

Product datasheet for **RR201132**

Capzb (NM_001005903) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Capzb (NM_001005903) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Capzb
Synonyms:	MGC95097
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR201132 representing NM_001005903 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGATCAGCAGCTGGACTGCGCCTTGGACCTGATGAGGCGCCTGCCTCCACAGCAGATTGAGAAA
ACCTCAGCGATCTGATCGACCTGGTCCCAGTCTGTGTGAAGATCTCCTGTCTTCTGTTGACCAGCCCT
GAAAATTGCCAGAGACAAGGTGGTGGGCAAGGACTACCTTTTGTGTGACTACAACAGAGACGGGGACTCC
TATAGGTACCATGGAGTAACAAGTATGACCCTCCTTTGGAAGATGGGGCCATGCCATCTGCTCGGCTCA
GAAAGCTGGAGGTAGAGGCCAACAAATGCCTTCGACCAATACCGAGACCTGTATTTTGAAGGTGGTGTCTC
ATCAGTCTACCTCTGGATCTCGATCATGGCTTTGCTGGAGTGATCCTCATAAAGAAGGCTGGGGATGGA
TCAAAGAAGATCAAAGGCTGCTGGGATTCCATCCACGTGGTGGAAAGTGCAAGGAGAAGTCCAGTGGCCGTA
CTGCCATTACAAGTTGACCTCCACAGTGATGCTATGGCTGCAAACCAACAAATCCGGCTCAGGCACCAT
GAACCTGGGAGGCAGCCTAACCCAGACAGATGGAGAAGGACGAACTGTGAGTGACTGTTCCCCACACATA
GCCAACATTGGGCGCCTGGTGGAGGACATGAAAAACAAATCAGAAGCAGCTGAATGAGATCTACTTTG
GAAAAACAAAGGACATCGTCAACGGGCTGAGGTCTGTGCAGACGTTTGCAGACAAATCAAAGCAGGAAGC
CCTTAAGAATGACCTGGTGAAGCCTTGAAGAGAAAGCAGCAGTGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR201132 representing NM_001005903
 Red=Cloning site Green=Tags(s)

MSDQQLDCALDLMRRLPPQQIEKNLSIDLVPSLCEDLLSSVDQPLKIARDKVVGKDYLLCDYNRDGDS
 YRSPWSNKYDPPLEDGAMP SARLRKLEVEANNAFDQYRDLYFEGGVSSVYLWLDHGFAGVILIKKAGDG
 SKKIKGCWDSIHVVEVQEKSSGRTAHYKLTSTVMLWLQTNKSGSGTMNLGGSLTRQMEKDETVSDCSPHI
 ANIGRLVEDMENKIRSTLNEIYFGKTKDIVNGLRSVQTFADKSKQEALKNDLVEALKRKQQC

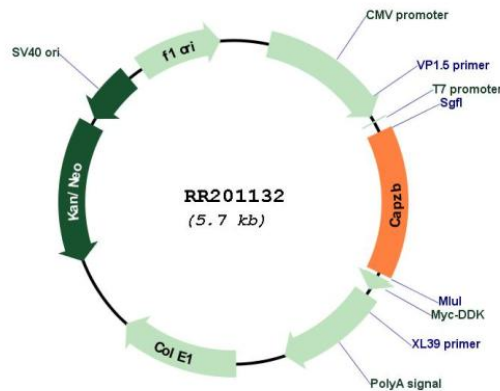
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001005903
 ORF Size: 816 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:	<ol style="list-style-type: none">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_001005903.1 , NP_001005903.1
RefSeq Size:	1662 bp
RefSeq ORF:	819 bp
Locus ID:	298584
UniProt ID:	Q5XI32
Cytogenetics:	5q36
MW:	30.6 kDa
Gene Summary:	F-actin-capping proteins bind in a Ca(2+)-independent manner to the fast growing ends of actin filaments (barbed end) thereby blocking the exchange of subunits at these ends. Unlike other capping proteins (such as gelsolin and severin), these proteins do not sever actin filaments. Plays a role in the regulation of cell morphology and cytoskeletal organization (By similarity).[UniProtKB/Swiss-Prot Function]