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
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR230088

Cap1 (NM_001301067) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cap1 (NM_001301067) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cap1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>MR230088 representing NM_001301067
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGACATGCAAAATCTTGTAGAAAGATTGGAGAGGGCAGTGGGCCGCCTGGAGGCAGTGTCACATA
CTTCAGACATGCACTGTGGATATGGAGACAGCCCTTCAAAAGGAGCAGTTCCATATGTGCAAGCATTTGA
CTCGCTGCTTGCCAATCCCGTGGCAGAGTACTTGAAGATGAGTAAGGAGATCGGGGGAGATGTGCAGAAA
CACGCGGAGATGGTCCACACAGGCCTGAAGTTGGAGCGAGCTCTCCTGGCTACAGCTTCTCAGTGCCAGC
AGCCAGCTGGTAATAAACTTTCTGATTTGTTGGCACCTATCTCGGAGCAGATCCAAGAAGTTATAACCTT
CCGGGAGAAGAACCGAGGCAGCAAGTTTTTTAATCATCTATCTGCTGTCAGTGAAAGCATCCAGGCCTTG
GGCTGGGTGGCTCTGGCTGCGAAACCTGGCCCCTTTGTGAAAGAGATGAATGACGCGGCCATGTTTTACA
CAAATCGTGTCCTCAAGGAGTACAGAGATGTGGATAAGAAGCATGTGGACTGGGTCAGAGCTTACTTGAG
TATATGGACGGAGCTGCAGGCTTACATCAAGGAGTTTCATACTACTGGCCTGGCCTGGAGCAAGACGGGG
CCTGTGGCAAAAGAACTGAGTGGATTGCCATCTGGACCCTCTGTGGGATCAGGCCCACCTCCTCCCCCAC
CGGGCCCGCCTCCTCCCCCAATTCCTACCAGTTCTGGTTCTGACGACTCTGCATCACGCTCAGCACTGTT
TGCACAGATTAATCAGGGGGAAAGCATCACACATGCCCTGAAACATGTATCTGATGACATGAAGACTCAC
AAGAACCCTGCCCTGAAAGCTCAGAGCGGTCCAGTTCGGAGTGGCCCCAAACCATTCTCTGCACCTAAAC
CCCAAACTAGCCCCTCCCCCAAACCAGCCACAAAGAAGGAACCAGCTCTGCTGGAACTGGAAGGCAAGAA
ATGGAGAGTGGAAAACCAGGAGAATGTTTCTAACCTGGTGATTGATGACACTGAGCTGAAGCAGGTGGCT
TACATCTACAAGTGTGTCAACACAACATTGCAAATCAAGGGCAAAATTAACTCCATTACAGTAGATAACT
GTAAGAAGCTTGGCCTGGTGTTTGATGACGTGGTGGGCATTGTGGAGATAATCAATAGTAGGGATGTCAA
AGTTCAGGTGATGGGAAAAGTGCCAACCATTTCCATTAACAAAACAGATGGCTGCCATGCTTACCTGAGC
AAGAACTCCCTGGACTGTGAGATAGTCAGTGCCAAATCTTCTGAGATGAATGTCCTCATTCCTACCGAAG
GCGGTGATTTTAACGAGTTCCCAGTCCCCGAGCAGTTCAAGACCCTGTGGAACGGACAGAAGTTGGTCAC
CACAGTGACAGAAATCGCTGGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230088 representing NM_001301067
Red=Cloning site Green=Tags(s)

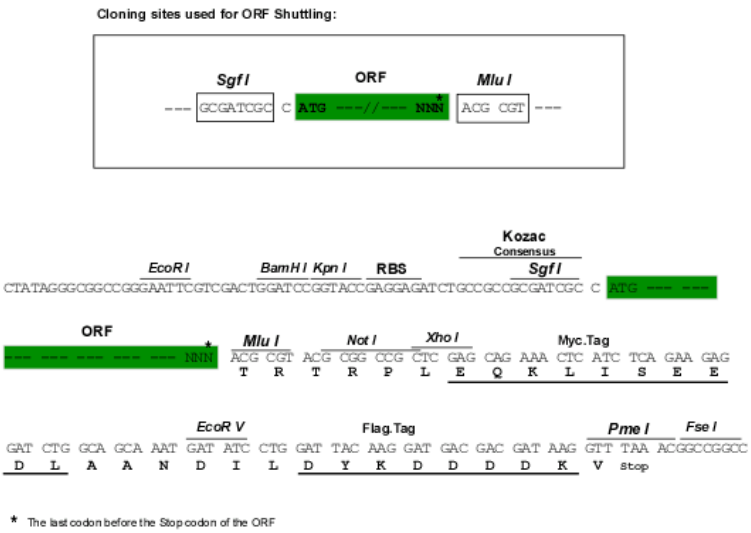
MADMQNLVERLERAVGRLEAVSHTSDMHCGYGDSPSKGAVPYVQAFDSLLANPVAEYLKMSKEIGGDVQK
HAEMVHTGLKLERALLATASQCQQPAGNKLSDLLAPISEQIQEVITFREKNRGSKFFNHLSAVSESIQAL
GWVALAAKPGPFVKEMNDAAMFYTNRVLKEYRDVDKKHVDWVRAYLSIWTELQAYIKEFHTTGLAWSKTG
PVAKELSGLPSGPSVGSGPPPPPPGPPPPPIPTSSGSDDSASRSALFAQINQGESITHALKHVSDDMKTH
KNPALKAQSGPVRSGPKPFSAPKPQTSPSPKPATKKEPALLELEGKKWRVENQENVSNLVIDDTELKQVA
YIYKCVNTTLQIKGKINSITVDNCKKLGLVFDDVVGIVEIINSRDVKVQVMGKVPTISINKTDGCHAYLS
KNSLDCEIVSAKSSEMNVLIPTEGGDFNEFPVPEQFKTLWNGQKLVTTVTEIAG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001301067

ORF Size: 1422 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:
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_001301067.1, NP_001287996.1

RefSeq Size: 2765 bp

RefSeq ORF: 1425 bp

Locus ID: 12331

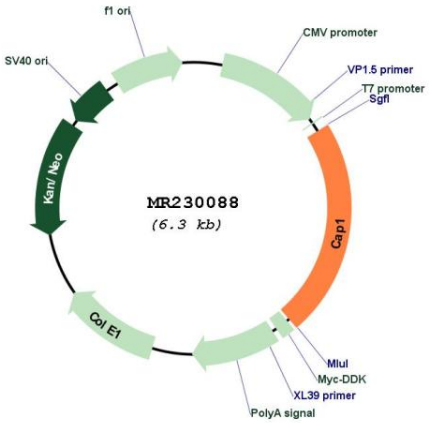
UniProt ID: P40124

Cytogenetics: 4 D2.2

MW: 51.6 kDa

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]

Product images:



Circular map for MR230088