

Product datasheet for **SC328614**

CCM2 (NM_001167934) Human Untagged Clone

Product data:

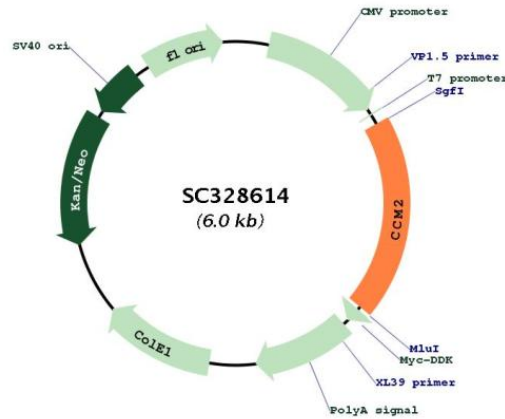
Product Type:	Expression Plasmids
Product Name:	CCM2 (NM_001167934) Human Untagged Clone
Tag:	Tag Free
Symbol:	CCM2
Synonyms:	C7orf22; OSM; PP10187
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC328614 representing NM_001167934. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAAGAGGAGGGCAAGAAGGGCAAGAAGTATTTAGGTCAGTTAACGTCCATACCAGGATACCTGAAT
CCCTCCAGTAGGACTGAAATCCTGCATTTATAGACAATGCAAAGAGAGCCACCAGCTTCCGGGACAC
TTGACTCAGGAGCAGATGCTGTGCTCAGCCTGTCTGCGTACAACGTCAAGCTGGCCTGGAGGGACGGG
GAGGATATCATCCTCAGGGTGCCCATCCATGACATCGCCGCCGCTCCTATGTTCCGGGATGACGCTGCA
CACCTGGTGGTCTGAAGACAGCCAGGACCCAGGGATCTCCCCAGCCAGAGTCTGTGTGCGGAAAGT
TCCAGAGGCCCTCAGTGCAGGCTCCCTGTGCGAGAGTGCAGTTGGGCCCGTGGAGGCATGCTGCCTGGTC
ATCCTGGCTGCAGAGAGCAAGGTCGCTGCGGAGGAGCTTTGCTGTCTGCTAGGCCAGGTCTCCAGGTT
GTTTACACGGAGTCCACCATCGACTTTCTGACAGAGCGATATTTGATGGGGCCTTACCCCGACCCAC
CACCTGTCCCTGCACAGCGATGACTCTTCTACAAAAGTGGACATTAAGGAGACCTACGAGGTGGAAGCC
AGCACTTTCTGCTCCCTGAATCTGTGGATGTGGGTGGTGCATCACCCACAGCAAGACCATCAGTGAG
AGCGAGCTGAGCGCCAGCGCCACTGAGCTGCTGCAGGACTACATGCTGACGCTGCGCACCAAGCTGTCA
TCACAGGAGATCCAGCAGTTTGCAGCACTGCTGCACGAGTACCGAATGGGGCCTCTATCCACGAGTTT
TGCATCAACCTGCGGCAGCTCTACGGGGACAGCCGCAAGTTCTGCTGCTTGGTCTGAGGCCCTTTCATC
CCTGAGAAGGACAGCCAGCACTTCGAGAACTTCTGGAGACCATTGGCGTGAAGGATGGCCGCGGCATC
ATCACTGACAGCTTTGGCAGGCACCGGGCCCTGAGCACCACATCCAGTTCCACCACCAATGGGAAC
AGGGCCACGGGCAGCTCTGATGACCGGTGCGCACCCCTCAGAGGGGATGAGTGGGACCGCATGATCTCG
GACATCAGCAGCGACATTGAGGCGCTGGGCTGCAGCATGGACCAGGACTCAGCATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



[View online »](#)

Plasmid Map:


ACCN: NM_001167934

Insert Size: 1161 bp

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_001167934.1](#)

RefSeq Size: 1730 bp

RefSeq ORF: 1161 bp

Locus ID: 83605

UniProt ID: [Q9BSQ5](#)

Cytogenetics: 7p13

MW: 42.1 kDa

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 (3) represents use of an alternate promoter and 5' UTR, uses a distinct start codon, and lacks an alternate in-frame exon, compared to variant 1. The resulting isoform (3) has a shorter and distinct N-terminus, compared to isoform 1.