EMPOWER YOUR RESEARCH
OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com techsupport@origene.com

## Product datasheet for MC227877

## Cap1 (NM_001301067) Mouse Untagged Clone

## Product data:

Product Type:
Product Name:
Tag:
Symbol:
Vector:
E. coli Selection:

Cell Selection:

Expression Plasmids
Cap1 (NM_001301067) Mouse Untagged Clone
Tag Free
Cap1
pCMV6-Entry (PS100001)
Kanamycin ( $25 \mathrm{ug} / \mathrm{mL}$ )
Neomycin

Fully Sequenced ORF:
>MC227877 representing NM_001301067
Red=Cloning site Blue=ORF Orange=Stop codon
TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC

ATGGCTGACATGCAAAATCTTGTAGAAAGATTGGAGAGGGCAGTGGGCCGCCTGGAGGCAGTGTCACATA CTTCAGACATGCACTGTGGATATGGAGACAGCCCTTCAAAAGGAGCAGTTCCATATGTGCAAGCATTTGA CTCGCTGCTTGCCAATCCCGTGGCAGAGTACTTGAAGATGAGTAAGGAGATCGGGGGAGATGTGCAGAAA CACGCGGAGATGGTCCACACAGGCCTGAAGTTGGAGCGAGCTCTCCTGGCTACAGCTTCTCAGTGCCAGC AGCCAGCTGGTAATAAACTTTCTGATTTGTTGGCACCTATCTCGGAGCAGATCCAAGAAGTTATAACCTT CCGGGAGAAGAACCGAGGCAGCAAGTTTTTTAATCATCTATCTGCTGTCAGTGAAAGCATCCAGGCCTTG GGCTGGGTGGCTCTGGCTGCGAAACCTGGCCCCTTTGTGAAAGAGATGAATGACGCGGCCATGTTTTACA CAAATCGTGTCCTCAAGGAGTACAGAGATGTGGATAAGAAGCATGTGGACTGGGTCAGAGCTTACTTGAG TATATGGACGGAGCTGCAGGCTTACATCAAGGAGTTTCATACTACTGGCCTGGCCTGGAGCAAGACGGGG CCTGTGGCAAAAGAACTGAGTGGATTGCCATCTGGACCCTCTGTGGGATCAGGCCCACCTCCTCCCCCAC CGGGCCCGCCTCCTCCCCCAATCTCTACCAGTTCTGGTTCTGACGACTCTGCATCACGCTCAGCACTGTT TGCACAGATTAATCAGGGGGAAAGCATCACACATGCCCTGAAACATGTATCTGATGACATGAAGACTCAC AAGAACCCTGCCCTGAAAGCTCAGAGTGGTCCAGTTCGGAGTGGCCCCAAACCATTCTCTGCACCTAAAC CCCAAACTAGCCCCTCCCCCAAACCAGCCACAAAGAAGGAACCAGCTCTGCTGGAACTGGAAGGCAAGAA ATGGAGAGTGGAAAACCAGGAGAATGTTTCCAACCTGGTGATCGATGACACTGAGCTGAAGCAGGTGGCT TACATCTACAAGTGTGTCAACACAACATTGCAAATCAAGGGCAAAATTAACTCCATTACAGTAGATAACT GTAAGAAGCTTGGCCTGGTGTTTGATGACGTGGTGGGCATTGTGGAGATAATCAATAGTAGGGATGTCAA AGTTCAGGTGATGGGAAAAGTGCCAACCATTTCCATTAACAAAACAGATGGCTGCCATGCTTACCTGAGC AAGAACTCCCTGGACTGTGAGATAGTCAGTGCCAAATCTTCTGAGATGAATGTCCTCATTCCTACCGAAG GCGGTGATTTTTAACGAGTTCCCAGTCCCCGAGCAGTTCAAGACCCTGTGGAACGGACAGAAGTTGGTCAC CACAGTGACAGAAATCGCTGGATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

## Restriction Sites:

Sgfl-Mlul

## ACCN:

Insert Size:
OTI Disclaimer:

## OTI Annotation:

## Components:

NM_001301067
1425 bp
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).
Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10 ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

| Reconstitution Method: | 1. Centrifuge at $5,000 \times \mathrm{g}$ for 5 min . <br> 2. Carefully open the tube and add 100 ul of sterile water to dissolve the DNA. <br> 3. Close the tube and incubate for 10 minutes at room temperature. <br> 4. Briefly vortex the tube and then do a quick spin (less than 5000 xg ) to concentrate the liquid at the bottom. <br> 5. Store the suspended plasmid at $-20^{\circ} \mathrm{C}$. The DNA is stable for at least one year from date of shipping when stored at $-20^{\circ} \mathrm{C}$. |
| :---: | :---: |
| RefSeq: | NM 001301067.1 NP 001287996.1 |
| RefSeq Size: | 2765 bp |
| RefSeq ORF: | 1425 bp |
| Locus ID: | 12331 |
| UniProt ID: | P40124 |
| Cytogenetics: | 4 D2.2 |
| Gene Summary: | The product of this gene plays a role in regulating actin dynamics by binding actin monomers and promoting the turnover of actin filaments. Reduced expression of this gene causes a reduction in actin filament turnover rates, causing multiple defects, including an increase in cell size, stress-fiber alterations, and defects in endocytosis and cell motility. A pseudogene of this gene is found on chromosome 14. Alternative splicing results in multiple transcript variants, but does not affect the protein. [provided by RefSeq, Jul 2014] <br> Transcript Variant: This variant (1) encodes a 474 aa protein. Variants 1-4 all encode the same protein. |

