

Product datasheet for **SC329250**

CPEB2 (NM_001177383) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPEB2 (NM_001177383) Human Untagged Clone
Tag:	Tag Free
Symbol:	CPEB2
Synonyms:	CPE-BP2; CPEB-2; hCPEB-2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001177383, the custom clone sequence may differ by one or more nucleotides

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ATGAGGGATTTTCGGGTTTGGGGTCTGTCAGACCGCCCGCTCCGAAGTAGCAGTCTGGG
CCCTGTCTGCGGCGAGGCGTATGGTCTTACGCCGTGGGGTCCGTCAACCCGCTGCC
TCCGCCACGCCCTTCGGCCCACTGTCGCCACCACCGTTGCCTGTACCGGCTTCTTAGAG
GCCGCTCCCTTCTCCGTCCCTCGCGGGCGGCGGGCAGCCGGCCGCGCCGCT
TCCTCTTCTCCCGTTCTGGCGCATCAGCAGACCATGCAGGATGAGTCTTCTGGGG
CTGACACAGCAGCCGGCGCGCCGCTTTCGGGGGCGGCGCCACGGAGAACTCCCGAC
CACCACCCGGCGGCGGACGATCGCGGTGTGACCCACCTCCTCCCTCCAGGACTTC
AAACCGAGTCTGACACCCCTCCTCCTCCTCCGCTCCTCCTGTGCTGCTGCCGACC
TCCTCCCGCAGGACTTCAGTAAGCGGCAGCAGCAGCTGAGCAGCCAGAAGAGGAAA
GAGTTCAGCCCTCCACCTTCCACCCCTCCGACTCGAAGCCGCCGCCGCCCTCCG
CCGCTCCACTGCCCGGTTCGGTTTCAGCCCGCCGCCGCCAGCCGGCCCGCTCCTCCAG
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CTCCCGCAGTCCCTCCTCGCCGCTGCAGCCCGCGGGCGCCGACGGAGGCGCGGGC
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TTGGCTCCTCGACGCCGGTGAACCCCGCGCGGGCTCCATGGAGTCCCCAACCACCT
CTGCTCAACAGTCCCAGTAACCTCCTGCCGGAGGTGCGCTTGGCGGGGCGCCTTCAGC
AGCTGCAGAGCCCGACCTTCCACACCCGGGCGGCGGCGGCGGGCGGGGCGGGGGG
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ACCCCTGGTTCGGTGCAGACCGGTCCGCCACCCAGCCAGCAGCCGCCGCGGACC
CAGCCGACGAGCAGCCCGCCACCCAGCAGCCGCCAGCCGACCCGAGCCGCGCC
GGCTCGTCTGCCACCCCGGGCGGCGGCGGCGGCTCGCTCAGCGCATGCCGCCG
CCCAGCCCGACTCAGAGAACGGCTTACCCCGGGTCCGCTCGTCCATGAACCCGGCC
TTCTTCCCTAGCTTCTCGCCGTGTCGCCGACGGCTGCACTGGGCTCAGGTTCCGACG
AGCGGCGGCGGCGGCGGCTTCGGCGCCCTTCTCGGCTACCGCTGTGCCCTCCG

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CCGCCGCCGCCATGAATATACCTCAACAGCAGCCCCGCCGCCCGCGGCCGCGCAGCAG
CCGCAGAGCCGGAGGTCGCCCGTCAGCCCGCAGCTCCAGCAGCAGCACCAGGCGGCC
GCCGCCTTCTGCAGCAGAGGAACCTCTATAACCACCACCAGCCTCTTCTGAAACAGTCT
CCCTGGAGCAACCATCAGAGCAGTGGCTGGGGCACTGGAAGTATGTCCTGGGGAGCAATG
CATGGCAGAGATCATCGTAGAACCGAAACATGGGAATCCCAGGAACATGAATCAGATA
TCTCCATTGAAGAAACCGTTTTCTGGTAATGTCATAGCACCACCGAAATTTACTCGTCA
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AGTAATACACTCTTACCCTTACAGGATCGAAGTAGAATGTATGACAGTTTGAATATGCAC
TCTTTGGAAAATTCCTTATCGATATTATGAGAGCAGAGCATGATCCTCTTAAGGTCGA
TTGAGCTATCCACATCCAGGAACTGACAATCTGTTGATGTTAAATGCAAGGAGTTATGGG
CGAAGACGAGGTCGTTCTCCCTCTTCCAATAGATGATGGCTTGCTTGATGATGGTCAC
AGTGATCAAGTTGGAGTTTTAAATTCACCCACCTGTTATTCAGCTCACAAAATGGAGAG
CGAATAGAACGCTTCTCGAAAAGTTTTGTTGGTGGTCTTCCAGATATTGATGAA
GATGAAAATACTGCTAGCTTTCAGAAAGTTTGGGCTTTGGTAGTAGATTGGCCTCATAAA
GCAGAAAGCAAGTCTATTTCCACAAAAGGCTATGCATTTCTCTCTTCAAGAAGAG
AGCTCAGTTCAGGCACTCATTGATGCTTGATTGAAGAAGATGGAAAACCTATCTGTGT
GTTCTAGCCCTACTATCAAGGACAAAACAGTTCAAATACGTCCTTGAAATTAAGTGAT
AGTGATTTTGAATGGATGGTTCTCAGCCTTTGGATCCCCGAAAAACAATTTTTGTTGGA
GGTGTTCCTAGGCCATTAAGGGCTGTGGAACCTGCTATGATCATGGACCGGCTGTATGGT
GGAGTTTGTATGCAGGAATTGATACAGATCCTGAGCTAAAATACCCAAAAGGTGCTGGG
CGAGTTGCTTTTCCAATCAGCAGAGCTATATTGCTGCCATTAGTGCTCGGTTTGTTCAG
CTTCAGCATGGTGATATTGATAAACGTGTGGAGGTAAGCCATATGTGCTAGATGACCAG
ATGTGTGATGAATGCCAGGGCGCACGCTGTGGTGGAAAATTTGCTCCCTTTTTTTGTGCC
AATGTCACTTGCCTGCAGTATTACTGTGAGTTTTGTTGGGCAAAATATCCACTCTCGTGCT
GGACGTGAGTTCCATAAGCCATTGGTAAAGGAAGGTGCTGATCGCCACGTCAGATCCAC
TCCGCTGGAACATA

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- Restriction Sites:** Please inquire
- ACCN:** NM_001177383
- 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_001177383.1](#), [NP_001170854.1](#)

RefSeq Size: 6788 bp

RefSeq ORF: 3015 bp

Locus ID: 132864

UniProt ID: [Q7Z5Q1](#)

Cytogenetics: 4p15.32

Gene Summary: The protein encoded by this gene is highly similar to cytoplasmic polyadenylation element binding protein (CPEB), an mRNA-binding protein that regulates cytoplasmic polyadenylation of mRNA as a trans factor in oogenesis and spermatogenesis. Studies of the similar gene in mice suggested a possible role of this protein in transcriptionally inactive haploid spermatids. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (E) lacks an alternate in-frame exon in the central coding region, compared to variant D. The resulting isoform (E) lacks an internal segment, compared to isoform D. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The genomic coordinates used for the transcript record were based on alignments. The 5' CDS is inferred based on comparison of the mouse and human orthologs.