

Product datasheet for **MG208003**

Cdc20 (NM_023223) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Cdc20
Synonyms:	2310042N09Rik; C87100; p55CDC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >MG208003 representing NM_023223
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGCAGTTCGTGTTGAGAGCGATTTGCACTCACTGCTTCAACTGGACGCACCCATCCCCAATGCC
 CGGTTGCGCGCTGGCAGCGCAAAGCAAAGGAAGCCACAGGCCAGCCCCCTCGCCATGCGGGCCGCAA
 CAGATCACACAGCGCCGGGCGGACCCGGGCCGAATCCTGGCAATCTAGTTCGAAGTTGAGACCACC
 CCTAGCAAACCTGGAGGTGACCGCTTTATCCCCAACGCAGTGCTTCTCAAATGGAGGTGGCAGCTTCC
 TCTTAAGCAAGGAAAACAGCCGGAAGACAGGGGACGCCACCAAAAAGGAGCATCAGAAAGCCTGGTC
 TCTCAACCTGAACGGTTTTGATGTGGAGGAAGCAAGATCCTCAGGCTCAGCGCAAACTCAGAATGCC
 CCAGAAGGCTACCAAGACAGACTGAAAGTACTGTACAGTCAGAAAGCCACGCCTGGCTCCAGCAGGAAGA
 CTTGCAGATACATCCCTTCTGCCAGACAGGATCCTTGATGCCCCGAAATCCGGAATGACTACTACCT
 GAATCTTGTAGATTGGAGCTCTGGAATGTATTGGCTGTGGCACTGGACAACAGTGTGTACTTATGGAAC
 GCTGGTTCTGGTGACATCTGCAAGTTGTTGCAATGGAGCAGCCTGGAGACTACATATCCTCGGTGGCCT
 GGATCAAGGAGGGCAACTACCTAGCTGTAGGCACCAGCAATGCTGAGGTCCAGCTCTGGGATGTGCAGCA
 GCAGAAACGACTTCGAACATGACCACTCCGCTCGAGTAAGCTCCCTCAGTTGGAACAGCTATATC
 CTATCCAGTGGTTCACGGTCTGGCCACATCCACCACCATGATGTTGGGTAGCAGAACCATGTGGCCA
 CACTGAGTGGCCATAGCCAGGAAGTATGTGGGCTTCGCTGGGCCCCAGATGGACGACATCTGGCAAGTGG
 TGGCAATGATAACATTGTCAACGTGTGGCCTAGTGGTCTCGAGAAAGTGGATGGGCTCCCTGCAACA
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 GAGGAGGAACAGTGACCGGCACATTCGCATTTGGAACGTCTGCTCAGGGGCTGTCTGAGTGTGTGGA
 TGTGCATTCCAGGTGTGCTCCATCCTCTGGTCTCCCACTATAAGGAGCTGATCTCAGGTACGGCTTT
 GCCCAGAACCAGCTGGTTATTTGGAAGTATCCAACCATGGCCAAGGTGGCTGAGCTCAAAGGACACACGG
 CACGGGTCTGGGTCTTACAATGAGTCCAGATGGGGCCACAGTGGCATCAGCAGCAGCTGATGAGACTCT
 ACGGTTGTGGCGCTGCTTTGAGATGGACCCTGCCCTTCGGCGTGAGCGGGAAAAAGCCAGTGTAGCTAAA
 AGTAGCCTCATCCCAAGGCATCCGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

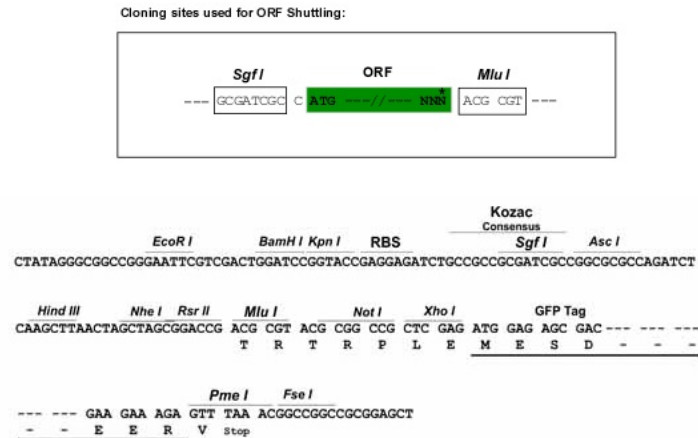
Protein Sequence: >MG208003 representing NM_023223
 Red=Cloning site Green=Tags(s)

MAQFVFESDLHSLQLDAPIPNAPVARWQRKAKEATGPAPSPMRAANRSHSAGRTPGRTPGKSSSKVQTT
 PSKPGGDRFIPQRSASQMEVASFLLSKENQPEDRGTPKKEHQKAWSLNLNGFDVEEAKILRLSGKPQNA
 PEGYQNLKVLYSQKATPGSSRKTCRYIPSLPDRILDAPDIRNDYYLNLVDWSSGNVLAVALDNSVYLWN
 AGSGDILQLQMEQPGDYISSVAWIKEGNYLAVGTSNAEVQLWDVQKRLRNMTSHSARVSSLWNYSYI
 LSSGSRSGIHHHDVRAEHHVATLSGHSQEVCGLRWAPDGRHLASGGNDNIVNVWSPGPGESGWAPLQT
 FTQHQGAVKAWCPWQSNILATGGGTSRHRIRIWNVCSGACLAVDVHSQVCSILWSPHYKELISGHGF
 AQNQLVIWKYPTMAKVAELKGHTARVLGLTMSPDGATVASAAADETLRLWRCFEMDPALRREREKASVAK
 SSLIHQGIR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_023223

ORF Size: 1497 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_023223.1](#), [NP_075712.1](#)

RefSeq Size: 1701 bp

RefSeq ORF: 1500 bp

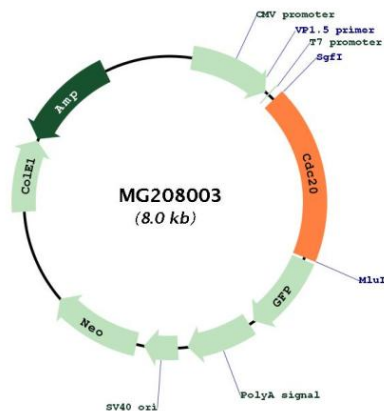
Locus ID: 107995

UniProt ID: [Q9JJ66](#)

Cytogenetics: 4 D2.1

Gene Summary: Required for full ubiquitin ligase activity of the anaphase promoting complex/cyclosome (APC/C) and may confer substrate specificity upon the complex. Is regulated by MAD2L1: in metaphase the MAD2L1-CDC20-APC/C ternary complex is inactive and in anaphase the CDC20-APC/C binary complex is active in degrading substrates. The CDC20-APC/C complex positively regulates the formation of synaptic vesicle clustering at active zone to the presynaptic membrane in postmitotic neurons. CDC20-APC/C-induced degradation of NEUROD2 induces presynaptic differentiation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG208003