

## Product datasheet for **SC124859**

### **CPEB2 (NM\_182485) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CPEB2 (NM_182485) Human Untagged Clone
Tag:	Tag Free
Symbol:	CPEB2
Synonyms:	CPE-BP2; CPEB-2; hCPEB-2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_182485, the custom clone sequence may differ by one or more nucleotides

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ATGAGGGATTTCGGGTTGGGGTGTGCAGACCGCCCCGCTCCGAAGTAGCAGTCTGGGCCCTGTTCT
GCGGCGAGGCGTATGGTCTTACGCGGTGGGGTCCGTCAACCCGCTGCCCTCCGCCACGCCCTTCGGCCC
ACTGTGCGCACACCCTGTGCTTACCGGCTTTAGAGGCCGCTCCCTTCTCCGTCCTCCCTCGGCC
GGCGGCGGGGAGCCCGCGCGCGCTTCTTCTCCCGTTCCTGGCGCATCAGCAGACCATGC
AGGATGAGCTGCTTCTGGGGTACACAGCAGCCGGCGCGGCTTTCGGGGGGGGCGGCCACGGAGAA
ACTCCCGACACCACCCGGCGGGCAGCATCGCGGGTGTGACCCACCTCCTCCCTCCAGGACTTC
AAACCGAGTCTGCACCACCCCTCCTCCTCCTCCGCTCCTCCTGCTGCTGCTGCCGACCTCCTCCCGC
AGGACTTCAGTAAGCGGCAGCAGCAGCTGAGCAGCCAGAAGAGAAAGATTAGCCCTCCCACT
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CCGCCCGCCAGCCGGCCGCTCCTCCAGCCGGCGAGCTCGCTCAGCGCCAGCAGCAACAGCCCGGC
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CCTGCCCGCGCTCCCGCAGCTCCCTCCCTCGCCGCTGCAGCCCGGGCGCCGACAGGAGCGGGGC
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CGACGCGGTGAACCCGCGCGGGCTCCATGGAGTCCCCAACCCACTCTGCTCAACAGTCCCAGTAA
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CGCCCGGGCGCGCAGCAGCCGAGAGCGGAGGTGCGCCGTCAGCCGCGAGCTCCAGCAGCAGACCA
GGCGGGCGGGCGCCCTTCTGCAGCAGAGGAATCCTATAACCACCACCAGCCTTCTGAAACAGTCT
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TTCTGGTAAATGTCATAGCACCCGAAATTTACTCGCTCACTCCATCACTGACTCCAAAATCTTGATT
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CCAGGATCGAAGTAGAATGTATGACAGTTTGAATATGCACTCTTTGAAAATTCCTTATCGATATTATG
AGAGCAGAGCATGATCCTCTAAGGGTGCATTGAGCTATCCACATCCAGGAAGTACAATCTGTTGATGT
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TCTTTTCAAGAAGAGAGCTCAGTTCAGGCACTATTGATGCTTGTATTGAAGAAGATGGAATACTAT
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ATTTTGAATGGATGGTCTCAGCCTTTGGATCCCGAAAAACAATTTTGTGGAGGTGTTCTAGGCC
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ACAGATCCTGAGCTAAAATACCCAAAAGGTGCTGGGCGAGTTGCTTTCTCAATCAGCAGAGCTATATTG
CTGCCATTAGTCTCGGTTTGTTCAGCTTACGATGGTATTTGATAAACGTGTGGAGGTAAGCCATA
TGTGCTAGATGACCAGATGTGTGATGAATGCCAGGGCGCAGCTGTGGTGGAAAATTTGCTCCCTTTTT
TGTGCAAATGTCATTGCCTGCAGTATTACTGTGAGTTTTGTTGGCAAATATCCACTCTGTGCTGGAC
GTGAGTCCATAAGCCATTGGTAAAGGAAGGTGCTGATCGCCACGTGAGTCCACTTCCGCTGGAAC
A
    
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_182485 unedited ACGAGCGCGTCGCCGCCGCCGCTGCCCGGCTTCGGCACCCCTGGTTCGGTGCAGACCGCG TCGCCGCCACCCAGCCCAGCAGCCGCGCCGACCCAGCCGAGCAGCAGCCGCGCCA CCCCAGCAGCCGCCAGCCGAGCCGAGCCGCCGCGCTCGTCTGCCACCCCGGGC GGCGGACGCGGCGCTCGCTCAACGCCATGCCCGCCAGCCCGACTCAGAGAACGGC TTCTACCCCGGGCTGCCGTCGTCCATGAACCCGGCCTTCTCCCTAGCTTCTCGCCCGTG TCGCCGCACGGCTGCACTGGGCTCAGCGTTCGACGAGCGCGCGGGCGGCG
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_182485 unedited NGGGGCCCTTTGGGNGATGGCACTTCCCAGGGTCCAGGNGAGGGGCACTGGGGGCAGGGG GTCACAGGNGATGCCACCCGGGATCTGTTTCAGGAAACAGCTTGACCGCGGCCGAATCTA GAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTCAATACCTTAATAGTTAATTAGCCAG CCAACATTTTTACAAATTTTTAAAAATTAATATAAATGGTGGGCAGCAAATATTC CTTTACAGAGTTAATTTACCGGTCCAACAGACGGGAGATTAAACCCGGGAAGAT AACATTAATAAACCTAAATTTTTTAACGAAAAATTAAGCGGAGGGGTTTACCTAGGG CCATAAAAGCAGGGTTCTCTTTTTATTTAAAAAAAATAAAAAACGGCTTTAACCCCC CTTTGGGAATATAAAATAAAATCACCGAAAAATATTATTTGGCATATCAAAGACCTTTT ATAATTACAATCCAAACCCTCCATAACCCACTTGGGCGATTCTATACGGAACCGGGGAAT TAAAACTAGTGGCTTTAATATTACAAAGATTTTCCAGCTCCAAAAATAATCACCATAAAA TAAACTTTACCAATTAGGGCCATAAAATATATATTTCCCATAAAAATCCCAATATTT TTAGGGACAGGATTTTAAAAATTTTCTCCGGTATTTACTACTATTAAGTAAATAAA CCCCCAAAACCAAAATTGNGAATGGGCTGAAAAAGGCCTCTCTTTTGGTAGCAAACCC CTGTCCCAAAACCTACCATCATTACTTCAAGTACAAGTTTTTCGGGGGTTAAAAAAA ATTGGGCAGGACCAAGGGGTATCTTTTCGGGACAGAAAAAAGGGCCCGGGGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_182485
<b>Insert Size:</b>	5400 bp
<b>OTI Disclaimer:</b>	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.
	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>Components:</b>	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\\_182485.1](#), [NP\\_872291.1](#)

**RefSeq Size:** 5627 bp

**RefSeq ORF:** 1770 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 (B) lacks two alternate in-frame exons in the central coding region, compared to variant D. The resulting isoform (B) lacks two internal segments, 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.