

## Product datasheet for **MC228318**

### **Cpeb1 (NM\_001252525) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cpeb1 (NM_001252525) 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:** >MC228318 representing NM\_001252525  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTTTCTCTCTGGAAGAAGCAGCAGGAAGAATAAAGGATTGCTGGGACAACCAAGAAGTTCCTGCAC  
 TCTCTACATGTAGCAATGCCAATATCTTTGGAAGGATAAATGCCATTTTGGATGATTCACTGGACTTCAG  
 TAAAGTCTGTACAACACCTATAAATCGAGGAATTCATGATCAGTTGCCAGCAGACTTCCAGGACTCTGAA  
 GAAACAGTTACAAGCAGGATGCTTTTCCACCTCTGCGCAAGAATCTCCCCGTGGCCTCCAGATGCAA  
 ATGGCTTGTGCCTTGGCCTGCAGTCCCTCAGTCTGACTGGCTGGGACCGACCTGGAGCACCAGGACTC  
 AGACTCCTCAGCCAGAGCAGCACAGTCAGTATTAAGCATGCTCCAAAATCCACTGGGAAATGTCTTA  
 GGGAAAGCCCCCTTGGCTTCTGTCTCTGGATCCCCTGGGTCTGACTGGACAAGTCCAGCACCCCT  
 CAGTTAGAGGATCTGCCTGGACACCCGCCCATCCTGGACTCCGTTCTAGCAGCCCTCTGACTCAGA  
 CACGAGTGGCTTACGCTCTGGATCAGACCATCTCTCAGATTTGATTTCAAGCCTTCGCATTTCCCTCCT  
 CTGCCCTTTCTTCTATGACGGGAAATGGTCCCAGAGACCCTCTAAAGATGGGCGTTGGTCCCAGATGG  
 ACCAAGAACAAGCTGCTCTTGTGCAGTTGCTCCCTCTCCAACAGTGCTCCAAAGAGATGGCCAGGAGC  
 TTCTGTGTGGCCATCTTGGGACCTTCTTGGAGCTCCTAAAGACCCATTACAGCATAGAGAGAGAGGCTAGA  
 CTCCACCGGCAGGCTGCAGCTGTGAATGAAGCTACGTGTACCTGGAGTGGCCAGCTTCTCCCCGGAAT  
 ATAAGAACCCCATCTACTCATGCAAGGTGTTCTTAGGAGGCGTTCCTTGGGATATTACAGAAGCTGGATT  
 GGTTAACACCTTCCGTGTTTTGGCTCTCTGAGTGTGGAGTGGCCTGGTAAGGATGGCAAGCACCCTGG  
 TGTCTCCCAAAGGTAATATGCCTAAAGGGTATGTGATTTGGTGTGAACTAGAGAAGTCCGTCGGG  
 CCTTGTTCAGGCTTGTCTCATGACCCGCTGAGCCAGATGGCCTGAGTGAATATTATTTCAAGATGTC  
 CAGCCGAAGGATGCGCTGCAAAGAGGTACAGGTAAATCCCTTGGGTCTGGCTGACAGCAACTTTGTCTGG  
 AGCCCATCTCAGAGGCTGGATCCCAGCAGGACGGTGTGTTGGTGCCTTGCACGGGATGCTCAATGCTG  
 AGGCTCTGGCTGCCATCTTGAATGACCTATTTGGTGGAGTGGTGTATGCTGGGATTGACACAGATAAGCA  
 CAAGTACCCCATGGGTCTGGTCTGTGACTTTCAATAACCAACGTAGTTATCTGAAAGCAGTCACCGCT  
 GCTTTTGTGGAGATCAAACCACCAAGTTTACCAAGAAGGTTAGATTGACCCCTATCTAGAAGATTCTC  
 TGTGTCTTATCTGCAGCTCACACCTGGTCTTTCTTCTGCCGAGATCAGGTCTGCTTCAAGTACTTTTG  
 CAGAAGCTGCTGGCACTGGCAGACAGCATGGAAGGCCTACGCCACCATAGCCCCCTAATGAGGAACCG  
 AAGA**ACTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001252525
- Insert Size:** 1689 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001252525.1</a> , <a href="#">NP_001239454.1</a>
<b>RefSeq Size:</b>	3141 bp
<b>RefSeq ORF:</b>	1689 bp
<b>Locus ID:</b>	12877
<b>UniProt ID:</b>	<a href="#">P70166</a>
<b>Cytogenetics:</b>	7 D3
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and it encodes the longest protein (isoform 1).</p>