

Product datasheet for MR229106

Capzb (NM_001271405) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Capzb (NM_001271405) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Capzb
Synonyms:	1700120C01Rik; AI325129; Cap; Cappb1; CPB; CPB1; CPB2; CPbeat2; CPbet; CPbeta1; CPbeta2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229106 representing NM_001271405 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCATCCTAGCAGGCGCAGCCTTCCTTTCCCCCTGAACTGTGAGCTTGTAGAGTTGGGACTGCTGATT
ATGGAGGTGCCTCGGAGCAGAGCGATCAGCAGCTGGACTGCGCCTTGGACCTGATGAGGCGCCTGCCTCC
ACAGCAGATTGAGAAGAACCCTCAGCGATCTGATCGACCTGGTCCCAGTCTGTGTGAAGATCTCCTGTCA
TCTGTTGACCAGCCCCTGAAAATTGCCAGAGACAAGGTGGTGGCAAGGATTACCTTTTGTGTGACTACA
ACAGAGACGGGGACTCCTATAGGTCACCGTGGAGTAACAAGTATGACCCTCCTTTGGAAGATGGGGCCAT
GCCATCTGCTCGGCTCAGAAAGCTGGAGGTAGAGGCCAACAAATGCCTTCGACCAATACCGAGACCTGTAT
TTTGAAGTGGGGTCTCATCAGTCTACCTCTGGGATCTTGATCATGGCTTTGCTGGAGTGATCCTCATAA
AGAAAGCTGGAGATGGATCCAAGAAGATCAAAGGCTGCTGGGATTCCATCCACGTGGTGGAAAGTGCAGGA
GAAGTCCAGCGGCCGACTGCCATTACAAGTTGACCTCCACGGTGTGCTATGGCTGCAAACCAACAAA
TCCGGCTCGGGCACCATGAACCTGGGAGGCAGCCTAACCCAGACAGATGGAGAAAGACGAAACTGTGAGTG
ACTGTTCCCCACACATAGCCAACATCGGGCGCCTGGTGGAGGACATGGAAAACAAAATCCGAAGCAGCGCT
GAATGAGATCTACTTTGGAAAAACAAGGACATCGTCAACGGGCTGAGGTCTGTGCAGACGTTTGCAGAC
AAATCAAAGCAAGAAGCGCTTAAGAACGACCTGGTGGAGGCCTTGAAGAGAAAGCAGCAGTGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229106 representing NM_001271405
 Red=Cloning site Green=Tags(s)

MHPSRRSLPFPLNCQLVRVGTADYGGASEQSDQQLDCALDLMRRLPPQQIEKNLSDLIDLVPSLCEDLLS
 SVDQPLKIARDKVVGKDYLLCDYNRDGDSYRSPWSNKYDPPELGAMP SARLRKLEVEANAFDQYRDLY
 FEGGVSSVYLDLWDHGFAGVILIKKAGDGSKKIKGCWDSIHVVEVQEKS SGRTAHYKLTSTVMLWLQTNK
 SGGTMNLGGSLTRQMEKDETVDSCSPHIANIGRLVEDMENKIRSTLNEIYFGKTKDIVNGLRSVQTFAD
 KSKQEALKNDLVEALKRKQQC

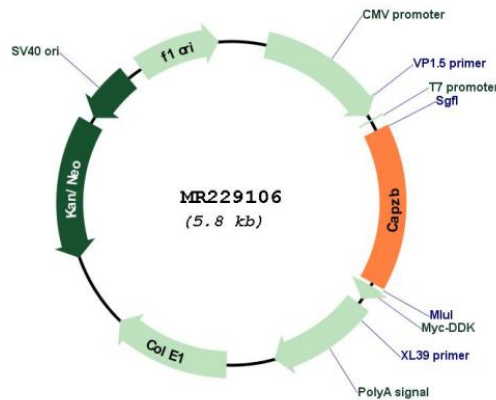
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001271405

ORF Size: 903 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_001271405.1 , NP_001258334.1
RefSeq Size:	1655 bp
RefSeq ORF:	906 bp
Locus ID:	12345
UniProt ID:	P47757
Cytogenetics:	4 70.59 cM
MW:	34.2 kDa
Gene Summary:	This gene encodes the beta subunit of a highly conserved filamentous actin capping protein that binds the barbed end of filamentous actin to stabilize it and terminate elongation. Interaction of this protein with the barbed end of the actin filament occurs through binding of the amphipathic helix at the C-terminus to the hydrophobic cleft on the actin molecule. This gene is required for a variety of dynamic actin-mediated processes including organization of lamellipodia and filopodia, growth cone morphology and neurite outgrowth in hippocampal neurons, and asymmetric spindle migration and polar body extrusion during oocyte maturation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]