

Product datasheet for **MC228726**

Cpeb4 (NM_001290678) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cpeb4 (NM_001290678) 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



[View online »](#)

Fully Sequenced ORF: >MC228726 representing NM_001290678
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGGATTACGGGTTTGGAGTGTAGTGCAAGCAATACTGGGAATAAATCTGCTTTTCCAGTCCGAT
 TCCATCCACATCTGCAGCCTCCACACCATCACAAAATGCCACCCCAACCCTGCTGCTTTTATAAATAA
 TAACACAGCTGCCAATGGCAGCAGTGTGGGTGAGCCTGGCTCTTTCCTGCCCCGGCTACTCATAACATT
 CAGGATGAGATCTTGGGGTCAGAAAAAGCAAAAAGTCAACAGCAAGAACAACAAGACCCTTTAGAAAAGC
 AACAGCTCTCCCGAGTCCAGGTCCAGGAAGCTGGAATACTGCCTGAAACTGAAAAGGCAAAAAGCTGAAGA
 AAATCCAGGGGACAGTTCTTCAGAAAACAGCAACGGAAAAGAAAACACTGCATTGAATCACCAGTGTG
 ACAGGGTTTGATTACCAAGAAGCCACCGGTCTCGGGACTCCACCCAACCCTTGACATCCAGTGCATCGT
 CCCTTACTGGTTTCAGTAACTGGTCAGCAGCGATAGCACCTTCTCCTCCACTATAATCAATGAAGATGC
 AAGTTTCTTCCACAGGGAGGGTCCCTGGCGCTTCAGCTAATAATGGTGTCTCTTGTTCAAAATTTT
 CCCCATCATGTCAGCCCTGGCTTTGGTGGTAGCTTCTCCCTCAGATCGGCCTCTCTCCAGCACCATC
 CTCATCACCCCATTTCCAGCACCATCACAGCCAGCATCAGCAGCAGAGGAGGTCTCTGCCAGTCCCA
 CCCCCACCTTTACACATAGAAGTGTCTTTAACCAGCTGCCTCATTTGGCGAATAATCTTAACAAA
 CCTCCTTCCATGGAGCAGTACCAGAGTCTTCTCCAACCCCTCTTCTTCTGGAGCCAGGAGGTG
 GCGGCTACGGTGGCTGGGAGCATCTCAAGGCCGGATCACCGCAGAGGGCTGAACGGTGGAAATAACACC
 CCTGAACCAATCTCACCTTTGAAGAAAATTCGCAAGCAATCATATTCAGTCCAGAAGTATGCTCGC
 CCTAGCTCAGCCTTTGCTCCAAAATCCTGGATGGAAGTAGCTTGAACAGGGCTGACAACATTTTTCCTT
 TTCCGGAACGCCAGGACGTTTGACATGCCTCACTGGAGAGCTCACTCATTGACATAATGAGACCTGA
 AAATGATTCCATTAAAGGTCAGTCTTCAATGTTTCCGATGGAAGATGGATTCTGGATGATGGCCGTGGG
 GATCAACCTTTCATAGTGGTCTGGGGTCACTCACTGCTTCACTCACCAGAATGGGGAGAGAGTGGAAAC
 GATACTCTCGAAAGTGTGTGGGTGGATTGCCTCCTGATATTGATGAAGATGAGATCACAGCTAGTTT
 CCGTCGCTTTGGCCCTTTGATTGTGGATTGGCCTCATAAGGCAGAGAGCAATCTTATTTTCCACAAAA
 GGCTATGCATTCCTGCTGTTTCAAGATGAAAGTCTGTTCAAGGCTCTCATTGATGCATGTATTGAAGAAG
 ATGGAAAACCTTACCTGTGTATCAAGTCCAACCATCAAGGATAAACCAGTGCAGATCCGGCCCTGGAA
 TCTCAGTGACAGTACTTTGTGATGGATGGCTCACAGCCACTTGACCCACGAAAACAATATTTGTTGGT
 GGTGTTCTCGACCATTACGAGCTGTGGAGCTTGAATGATAATGGATCGGCTGTATGGAGCGCTGCTGCT
 ATGCTGGAATCGATACTGACCCAGAGCTCAAATACCCAAAAGGAGCTGGAAGAGTCGCGTTTTCTAATCA
 ACAGAGTTACATAGCTGCTATCAGTGCCGCTTTGTTCAAGTGCAGCATGGAGAGATAGATAAACGGGTG
 GAGGTTAAGCCATATGCTTGGATGACCAGCTGTGTGATGAATGTCAAGGGGCCGTTGTGGGGGAAAT
 TTGCTCCATTTTCTGTGCTAATGTTACCTGTCTGCAGTATTACTGTGAATATTGCTGGGCTGCTATTCA
 CTCTCGTGTGGCAGAGAATCCACAAGCCCTGGTGAAGGAAGGTGGTACCAGCCCTCGGCATATTTCA
 TTCCGCTGGAAC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001290678
Insert Size: 2115 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_001290678.1, NP_001277607.1</u>
RefSeq Size:	7580 bp
RefSeq ORF:	2115 bp
Locus ID:	67579
UniProt ID:	<u>Q7TN98</u>
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 (3) lacks two exons in the central coding region, compared to variant 1. The encoded isoform (3) is shorter, compared to isoform 1.</p>