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Product datasheet for MG222076

Ccm2 (NM_001190343) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ccm2 (NM_001190343) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ccm2
Synonyms:	BC029157
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG222076 representing NM_001190343
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGAGGAGGGCAAGAAGGGCAAGAAGTATTTAGGTCAGTTAACATCCATTCCCGGCTACCTGAACC
CTTCCAGTAGGACGGAAATCCTGCATTTCATAGACAAGGCAAAGCGGTCCCACCAGCTTCCTGGGCACCT
GACTCAGGAGCACGATGCTGTGCTCAGTCTGTCTGCCTACAATGTCAAGTTGGCCTGGAGGGACGGGGAG
GACATTATCCTCAGGGTGCCCATCCATGATATCGCTGCTGTCTCCTATGTCCGAGATGATGCTGCACACC
TGGTGGTCCTGAAGACAGCCCAGGACCCAGGCATCTCTCCCAGCCAGAGTCTGTGTGCAGAAAGTTCTAG
AGGCCTCAGCGCAGGTTCCTTGTCAGAAAGTGCAGTGGGGCCAGTAGAGGCATGTTGCCTGGTCATCATG
GCCACAGAGAGCAAGGTCGCCGCTGAAGAGTTGTGCTCCCTGCTCAGCCAGGTCTTCCAGATTGTTTACA
CGGAGTCCACCATCGACTTTCTGGACCGAGCAATATTTGATGGGGCTTCCACACCTACCCACCACCTGTC
GCTGCACAGTGATGACTCTTCCACGAAAGTGGACATGAAGGACAGTTACGATGCTGACGCCAGCACCTTC
TGCTTCCCGGACTCTGGGGATGTGGGAGGCCTGCCGCCCTTACCCTTCTGCATGCAGACATCACCCCATA
GCAAGACTGTCAGTGAGAGCGAGCTGAGCACCAGCGCCACGGAACTGCTGCAGGACTACATGCTCACGTT
ACGTACGAAGCTGTCATCACAGGAGATCCAGCAGTTCGCAGCTCTGCTACATGAGTACCGCAATGGGGCC
TCTATCCATGAGTTTTGCATCAGCCTGCGGCAGCTCTATGGGGACAGCCGCAAGTTCCTGCTACTTGGTC
TCAGACCCTTCATACCTGAGAAGGACAGTCAGCACTTTGAAAACTTCCTGGAGACCATTGGCGTGAAAGA
CGGCCGTGGCATCATCACTGACAGCTTTGGTAGGCATCGTCGTGCCCTGAGTACCACCTCCACATCCACC
ATCAATGGGAACAGGACCACAGGCAGCCCTGATGACCGCTCTGCGCCCTCAGAGGGGGATGAGTGGGACC
GCATGATTTCAGACATCAGTAGTGATATTGAAGCGCTAGGCTGCAGCATGGACCAGGACTCAGCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

>MG222076 representing NM_001190343
Red=Cloning site Green=Tags(s)

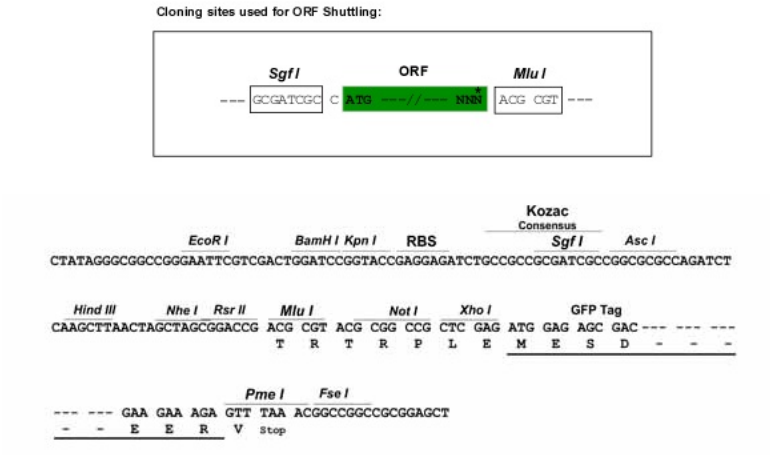
MEEEGKKGKKYLGQLTSIPGYLNPSSRTEILHFIDKAKRSHQLPGHLTQEHDAVLSLSAYNVKLAWRDGE
DIILRVPIHDIAAVSYVRDDAAHLVVLKTAQDPGISPSQSLCAESSRGLSAGSLSESAVGPVEACCLVIM
ATESKVAAEELCSLLSQVFQIVYTESTIDFLDRAIFDGASTPTHHLSLHSDDSSTKVDMKDSYDADASTF
CFPDSGDVGGLPPLPFCMQTSPHSKTVSESELSTSATELLQDYMLTLRTKLSSQEIQQFAALLHEYRNGA
SIHEFCISLRQLYGDSRKFLLLGLRPFIPEKDSQHFENFLETIGVKDGRGIITDSFGRHRRALSTTSTST
INGNRTTGSPDDRSAPSEGDEWDRMISDISSDIEALGCSMDQDSA

TRTRPLE - GFP Tag - V

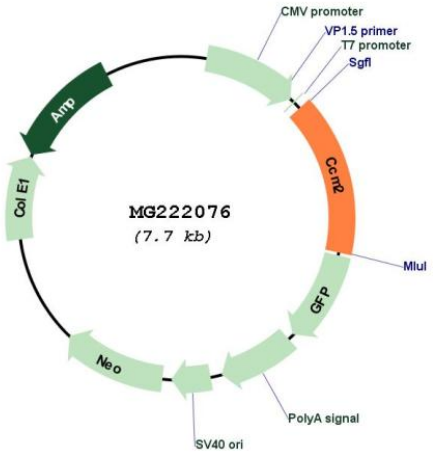
Restriction Sites:

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:	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
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]