

Product datasheet for **MC218939**

Cpeb1 (NM_007755) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cpeb1 (NM_007755) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cpeb1
Synonyms:	AU024112; Cpe-bp1; Cpeb; mCPEB; mCpeb-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC218939 representing NM_007755
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCTTTCTCTCTGGAAGAAGCAGCAGGAAGAATAAAGGATTGCTGGGACAACCAAGAAGTTCCTGCAC
TCTCTACATGTAGCAATGCCAATATCTTTCGAAGGATAAATGCCATTTTGATGATTCACTGGACTTCAG
TAAAGTCTGTACAACACCTATAAATCGAGGAATTCATGATCAGTTGCCAGACTTCCAGGACTCTGAAGAA
ACAGTTACAAGCAGGATGCTTTTCCCACCTCTGCGCAAGAATCTCCCCGTGGCCTCCAGATGCAATG
GCTTGTGCCTTGGCTGCAGTCCCTCAGTCTGACTGGCTGGGACCGACCCTGGAGACCCAGGACTCAGA
CTCCTCAGCCCAGAGCAGCACACAGTCAATTAAGCATGCTCCAAAATCCACTGGGAAATGCTTAGGA
AAAGCCCCCTTGAGTTCCTGTCTCTGGATCCCCTTGGTCTGACTTGGACAAGTCCCAGCACCCCTCAG
TTAGAGGATCTCGCTGGACACCCGGCCATCCTGGACTCCCCTTAGCAGCCCCTCTGACTCAGACAC
GAGTGGCTTCAGCTCTGGATCAGACCATCTCTCAGATTTGATTTCAAGCCTTCGATTTCCCTCCTCTG
CCTTTCTTTCTATGACGGGAAATGGTCCCAGAGACCCTCTAAAGATGGGCGTTGGTCCCAGATGGACC
AAGAACAAGCTGCTCTTGTCTGCAGTTGCTCCCTCTCCAACAGTCTCCAAGAGATGGCCAGGAGCTTC
TGTGTGGCCATCTTGGACCTTCTTGGAGCTCCTAAAGACCCATTAGCATAGAGAGAGAGGCTAGACTC
CACCGGCAGGCTGCAGCTGTGAATGAAGTACGTGTACCTGGAGTGGCCAGCTTCTCCCCGGAACATA
AGAACCCCATCTACTCATGCAAGGTGTTCTAGGAGGCGTTTCTTGGGATATTACAGAAGCTGGATTGGT
TAACACCTTCCGTGTTTTGGCTCTCTGAGTGTGGAGTGGCTGGTAAGGATGGCAAGCACCCCGGTGT
CCTCCCAAAGGTAATATGCCTAAAGGATGTGTATTTGGTGTGTTGAAGTGAAGTCCGTCGGGCCT
TGCTTCAGGCTTGTCTCATGACCCGCTGAGCCAGATGGCTGAGTGAATATTATTTCAAGATGTCCAG
CCGAAGGATGCGCTGCAAGAGGTACAGGTAATCCCTTGGGCTTGGCTGACAGCAACTTTGTCTGGAGC
CCATCTCAGAGGCTGGATCCCAGCAGGACGGTGTGTTGGTGCCTTGCACGGGATGCTCAATGCTGAGG
CTCTGGCTGCCATCTTGAATGACCTATTTGGTGGAGTGGTGTATGCTGGGATTGACACAGATAAGCACAA
GTACCCATTGGGCTGGTCTGTGACTTTCAATAACCAACGTAGTTATCTGAAAGCAGTCACCGCTGCT
TTTGTGGAGATCAAACCAAGTTTACCAAGAAGGTTAGATTGACCCCTATCTAGAAGATTCTCTGT
GTCTTATCTGCAGCTCACAACCTGGTCTTTCTTCTGCCGAGATCAGGTCTGCTTCAAGTACTTTTGCAG
AAGCTGCTGGCACTGGCGACACAGCATGGAAGGCTACGCCACCATAGCCCCCTAATGAGGAACCAGAAG
AACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_007755

Insert Size: 1686 bp

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).

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: [NM_007755.5](#), [NP_031781.1](#)

RefSeq Size: 3138 bp

RefSeq ORF: 1686 bp

Locus ID: 12877

UniProt ID: [P70166](#)

Cytogenetics: 7 D3

Gene Summary: Sequence-specific RNA-binding protein that regulates mRNA cytoplasmic polyadenylation and translation initiation during oocyte maturation, early development and at postsynapse sites of neurons. Binds to the cytoplasmic polyadenylation element (CPE), an uridine-rich sequence element (consensus sequence 5'-UUUUUUAU-3') within the 3' UTR of mRNAs. In absence of phosphorylation and in association with TACC3 is also involved as a repressor of translation of CPE-containing mRNA; a repression that is relieved by phosphorylation or degradation (By similarity). Involved in the transport of CPE-containing mRNA to dendrites; those mRNAs may be transported to dendrites in a translationally dormant form and translationally activated at synapses. Its interaction with APLP1 promotes local CPE-containing mRNA polyadenylation and translation activation. Induces the assembly of stress granules in the absence of stress (By similarity). Required for cell cycle progression, specifically for prophase entry (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses a different splice in the coding region, compared to variant 1. The resulting protein (isoform 2) is shorter when it is compared to isoform 1.