

Product datasheet for **MR207594**

Cap1 (NM_007598) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cap1 (NM_007598) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cap1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207594 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGACATGCAAAATCTTGTAGAAAGATTGGAGAGGGCAGTGGGCCGCTGGAGGCAGTGTACATA
 CTTAGACATGCACTGTGGATATGGAGACAGCCCTTCAAAGGAGCAGTCCATATGTGCAAGCATTGGA
 CTCGCTGCTTGCCAATCCCGTGGCAGAGTACTTGAAGTAGTAAGGAGATCGGGGGAGATGTGCAGAAA
 CACGCGGAGATGGTCCACACAGGCCTGAAGTTGGAGCGAGCTCTCCTGGCTACAGCTTCTCAGTGCCAGC
 AGCCAGCTGGTAATAAACTTTCTGATTTGTTGGCACCTATCTCGGAGCAGATCCAAGAAGTTATAACCTT
 CCGGGAGAAGAACCAGGAGCAGCAAGTTTTTAAATCATCTATCTGCTGTCAGTGAAGCATCCAGGCCTTG
 GGCTGGTGGCTCTGGCTGCGAAACCTGGCCCTTTGTGAAAGAGATGAATGACGCGGCCATGTTTTACA
 CAAATCGTGTCTCAAGGAGTACAGAGATGTGGATAAGAAGCATGTGGACTGGGTGAGAGCTTACTTGAG
 TATATGGACGGAGCTGCAGGCTTACATCAAGGAGTTTCATACTACTGGCCTGGCCTGGAGCAAGACGGGG
 CCTGTGGCAAAAGAACTGAGTGGATTGCCATCTGGACCTCTGTGGGATCAGGCCACCTCTCCCCAC
 CGGGCCCGCTCCTCCCCAATTCTACAGTCTGGTCTGACGACTCTGCATCACGCTCAGCACTGTT
 TGCACAGATTAATCAGGGGAAAGCATCACATGCCCTGAAACATGTATCTGATGACATGAAGACTCAC
 AAGAACCCTGCCCTGAAAGCTCAGAGCGGTCCAGTTCGGAGTGGCCCAAACCATCTCTGCACCTAAAC
 CCCAACTAGCCCTCCCCAAACCAGCCACAAAGAAGGAACCAGCTCTGCTGGAAGTGAAGGCAAGAA
 ATGGAGAGTGGAAAACCAGGAGAATGTTTCAACCTGGTATTGATGACACTGAGCTGAAGCAGGTGGCT
 TACATCTACAAGTGTGTAACACAACATTGCAAATCAAGGGCAAAATTAACCTCATTACAGTAGATAACT
 GTAAGAAGCTTGGCCTGGTGTGATGACGTGGTGGCATTGTGGAGATAATCAATAGTAGGGATGTCAA
 AGTTGAGGTGATGGGAAAAGTGCCAACCATTTCCATTAACAAAACAGATGGCTGCCATGCTTACCTGAGC
 AAGAACCCTCGACTGTGAGATAGTCAGTGCCAAATCTCTGAGATGAATGTCTCATTCTACCGAAG
 GCGGTGATTTAACGAGTCCAGTCCCGAGCAGTTCAGACCTGTGGAACGGACAGAAGTTGCTCAC
 CACAGTGACAGAAATCGCTGGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207594 protein sequence
 Red=Cloning site Green=Tags(s)

MADMQNLVERLERAVGRLEAVSHTSDMHCGYGDSPSKGAVPYVQAFDSSLANPVAEYLKMSKEIGGDVQK
 HAEMVHTGLKLERALLATASQCQPAGNKLSDLLAPISEIQEIVITFREKNRGSKFFNHL SAVSESIQAL
 GWVALAAKPGPFVKEMNDAAMFYTNRVLKEYRDVDKHHVDWVRAYLSIWTELQAYIKEFHHTGLAWSKTG
 PVAKELSGLPSPGSPVSGSPPPPPPPPPPIPTSSGSDSASRSALFAQINQGESITHALKHVSDDMKTH
 KNPALKAQSGPVRSGPKPFSAPKPQTSPPKPKKEPALLELEGKKWRVENQENVSNLVIDDTELKQVA
 YIYKCVNTTLQIKGKINSITVDNCKKLGTVFDDVVGIVEIINSRDVKVQVMGKVPTISINKTDGCHAYLS
 KNSLDCEIVSAKSSSEMNVLIPTEGGDFNEFPVPEQFKTLWNGQKLVTTVTEIAG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_007598

ORF Size: 1425 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_007598.2](#)

RefSeq Size: 2749 bp

RefSeq ORF: 1425 bp

Locus ID: 12331

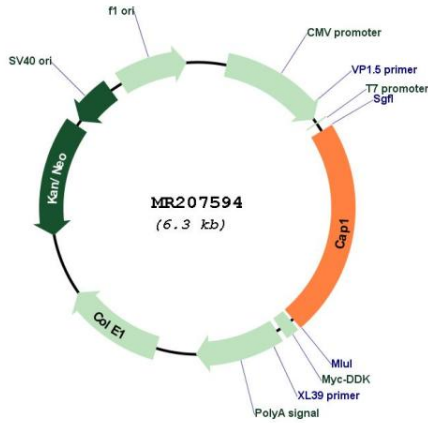
UniProt ID: [P40124](#)

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 MR207594