

# **Product datasheet for SC328565**

## CCM2 (NM 001167935) Human Untagged Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** CCM2 (NM\_001167935) 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: >SC328565 representing NM\_001167935.

Blue=Insert sequence Red=Cloning site Green=Tag(s)

GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

TGCAGCATGGACCAGGACTCAGCATGA

**ACGCGTACGCGGCCGCTC**GAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT

TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

**Restriction Sites:** Sgfl-Mlul



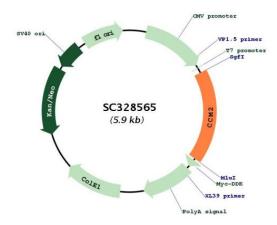
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#### Plasmid Map:



**ACCN:** NM\_001167935

**Insert Size:** 1062 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 001167935.1

RefSeq Size: 1631 bp
RefSeq ORF: 1062 bp
Locus ID: 83605



### CCM2 (NM\_001167935) Human Untagged Clone - SC328565

 UniProt ID:
 Q9BSQ5

 Cytogenetics:
 7p13

 MW:
 39.5 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 (4) represents use of an alternate promoter and 5' UTR, uses a distinct start codon, and lacks two alternate in-frame exons in the central coding region, compared to variant 1. The resulting isoform (4) has a shorter and distinct N-terminus and

lacks an internal segment, compared to isoform 1.