

Product datasheet for **MR231224**

Cdc27 (NM_001285988) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdc27 (NM_001285988) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdc27
Synonyms:	AI452358; APC3; BC023187
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>MR231224 representing NM_001285988
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACGGTGTGCAGAACCTGTCCAGGCTGTATATGGCAAGCGCTAAACCACTATGCTTACCGAGATG
 CAGTTTTCTCGCAGAACGACTATATGCAGAAGTACATTCAGAAGAAGCCTTGTTTTACTGGCAACCTG
 TTAACACCGCTCAGGAAAAGGCTTATAAAGCATATAGACTCTTGAAAGGACACAGTTGTACCACCCACAG
 TGTAATACCTGCTTGCAAAATGTTGTGTGACCTCAGCAAGCTTGCAAGGGGAAACAGATCTTATCTG
 GTGGAGTGTAAATAAGCAGAAAAGCCATGACGACCTTGTCACTGAGTTGGAGATTAGCTTGTCTCAC
 TCTTCTTGTGGGACATGTGATTGCAAGACAGATCGGCTTGCCAAAGGGTCAAGATGTTACCAAAAAG
 AGCCTTAGTTAAATCCTTCTCTGGTCTCCCTTTGAATCGTTATGTGAAATAGGTGAGAAGCCAGATC
 CTGACCAACATTTAAATTAACATCTCTACAGAATTTAGCAGTTGTCTTCCCAACTTGTACAACCTCT
 AGTATCTAATCACAGTTTATCTCACAGACAGCCTGAGACAGTCTTACAGAAACACCCCAAGACACAATT
 GAATTAACAGACTGAATTTAGAATCTTCAATTCAAAGTACTCCTTGAATACAGATTCTCCGTGTCTT
 ACATTGATTCAACTGTAATTTACCAGATAACGTCCCCCTTGGACCTGGTACTGCCATATATCTAAACA
 GGTTCAAAATAAACAAAAAAGTGGTGAAGTTTATTAGGAGGACCAACTGCTTACAGCCATTAACCCCA
 AGTTTTGGGATTTGCCATTAGAAAACCCCAAGTCTGGAGATGGATCCTATTTACAAAACACTACTAATA
 CACCTTCTGTAATTGATGTGGCACCCACCGGAGCACCTACAAAAAAGACTTTTTGTGTTTTACAGTCTGT
 TGCAAGAATGGCCAAACTGGAACAAAGTCTGTCTTCTCACAGAGTGGAAATAGTCGAGAGGTACACCA
 TACTTGTGTCACAAACAAAGTTCTGGCCACAAACAAGTACAACACCTCAGTATTGAGCCCACTA
 TCACATCTCCCCAAACGCATTGCTCGGAGAAGTCCCGCCTTTTCACTAGTGACAGTTACAACCA
 GGAGAATAGCAAAAAGTTAAAAATGAAGTTTCCACCTAAAAATCCCTAACAGAAAAACAAAAAGTAAACT
 AATAAAGGAGGACTAACTCAGCCAGCATAAACGATAGTCTGAAATTAACAAAAGTGGACTCCTCTATCA
 TTTCAGAAGGGAAAAAACCACAGTCACACCTCAGATCCAGGCATTTAACCTACAAAAGGCAGCAGCAGG
 TTTGATGAGCCTTCTCGTGAATGGGAAAAGTTATTTAGCTTGTGTTTATACAACACTGCAAAAGAGCT
 ATCAATATTTGAGCCATCTACCTTCTCATCACTACAGTACTGGTTGGTCTATGCCAGATTGGACGGG
 CTTATTTGAACTTTCAGAATACATGCAGGCTGAAAGAATATTCTCAGAGGTTAGAAGGATTGAGAGTTT
 CAGAGTTGAAGGAATGGAGATCTACTCTACAACACTCTGGCATCTCAGAAAGACGTTGCTCTTTCAGTT
 CTTTCAAAGATTTAACAGACATGGATAAGAATTCACCAGAGGCCTGGTGTGCTGCAGGGAATTGTTCA
