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Product datasheet for MR222077

Ccm2 (NM_001190344) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ccm2 (NM_001190344) 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:	>MR222077 representing NM_001190344 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAGAACGAGTATTTAGGTCAGTTAACATCCATTCCCGGCTACCTGAACCCTTCCAGTAGGACGGAAA TCCTGCATTTCATAGACAAGGCAAAGCGGTCCCACCAGCTTCCTGGGCACCTGACTCAGGAGCACGATGC TGTGCTCAGTCTGTCTGCCTACAATGTCAAGTTGGCCTGGAGGGACGGGGAGGACATTATCCTCAGGGTG CCCATCCATGATATCGCTGCTGTCTCCTATGTCCGAGATGATGCTGCACACCTGGTGGTCCTGAAGACAG CCCAGGACCCAGGCATCTCTCCCAGCCAGAGTCTGTGTGCAGAAAGTTCTAGAGGCCTCAGCGCAGGTTC CTTGTCAGAAAGTGCAGTGGGGCCAGTAGAGGCATGTTGCCTGGTCATCATGGCCACAGAGAGCAAGGTC GCCGCTGAAGAGTTGTGCTCCCTGCTCAGCCAGGTCTTCCAGATTGTTTACACGGAGTCCACCATCGACT TTCTGGACCGAGCAATATTTGATGGGGCTTCCACACCTACCCACCACCTGTCGCTGCACAGTGATGACTC TTCCACGAAAGTGGACATGAAGGACAGTTACGATGCTGACGCCAGCACCTTCTGCTTCCCGGACTCTGGG GATGTGGGAGGCCTGCCGCCCTTACCCTTCTGCATGCAGACATCACCCCATAGCAAGACTGTCAGTGAGA GCGAGCTGAGCACCAGCGCCACGGAACTGCTGCAGGACTACATGCTCACGTTACGTACGAAGCTGTCATC ACAGGAGATCCAGCAGTTCGCAGCTCTGCTACATGAGTACCGCAATGGGGCCTCTATCCATGAGTTTTGC ATCAGCCTGCGGCAGCTCTATGGGGACAGCCGCAAGTTCCTGCTACTTGGTCTCAGACCCTTCATACCTG AGAAGGACAGTCAGCACTTTGAAAACTTCCTGGAGACCATTGGCGTGAAAGACGGCCGTGGCATCATCAC TGACAGCTTTGGTAGGCATCGTCGTGCCCTGAGTACCACCTCCACATCCACCATCAATGGGAACAGGACC ACAGGCAGCCCTGATGACCGCTCTGCGCCCTCAGAGGGGGATGAGTGGGACCGCATGATTTCAGACATCA GTAGTGATATTGAAGCGCTAGGCTGCAGCATGGACCAGGACTCAGCG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

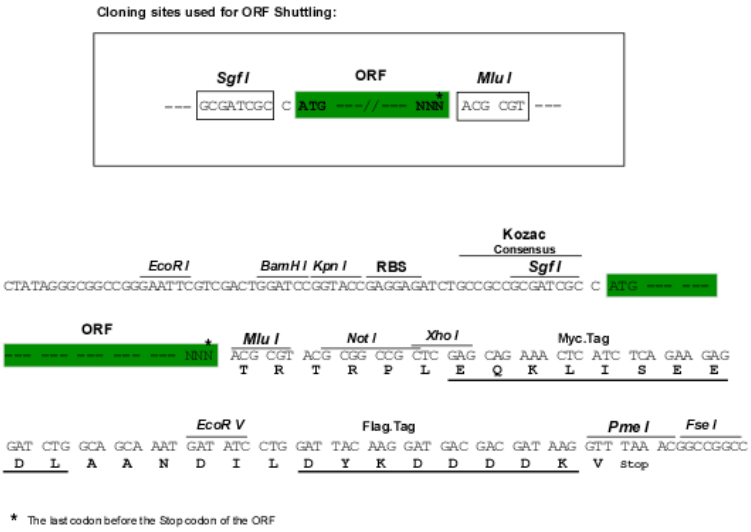
>MR222077 representing NM_001190344
Red=Cloning site Green=Tags(s)

MENEYLGQLTSIPGYLNPSSRTEILHFIDKAKRSHQLPGHLTQEHDAVLSLSAYNVKLAWRDGEDIILRV
PIHDIAAVSYVRDDAAHLVVLKTAQDPGISPSQSLCAESSRGLSAGSLSESAVGPVEACCLVIMATESKV
AAEELCSLLSQVFQIVYTESTIDFLDRAIFDGASTPTHHLSLHSDDSSTKVDMKDSYDADASTFCFPDSG
DVGGLPPLPFCMQTSPHSKTVSESELSTSATELLQDYMLTLRTKLSSQEIQQFAALLHEYRNGASIHEFC
ISLRQLYGDSRKFLLLGLRPFIPEKDSQHFENFLETIGVKDGRGIITDSFGRHRRALSTTSTSTINGNRT
TGSPDDRSAPSEGDEWDRMISDISSDIEALGCSMDQDSA

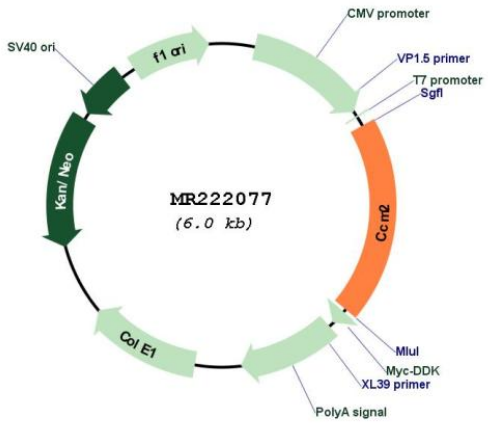
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001190344

ORF Size:	1167 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_001190344.1, NP_001177273.1
RefSeq Size:	1760 bp
RefSeq ORF:	1170 bp
Locus ID:	216527
Cytogenetics:	11 A1
MW:	43 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]