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# Product datasheet for MC226895

## Capzb (NM_001271405) Mouse Untagged Clone

### Product data:

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| **Product Type:** | Expression Plasmids |
| **Product Name:** | Capzb (NM_001271405) Mouse Untagged Clone |
| **Tag:** | Tag Free |
| **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 |
| **Fully Sequenced ORF:** | >MC226895 representing NM_001271405<br>Red=Cloning site Blue=ORF Orange=Stop codon<br><br>TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC<br>GCCGCGATCGCC<br><br>ATGCATCCTAGCAGGCGCAGCCTTCCTTTCCCCCTGAACTGTCAGCTTGTTAGAGTTGGGACTGCTGATT<br>ATGGAGGTGCCTCGGAGCAGAGCGATCAGCAGCTGGACTGCGCCTTGGACCTGATGAGGCGCCTGCCTCC<br>ACAGCAGATTGAGAAGAACCTCAGCGATCTGATCGACCTGGTCCCCAGTCTGTGTGAAGATCTCCTGTCA<br>TCTGTTGACCAGCCCCTGAAAATTGCCAGAGACAAGGTGGTGGGCAAGGATTACCTTTTGTGTGACTACA<br>ACAGAGACGGGGACTCCTATAGGTCACCGTGGAGTAACAAGTATGACCCTCCTTTGGAAGATGGGGCCAT<br>GCCATCTGCTCGGCTCAGAAAGCTGGAGGTAGAGGCCAACAATGCCTTCGACCAATACCGAGACCTGTAT<br>TTTGAAGGTGGGGTCTCATCAGTCTACCTCTGGGATCTTGATCATGGCTTTGCTGGAGTGATCCTCATAA<br>AGAAAGCTGGAGATGGATCCAAGAAGATCAAAGGCTGCTGGGATTCCATCCACGTGGTGGAAGTGCAGGA<br>GAAGTCCAGCGGCCGTACTGCCCATTACAAGTTGACCTCCACGGTGATGCTATGGCTGCAAACCAACAAA<br>TCCGGCTCGGGCACCATGAACCTGGGAGGCAGCCTAACCAGACAGATGGAGAAAGACGAAACTGTGAGTG<br>ACTGTTCCCCACACATAGCCAACATCGGGCGCCTGGTGGAGGACATGGAAAACAAAATCCGAAGCACGCT<br>GAATGAGATCTACTTTGGAAAAACAAAGGACATCGTCAACGGGCTGAGGTCTGTGCAGACGTTTGCAGAC<br>AAATCAAAGCAAGAAGCGCTTAAGAACGACCTGGTGGAGGCCTTGAAGAGAAAGCAGCAGTGTTGA<br><br>ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT<br>ACAAGGATGACGACGATAAGGTTTAA |
| **Restriction Sites:** | SgfI-MluI |
| **ACCN:** | NM_001271405 |
| **Insert Size:** | 906 bp |

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| **OTI Disclaimer:** | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| **OTI Annotation:** | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag. |
| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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 |
| **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]<br>Transcript Variant: This variant (3) uses an alternate 5'-terminal exon and has multiple differences in the coding region, one of which results in use of an alternate start codon. It encodes isoform (c), which is shorter than and has distinct N- and C-termini compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments. |