

Product datasheet for **RN204288**

Cpeb1 (NM_001106276) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cpeb1 (NM_001106276) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cpeb1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN204288 representing NM_001106276
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTTTTTCTCTGGAAGAAGAATCAGGAAGGATAAAGGACTGCTGGGACAACCAAGAGTTTCCTGCAC
 TCTCTACATGTAGCAATGCCAATATCTTTCGAAGGATAAATGCCATTTTGATGATTCAGTGGACTTCAG
 TAAAGTCTGCACAACACCTATAAATCGAGGAATTCATGATCAGTTGCCAGACTTCCAGGACTCTGAAGAA
 GCAATTACAAGCAGGATGCTTTTCCCACCTCTGCGCAAGAATCTCCCCGCGCCCTCCAGATGCAAACG
 GTTTGTGCTTGGCTGCACTCAGTCTGACTGGCTGGGACCGACCCTGGAGCACCCAGGACTCAGA
 CTCCTCAGCCCAGAGCAACACACAGTCAATTAAGCATGCTCCAAAATCCACTGGGAAATGCTTAGGA
 AAAACCCCTTGAGTTCCTGTCTCTGGATCCCCTTGGTCTGACTTGGACAAGTCCCAGCGCCCTCAG
 TTAGAGGATCTCGCTGGACACCCGGCCTATCCTGGACTCCCGTTCTAGCAGCCCTCTGACTCAGACAC
 GAGTGGCTTCAGCTCTGGATCAGATCATCTCTCAGATTTGATTTCAAGCCTTCGATTTCCCTCCTCTG
 CCCTTTCTTTCTATGACGGGAAATGGTCCAGAGACCCTCTAAAGATGGGAGTTGGTCTCGAATGGACC
 AAGAGCAAGCTGCTTGTCTGCAGTTGCTCCCTCTCCAACAGTCTCCAAGAGATGGCCAGGAACTTC
 TGTGTGGCCATCTTGGGACCTTCTCGGAGCTCCTAAAGACCCATTAGCATAGAGAGAGAGGCTAGACTC
 CACAGGACGGCCGAGCTGTGAATGAAGTACATGTACCTGGAGTGGCCAGCTTCTCCCGGAACTACA
 AGAACCCCATCTACTCATGAAGGTGTTCTTAGGAGGTGTTTCTTGGGACATTACAGAAGCTGGATTGGT
 TAACACCTCCGTGTTTTGGCTCTCTGAGTGTGGAGTGGCTGGTAAGGATGGCAAGCACCCCGGTGT
 CCTCCAAAGGTAATATGCCTAAAGGTATGTATTTGGTGTGTTGAACTAGAGAAGTCCGTCGGGCT
 TGCTTCAGGCTTGTCTCATGACCCACTGAGCCAGATGGCTAAGTGAATATTATTTCAAGATGTCCAG
 CCGAAGGATGCGCTGCAAGAAGTACAGGTAATCCCTTGGTCTTGGCTGACAGCAACTTGTCTGGAGC
 CCATCTCAGAGGCTGGATCCCAGCAGGACGGTGTGTTGTTGGTGCCTTGCACGGGATGCTCAATGCTGAGG
 CTCTGGCTGCCATCTTGAATGACCTATTTGGTGGAGTGGTGTATGCTGGGATTGACACAGATAAGCACAA
 GTACCCATTGGGCTGGTCTGTGACTTTCAATAACCAACGTAGTTACCTGAAAGCAGTCACTGCTGCT
 TTTGTGGAGATCAAACCAAGTTTACCAAGAAGGTTAGATCGACCCCTATCTAGAAGATTCTCTGT
 GTCTTATCTGCAGTTCACAACCTGGTCTTTCTTCTGCCGAGATCAGGTCTGCTTCAAGTACTTTTGCCG
 AAGCTGCTGGCACTGGCGACACAGCATGGAAGGCTACGCCACCACAGCCCGCTAATGAGGAACCAGAAG
 AACT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001106276

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_001106276.1](#), [NP_001099746.1](#)

RefSeq Size: 2615 bp

RefSeq ORF: 1686 bp

Locus ID: 293056

UniProt ID: [P0C279](#)

Cytogenetics: 1q31

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. 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. Required for cell cycle progression, specifically for prophase entry. [UniProtKB/Swiss-Prot Function]