

Product datasheet for **MR222076**

Ccm2 (NM_001190343) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ccm2 (NM_001190343) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ccm2
Synonyms: BC029157
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR222076 representing NM_001190343
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAGGAGGAGGGCAAGAAGGGCAAGAAGTATTTAGGTCAGTTAACATCCATCCCGGCTACCTGAACC
CTTCCAGTAGGACGAAATCCTGCATTTATAGACAAGGCAAAGCGGTCCCACCAGCTTCTCTGGCACCT
GACTCAGGAGCAGATGCTGTGCTCAGTCTGTCTGCCTACAATGTCAAGTTGGCCTGGAGGGACGGGGAG
GACATTATCCTCAGGGTGCCCATCCATGATATCGCTGCTGTCTCCTATGTCCGAGATGATGCTGCACACC
TGGTGGTCTGAAGACAGCCAGGACCCAGGCATCTCTCCAGCCAGAGTCTGTGTGCAGAAAGTTCTAG
AGGCCTCAGCGCAGGTTCTTTGTCAGAAAGTGCAGTGGGGCCAGTAGAGGCATGTTGCCTGGTCATCATG
GCCACAGAGAGCAAGGTCGCCGCTGAAGAGTTGTGCTCCCTGCTCAGCCAGGTTCTCCAGATTGTTTACA
CGGAGTCCACCATCGACTTTCTGGACCGAGCAATATTTGATGGGGCTTCCACACCTACCCACCACCTGTC
GCTGCACAGTGTGACTTTCCACGAAAGTGGACATGAAGGACAGTTACGATGCTGACGCCAGCACCTTC
TGCTTCCCGACTCTGGGGATGTGGGAGGCCTGCCGCCCTTACCCTTCTGCATGCAGACATCACCCATA
GCAAGACTGTGAGTGTGAGCGAGCTGAGCACCAGCCGCAAGTCTGTCAGGACTACATGCTCAGCT
ACGTACGAAGCTGTCATCACAGGAGATCCAGCAGTTCCGAGCTCTGCTACATGAGTACCGCAATGGGGCC
TCTATCCATGAGTTTTGCATCAGCCTGCGGCAGCTCTATGGGGACAGCCGCAAGTTCTGCTACTTGGTC
TCAGACCTTTCATACCTGAGAAGGACAGTCACTTTGAAAACCTTCTGGAGACCATGGCGTAAAGA
CGGCCGTGGCATCACTGACAGCTTTGGTAGGCATCGTCGTCCTGAGTACCACCTCCACATCCACC
ATCAATGGGAACAGGACCACAGGCAGCCCTGATGACCGCTCTGCCCTCAGAGGGGGATGAGTGGGACC
GCATGATTTAGACATCAGTAGTGATATTGAAGCGCTAGGCTGCAGCATGGACCAGGACTCAGCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222076 representing NM_001190343
Red=Cloning site Green=Tags(s)

MEEEGKKGKKYLQQLTSIPGYLNPSSRTEILHFIDKAKRSHQLPGHLTQEHDVLSLSAYNVKLAWRDGE
 DIILRVPIHDIAAVSYVRDAAHLVVLKTAQDPGISPSQSLCAESSRGLSAGLSSEAVGPVEACCLVIM
 ATEskVAAEELCSLLSQVFQIVYTESTIDFLDRAIFDGASTPTHHLSLHSDSSSTKVDKMSYDADASTF
 CFPDsgdVgGLPPLPFCMQTSPHskTVSESELSTsATELLQDYMLTLRtkLSSQEIQQFAALLHEyRNGA
 SIHEFCISLRQLYgDRKfLLLGLRPFiPEKDSQHfENFLETiGVKdGRGIITDSfGRHRRALSTTSTST
 INGnRTTGSPDDRSAPSEgDEWDRMISDISSDIEALGCSMDQDSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

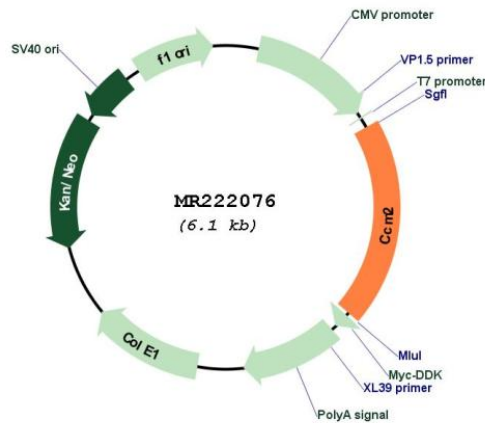
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001190343

ORF Size:	1185 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:	<ol style="list-style-type: none">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_001190343.1 , NP_001177272.1
RefSeq Size:	1701 bp
RefSeq ORF:	1188 bp
Locus ID:	216527
Cytogenetics:	11 A1
MW:	43.6 kDa
Gene Summary:	Component of the CCM signaling pathway which is a crucial regulator of heart and vessel formation and integrity. May act through the stabilization of endothelial cell junctions. May also function as a scaffold protein for MAP2K3-MAP3K3 signaling. Seems to play a major role in the modulation of MAP3K3-dependent p38 activation induced by hyperosmotic shock. [UniProtKB/Swiss-Prot Function]