

## Product datasheet for **MC228291**

### **Cpeb1 (NM\_001252526) Mouse Untagged Clone**

#### **Product data:**

|                    |   |
|--------------------|---|
| Product Type:      | Expression Plasmids                       |
| Product Name:      | Cpeb1 (NM_001252526) 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:** >MC228291 representing NM\_001252526  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTTTCTCTCTGGAAGAAGCAGCAGGAAGAATAAAGGATTGCTGGGACAACCAAGAAGTTCCTGCAC  
 TCTCTACATGTAGCAATGCCAATATCTTTGGAAGGATAAATGCCATTTTGGATGATTCACTGGACTTCAG  
 TAAAGTCTGTACAACACCTATAAATCGAGGAATTCATGATCAGTTGCCAGACTTCCAGGACTCTGAAGAA  
 ACAGTTACAAGCAGGATGCTTTTCCCACCTCTGCGCAAGAATCTCCCGTGGCCTCCAGATGCAATG  
 GCTTGTGCCTTGGCTGCAGTCCCTCAGTCTGACTGGCTGGGACCGACCCTGGAGCACCCAGGACTCAGA  
 CTCCTCAGCCCAGAGCAGCACACAGTCAATTAAGCATGCTCCAAAATCCACTGGGAAATGCTTAGGA  
 AAAGCCCCCTTGAGTTCCTGTCTCTGGATCCCCTTGGTCTGACTTGGACAAGTCCCAGCACCCCTCAG  
 TTAGAGGATCTCGCTGGACACCCGGCCATCCTGGACTCCCGTCTAGCAGCCCCTCTGACTCAGACAC  
 GAGTGGCTTCAGCTCTGGATCAGACCATCTCTCAGATTTGATTTCAAGCCTTCGATTTCCCTCCTCTG  
 CCCTTTCTTTCTATGACGGGAAATGGTCCAGAGACCCTCTAAAGATGGGCGTTGGTCCCAGATGGACC  
 AAGAACAAGCTGCTTGTCTGCAGTTGCTCCCTCTCCAACAGTCTCCAAGAGATGGCCAGGAGCTTC  
 TGTGTGGCCATCTTGGGACCTTCTTGGAGCTCCTAAAGACCCATTAGCATAAGAGAGAGAGGCTAGACTC  
 CACCGGCAGGCTGCAGCTGTGAATGAAGTACGTGTACCTGGAGTGGCCAGCTTCTCCCGGAACATA  
 AGAACCCCATCTACTCATGAAGGTGTTCTAGGAGGCGTTTCTTGGGATATTACAGAAGCTGGATTGGT  
 TAACACCTTCCGTGTTTTGGCTCTCTGAGTGTGGAGTGGCTGGTAAGGATGGCAAGCACCCCGGTGT  
 CCTCCAAAGGGTATGTGATTTGGTGTGTTGAAGTGAAGTCCGTCGGGCTTGGCTCAGGCTTGTTCAGGCTTGT  
 CTCATGACCCGCTGAGCCAGATGGCTGAGTGAATATTATTTCAAGATGTCCAGCCGAAGGATGCGCTG  
 CAAAGAGGTACAGGTAATCCCTTGGGTCTTGGCTGACAGCAACTTGTCTGGAGCCCATCTCAGAGGCTG  
 GATCCCAGCAGGACGGTGTGTTGGTGCCTTGCACGGGATGCTCAATGCTGAGGCTCTGGCTGCCATCT  
 TGAATGACCTATTTGGTGGAGTGGTGTATGCTGGGATTGACACAGATAAGCACAAAGTACCCATTGGGTC  
 TGGTCTGTGACTTTCAATAACCAACGTAGTTATCTGAAAGCAGTACCCTGCTTTTGTGGAGATCAAA  
 ACCACCAAGTTTACCAAGAAGGTTAGATTGACCCCTATCTAGAAGATTCTGTGTCTTATCTGCAGCT  
 CACAACCTGGTCTTTCTCTGCCGAGATCAGGTCTGCTTCAAGTACTTTTGCAGAAGCTGCTGGCACTG  
 GCGACACAGCATGGAAGGCTACGCCACCATAGCCCCCTAATGAGGAACCAGAAGAACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001252526
- Insert Size:** 1671 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).
- 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.
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\\_001252526.1](#), [NP\\_001239455.1](#)

**RefSeq Size:** 3123 bp

**RefSeq ORF:** 1671 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 (3) uses a different splice in the coding region, compared to variant 1. The resulting protein (isoform 3) is shorter when it is compared to isoform 1.