

## Product datasheet for **SC315779**

### **CPEB1 (NM\_001079535) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CPEB1 (NM_001079535) Human Untagged Clone
Tag:	Tag Free
Symbol:	CPEB1
Synonyms:	CPE-BP1; CPEB; CPEB-1; h-CPEB; hCPEB-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC315779 representing NM\_001079535.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCTTTTCCCAACCTCTGCGCAAGAATCTTCCCGTGGCCTCCAGATGCAAATGACTTGTGCCTTGCC
CTGCAGTCCCTCAGTCTGACAGGCTGGGACCGACCCCTGGAGCACCCAGGACTCAGATTCTCAGCCCAG
AGCAGCACACACTCGGTACTGAGCATGCTCCATAACCCACTGGGAAATGCTCTAGGAAAACCCCTTG
AGTTCCTGCCTCTGGATCCCCTTGGGTCTGACTTGGTGGACAAGTTCCAGCACCTCAGTTAGAGGA
TCACGCTGGACACCCGGCCATCCTGGACTCTCGATCTAGCAGCCCTCTGACTCAGACACCAAGTGGC
TTCAGCTCTGGATCAGATCATCTCTCAGATTTGATTTCAAGCCTTCGATTTCTCCACCTCTGCCCTTC
CTGTCTCTGTGAGGGGTGGTCCAGAGACCCCTTAAAGATGGGGTAGGGTCTCGGATGGACCAAGAG
CAAGCTGCTTTGCTGCAGTCACTCCCTCCCAACCAAGTCTTCAAGAGATGGCCAGGAGCTTCTGTG
TGGCCATCTGGACCTCTCGAAGCTCCAAAGACCCCTTCAGCATAGAGAGAGAGGCCAGGCTGCAC
CGACAAGCTGCAGCTGTGAATGAAGCCACCTGTACCTGGAGTGGCCAGCTTCTCCCGGAACTATAAG
AACCCCATCTACTCTTGAAGGTGTTTCTAGGAGGTGTTCTTGGGATATTACAGAAGCTGGATTAGTT
AACACCTCCGTGTTTTGGCTCTTTGAGTGTGGAGTGGCCTGGTAAGGATGGCAAGCATCCCGGTGT
CCTCCAAAGGTATGTGTATCTGGTCTTGAAGTACGAGAAAGTCTGTCCGATCCTTGCTTCAGGCTTGC
TCTCATGACCCGCTGAGCCAGATGGCCTGAGTGAATATTATTTCAAGATGTCCAGCCGAAGGATGCGC
TGCAAGGAGGTGCAGGTGATCCCTGGGTATTAGCCGACAGTAACCTTGTCCGGAGCCATCTCAGAGG
CTTGACCCAGCAGGACGGTGTGTGCGGTCTGCTGCAATGCTAAATGCTGAGGCCCTGGCAGCC
ATCTTGAACGACCTATTTGGTGGAGTGGTGTATGCCGGGATTGACACAGATAAGCACAAGTATCCATT
GGTCTGGTCTGTGACTTTCAATAACCAACGGAGTTACCTGAAAGCAGTCAAGGCTGCTTTTGTGGAG
ATCAAAACCAAGTTCACAAAGAAGTTACAGATTGACCCCTACCTAGAAGATTCTCTGTGTCATATC
TGAGTTCTCAGCTGGTCTTTCTTCTGTGAGATCAGGTCTGCTTCAAATACTTCTGCCGGAGCTGC
TGGCACTGGCGCACAGCATGGAGGGCCTGCGCCACCACAGCCCTGATGCGGAACCAGAAGAACCGA
GATTCAGCTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001079535

**Insert Size:** 1461 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001079535.1](#)

**RefSeq Size:** 3196 bp

**RefSeq ORF:** 1461 bp

**Locus ID:** 64506

**UniProt ID:** [Q9BZB8](#)

**Cytogenetics:** 15q25.2

**Protein Pathways:** Dorso-ventral axis formation, Oocyte meiosis, Progesterone-mediated oocyte maturation

**MW:** 53.6 kDa

**Gene Summary:** This gene encodes a member of the cytoplasmic polyadenylation element binding protein family. This highly conserved protein binds to a specific RNA sequence, called the cytoplasmic polyadenylation element, found in the 3' untranslated region of some mRNAs. The encoded protein functions in both the cytoplasm and the nucleus. It is involved in the regulation of mRNA translation, as well as processing of the 3' untranslated region, and may play a role in cell proliferation and tumorigenesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

Transcript Variant: This variant (3) contains a distinct 5' UTR and lacks an in-frame portion of the 5' coding region, compared to variant 1. The resulting isoform (3) has a shorter N-terminus, compared to isoform 1. Variants 3, 4, and 5 encode the same isoform.