datasheet for **MG223434**

### Cdc27 (NM\_145436) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cdc27 (NM_145436) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cdc27
Synonyms:	A1452358; APC3; BC023187
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG223434 representing NM\_145436  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACGGTGTGCAGAACCTGTCCAGGCTGTATATGGCAAGCGCTAAACCACTATGCTTACCGAGATG  
 CAGTTTTCTCGAGAAGCACTATATGCAGAAGTACATTCAGAAGAAGCCTTGTTTTACTGGCAACCTG  
 TACTACCGCTCAGGAAAAGGCTTATAAAGCATATAGACTCTTGAAAGGACACAGTTGTACCACCCACAG  
 TGTAATACCTGCTTGCAAAATGTTGTGTGACCTCAGCAAGCTTGCAAGGGGAACAGATCTTATCTG  
 GTGGAGTGTAAATAAGCAGAAAAGCCATGACGACCTTGTCACTGAGTTGGAGATTAGCTTGTCTCAC  
 TCTTCTTGTGGGACATGTGATTGCAAGACAGATCGGCTTGCCAAAGGGTCAAGATTTACCAAAAAG  
 AGCCTTAGTTAAATCCTTCTGCTCCCTTTGAATCGTTATGTGAAATAGGTGAGAAGCCAGATC  
 CTGACCAACATTTAAATTAACATCTCTACAGAATTTAGCAGTTGTCTCCCAACACTGTACAACCTCT  
 AGTATCTAATCACAGTTTATCTCACAGACAGCCTGAGACAGTCTTACAGAAACACCCCAAGACACAATT  
 GAATTAACAGACTGAATTTAGAATCTTCAATTCAAAGTACTCCTTGAATACAGATTCTCCGTGTCTT  
 ACATTGATTCAACTGTAATTTACCAGATAACGTCCCCCTTGGACCTGGTACTGCCATATATCTAAACA  
 GTTTCAAATAAACCAAAAAGTGGTGAAGTTTATTAGGAGGACCAACTGCTTACGCCATTAACCCCA  
 AGTTTTGGGATTTGCCATTAGAAACCCCAAGTCTGGAGATGGATCCTATTTACAAAACACTACTAATA  
 CACCTTCTGTAATTGATGTGGCACCCACCGGAGCACCTACAAAAAAGTCTGTTGCAAGAATGGGCCAAAAC  
 TGGAAACAAAGTCTGTCTTCTCACAGAGTGGAAATAGTCGAGAGGTCACACCAGTACTTGTGCACAAAAC  
 CAAAGTCTGGCCACAAAACAAAGTACAACACCTCAGGTATTGAGCCCCACTATCACATCTCCCCAAAACG  
 CATTGCCTCGGAGAAGTTCCCGCCTTTTCACTAGTGACAGTTCTACAACCAAGGAGAATGCAAAAAGTT  
 AAAAAATGAAGTTTCCACCTAAAAATCCCTAACAGAAAAACAAAAAGTAAAACTAATAAAGGAGGACTAACT  
 CAGCCCAGCATAAACGATAGTCTGGAAATTACAAAAGTGGACTCCTCTATCATTTCAGAAGGAAAAATAA  
 CCACAGTCACACCTCAGATCCAGGCATTTAACCTACAAAAGGCAGCAGCAGAAGGTTTGTGAGCCTTCT  
 TCGTGAATGGGAAAAGGTTATTTAGCTTTGTGTTTCATACAACCTGCAAAGAAGCTATCAATATTTGAGC  
 CATCTACCTTCTCATCACTACAGTACTGGTTGGTCTATGCCAGATTGGACGGGCTATTTTGAACCTT  
 CAGAATACATGCAGGCTGAAAGAATATTCTCAGAGGTTAGAAGGATTGAGAGTTTCAGAGTTGAAGGAAT  
 GGAGATCTACTCTACAACACTCTGGCATCTTCAGAAAGACGTTGCTCTTTCAGTTCTTTCAAAGATTTA  
 ACAGACATGGATAAGAATTCACCAGAGGCTGGTGTGCTGCAGGGAATTGTTTCAGTCTACAACGAGAGC  
 ATGATATAGCAATTAATTTCTTCCAAAGAGCTATCCAGGTCGATCCAAATACGCTTACGCCTATACTCT  
 ATTAGGACATGAGTTTGTGTTAACTGAAGAAGTATAGATAAAGCATTAGCATGTTTTCGAAATGCTATAAGA  
 GTAATCCAGACATTACAATGCATGGTATGGTTAGGAATGATTTATTACAAGCAAGAGAAGTTTCAGCC  
 TCGCAGAAATGCATTTCCAGAAAGCACTTGATATCAACCTCAGAGTTGAGTTTACTTTGCCACATTGG  
 AGTAGTTCAGCATGCACTAAAGAAGTCTGAGAAGGCTTTGGATACCCTAAACAAAGCCATTGTTATCGAT  
 CCCAAGAACCCTCTATGCAAATTCACAGAGCCTCGGTTTTATTTGCAAATGAAAAATACAAGTCTGCTT  
 TACAAGAAGTTGGGTCAAACCTCATCTCGCCTTGATGAATTTCTCTTGGGCTATGGATTTAGATCCTAAA  
 GGAGCCAATAATCAGATTAAGAGGCAATTGACAAGCGCTACCTTCCAGATGATGAGGAGCAATAACCC  
 AGGAGGAACAGATCATGGGGACAGATGAATCCAGGAGAGCAGCATGACAGATGCAGATGACACACAAC  
 TCATGCGGCGAAAGTGACGAATTT

**ACGGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

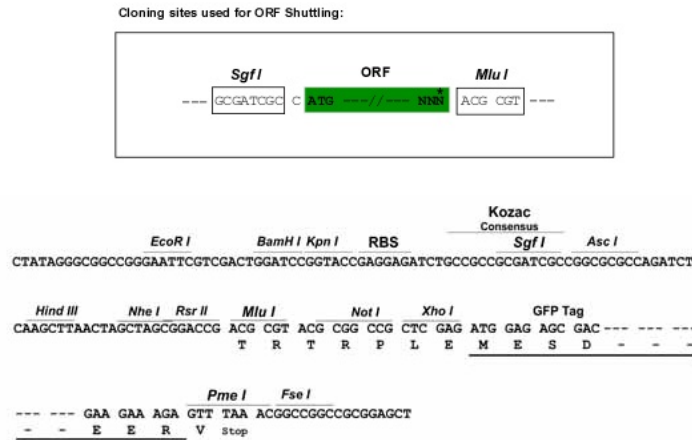
**Protein Sequence:** >MG223434 representing NM\_145436  
Red=Cloning site Green=Tags(s)

```
MTVLQEPVQAAIWQALNHAYRDAVFLAERLYAEVHSEEALFLLATCYRSGKAYKAYRLLKGHSCTTPQ
CKYLLAKCCVDL SKLAEGEQILSGGVFNKQKSHDDL VTEFGDSACFTLSLLGHVYCKTDRLAKGSECYQK
SLSLNPFLWSPFESLCEIGEKDPDQTFKLTSLQNFSSCLPNTCTTLVSNHSLSHRQPETVLTETPQDTI
ELNRLNLESSNSKYSLNTDSSVSYIDSTVISPDNVPLGPGTAILSKQVQNKPKTGRSLLGGPTALSPLTP
SFGILPLETPSPGDGSYLQNYTNTPSVIDVAPTGAPTKKSVARMGQTGTKSVFSQSGNSREVTPVLYAQT
QSSGPQSTTPQVLSPTITSPPNALPRRSSRLFTSDSSTTKENSKKLMKFPPKIPNRKTKSKTNKGGLT
QPSINDSLEITKLDSSIISEGKITTVTPQIQAFNLQKAAAEGMSLLREMGKGYLALCSYNCKEAINILS
HLP SHYSTGWVLCQIGRAYFELSEYMQAERIFSEVRRIESFRVEGMEIYSTTLWHLQKDVALSVLSKDL
TMDKNSPEAWCAAGNCSLQREHDAIKFFQRAIQVDPNYAYAYTLGHEFVLTEELDKALACFRNAIR
VNPRHYNAWYGLGMIYYKQEKFLAEMHFQKALDINPQSSVLLCHIGVVQHALLKSEKALDTLNKAIVID
PKNPLCKFHRSVLFANEKYKSALQELEELKQIVPKESLVYFLIGKVYKKGQTHLALMNF SWAMD LDPK
GANNQIKEAIDKRYLPDDEEPI TQEEQIMGTDESQESSMTDADDTQLHAAESDEF
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

Cloning Scheme:



ACCN: NM\_145436

ORF Size: 2475 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\\_145436.2](#), [NP\\_663411.2](#)

**RefSeq Size:** 5783 bp

**RefSeq ORF:** 2478 bp

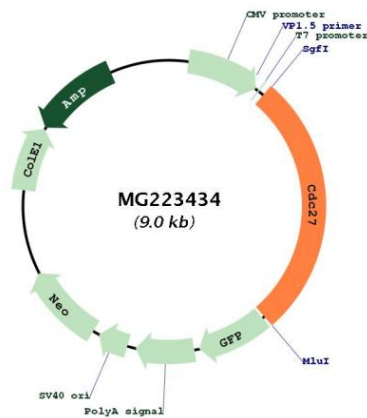
**Locus ID:** 217232

**UniProt ID:** [A2A6Q5](#)

**Cytogenetics:** 11 67.79 cM

**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 MG223434