

Product datasheet for **SC107390**

CPEB4 (NM_030627) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPEB4 (NM_030627) Human Untagged Clone
Tag:	Tag Free
Symbol:	CPEB4
Synonyms:	CPE-BP4; hCPEB-4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_030627, the custom clone sequence may differ by one or more nucleotides

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ATGGGGGATTACGGGTTGGAGTGTAGTGC AAAGCAACTACTGGGAATAAATCTGCTTTCCAGTCAGAT
TCCATCCACATCTGCAGCCTCCACACCATCACAAAATGCCACCCAGCCCTGCTGCTTTATAAATAA
TAACACAGCTGCCAATGGCAGCAGTGTGGGTCAGCTTGGCTTTTCTGCTCCAGTACCATAACATT
CAGGATGAGATCTTGGGGTCAGAAAAAGCAAAAAGTCAGCAACAGGAACAGCAAGACCCCTTAGAAAAGC
AGCAGCTTTCCCAAGTCCAGGTCAGGAAGCTGGAATACTGCCTGAAACAGAGAAGGCAAAATCAGAAGA
AAATCAAGGGGACAATTCTTCGAAAAATGGCAATGGGAAGGAGAAAAATAAGGATCGAATCTCCAGTGTTG
ACAGGGTTTGATTATCAAGAAGCCACTGGGCTAGGTACTTCAACCCAACCCCTTGACATCTAGCGCATCGT
CTCTTACTGGTTTCAGTAACTGGTCAGCAGCGATAGCGCCTTCTCCTCTACAATAATCAATGAAGATGC
AAGTTTCTTCCACAGGGAGGGTCCCTGCTGCTTCGGCTAATAACGGTGTCTGTTGTTTCAAATTTT
CCCCATCATGTCAGCCCTGGCTTTGGAGGCAGCTTCTCCTCAGATCGGGCCTCTCTCACAGCACCACC
CACATCACCTCATTTCCAGCATCATCACAGCCAGCATCAGCAGCAAAGGAGGTCTCTGCCAGTCCCCA
TCCCCCACCCTTACACATAGAAATGCTGCTTTTAAACCAGCTGCCTCATTTGGCGAATAATCTTAACAAA
CCCCCTCTCCGTGGAGCAGCTACCAGAGTCCGTACCAACACCCTCCTCTTCTGGAGCCCGGGCGGTG
GTGGATATGGTGGCTGGGGAGGTTCCAAAGCCGAGATCACCGCAGAGGGCTGAATGGTGGAAATAACGCC
CCTGAACCTCATCTCGCCTTTGAAGAAAAATTTGCAAGCAATCATATTCAGCTCCAGAAGTATGCTCGC
CCCAGCTCTGCCTTTCACCTAAATCCTGGATGGAAGATAGCTTGAACAGGGCTGACAACATTTTCTT
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AAATGATACCATTAAAGGTCGTCTAAACTATTCATATCCAGGATCCGATAGCTCTCTGCTTATTAATGCA
AGGACATATGGGCGAAGGAGAGGTCAGTCTTCACTGTTTCCAATGGAAGATGGATTCTTGGATGATGGCC
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GGAACGATATTCTCGAAAGGTGTTTGTAGGCGGATTGCCTCCAGACATTGATGAAGATGAGATCACAGCT
AGTTTTCGTCGCTTTGGCCCTCTGATTGTGGATTGGCCTCATAAAGCTGAGAGCAAAATCCTATTTTCTC
CTAAAGGCTATGCATTCTGCTGTTTCAAGATGAAAGCTCTGTGCAGGCTCTCATTGATGCATGCATTGA
AGAAGATGGAAAACCTACCTTTGTGTATCAAGTCCCCTATCAAGGATAAGCCAGTCCAGATTCGGCCT
TGGAACTCAGTGACAGTGACTTTGTGATGGATGGTTCACAGCCACTTGACCCACGAAAACTATATTTG
TTGGTGGTGTTCCTCGACCATTACGAGCTGTGGAGCTTGGATGATAATGGATCGGCTATATGGAGGTGT
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AATCAACAGAGTTACATAGCTGCTATCAGTGCCCGCTTTGTTTCACTGCTGCAGCATGGAGAGATAGATAAC
GGGTGGAAGTTAAGCCATATGTCTTGGATGATCAGCTGTGTGATGAATGTCAGGGGGCCCGTTGTGGGG
GAAATTTGCTCCATTTTCTGTGCTAATGTTACCTGTCTGCAGTATTACTGTGAATATTGCTGGGCTGCT
ATCCATTTCTGTGCTGGCAGGGAATCCACAAGCCCTGGTGAAGGAAGGCGGTGACCGCCCTCGGCATA
TTTCATTCGCTGGAATAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_030627 unedited
 GTATTTTGTAAATACGACTCACTATAGGGNNCGGCCGCAATTCGGCACGAGGAAAAA
 AAGCGTGAGACATCAGGTTGTCATTTTTATTGTGAGATTCTGCTCCTAAAGATAATAA
 TGGGGGATTACGGGTTTGGAGTGCTAGTGCAAAGCAACTGGAATAAATCTGCTTTTC
