

## Product datasheet for **RC238507**

### **CPEB1 (NM\_001288819) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CPEB1 (NM_001288819) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CPEB1
Synonyms:	CPE-BP1; CPEB; CPEB-1; h-CPEB; hCPEB-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238507 representing NM\_001288819  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTTTTCCCAACCTCTGCGCAAGAATCTCCCGTGGCCTCCCAGATGCAAATGACTTGTGCCTTGGCC  
 TGCAGTCCCTCAGTCTGACAGGCTGGGACCGACCTGGAGCACCCAGGACTCAGATTCTCAGCCCAGAG  
 CAGCACACACTCGGTAAGTCTGAGCATGCTCCATAACCCACTGGGAAATGTCTTAGGAAAACCCCTTGAGC  
 TTCCTGCCTCTGGATCCCCTTGGGTCTGACTTGGTGGACAAGTTCCAGCACCCCTCAGTTAGAGGATCAC  
 GCCTGGACACCCGGCCATCCTGGACTCTCGATCTAGCAGCCCTCTGACTCAGACACCAGTGGCTTCAG  
 CTCTGGATCAGATCATCTCTCAGATTTGATTTCAAGCCTTCGCATTTCTCCACCTCTGCCCTTCTGTCT  
 CTGTCCAGGGGTGGTCCCAGAGACCTTTAAAGATGGGGTAGGGTCTCGGATGGACCAAGAGCAAGCTG  
 CTCTTGTGCAGTCACTCCCTCCCAACCAGTCTTCAAAGAGATGGCCAGGAGCTTCTGTGTGGCCATC  
 CTGGGACCTCCTCGAAGCTCCCAAGACCCCTTACAGCATAGAGAGAGAGGCCAGGCTGCACCGACAAGCT  
 GCAGCTGTGAATGAAGCCACCTGTACCTGGAGTGGCCAGCTTCTCCCGGAACTATAAGAACCCCATCT  
 ACTCTTGAAGGTGTTTCTAGGAGGTGTTCTTGGGATATTACAGAAGCTGGATTAGTTAACACCTTCCG  
 TGTTTTGGCTCTTTGAGTGTGGAGTGGCTGGTAAGGATGGCAAGCATCCCCGGTGTCTCCCAAAGGG  
 TATGTGTATCTGGTCTTGAAGTGAAGTCTGTCCGATCCTTGCTTCAAGGCTTCTCATGACCCGC  
 TGAGCCCAGATGGCTGAGTGAATATTATTTCAAGATGTCCAGCCGAAGGATGCGCTGCAAGGAGGTGCA  
 GGTGATCCCCTGGGTATTAGCCGACAGTAACTTTGTCGGAGCCCATCTCAGAGGCTTGACCCAGCAGG  
 ACGGTGTTGTGGTGTCTGCATGGAATGCTAAATGCTGAGGCCCTGGCAGCCATCTTGAACGACCTAT  
 TTGGTGGAGTGGTGTATGCCGGATTGACACAGATAAGCACAAGTATCCATTGGTCTGGTGTGTGAC  
 TTTCAATAACCAACGGAGTTACCTGAAAGCAGTACAGCGTGTCTTTGTGGAGATCAAACCCACCAAGTTC  
 ACAAGAAGGTTAGATTGACCCCTACCTAGAAGATTCTGTGTGATATCTGCAGTTCTCAGCCTGGTC  
 CTTTCTTGTGCGAGATCAGGTCTGCTTCAAATACTTCTGCCGGAGCTGCTGGCACTGGCGGCACAGCAT  
 GGAGGGCTGCGCCACCACAGCCCTGATGCGGAACCAAGAACCGAGATTCCAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238507 representing NM\_001288819  
 Red=Cloning site Green=Tags(s)

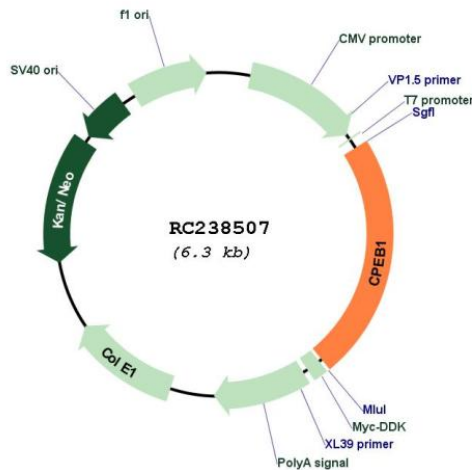
MLFPTSAQESSRGLPDANDLCLGLQSLSLTGWDRPWSTQDSDSSAQSSSTHSVLSMLHNPLGNVLGKPPLS  
 FLPLDPLGSDLVDKFPAPSVRGSRLDTRPILDSRSSSPSDSTSGFSSGSDHLSLISLRI SPPLPFLS  
 LSGGGPRDPLKMGVGSMDQEQAALAAVTPSPTSASKRWPASVWPSWDLLEAPKDPFSIEREARLHRQA  
 AAVNEATCTWSGQLPPRNYKNPIYSCKVFLGGVPWDITEAGLVNTRFRVFGSLSVEWPGKDGKHPRCPPKG  
 YVYL VFELEKSVRSLLQACSHDPLSPDGLSEYYFKMSSRRMRCKEVQVIPWVLADSNFVRSPSQRLDPSR  
 TVFVFGALHGMLNAEALAAILNDLFGGVVYAGIDTDKHKYPIGSGRVTFNQORSYLKAVSAAFVEIKTKF  
 TKKVQIDPYLEDLSLCHICSSQPGPFVCRDQVCFKYFCRSCWHWRHSMEGLRHHSPLMRNQKNRDSS

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

**Plasmid Map:**

**ACCN:**

NM\_001288819

**ORF Size:**

1458 bp

**OTI Disclaimer:**

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. [More info](#)

**OTI Annotation:**

This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001288819.1, NP_001275748.1</u>
<b>RefSeq Size:</b>	3549 bp
<b>RefSeq ORF:</b>	1461 bp
<b>Locus ID:</b>	64506
<b>UniProt ID:</b>	<u>Q9BZB8</u>
<b>Cytogenetics:</b>	15q25.2
<b>Protein Pathways:</b>	Dorso-ventral axis formation, Oocyte meiosis, Progesterone-mediated oocyte maturation
<b>MW:</b>	54.1 kDa
<b>Gene Summary:</b>	<p>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]</p>