

Product datasheet for **RG237312**

CAPZB (NM_001282162) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAPZB (NM_001282162) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CAPZB
Synonyms:	CAPB; CAPPB; CAPZ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237312 representing NM_001282162. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCACCCAAGCAGGCGCAGCCTCCCTTCCCTCTGAACTGTCAGCTTGCAAGGGTTGGAAGTGTGAT
TATGGAAGTCCCTCGGATCAGAGTGATCAGCAGCTGGACTGTGCCTTGACCTAATGAGGCGCCTGCCT
CCCCAGCAAATCGAGAAAAACCTCAGCGACCTGATCGACCTGGTCCCCAGTCTATGTGAGGATCTCCTG
TCTTCTGTTGACCAGCCACTGAAAATTGCCAGAGACAAGGTGGTGGGAAAGGATTACCTTTTGTGTGAC
TACAACAGAGATGGGACTCCTATAGGTCACCATGGAGTAACAAGTATGACCTCCCTTGGAGGATGGG
GCCATGCCGTGAGCTCGGCTGAGAAAGTGGAGGTGGAAGCCAACAATGCCTTTGACCAGTATCGAGAC
CTGATTTTGAAGTGGGTCTCATCTGTCTACCTCTGGGATCTGGATCATGGCTTTGCTGGAGTGATC
CTCATAAAGAAGGCTGGAGATGGATCAAAGAAGATCAAAGGCTGCTGGGATTCCATCCACGTGGTAGAA
GTGCAGGAGAAATCCAGCGGTGCGACCGCCATTACAAGTTGACCTCCACGGTGATGCTGTGGTGCAG
ACCAACAAATCTGGCTCTGGCACCATGAACCTCGGAGGCAGCCTTACCAGACAGATGGAGAAGGATGAA
ACTGTGAGTGACTGCTCCACACATAGCCAACATCGGGCGCCTGGTAGAGGACATGGAAAAATAAATC
AGAAGTACGCTGAACGAGATCTACTTTGGAAAAACAAGGATATCGTCAATGGGCTGAGGCTGTGCAG
ACTTTTGCAGACAAATCAAACAAGAAGCTCTGAAGAATGACCTGGTGGAGGCTTTGAAGAGAAAGCAG
CAATGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237312
 Blue=ORF Red=Cloning site Green=Tag(s)

MHPSRRSLPFPLNCQLARVGTADYGSPSDQSDQQLDCALDLMRRLPPQIEKNLSDLIDLVPSLCEDLL
 SSVQPLKIARDKVVGKDYLLCDYNRDGDSYRSPWSNKYDPPLEDGAMP SARLRKLEVEANAFDQYRD
 LYFEGGVSSVYLWDLDHGFAGVILIKKAGDGSKKIKGCWDSIHVVEVQEKSSGRTAHYKLTSTVMLWLQ
 TNKSGSGTMNLGGSLTRQMEKDETVSDCSPHIANIGRLVEDMENKIRSTLNEIYFGKTKDIVNGLRSVQ
 TFADKSKQEALKNDLVEALKRKQQC
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001282162

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).

RefSeq: [NM_001282162.2](#)

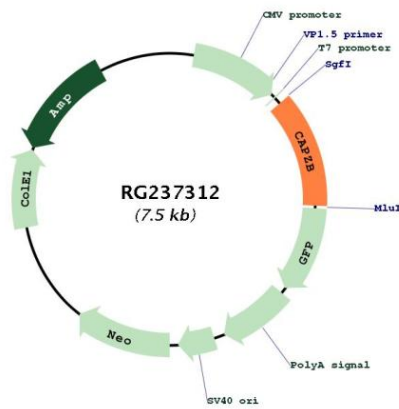
RefSeq Size: 2109 bp

RefSeq ORF: 906 bp

Locus ID: 832
UniProt ID: [P47756](#)
Cytogenetics: 1p36.13
MW: 34.2 kDa

Gene Summary: This gene encodes the beta subunit of the barbed-end actin binding protein, which belongs to the F-actin capping protein family. The capping protein is a heterodimeric actin capping protein that blocks actin filament assembly and disassembly at the fast growing (barbed) filament ends and functions in regulating actin filament dynamics as well as in stabilizing actin filament lengths in muscle and nonmuscle cells. A pseudogene of this gene is located on the long arm of chromosome 2. Multiple alternatively spliced transcript variants encoding different isoforms have been found.[provided by RefSeq, Aug 2013]

Product images:



Circular map for RG237312