

Product datasheet for RC229927

CCM2 (NM_001167935) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | CCM2 (NM_001167935) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | CCM2 |
| Synonyms: | C7orf22; OSM; PP10187 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC229927 representing NM_001167935 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGAGGAGGGCAAGAAGGGCAAGAAGCCTGGAATTGTCTCGCCATTTAAACGAGTATTCCTAAAAG
GTGAAAAGAGTAGAGATAAGAAAGCCCATGAGAAGGTGACAGAGAGGGCCCTCTGCACACTGTGGTGT
GTCATTGCCTGAGCGCTCGAGCCAGACAGACTGCTGAGCGACTATATTGAGAAGGAGGTAAGTATTTA
GGTCAGTTAACGTCCATACCAGGATACCTGAATCCCTCCAGTAGGACTGAAATCTGCATTTATAGACA
ATGCAAAGAGAGCCACCAGCTTCGGGACACTTGACTCAGGAGCAGATGCTGTGCTCAGCCTGTCTGC
GTACAACGTCAAGCTGGCCTGGAGGGACGGGAGGATATCATCCTCAGGGTGCCCATCCATGACATCGCC
GCCGTCTCCTATGTTTCGGGATGACGCTGCACACCTGGTGGTCTGAAGACAGATGACTCTTCTACAAAAG
TGGACATTAAGGAGACCTACGAGGTGGAAGCCAGCACTTCTGCTTCCCTGAATCTGTGGATGTGGGTGG
TGCATCACCCACAGCAAGACCATCAGTGAGAGCGAGCTGAGCGCCAGCGCCACTGAGCTGCTGCAGGAC
TACATGCTGACGCTGCGCACCAAGCTGTCATCACAGGAGATCCAGCAGTTTGCAGCACTGCTGCACGAGT
ACCGCAATGGGGCCTCTATCCACGAGTTCTGCATCAACCTGCGGCAGCTCTACGGGGACAGCCGCAAGTT
CCTGCTGCTTGGTCTGAGGCCCTCATCCCTGAGAAGGACAGCCAGCACTTCGAGAACTTCTGGAGACC
ATTGGCGTGAAGGATGGCCCGGCATCATCACTGACAGCTTTGGCAGGCACCGGGCCCTGAGCACCA
CATCCAGTTCACACCACCAATGGGAACAGGGCCACGGGCAGCTCTGATGACCGGTCCGGCACCTCAGAGGG
GGATGAGTGGGACCGCATGATCTCGGACATCAGCAGCGACATTGAGGCGCTGGGCTGCAGCATGGACCAG
GACTCAGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC229927 representing NM_001167935
Red=Cloning site Green=Tags(s)

MEEEGKKGKPGIVSPFKRVFLKGEKSRDKKAHEKVTERPLHTVVLSLPERVEPDRLLSDYIEKEVKYL
 GQLTSIPGYLNPSSRTEILHFIDNAKRAHQLPGLHTQEHDVLSL SAYNVKLAWRDGEDILRVPIHDIA
 AVSYVRDDAAHLVVLKTDSSSTKVDIKETYEVEASTFCFPESVDVGGASPHSKTISESELSASATELLQD
 YMLTLRRTLSSQEIQQFAALLHEYRNGASIHFCINLRQLYGD SRKFLLLGLRPF IPEKDSQHFENFLET
 IGVKDGRGIITDSFGRHRRALSTTSSSTTNGNRATGSSDDRSAPSEGDEWDRMISDISSDIEALGCSMDQ
 DSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001167935

ORF Size: 1059 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:

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](#), [NP_001161407.1](#)

RefSeq ORF: 1062 bp

Locus ID: 83605

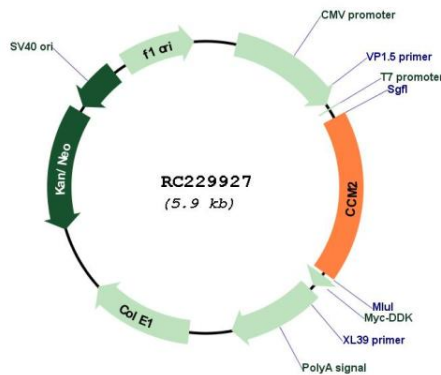
UniProt ID: [Q9BSQ5](#)

Cytogenetics: 7p13

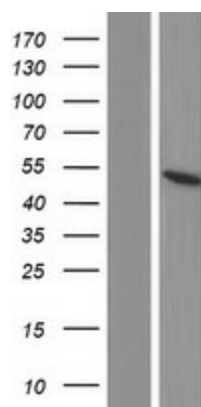
MW: 39.9 kDa

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]

Product images:



Circular map for RC229927



Western blot validation of overexpression lysate (Cat# [LY432927]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229927 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).