

Product datasheet for **MG215901**

Cdc23 (NM_178347) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdc23 (NM_178347) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cdc23
Synonyms:	6030435O18; D18Ertd243e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG215901 representing NM_178347
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGCGAATTCCTCGGTAGTCTCGGTGGCAGCGGCCGCCACGGCGGTGCCGGCGGTATCCACTGTCC
 CGGATTTTTAGACTTGCAGGAAATTAAGCAGCTGCTGCTCATCGCGGCCCTCACTCGGAGCGGGG
 CCTGCTGCATAGCAGCAATGGTCTGCGGAGTTGGCCTTCTCTGCCCCCTTGCCCTTTGTCGGAGCTG
 CAGCCGCCCGCCTCTGACAGAGGAGGACGCGCAGGATGTGGATGCTTACACCTGGCCAAAGCCTACT
 TTGATGTTAAAGAGTATGACCGGGCGGCACATTCCTTCACGGCTGCAATAGCAAGAAAGCCTATTTCT
 GTACATGTATTCCAGATACCTGTCTGGAGAGAAGAAGGATGACGAAACAGTTGATAGCCTAGGACCC
 CTAGAGAAAGGACAAGTCAAAAACGAGGCTCTCAGAGAACTGAGAGTGGAACTCAGCCGGAAGCACCAGG
 CTCGGGGACTTGATGGATTGGCCTTTACCTGTATGGGGTGGTGTTCGAAAACGGACTTGTGAAAGA
 GGCCATTGATGTGTTTGGAGGCTACTCATGTTTGCCTTTCCTGACTGGGGAGCCTGGTTAGAGCTGTGT
 AACCTGATCACAGACAAAGAGATGCTGAAGTTCCTGTCTTGCCTGACACCTGGATGAAAGATTCTTCT
 TGGCTCACATATACAGAACTGCAGCTGATAGAGGAGGCCCTGCAGAAGTATCAGCATCTCATTGATGT
 GGGCTTTTCCAAGAGCTCGTACATTGTTTCCCAAATTGCAGTTGCCTATCACAATATCAGAGATATCGAC
 AAAGCCCTTTCTATTTTCAATGAGCTGAGGAAACAAGATCCTTACAGGATTGAAAATATGGACACATTCT
 CCAACCTTCTCTATGTCAGGAGCATGAAGTCTGAATTGAGTTACCTGGCGCATACCTCTGTGAAATTGA
 TAAATACCGAGTAGAAACATGCTGTGTAATTGGCAATTATTACAGCTTACGCTCCAGCATGAGAAAAGCA
 GCTTTGTATTTCCAGAGAGCCCTAAAGTTGAATCCTAGGTACCTTGGGGCCTGGACACTGATGGGCACG
 AGTACTGGAGATGAAGAACACGCTGCAGCTATTCAGGCTTACCGACATGCCATTGAGGTCAACAAGAG
 AGACTACAGAGCTTGGTATGGCCTTGGGCAGACTTACGAAATCCTTAAAATGCCATTTTATTGCCTTTAT
 TATTATAGACGGGCCACCAGCTTCGTCCCAATGATTCTCGCATGCTGGTTGCCTTAGGAGAATGTTATG
 AGAAACTCAACTAGTGGAAGCCAAAAAGTGTATTGGAGAGCATATGCCGTGGGAGACGTGGAGAA
 AATGGCTCTTGTGAAGCTGGCCAAGCTTCAAGACAGTTGACTGAGTCAAGCAGGCTGCCAGTGTAC
 ATCAAATACATCCAAGATATCTATTCTGTGGGGAGACCTGGAGCACTTGGAGGAGACACAGCCTTCC
 GATACCTGGCCAGTACTATTTAAGTGAAGCTGTGGGATGAAGCTTCAACTTGTGCCAAAAATGTTG
 TGCATTCAATGATACCCGGAAGAAGGTAAAGCCTTGTCCGCCAGATCTACAGCTGAGGAACCAAGGG
 GAGACACCCACCTGACACGCCGGTACCTTTTTCTCCTGCCTCACTGTCTGCAACAACACTCCTA
 CACGAGAGTTTCTCACTCAACCTGTCTTCAGTCACACCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG215901 representing NM_178347
 Red=Cloning site Green=Tags(s)

MAANSVSVSAAAATAVPGVSTVADFSDLQEIKKQLLLIAGLTRERGLLHSSKWSAELAFSLPALPLSEL
 QPPPLTEEDAQDVDAYTLAKAYFDVKEYDRAAHFLHGCNSKKAYFLYMYSRYLSGEKKKDDVDSLGP
 LEKGQVKNEALRELRLVLSRKHQARGLDGFLYLYGVVLRKLDLVKEAIDVFVEATHVPLPHWGAWLELC
 NLITDKEMLKFLSLPDTWMKEFFLAHIYTELQLIEEALQKYQHLIDVGFSSSYIVSQIAYVYHNIRDID
 KALSIFNELRKQDPYRIENMDTFSNLLYVRSMKSELSYLAHNLCEDKYRVETCCVIGNYSLRSQHEKA
 ALYFQRALKLNPRYLGAWTLMGHEMEMKNTSAAIQAYRHAIEVNRDYRAWYGLGQTYEILKMPFYCLY
 YYRRAHQLRPNSRMLVALGECYEKLNQLVEAKKCYWRAYAVGDVEKMALVKLAKLHEQLTESEQAQCY
 IKYIQDIYSCGETVEHLEESTAFRYLAQYYFKCKLWDEASTCAQKCCAFNDTREEKALLRQILQLRNQG
 ETPTSPTPGTFFLPASLSANNTPTRRVSPLNLSVTP

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_178347

ORF Size: 1791 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_178347.4](#), [NP_848124.1](#)

RefSeq Size: 4134 bp

RefSeq ORF: 1794 bp

Locus ID: 52563

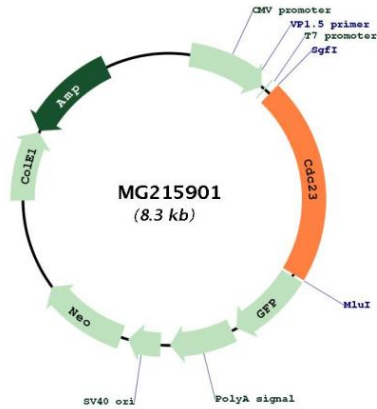
UniProt ID: [Q8BGZ4](#)

Cytogenetics: 18 18.69 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 MG215901