

Product datasheet for RN209123

Capg (NM_001013086) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Capg (NM_001013086) Rat Untagged Clone
Tag: Tag Free
Symbol: Capg
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN209123 representing NM_001013086
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTACACGCCCATCCCTCAGAGTGGCTCTCCATTCCAGCCTCAGTCCAAGACCCAGGCCTACACATAT
 GGCGTGTGGAGAAGCTGAAGCCGGTGCCCATAGCACGAGAGAACCATGGCATCTTTTTTCTGGGGATTC
 CTACCTAGTGCTTCAACAATGGCCCGAAGAGGCCCTCCATCTGCACCTGTGGATAGCCAGCAGTCATCG
 CGCGATGAGCAGGGGCCCTGCGCTGTGCTAGCTGTGCACCTCAACACCCTGCTGGGGAGCGGCCCTGTGC
 AGCACCGTGAGGTTCAAGGGAACGAGTCCGACCTCTTCATGAGCTACTTCCACAAAGGCCTCAAGTATCG
 GGAGGGTGGCGTGGAGTGGCGTTCACAAGACAACCTCGGGCACCACGCCAGCAGCCATCAGGAAGCTC
 TACCAGGTTAAGGGGAAGAAGACATCCGTGCGACCGAGAGGGCTCTGAGCTGGGACAGCTTCAACACTG
 GGGACTGCTTCATCCTGGACCTGGGTGAGAATCTTTGCCTGGTGTGGTGGCAAGTCCAACATCCTGGA
 GCGCAACAAGGCGAGAGACCTGGCCCTGGCCATCCGGGACAGCGAGCGGCAGGGGAAGGCCAGGTGGAG
 ATCATCACTGACGGAGAGGCCAGCCGAGATGATCCAGGTTCTGGGCCCAAGCCTGCTCTGAAGGAGG
 GCAACCCTGAGGAGGACATTACAGCGGACCAGACCAACGCCAGGCTGCAGCCCTGTATAAGGTCTCTGA
 TGCCACTGGACAGATGAATCTGACCAAGGTGGCTGACTCCAGCCGTTTGCTCTGAACTGCTAATTCCA
 GATGACTGCTTTGTTCTGGACAACGGGCTATGTGGCAAAATCTACATCTGGAAGGGGAGAAAAGCCAATG
 AGAAGGAGCGGCAGGCGGCCCTCCAAGTGGCTGATGGCTTCATCTCTCGAATGAGATATCCCAACAC
 TCAGGTGGAGATTCTGCCCCAGGGCCGAGAGAGTCCCATCTTCAAGCAGTTCTTCAAGGACTGGAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001013086
Insert Size: 1050 bp



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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:	<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:	<u>NM_001013086.1</u> , <u>NP_001013104.1</u>
RefSeq Size:	1500 bp
RefSeq ORF:	1050 bp
Locus ID:	297339
UniProt ID:	<u>Q6AYC4</u>
Cytogenetics:	4q31
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]