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Product datasheet for MR208003

Cdc20 (NM_023223) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdc20 (NM_023223) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdc20
Synonyms:	2310042N09Rik; C87100; p55CDC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR208003 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCAGTTCGTGTTCGAGAGCGATTTGCACTCACTGCTTCAACTGGACGCACCCATCCCCAATGCCC
CGGTTGCGCGCTGGCAGCGCAAAGCAAAGGAAGCCACAGGCCCAGCCCCCTCGCCCATGCGGGCCGCCAA
CAGATCACACAGCGCCGGGCGGACCCCGGGCCGAACTCCTGGCAAATCTAGTTCCAAGGTTCAGACCACC
CCTAGCAAACCTGGAGGTGACCGCTTTATCCCCCAACGCAGTGCTTCTCAAATGGAGGTGGCCAGCTTCC
TCTTAAGCAAGGAAAACCAGCCGGAAGACAGGGGGACGCCCACCAAAAAGGAGCATCAGAAAGCCTGGTC
TCTCAACCTGAACGGTTTTGATGTGGAGGAAGCCAAGATCCTCAGGCTCAGCGGCAAACCTCAGAATGCC
CCAGAAGGCTACCAGAACAGACTGAAAGTACTGTACAGTCAGAAAGCCACGCCTGGCTCCAGCAGGAAGA
CTTGCAGATACATCCCTTCTCTGCCAGACAGGATCCTTGATGCCCCCGAAATCCGGAATGACTACTACCT
GAATCTTGTAGATTGGAGCTCTGGAAATGTATTGGCTGTGGCACTGGACAACAGTGTGTACTTATGGAAC
GCTGGTTCTGGTGACATCCTGCAGTTGTTGCAAATGGAGCAGCCTGGAGACTACATATCCTCGGTGGCCT
GGATCAAGGAGGGCAACTACCTAGCTGTAGGCACCAGCAATGCTGAGGTCCAGCTCTGGGATGTGCAGCA
GCAGAAACGACTTCGAAACATGACCAGTCACTCCGCTCGAGTAAGCTCCCTCAGTTGGAACAGCTATATC
CTATCCAGTGGTTCACGGTCTGGCCACATCCACCACCATGATGTTCGGGTAGCAGAACACCATGTGGCCA
CACTGAGTGGCCATAGCCAGGAAGTATGTGGGCTTCGCTGGGCCCCAGATGGACGACATCTGGCAAGTGG
TGGCAATGATAACATTGTCAACGTGTGGCCTAGTGGTCCTGGAGAAAGTGGATGGGCTCCCCTGCAAACA
TTCACTCAACATCAAGGCGCTGTCAAGGCTGTGGCATGGTGTCCCTGGCAGTCCAATATCCTGGCAACAG
GAGGAGGAACCAGTGACCGGCACATTCGCATTTGGAACGTCTGCTCAGGGGCCTGTCTGAGTGCTGTGGA
TGTGCATTCCCAGGTGTGCTCCATCCTCTGGTCTCCCCACTATAAGGAGCTGATCTCAGGTCACGGCTTT
GCCCAGAACCAGCTGGTTATTTGGAAGTATCCAACCATGGCCAAGGTGGCTGAGCTCAAAGGACACACGG
CACGGGTCCTGGGTCTTACAATGAGTCCAGATGGGGCCACAGTGGCATCAGCAGCAGCTGATGAGACTCT
ACGGTTGTGGCGCTGCTTTGAGATGGACCCTGCCCTTCGGCGTGAGCGGGAAAAAGCCAGTGTAGCTAAA
AGTAGCCTCATCCACCAAGGCATCCGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

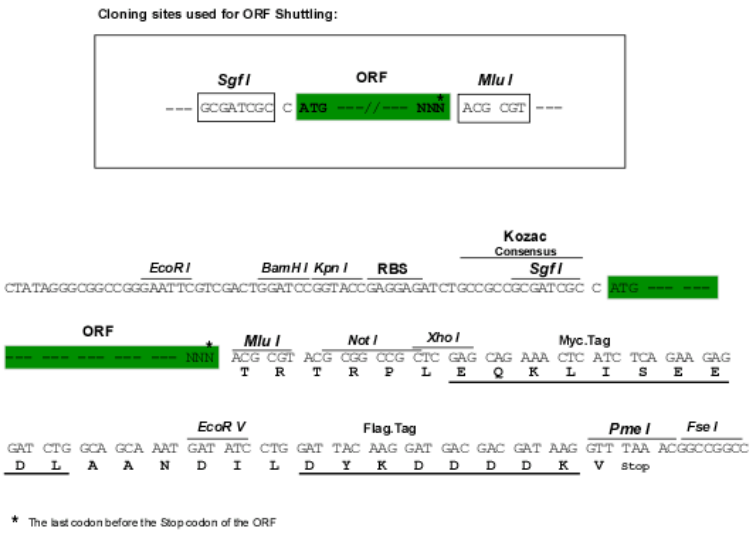
>MR208003 protein sequence
Red=Cloning site Green=Tags(s)

MAQFVFESDLHSLLQLDAPIPNAPVARWQRKAKEATGPAPSPMRAANRSHSAGRTPGRTPGKSSSKVQTT
PSKPGGDRFIPQRSASQMEVASFLLSKENQPEDRGTPTKKEHQKAWSLNLNGFDVEEAKILRLSGKPQNA
PEGYQNRLKVLYSQKATPGSSRKTCRYIPSLPDRILDAPEIRNDYYLNLVDWSSGNVLAVALDNSVYLWN
AGSGDILQLLQMEQPGDYISSVAWIKEGNYLAVGTSNAEVQLWDVQQQKRLRNMTSHSARVSSLSWNSYI
LSSGSRSGHIHHHDVRVAEHHVATLSGHSQEVCGLRWAPDGRHLASGGNDNIVNVWPSGPGESGWAPLQT
FTQHQGAVKAVAWCPWQSNILATGGGTSDRHIRIWNVCSGACLSAVDVHSQVCSILWSPHYKELISGHGF
AQNQLVIWKYPTMAKVAELKGHTARVLGLTMSPDGATVASAAADETLRLWRCFEMDPALRREREKASVAK
SSLIHQGIR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_023223

ORF Size: 1500 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_023223.1, NM_023223.2, NP_075712.1

RefSeq Size: 1793 bp

RefSeq ORF: 1500 bp

Locus ID: 107995

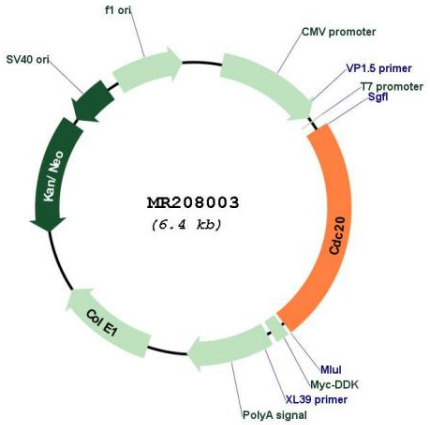
UniProt ID: Q9JJ66

Cytogenetics: 4 D2.1

MW: 54.8 kDa

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 MR208003