

Product datasheet for **RC232506**

Actin Regulatory Protein CAPG (CAPG) (NM_001256140) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Actin Regulatory Protein CAPG (CAPG) (NM_001256140) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CAPG
Synonyms: AFCP; HEL-S-66; MCP
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC232506 representing NM_001256140
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTACACAGCCATTCCCAGAGTGGCTCTCCATTCCCAGGCTCAGTGCAGGATCCAGGCCTGCATGTGT
GGCGGGTGGAGAAGCTGAAGCCGGTGCCTGTGGCGCAAGAGAACCAGGGCGTCTTCTTCGCGGGGACTC
CTACCTAGTGCTGCACAATGGCCAGAAGAGGTTCCCATCTGCACCTGTGGATAGGCCAGCAGTCATCC
CGGGATGAGCAGGGGGCCTGTGCCGTGCTGGCTGTGCACCTCAACACGCTGCTGGGAGAGCGGCCTGTGC
AGCACCGCGAGGTGCAGGGCAATGAGTCTGACCTCTTCATGAGCTACTTCCCACGGGGCCTCAAGTACCA
GGAAGGTGGTGTGGAGTCAGCATTTACAAAGACCTCCACAGGAGCCCCAGCTGCCATCAAGAAACTTAC
CAGGTGAAGGGGAAGAAGAACAATCCGTGCCACCGAGCGGGCACTGAAGTGGGACAGCTTCAACACTGGGG
ACTGCTTCATCCTGGACCTGGGCCAGAACAATCTTCGCCTGGTGTGGTGGAAAGTCCAACATCCTGGAACG
CAACAAGGCGAGGGACCTGGCCCTGGCCATCCGGGACAGTGAGCGACAGGGCAAGGCCAGGTCTGGGC
CCCAAGCCTGCTCTGAAGGAGGGCAACCCTGAGGAAGACCTCACAGCTGACAAGGCAAATGCCAGGCCG
CAGCTCTGTATAAGGTCTCTGATGCCACTGGACAGATGAACCTGACCAAGGTGGCTGACTCCAGCCATT
TGCCCTTGAAGTCTGATATCTGATGACTGCTTTGTGCTGGACAACGGGCTCTGTGGCAAGATCTATATC
TGAAGGGGCGAAAAGCGAATGAGAAGGAGCGGCAGGCAGCCCTGCAGGTGGCCGAGGGCTTCATCTCGC
GCATGCAGTACGCCCGAACACTCAGGTGGAGATTCTGCCTCAGGGCCATGAGAGTCCCATCTTCAAGCA
ATTTTTCAAGGACTGAAA

ACGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC232506 representing NM_001256140
 Red=Cloning site Green=Tags(s)

MYTAIPQSGSPFPGPSVQDPGLHVWRVEKLPVPVAQENQGVFFSGDSYLVLHNGPEEVSHLHLWIGQSS
 RDEQGACAVLAVHLNLTLLGERPVQHREVQGNESDLFMSYFPRGLKYQEGGVESAFHKTSTGAPAAIKKLY
 QVKGKKNIRATERALNWSFNTGDCFILDLGQNIFAWCGGKSNILERNKARDLALAIRDSERQGKAQVLG
 PKPALKEGNPEEDLTADKANAQAAALYKVS DATGQMNLTKVADSSPFALELLISDDCFVL DNLGCGKIYI
 WKGRKANERQAALQVAEGFISRMQYAPNTQVEILPQGHESPIFKQFFKDWK

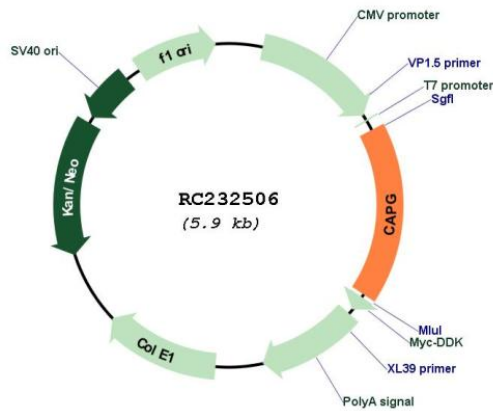
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001256140

ORF Size: 999 bp

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|-------------------------------|--|
| 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_001256140.1 , NP_001243069.1 |
| RefSeq Size: | 1559 bp |
| RefSeq ORF: | 1002 bp |
| Locus ID: | 822 |
| UniProt ID: | P40121 |
| Cytogenetics: | 2p11.2 |
| MW: | 37.3 kDa |
| Gene Summary: | This gene encodes a member of the gelsolin/villin family of actin-regulatory proteins. The encoded protein reversibly blocks the barbed ends of F-actin filaments in a Ca ²⁺ and phosphoinositide-regulated manner, but does not sever preformed actin filaments. By capping the barbed ends of actin filaments, the encoded protein contributes to the control of actin-based motility in non-muscle cells. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Jan 2012] |