

Product datasheet for **SC319454**

CCM2 (NM_031443) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCM2 (NM_031443) Human Untagged Clone
Tag:	Tag Free
Symbol:	CCM2
Synonyms:	C7orf22; OSM; PP10187
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_031443.3
 CCCGGGTCGAGCATGTAGCGGCTGCTGGCGGCGGGGCTCCCGGGCGGGCCGGGCGGGCC
 GCGGGAGCCGCACGCGGCGATATGGAAGAGGAGGGCAAGAAGGGCAAGAAGCCTGGAATT
 GTCTCGCCATTTAAACGAGTATTCCTAAAAGGTGAAAAGAGTAGAGATAAGAAAGCCAT
 GAGAAGGTGACAGAGAGGCGCCCTCTGCACACTGTGGTGTGTCATTGCCTGAGCGCGTC
 GAGCCAGACAGACTGCTGAGCGACTATATTGAGAAGGAGGTAAAGTATTTAGGTCAGTTA
 ACGTCCATACCAGGATACCTGAATCCCTCCAGTAGGACTGAAATCCTGCATTTTCATAGAC
 AATGCAAAGAGAGCCACCAGCTTCCGGGACACTTGACTCAGGAGCACGATGCTGTGCTC
 AGCCTGTCTGCGTACAACGTCAAGCTGGCTGGAGGGACGGGAGGATATCATCCTCAGG
 GTGCCATCCATGACATCGCCGCGTCTCCTATGTTTCGGGATGACGCTGCACACCTGGTG
 GTCCTGAAGACAGCCAGGACCCAGGGATCTCCCCAGCCAGAGTCTGTGTGCGGAAAGT
 TCCAGAGGCTCAGTGCAGGCTCCCTGTCGAGAGTGCAGTTGGGCCCGTGGAGGCATGC
 TGCCTGGTCATCCTGGCTGCAGAGCAAGGTGCTGCGGAGGAGCTTTGCTGTCTGCTA
 GGCCAGGCTTCCAGGTTGTTTACACGGAGTCCACCATCGACTTCTGGACAGAGCGATA
 TTTGATGGGGCTCTACCCGACCCACCACCTGTCCCTGCACAGCGATGACTCTTCTACA
 AAAGTGGACATTAAGGAGACCTACGAGGTGGAAGCCAGCACTTTCTGCTTCCCTGAATCT
 GTGGATGTGGTGGTGCATCACCCACAGCAAGACCATCAGTGAGAGCGAGCTGAGCGCC
 AGCGCCACTGAGCTGCTGCAAGACTACATGCTGACGCTGCGCACCAAGCTGTATCACAG
 GAGATCCAGCAGTTTGCAGCACTGCTGCACGAGTACCGCAATGGGGCCTTATCCACGAG
 TTCTGCATCAACCTGCGGCAGCTCTACGGGGACAGCCGAAGTTCCTGCTGCTTGGTCTG
 AGGCCCTTCATCCCTGAGAAGGACAGCCAGCACTTCGAGAACTTCTGGAGACCATTTGGC
 GTGAAGGATGGCCGCGGCATCATCACTGACAGCTTTGGCAGGCACCGGCGGGCCCTGAGC
 ACCACATCCAGTTCACCACCAATGGGAACAGGGCCACGGGCAGCTCTGATGACCGGTCG
 GCACCCTCAGAGGGGATGAGTGGGACCCATGATCTCGGACATCAGCAGCGACATTGAG
 GCGCTGGCTGCAGCATGGACCAGGACTCAGCATGATGGACAGTGGATGGGGGGCACCC
 ACACCTTCCGCGCAGTCGTATAGGCCTTCCCAGAAGGAGCTGCCAGACCTGCGTGTCA
 GCCCTTGGTGGTGGCCAGGGAGAGGCGCCCGGTGCAGATGGCCCCGGGCGGCCAGGTCC
 TCTACTGTGAAGGAGCAGGGAGCTGCCGAGGGACAGGAGCCTCAGTGGGGGTGGAAGGC
 TCTTTGCCTTGTCCACCAGGGCTCAGCCAAGCCCTGCAGTGTGTCCCGCTCGGGGAGGG
 CCCGGCCGAGCGGCAGGGAGAGCCAGTCTGTGCGCTGGGCCCTGGACGGCTGTCAAT
 TTTGCACATGATGTTCTATTGTAACCTCTCAGAGACCTTAAAAAGAAGTTTACTGCAATG
 GAATAATTTAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_031443

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_031443.3](#), [NP_113631.1](#)

RefSeq Size: 1904 bp

RefSeq ORF: 1335 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]

Transcript Variant: This variant (2) represents use of an alternate promoter and 5' UTR and uses a distinct start codon, compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus, compared to isoform 1.