

Product datasheet for **MG207594**

Cap1 (BC005446) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cap1 (BC005446) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cap1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207594 representing BC005446
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGACATGCAAAATCTTGTAGAAAGATTGGAGAGGGCAGTGGGCCGCTGGAGGCAGTGTACATA
 CTTCAGACATGCACTGTGGATATGGAGACAGCCCTTCAAAGGAGCAGTTCCATATGTGCAAGCATTTGA
 CTCGCTGCTTGCCAATCCCGTGGCAGAGTACTTGAAGTAGTAAGGAGATCGGGGGAGATGTGCAGAAA
 CACGCGGAGATGGTCCACACAGGCCTGAAGTTGGAGCGAGCTCTCCTGGTACAGCTTCTCAGTGCCAGC
 AGCCAGCTGGTAATAAATTTCTGATTTGTTGGCACCTATCTCGGAGCAGATCCAAGAAGTTATAACCTT
 CCGGGAGAAGAACCAGGAGCAGCAAGTTTTTTAATCATCTATCTGCTGTCAGTGAAAGCATCCAGGCCTT
 GGCTGGTGGCTCTGGCTGCGAAACCTGGCCCTTTGTGAAAGAGATGAATGACGCGGCCATGTTTTACA
 CAAATCGTGTCTCAAGGAGTACAGAGATGTGGATAAGAAGCATGTGGACTGGTCCAGAGCTTACTTGAG
 TATATGGACGGAGCTGCAGGCTTACATCAAGGAGTTTCATACTACTGGCCTGGCCTGGAGCAAGACGGGG
 CCTGTGGCAAAAGAACTGAGTGGATTGCCATCTGGACCCTCTGTGGGATCAGGCCACCTCTCCCCAC
 CGGGCCCGCTCCTCCCCAATTCTACCAGTTCTGGTCTGACGACTCTGCATCACGCTCAGCACTGTT
 TGCACAGATTAATCAGGGGAAAGCATCACATGCCCTGAAACATGTATCTGATGACATGAAGACTCAC
 AAGAACCCTGCCCTGAAAGCTCAGAGCGGTCCAGTTCCGAGTGGCCCAAACCATCTCTGCACCTAAAC
 CCCAACTAGCCCTCCCCAAACCAGCCACAAAGAAGGAACCAGCTCTGCTGGAAGTGGAAAGGCAAGAA
 ATGGAGAGTGGAAACCAGGAGAATGTTTCAACCTGGTATTGATGACACTGAGCTGAAGCAGGTGGCT
 TACATCTACAAGTGTGTCAACACAACATTGCAAATCAAGGGCAAAATTAACCTCATTACAGTAGATAACT
 GTAAGAAGCTTGGCTGGTGTGTTGATGACGTGGTGGCATTGTGGAGATAATCAATAGTGGGATGTCAA
 AGTTCAAGGTGATGGGAAAAGTGCCAACCATTTCCATTAACAAAACAGATGGCTGCCATGCTTACCTGAGC
 AAGAACCCTCGACTGTGAGATAGTCAGTGCCAAATCTCTGAGATGAATGTCCCTATTCTACCGAAG
 GCGGTGATTTAACGAGTCCAGTCCCGAGCAGTTCAGACCCCTGTGGAACGGACAGAAGTTGGTCCAC
 CACAGTGACAGAAATCGCTGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207594 representing BC005446
 Red=Cloning site Green=Tags(s)

MADMQNLVERLERAVGRLEAVSHTSDMHCGYGDSPSKGAVPYVQAFDSSLANPVAEYLKMSKEIGGDVQK
 HAEMVHTGLKLERALLATASQCQPAGNKLSDLLAPISEIQIEVITFREKNRGSKFFNHL SAVSESIQAL
 GWVALAAKPGPFVKEMNDAAMFYTNRVLKEYRDVKKHVDWVRAYLSIWTELQAYIKEFHHTGLAWSKTG
 PVAKELSGLPSPGSPVSGSPPPPPPPPPPIPTSSGSDSASRSALFAQINQGESITHALKHVSDDMKTH
 KNPALKAQSGPVRSGPKPFSAPKPQTSPPKPKKEPALLELEGKKWRVENQENVSNLVIDDTELKQVA
 YIYKCVNTTLQIKGKINSITVDNCKKLGTVFDDVVGIVEIINSRDVKVQVMGKVPTISINKTDGCHAYLS
 KNSLDCEIVSAKSSEMNVLIPTGGDFNEFPVPEQFKTLWNGQKLVTTVTEIAG

TRTRPLE - GFP Tag - V

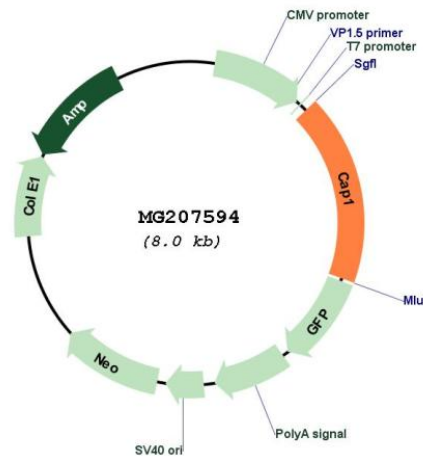
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: BC005446

ORF Size: 1424 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: [BC005446](#), [AAH05446](#)

RefSeq Size: 2543 bp

RefSeq ORF: 1424 bp

Locus ID: 12331

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]