

Product datasheet for **MG222077**

Ccm2 (NM_001190344) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ccm2 (NM_001190344) 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: >MG222077 representing NM_001190344
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGAACGAGTATTTAGGTCAGTTAACATCCATTCCCGGCTACCTGAACCCCTCCAGTAGGACGGAAA
 TCCTGCATTTATAGACAAGGCAAAGCGGTCCCACCAGCTTCTGGGCACCTGACTCAGGAGCACGATGC
 TGTGCTCAGTCTGTCTGCCTACAATGTCAAGTTGGCCTGGAGGGACGGGGAGGACATTATCCTCAGGGT
 CCCATCCATGATATCGTGTCTCCTATGTCCGAGATGATGCTGCACACCTGGTGGTCCCTGAAGACAG
 CCCAGGACCCAGGCATCTCTCCAGCCAGAGTCTGTGTGCAGAAAGTTCTAGAGGCCTCAGCGCAGGTT
 CTTGTCAGAAAGTGCAGTGGGGCCAGTAGAGGCATGTTGCCTGGTCATCATGGCCACAGAGCAAGGTC
 GCCGCTGAAGAGTTGTGCTCCCTGCTCAGCCAGGTCTTCCAGATTGTTTACACGGAGTCCACCATCGACT
 TTCTGGACCGAGCAATATTTGATGGGGCTTCCACACCTACCCACCACCTGTCTGCTGCACAGTGTGACTC
 TTCCACGAAAGTGGACATGAAGGACAGTTACGATGCTGACGCCAGCACCTTCTGCTTCCCGGACTCTGGG
 GATGTGGGAGGCCTGCCGCCCTTACCCTTCTGCATGCAGACATCACCCATAGCAAGACTGTGAGTGA
 GCGAGCTGAGCACCAGCGCCACGGAAGTCTGCTGACAGGACTACATGCTCACGTTACGTACGAAGCTGT
 ACAGGAGATCCAGCAGTTCGAGCTCTGCTACATGAGTACCGCAATGGGGCCTCTATCCATGAGTTTTGC
 ATCAGCCTGCGGCAGCTCTATGGGACAGCCGCAAGTTCTGCTACTTGGTCTCAGACCCCTCATACCTG
 AGAAGGACAGTCAGCACTTTGAAAACCTTCTGGAGACCATTGGCGTGAAGACGGCCGTGGCAGCATCAC
 TGACAGCTTTGGTAGGCATCGTGTGCCCTGAGTACCACCTCCACATCCACCATCAATGGAAACAGGACC
 ACAGGCAGCCCTGATGACCGCTCTGCGCCCTCAGAGGGGGATGAGTGGGACCGCATGATTTAGACATCA
 GTAGTGATATTGAAGCGCTAGGCTGCAGCATGGACCAGGACTCAGCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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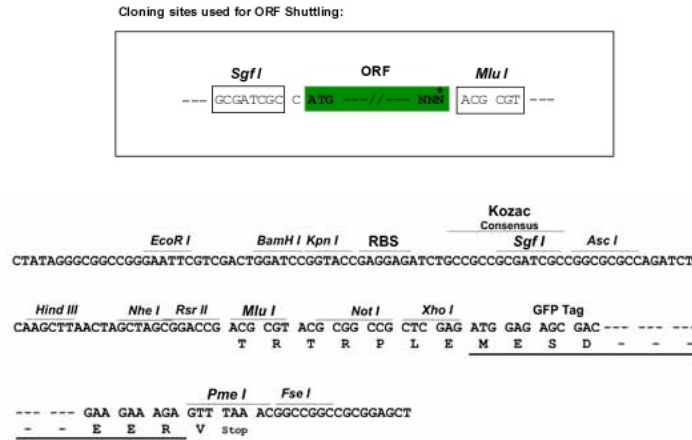
Protein Sequence: >MG222077 representing NM_001190344
 Red=Cloning site Green=Tags(s)

MENEYLGLQLTSIPGYLNPSRTEILHFIDKAKRSHQLPGHLTQEHDVLSLSAYNVKLAWRDGEDIILRV
 PIHDIAAVSYVRDDAAHLVVLKTAQDPGISPSQSLCAESSRGLSAGLSESAVGPVEACCLVIMATESKV
 AAELCSLLSQVFQIVYTEIDFLDRAIFDGASTPTHHL SLHSDDSSTKVDMKDSYDADASTFCFPDSG
 DVGGLPPLPFCMQTSPHSKTVSESELSTASATELLQDYMLTLRKLSSQEIQQFAALLHEYRNGASIHFC
 ISLRQLYGD SRKFLLLGLRPFIPKDSQHFENFLETIGVKDGRGIITDSFGRHRRALSTTSTSTINGNRT
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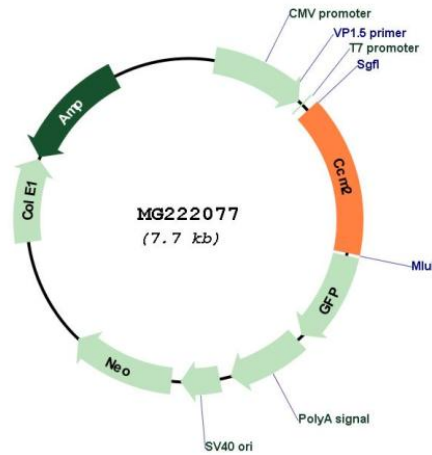
TRTRPLE - GFP Tag - V

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:	<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_001190344.1 , NP_001177273.1
RefSeq Size:	1760 bp
RefSeq ORF:	1170 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]