 CAGTCAGATCCATCCACATCTGCAGCCTCCACACCATCACAAAATGCCACCCAGCC
 CTGCTGCTTTTATAAATAATAACACAGCTGCCAATGGCAGCAGTGCTGGGTCAGTTGGC
 TTTTCTGCTCCAGCTACCCATAACATTCAGGATGAGATCTTGGGGTCAGAAAAAGCAA
 AAAGTCAGCAACAGGAACAGCAAGACCCCTTAGAAAAGCAGCAGCTTCCCAAGTCCAG
 GTCAGGAAGCTGGAATACTGCCTGAAACAGAGAAGGCAAAATCAGAAGAAATCAAGGG
 ACAATTCTTCGAAAAATGGCAATGGGAAGGAGAAAAATAAGGATCGAATCTCCAGTGTGA
 CAGGGTTTGATTACAAGAAGCCACTGNGCTAGGTACTCAACCAACCCCTTGACATCTA
 GCGCATCGTCTTACTGGTTTCAGTAAGTGGTCAGCAGCGATAGCGCCTTCTCCTCTA
 CAATAATCAATGAAGATGCAAGTTTCTTACCAGGGAGGCGTCCCTGCTGCTTCCGCTA
 ATAACCGTCTGNTGTCTCAAAATCCCCCATCATGTCAGCCCTGGCTTTGGAGGCAG
 CTTCTCTTCTCAGATCGGGCCTTCTCACAGGACCACCAATCACCTCATTTCCGCATC
 ATTACACCCGATTAGCAGCAAAGGAGGTCTCCTGCCAATCCCATACCCACCCCTCAAC
 CATAGAATGCTGCTTTTACCCTTGCCATTTGGCGAAAAATCTTAAACCCCCCTTCCG
 TGGAGCG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_030627 unedited
 NNNNNTTTTAGCTATGNACCGGCCCGCATNCTAGGATCGAGTTTTTTTTTTTTTTTT
 TTCTGATGTGGTGGTAACTTTTTGGAGGATAATGAAATTATGTTACGCTCAAAACCTG
 AAAATTAATTATAATGCTGCTCAGTCTTCTTATGCATTTGTTTCTTAAACATGCTCTT
 TCCATTAATAAATTGTTAACTTCCCTCATTGCTGTTAAAAAATTAATAAGGGATGAAAA
 AAGAGAGAGACAAAAAGATGAAAAAAGAAAAAAGAAAGGAAAAAGGCAAAAGCACT
 TCCCTGGGGAAAAACTGTCAGATAGACCGATAGTGTATTGTTGCATGGTTATTTAAT
 AAAAGTATTCTTATATGTTATATTATTAACAATAATTTAATAAAAAACCAAAACTCT
 ATGTTTCATTTCTTTAATATTTCTCTCTCCTCTAAGAAAATGTTGCAGGAAGTT
 TGGATCCTCTTGGTTCCAGCAAAACAAGAGAATAAACTTCCATGCAACCCGATGGCAA
 TACGAAAAAGGAGTTTCAATTTGTTGTCAGTGACACAAGAATCTACAAAACACCTATATTA
 TAGGTCATTCTTTTCACTATACTATAGTTAAGTTACAGACTGCTACAAAAGGACATGCCA
 NCGTGAAGAGGTTGAGGAAGGGTCAAAATGAACAGAAGAGTGCACTTATTCTGAGGCCT
 GAAAAATGAGCACTGCAGTTATCCTTTAGTTCCAGCGGAATGAAATATGCCGAGGGCGGTC
 ACCGCCTTTCTTACCAGGGGCTTGTGGGAATCCCTGCCAGCACGAGAATGTATAGCAG
 CCCAGCATATTCACAGTATACTGCAGACAGGTAACATTAGCACAGAAA

Restriction Sites:

NotI-NotI

ACCN:

NM_030627

Insert Size:

2880 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:	<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:	NM_030627.1 , NP_085130.1
RefSeq Size:	6930 bp
RefSeq ORF:	2190 bp
Locus ID:	80315
UniProt ID:	Q17RY0
Cytogenetics:	5q35.2
Gene Summary:	<p>Sequence-specific RNA-binding protein that binds to the cytoplasmic polyadenylation element (CPE), an uridine-rich sequence element (consensus sequence 5'-UUUUUAU-3') within the mRNA 3' UTR (PubMed:24990967). RNA binding results in a clear conformational change analogous to the Venus fly trap mechanism (PubMed:24990967). 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 (By similarity). Required for cell cycle progression, specifically for cytokinesis and chromosomal segregation (PubMed:26398195). 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 (PubMed:27857118). In contrast to CPEB1 and CPEB3, does not play role in synaptic plasticity, learning and memory (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).</p>