

Product datasheet for **MC228770**

Cpeb4 (NM_001290676) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cpeb4 (NM_001290676) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cpeb4
Synonyms:	Cpe-bp4; Cpeb-4; mCPEB-4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228770 representing NM_001290676
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGGATTACGGGTTTGGAGTGTAGTGCAAGCAATACTGGGAATAAATCTGCTTTTCCAGTCCGAT
 TCCATCCACATCTGCAGCCTCCACACCATCACAAAATGCCACCCCAACCCTGCTGCTTTTATAAATAA
 TAACACAGCTGCCAATGGCAGCAGTGTGGGTACGCTGCTTTCTGCCCGGCTACTCATAACATT
 CAGGATGAGATCTTGGGGTCAGAAAAAGCAAAAAGTCAACAGCAAGAACAACAAGACCCTTTAGAAAAGC
 AACAGCTCTCCCGAGTCCAGGTCCAGGAAGCTGGAATACTGCCTGAAACTGAAAAGGCAAAAAGCTGAAGA
 AAATCCAGGGGACAGTTCTTTCAGAAAACAGCAACGGAAAAGAAAACTACGCATTGAATCACCAGTGTG
 ACAGGGTTTGATTACCAAGAAGCCACCGGTCTCGGGACTCCACCCAACCCTTGACATCCAGTGCATCGT
 CCCTTACTGGTTTCAGTAACTGGTCAGCAGCGATAGCACCTTCTCCTCCACTATAATCAATGAAGATGC
 AAGTTTCTTCCACAGGGAGGGTCCCTGGCGCTTCAGCTAATAATGGTGTCTCTTGTTCAAAATTTT
 CCCCATCATGTCAGCCCTGGCTTTGGTGGTAGCTTCTCCCTCAGATCGGGCCTCTCTCCAGCACCATC
 CTCATCACCCCATTTCCAGCACCATCACAGCCAGCATCAGCAGCAGAGGAGGTCTCTGCCAGTCCCA
 CCCCCACCTTTACACATAGAAGTGTCTTTAACCAGCTGCCTATTTGGCGAATAATCTTAACAAA
 CCTCCTTCCATGGAGCAGTACCAGAGTCTTCTCCAACCCCTCTTCTTCTGGAGCCAGGAGGTG
 GCGGCTACGGTGGCTGGGGAGCATCTCAAGGCCGGATCACCGCAGAGGGCTGAACGGTGGAAATAACACC
 CCTGAACCAATCTCACCTTTGAAGAAAATTTGCAAGCAATCATATTCAGTCCAGAAGTATGCTCGC
 CCTAGCTCAGCCTTTGCTCCAAAATCCTGGATGGAAGTAGCTTGAACAGGGCTGACAACATTTTCTCT
 TTCCGGAACGCCAGGACGTTTGACATGCATCACTGGAGAGCTCACTCATTGACATAATGAGAGCTGA
 AAATGATTCCATTAAAGGTCGTCTAAACTATTCATACCCAGGATCCGATAGTTCTCTGCTTATTAATGGT
 CAGTCTTCATTGTTCCGATGGAAGATGGATTCCTGGATGATGGCCGTGGGGATCAACCTTTCATAGTG
 GTCTGGGGTACCTCACTGCTTCACTCACCAGAAATGGGGAGAGAGTGAACGATACTCTCGCAAAGTGT
 TGTGGGTGGATTGCCTCCTGATATTGATGAAGATGAGATCACAGCTAGTTTCCGTCGCTTTGGCCCTTTG
 ATTGTGGATTGGCCTATAAGGCAGAGCAAATCTTATTTTCCACAAAAGGCTATGCATTCTGCTGT
 TTCAAGATGAAAGTTCTGTTCCAGCTCTCATTGATGCATGTATTGAAGAAGTGGAAAACTTTACCTGTG
 TGTATCAAGTCCAACCATCAAGGATAAACCAGTGCAGATCCGGCCCTGGAATCTCAGTGACAGTGACTTT
 GTGATGGATGGCTCACAGCCACTTGACCCACGGAAAACAATATTTGTTGGTGGTGTCTCTGACCATTAC
 GAGCTGTGGAGCTTGAATGATAATGGATCGGCTGTATGGAGGCGTCTGCTATGCTGGAATCGATACTGA
 CCCAGAGCTCAAATACCCAAAAGGAGCTGGAAGAGTCCGCTTTTCTAATCAACAGAGTTACATAGCTGCT
 ATCAGTGGCCGCTTTGTTCCAGCTGCAGCATGGAGAGATAGATAAACGGGTGGAGGTTAAGCCATATGCT
 TGGATGACCAGCTGTGTGATGAATGTCAAGGGCCCGTTGTGGGGGAAATTTGCTCCATTTTCTGTGC
 TAATGTTACCTGTCTGCAGTATTACTGTGAATATTGCTGGGTGCTATTCCTCTCGTGTGGCAGAGAA
 TTCCACAAGCCCTGGTGAAGGAAGTGGTGACCGCCCTCGGCATATTTCAATCCGCTGGAAC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001290676
Insert Size: 2166 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:	<ol style="list-style-type: none">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_001290676.1</u> , <u>NP_001277605.1</u>
RefSeq Size:	7631 bp
RefSeq ORF:	2166 bp
Locus ID:	67579
Cytogenetics:	11 A4
Gene Summary:	<p>Sequence-specific RNA-binding protein that binds to the cytoplasmic polyadenylation element (CPE), an uridine-rich sequence element (consensus sequence 5'-UUUUUUAU-3') within the mRNA 3' UTR (PubMed:17024188). RNA binding results in a clear conformational change analogous to the Venus fly trap mechanism (By similarity). Regulates activation of unfolded protein response (UPR) in the process of adaptation to ER stress in liver, by maintaining translation of CPE-regulated mRNAs in conditions in which global protein synthesis is inhibited (PubMed:28092655). Required for cell cycle progression, specifically for cytokinesis and chromosomal segregation (By similarity). Plays a role as an oncogene promoting tumor growth and progression by positively regulating translation of t-plasminogen activator/PLAT (PubMed:22138752). Stimulates proliferation of melanocytes (By similarity). In contrast to CPEB1 and CPEB3, does not play role in synaptic plasticity, learning and memory (PubMed:24386439).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an exon in the central coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.</p>