 GTCTACAACGAGAGCATGATATAGCAATTAATTTCTTCCAAAGAGCTATCCAGGTCGATCCAAATACGC
 TTACGCCTATACTCTATTAGGACATGAGTTTGTGTTAACTGAAGAAGTAGATAAAGCATTAGCATGTTTT
 CGAAATGCTATAAGAGTAAATCCAGACATTACAATGCATGGTATGGTTTAGAATGATTTATTACAAGC
 AAGAGAAGTTCAGCCTCGCAGAAATGCATTTCCAGAAAGCACTTGATATCAACCCCTCAGAGTTAGTTTT
 ACTTTGCCACATTGGAGTAGTTCAGCATGCACTAAAGAAGTCTGAGAAGGCTTTGGATACCTAAACAAA
 GCCATTGTTATCGATCCCAAGAACCCTCTATGCAAATTTACAGAGCCTCGGTTTTATTTGCAAATGAAA
 AATAACAAGTCTGCTTTACAAGAAGTGGGTCAAACCTCATCTCGCCTTGATGAATTTCTCTTGGGCTATG
 GATTTAGATCCTAAAGGAGCCAATAATCAGATTAAGAGGCAATTGACAAGCGCTACCTTCCAGATGATG
 AGGAGCCAATAACCCAGGAGGAACAGATCATGGGACAGATGAATCCAGGAGAGCAGCATGACAGATGC
 AGATGACACACAACCTTATGCGGCGGAAAGTGACGAATTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231224 representing NM_001285988
 Red=Cloning site Green=Tags(s)

```

MTVLQEPVQAAIWQALNHAYRDAVFLAERLYAEVHSEEALFLLATCYRSGKAYKAYRLLKGHSCTTPQ
CKYLLAKCCVDL SKLAEGEQILSGGVFNKQKSHDDL VTEFGDSACFTLSLLGHVYCKTDRLAKGSECYQK
SLSLNPFLWSPFESLCEIGEKDPDQTFKLTSLQNFSSCLPNTCTTLVSNHSLSHRQPETVLTETPQDTI
ELNRLNLESSNSKYSLNTDSSVSYIDSTVISPDNVPLGPGTAILSKQVQNKPKTGRSLLGGPTALSPLTP
SFGILPLETPSPGDGSYLQNYTNTPSVIDVAPTGAPTKKTF CVLQSVARMGQTGKSVFSQSGNSREVTP
V LVAQTQSSGPQTSTTPQVLSPTITSPNALPRRSSRLFTSDSSTTKENSKKLMKFPKIPNRKTKSKT
NKGGLTQPSINDSLEITKLDSSIISEGITTVTPQIQAFNLQKAAAGLMSLLREMGKYLALCSYNCKEA
INILSHLPSHHYSTGWVLCQIGRAYFELSEYMQAERIFSEVRRIESFRVEGMEIYSTTLWHLQKDVALSV
LSKDLTMDKNSPEAWCAAGNCFSLQREHDI A IKFFQRAIQVDPNYAYAYTL LGHEFVLTEELDKALACF
RNAIRVNPRHYNAWYGLGMIYYKQEKFLAEMHFQKALDINPQSSVLLCHIGVVQHALKKSEKALDTLNK
AIVIDPKNPLCKFHRASVLFANEKYKSALQELEELKQIVPKESLVYFLIGKVYKKGQTHLALMNF SWAM
DLDPKGANNQIKEAIDKRYLPDDEEPI TQEEQIMGTDESQESSMTDADDTQLHAAESDEF
  
```

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

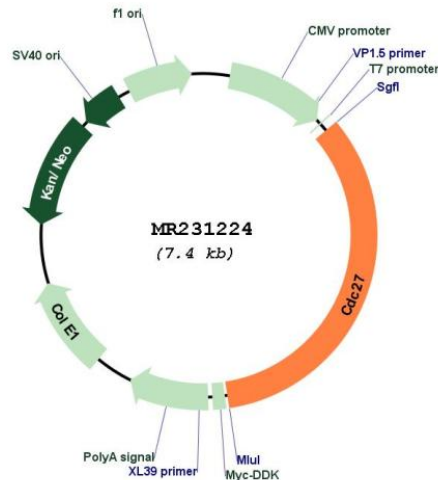
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001285988

ORF Size: 2490 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_001285988.1](#), [NP_001272917.1](#)

RefSeq Size: 5798 bp

RefSeq ORF: 2493 bp

Locus ID: 217232

UniProt ID: [A2A6Q5](#)

Cytogenetics: 11 67.79 cM

MW: 92.9 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]