

Product datasheet for **RG229976**

CCM2 (NM_001167934) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCM2 (NM_001167934) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CCM2
Synonyms:	C7orf22; OSM; PP10187
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG229976 representing NM_001167934 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGAGGAGGGCAAGAAGGGCAAGAAGTATTTAGGTCAGTTAACGTCCATACCAGGATACCTGAATC
CCTCCAGTAGGACTGAAATCCTGCATTTTCATAGACAATGCAAAGAGAGCCACCAGCTTCCGGGACACTT
GACTCAGGAGCACGATGCTGTGCTCAGCCTGTCTGCGTACAACGTCAAGCTGGCCTGGAGGGACGGGGAG
GATATCATCCTCAGGGTGCCATCCATGACATCGCCGCCGTCTCCTATGTTCCGGGATGACGCTGCACACC
TGGTGGTCTGAAGACAGCCAGGACCCAGGGATCTCCCCAGCCAGAGTCTGTGTGCGGAAAGTCCAG
AGGCCTCAGTGCAGGCTCCCTGTGCGGAGAGTGCAGTTGGGCCCGTGGAGGCATGCTGCCTGGTATCCTG
GCTGCAGAGAGCAAGGTCGCTGCGGAGGAGCTTTGCTGTCTGCTAGGCCAGGTCTTCCAGTTGTTTACA
CGGAGTCCACCATCGACTTTCTGGACAGAGCGATATTTGATGGGGCCTCTACCCCGACCCACCACCTGTC
CCTGCACAGCGATGACTCTTCTACAAAAGTGGACATTAAGGAGACCTACGAGGTGGAAGCCAGCACTTTC
TGCTTCCCTGAATCTGTGGATGTGGTGGTGCATACCCACAGCAAGACCATCAGTGAGAGCGAGCTGA
GCGCCAGCGCCACTGAGCTGTGCGAGACTACATGCTGACGCTGCGCACCAAGCTGTGCATCACAGGAGAT
CCAGCAGTTTGCAGCACTGCTGCAGGATACCGCAATGGGGCCTCTATCCAGAGTCTGCATCAACCTG
CGGCAGCTCTACGGGACAGCCGAAGTTCCTGCTGCTTGGTCTGAGGCCCTTCACTCCGAGAAGGACA
GCCAGCACTTCGAGAATTCTGGAGACCATTTGGCGTGAAGGATGGCCCGGCATCATCACTGACAGCTT
TGGCAGGCACCGCGGGCCCTGAGCACCATCCAGTTCCACCACCAATGGGAACAGGGCCACGGGCAGC
TCTGATGACCGGTCCGCACCCTCAGAGGGGGATGAGTGGGACCGCATGATCTCGGACATCAGCAGCGACA
TTGAGGCGCTGGGCTGCAGCATGGACCAGGACTCAGCA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229976 representing NM_001167934
 Red=Cloning site Green=Tags(s)

MEEEGKKGKKYLGLQTSIPGYLNPSSRTEILHFIDNAKRAHQLPGLHTQEHDVAVLSAYNVKLAWRDGE
 DIILRVPIDHIAAVSYVRDAAHLVVLKTAQDPGIPSPQSLCAESSRGLSAGLSESAVGPVEACCLVIL
 AAESKVAEEELCCLLGGVQVYTESTIDFLDRAIFDGAFTPHHLSLHSDSSSTKVDIKETYEVEASTF
 CFPESVDVGGASPHSKTISESELSASATELLQDYMLTLRTKLSSQEIQQFAALLHEYRNGASIHFCINL
 RQLYGDSTRKFLLLGLRPFIPKDSQHFENFLETIGVKDGRGIITDSFGRHRRALSTTSSSTTNGNRATGS
 SDDRSAPSEGDEWDRMISDISSDIEALGCSMDQDSA

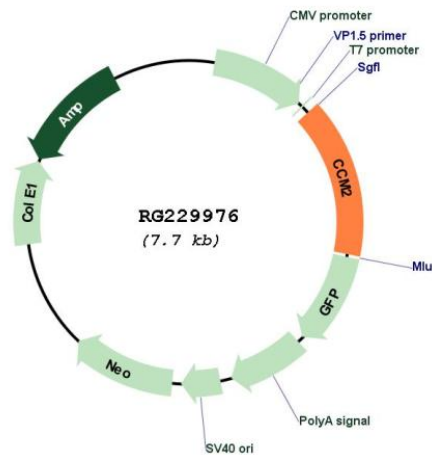
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001167934

ORF Size:	1158 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_001167934.1 , NP_001161406.1
RefSeq Size:	1730 bp
RefSeq ORF:	1161 bp
Locus ID:	83605
UniProt ID:	Q9BSQ5
Cytogenetics:	7p13
Gene Summary:	This gene encodes a scaffold protein that functions in the stress-activated p38 Mitogen-activated protein kinase (MAPK) signaling cascade. The protein interacts with SMAD specific E3 ubiquitin protein ligase 1 (also known as SMURF1) via a phosphotyrosine binding domain to promote RhoA degradation. The protein is required for normal cytoskeletal structure, cell-cell interactions, and lumen formation in endothelial cells. Mutations in this gene result in cerebral cavernous malformations. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Nov 2009]