

Product datasheet for **MC205632**

Cap1 (NM_007598) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cap1 (NM_007598) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cap1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC005446
 CCCACGCGTCCGGGAACCTTAAGCAGGTGGAACATTATGGCTGACATGCAAAATCTTGTAGAAAGATTG
 GAGAGGGCAGTGGGCCGCTGGAGGCAGTGTACATACTTCAGACATGCACTGTGGATATGGAGACAGCC
 CTTCAAAGGAGCAGTCCATATGTGCAAGCATTGACTCGTGTGTTGCCAATCCCGTGGCAGAGTACTT
 GAAGATGAGTAAGGAGATCGGGGAGATGTGCAGAAACACGCGGAGATGGTCCACACAGGCCTGAAGTTG
 GAGCGAGCTCTCCTGGCTACAGTTCTCAGTGCCAGCAGCCAGCTGGTAATAAACTTTCTGATTTGTTGG
 CACCTATCTCGGAGCAGATCCAAGAAGTTATAACCTTCCGGGAGAAGAACCAGGCAGCAAGTTTTTTAA
 TCATCTATCTGCTGTCAGTGAAAGCATCCAGGCCCTGGGCTGGGTGGCTCTGGCTGCGAAAACCTGGCCCC
 TTTGTGAAAGAGATGAATGACGCGGCCATGTTTTACACAATCGTGTCTCAAGGAGTACAGAGATGTGG
 ATAAGAAGCATGTGGACTGGGTGAGAGCTTACTTGAGTATATGGACGGAGCTGCAGGCTTACATCAAGGA
 GTTTCATACTACTGGCCTGGCCTGGAGCAAGACGGGGCCTGTGGCAAAAGAACTGAGTGGATTGCCATCT
 GGACCCTCTGTGGGATCAGGCCACCTCCTCCCCACCGGGCCCGCCTCCTCCCCAATTCTACCAGTT
 CTGGTTCTGACGACTCTGCATCACGCTCAGCACTGTTTGCACAGATTAATCAGGGGAAAGCATCACACA
 TGCCCTGAAACATGTATCTGATGACATGAAGACTACAAGAACCCTGCCCTGAAAGCTCAGAGCGGTCCA
 GTTCGGAGTGGCCCCAAACCATTCTCTGCACCTAAACCCAAACTAGCCCCTCCCCAAACCAGCCACAA
 AGAAGGAACCAGCTCTGCTGAACTGGAAGCAAGAAATGGAGAGTGGAAAACCAGGAGAATGTTTCTAA
 CCTGGTGATTGATGACACTGAGCTGAAGCAGGTGGCTTACATCTACAAGTGTGTCAACACAACATTGCAA
 ATCAAGGGCAAAATTAACCTCATTACAGTAGATAACTGTAAAGAAGCTTGGCCTGGTGTGATGACGTGG
 TGGGCATTGTGGAGATAATCAATAGTAGGGATGTCAAAGTTCAAGTGTGGGAAAAGTGCCAACCATTTT
 CATTAACAAAACAGATGGCTGCCATGCTTACCTGAGCAAGAACTCCCTGGACTGTGAGATAGTCAAGTCC
 AAATCTTCTGAGATGAATGTCCTCATTCTACCGAAGGCGGTGATTTTAAACGAGTCCCAGTCCCCGAGC
 AGTTCAGAACCTGTGGAACGGACAGAAGTTGGTCACCACAGTGCAGAAAATCGCTGGATAAGCAAATAC
 ATGGGCTCTGTGCCCTCCTCCTTACACCATGGGATACATCTGTATGGAGACGGTCTTTTCTAGATTTT
 CTCTACCTTTCTGCTTTAAACTGCTTCTCTGCTCTGAGAAGCCAGCTACCTGCCTTCACTGAAATATA
 CCTCAGGCTGAGACGGGCGGACAGCAGGTCAAGTGGATCTTACCAGGAAAGTGCAGCTTCTCGGCATCAG
 CGCAGCTGCACCACAGGCTGAGCTTACAGAGCTTACAGGCCAGACTGGGGCACCGAAGCTTTCAGCTTTG
 GGGGTCATTCTACCAACAATCAGTCCCTGAGGGTTCACAACACCTTGAACCAACATCAGAATGCACAC
 TATTCTCCTAACAGTGAAGTGGGGGAGGAGCCAGGGAGTCTGTTAGGTTCTAACCACTAGTTTTT
 ATTGTTGACAAGTGAAGCCAGGCTTCCACTCGACCAAAAGCTAAGGATTGCCACCCAGCATTCCAAGCAG
 ACTTGTTCCTAAAAGCATCCTTATCTGCATTCCATCCTGGGTGAGCATCAACCACAACATAGCAGGCG
 TTCCTTGCAGCTGCAGTACAGTACAGTGTCTTTTCTGAGGAAGGAAGTCTTAAACCCTTCCCCCA
 CCCCTGGGATGACTGCCTTATTCCCATGGGGAACAACCTTAAAGAAAACCACACAGCATTCCAAGGA
 GTCTGGGCTTCTCCTCCTGCCAGATGACTGTCAATTGCCTCCTCCTCACCTTCTGCTTGTCACTCGGCA
 GCTTAGGGCTCTGCGCAGGAACCTGACTAGGACTATGACCTCCACGGCGGCTGTTTAGGCTCAGCTTA
 CATCAGAACTTGCACAGCATTGCAAAATCCCAGTGTCTCCTCTAGGACACACTGACCAAAATATGCAAC
 CTTTCTTTCTTTTTTTTTTTTTTTGGTGGGAAAAGAGGAAGAAAGATTGCTCTGTGACTTCTGCCCAT
 TACCTGAGGCTGTGAAATAAACCTTTATGACTTAAATATACAGAAAATAGAATAAAGTTAATACC
 AAACCTGAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_007598

Insert Size: 1425 bp

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:

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: 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]
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1-4 all encode the same protein.