

Product datasheet for **RR209123**

Capg (NM_001013086) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Capg (NM_001013086) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Capg
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR209123 representing NM_001013086
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACACGCCCATCCCTCAGAGTGGCTCTCCATTCCAGCCTCAGTCCAAGACCCAGGCCTACACATAT
GGCGTGTGGAGAAGCTGAAGCCGGTGCCCATAGCACGAGAGAACCATGGCATCTTTTTTCTGGGATTC
CTACCTAGTGCTTCACAATGGCCCGAAGAGGCCCTCCATCTGCACCTGTGGATAGCCAGCAGTCATCG
CGCGATGAGCAGGGGCCCTGCGCTGTGCTAGCTGTGCACCTCAACACCCTGCTGGGGAGCGGCCCTGTGC
AGCACCGTGAGGTTCAAGGGAACGAGTCCGACCTCTTCATGAGCTACTTCCACAAAGGCCTCAAGTATCG
GGAGGGTGGCGTGGAGTCGGCGTTCACAAGACAACCTCGGGCACCAGCCAGCAGCCATCAGGAAGCTC
TACCAGGTTAAGGGGAAGAAGACATCCGTGCGACCGAGAGGGCTCTGAGCTGGGACAGCTTCAACACTG
GGGACTGCTTCATCCTGGACCTGGGTGAGAATCTTTGCCTGGTGTGGTGGCAAGTCCAACATCCTGGA
GCGCAACAAGGCGAGAGACCTGGCCCTGGCCATCCGGGACAGCGAGCGGAGGGGAAGGCCAGGTGGAG
ATCATCACTGACGGAGAGAGCCAGCCGAGATGATCCAGGTTCTGGGCCCAAGCCTGCTCTGAAGGAGG
GCAACCCTGAGGAGGACATTACAGCGGACCAGACCAACGCCAGGCTGCAGCCCTGTATAAGGTCTCTGA
TGCCACTGGACAGATGAATCTGACCAAGGTGGCTGACTCCAGCCGTTTGCTCTGAACTGCTAATTCCA
GATGACTGCTTTGTTCTGGACAACGGGCTATGTGGCAAAATCTACATCTGGAAGGGGAGAAAAGCCAATG
AGAAGGAGCGGCAGGCGCCCTCCAAGTGGCTGATGGCTTCATCTCTCGAATGAGATATCCCAAAACAC
TCAGGTGGAGATTCTGCCCCAGGGCCGAGAGAGTCCCATCTTCAAGCAGTTCTTCAAGGACTGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR209123 representing NM_001013086
 Red=Cloning site Green=Tags(s)

MYTPIPQSGSPFPASVQDPGLHIWRVEKLPVPIARENHGIFSGDSYLVLHNGPEEASHLHLWIGQSS
 RDEQGACAVLAVHLNLTLLGERPVQHREVQGNESDLFMSYFPQGLKYREGGVEAFHKTTSGTTPAIRKL
 YQVKGKKNIRATERALSWSFNLTGDCFLDLGQNIFAWCGGKSNILERNKARDLALAIRDSERQGAQVE
 IITDGEPAEMIQVLGPKPALKEGNPEEDITADQTNAAQAAALYKVS DATGQMNLTKVADSSPFASELLIP
 DDCFVLDNGLCGKIYIWKGRKANERQAALQVADGFISRMRYSPNTQVEILPQGRESPIFKQFFKDWK

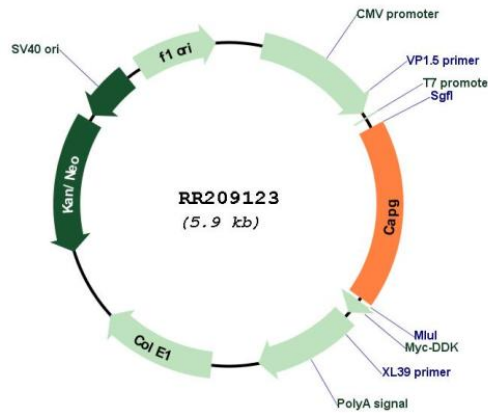
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001013086

ORF Size:	1047 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:	<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_001013086.1 , NP_001013104.1
RefSeq Size:	1500 bp
RefSeq ORF:	1050 bp
Locus ID:	297339
UniProt ID:	Q6AYC4
Cytogenetics:	4q31
MW:	38.8 kDa
Gene Summary:	Calcium-sensitive protein which reversibly blocks the barbed ends of actin filaments but does not sever preformed actin filaments. May play an important role in macrophage function. May play a role in regulating cytoplasmic and/or nuclear structures through potential interactions with actin. May bind DNA. Uncapping occurs either when Ca(2+) falls or when the concentration of polyphosphoinositide rises, both at low and high Ca(2+) (By similarity). [UniProtKB/Swiss-Prot Function]