

## Product datasheet for **MR207234**

### **Ccm2 (NM\_146014) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ccm2 (NM_146014) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ccm2
Synonyms:	BC029157
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207234 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGAGGAGGCAAGAAGGGCAAGAAGCCTGGAATTGTGTCGCCATTTAAACGAGTATTCCTAAAAG  
 GTGAAAAGAGTAGAGATAAGAAAAGCCCATGAGAAGGTGACAGAGAGGCGCCCTCTGCACACTGTGGTGCT  
 GGCGTTACCTGAGCGCGTCGAGCCAGACAGACTGCTGAGCGACTATATTGAGAAGGAGGTGAAGTATTTA  
 GGTCAAGTAAACATCCATTCGCGCTACCTGAACCTTCCAGTAGGACGAAATCCTGCATTTATAGACA  
 AGGCAAAGCGGTCCACACAGTTCTGGGCACCTGACTCAGGAGCAGATGCTGTGCTCAGTCTGTCTGC  
 CTAACAATGTCAAGTTGGCTGGAGGGACGGGAGGACATTATCCTCAGGGTGCCCATCCATGATATCGCT  
 GCTGTCTCTATGTCGAGATGATGCTGCACACCTGGTGGTCTGAAGACAGCCAGGACCCAGGCATCT  
 CCCCAGCCAGAGTCTGTGTGCAGAAAGTTCTAGAGGCCTCAGCGCAGGTTCTTGTGAGAAAGTGCAGT  
 GGGGCCAGTAGAGGCATGTTGCCTGGTTCATCATGGCCACAGAGCAAGGTCGCCCTGAAGAGTTGTGC  
 TCCTGCTCAGCCAGGTTCCAGATTGTTTACACGGAGTCCACCATCGACTTTCTGGACCAGCAATAT  
 TTGATGGGGCTTCCACACCTACCCACCCTGTGCTGCACAGTATGACTCTTCCACGAAAAGTGGACAT  
 GAAGGACAGTTACGATGCTGACGCCAGCACCTTCTGCTTCCCGGACTCTGGGGATGTGGGAGGCCTGCCG  
 CCCTTACCCTTCTGCATGCAGACATACCCCATAGCAAGACTGTCAGTGAGAGCGAGCTGAGCACCAGCG  
 CCACGGAAGTGTGCAGGACTACATGCTCACGTTACGTACGAAGTGTGCATCACAGGAGATCCAGCAGTT  
 CGCAGCTCTGCTACATGAGTACCGCAATGGGGCCTCTATCCATGAGTTTTGCATCAGCCTGCGGCAGCTC  
 TATGGGGACAGCCGAAGTTCTGCTACTTGGTCTCAGACCCTCATACTGAGAAGGACAGTCAAGCACT  
 TTGAAAACCTTCTGGAGACCATTGGCGTGAAGACGGCCGTGGCATCATCACTGACAGCTTGGTAGGCA  
 TCGTCGTGCCCTGAGTACCACCTCCACATCCACCATCAATGGGAACAGGACCACAGGCAGCCCTGATGAC  
 CGCTCTGCGCCCTCAGAGGGGATGAGTGGGACCGCATGATTTTCAGACATCAGTAGTGATATTGAAGCGC  
 TAGGCTGCAGCATGGACCAGGACTCAGCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207234 protein sequence  
 Red=Cloning site Green=Tags(s)

MEEEGKKGKPGIVSPFKRVFLKGEKSRDKKAHEKVTERPLHTVVLALPERVEPDRLLSDYIEKEVKYL  
 GQLTSIPGYLNPSRTEILHFIDKAKRSHQLPGHLTQEHDVLSL SAYNVKLAWRDGEDILRVPIDHIA  
 AVSYVRDDAAHLVVLKTAQDPGISPSQSLCAESSRGLSAGSLSESAVGPVEACCLVIMATESKVAAEELC  
 SLLSQVFQIVYTESTIDFLDRAIFDGASTPTHLSLHSDSSTKVKMDSYDADASTFCFPDSDGVGGPL  
 PLPFCMQTSPHKTVSESELSTATELLQDYMLTLRTKLSQEIQQFAALLHEYRNGASIEFCISLRQL  
 YGDSRKFLLLGLRPFIPKDSQHFENFLETIGVKDGRGIIITDSFGRHRRALSTTSTSTINGNRTTGPSPD  
 RSAPSEGDEWDRMISDISSDIEALGCSMDQDSA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_146014

**ORF Size:** 1362 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\\_146014.3](#)
**RefSeq Size:** 1875 bp

**RefSeq ORF:** 1362 bp

**Locus ID:** 216527

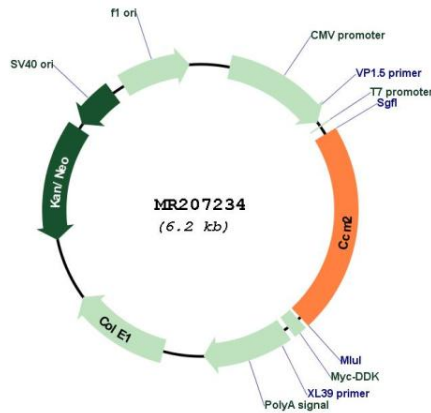
**UniProt ID:** [Q8K2Y9](#)

**Cytogenetics:** 11 A1

**MW:** 49.9 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]

**Product images:**



Circular map for MR207234