

Product datasheet for **SC330374**

Actin Regulatory Protein CAPG (CAPG) (NM_001256140) Human Untagged Clone

Product data:

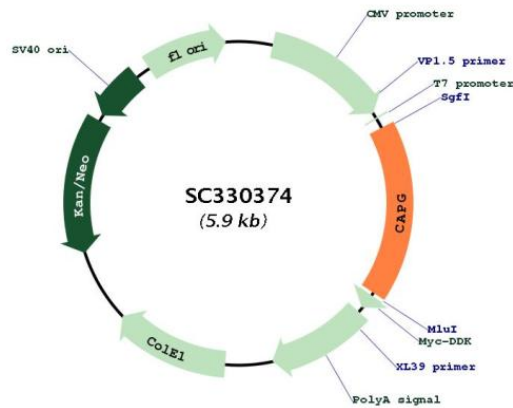
Product Type:	Expression Plasmids
Product Name:	Actin Regulatory Protein CAPG (CAPG) (NM_001256140) Human Untagged Clone
Tag:	Tag Free
Symbol:	CAPG
Synonyms:	AFCP; HEL-S-66; MCP
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC330374 representing NM_001256140. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTACACAGCCATTCCTCCAGAGTGGCTCTCCATTCAGGCTCAGTGCAGGATCCAGGCCATGCATGTG
TGGCGGGTGGAGAAGCTGAAGCCGGTGCCTGTGGCGCAAGAGAACCAGGGCGTCTTCTTCTCGGGGGAC
TCCTACCTAGTGCTGCACAATGGCCAGAAGAGGTTTCCCATCTGCACCTGTGGATAGGCCAGCAGTCA
TCCCGGGATGAGCAGGGGCCTGTGCCGTGCTGGCTGTGCACCTCAACACGCTGCTGGGAGAGCGGCCCT
GTGCAGCACCCGAGGTGCAGGGCAATGAGTCTGACCTTTCATGAGCTACTTCCCACGGGGCCTCAAG
TACCAGGAAGGTGGTGTGGAGTCAGCATTTACAAGACCTCCACAGGAGCCCCAGCTGCCATCAAGAAA
CTCTACCAGGTGAAGGGGAAGAAGAACATCCGTGCCACCGAGCGGGCACTGAACTGGGACAGCTTCAAC
ACTGGGGACTGCTTCATCCTGGACCTGGGCCAGAACATCTTCGCCTGGTGTGGTGGAAAGTCCAACATC
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GTCCTGGGCCCAAGCCTGCTCTGAAGGAGGGCAACCCTGAGGAAGACCTCACAGCTGACAAGGCAAT
GCCAGGCCCGCAGCTCTGTATAAGGTCTCTGATGCCACTGGACAGATGAACCTGACCAAGGTGGCTGAC
TCCAGCCCATTGGCCCTGAACTGCTGATATCTGATGACTGCTTTGTGCTGGACAACGGGCTCTGTGGC
AAGATCTATATCTGGAAGGGCGAAAAGCGAATGAGAAGGAGCGGCAGGCAGCCCTGCAGGTGGCCGAG
GGCTTCATCTCGGCATGCAGTACGCCCGAACACTCAGGTGGAGATTCTGCCTCAGGGCCATGAGAGT
CCCATCTCAAGCAATTTTTCAAGGACTGGAAATGA
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:


ACCN: NM_001256140

Insert Size: 1002 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).

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_001256140.1](https://www.ncbi.nlm.nih.gov/RefSeq/ accession/nm_001256140.1)

RefSeq Size: 1559 bp

RefSeq ORF: 1002 bp

Locus ID: 822

UniProt ID: [P40121](#)

Cytogenetics: 2p11.2

MW: 36.9 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 Ca²⁺ 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]
Transcript Variant: This variant (3) uses an alternate in-frame splice junction compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.