

Product datasheet for MR228848

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OriGene Technologies, Inc.

Capzb (NM_001271406) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Capzb (NM_001271406) Mouse Tagged ORF Clone

Tag: Myc-DDK
Symbol: Capzb

Synonyms: 1700120C01Rik; Al325129; Cappb1; CPB1; CPB2; CPbeat2; CPbeta1; CPbeta2

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >MR228848 representing NM_001271406
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA





Protein Sequence: >MR228848 representing NM_001271406

Red=Cloning site Green=Tags(s)

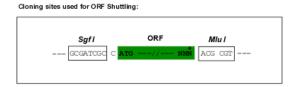
MRRLPPQQIEKNLSDLIDLVPSLCEDLLSSVDQPLKIARDKVVGKDYLLCDYNRDGDSYRSPWSNKYDPP LEDGAMPSARLRKLEVEANNAFDQYRDLYFEGGVSSVYLWDLDHGFAGVILIKKAGDGSKKIKGCWDSIH VVEVQEKSSGRTAHYKLTSTVMLWLQTNKSGSGTMNLGGSLTRQMEKDETVSDCSPHIANIGRLVEDMEN KIRSTLNEIYFGKTKDIVNGLRSVQTFADKSKQEALKNDLVEALKRKQQC

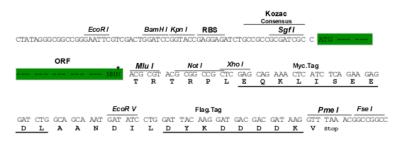
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_001271406

ORF Size: 780 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: <u>NM 001271406.1</u>, <u>NP 001258335.1</u>

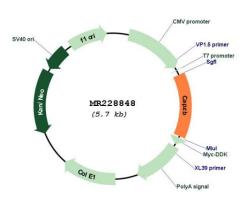
RefSeq Size: 1641 bp
RefSeq ORF: 783 bp
Locus ID: 12345

Cytogenetics: 4 70.59 cM MW: 29.7 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]

Product images:



Circular map for MR228848