

Product datasheet for **RG238507**

CPEB1 (NM_001288819) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPEB1 (NM_001288819) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CPEB1
Synonyms:	CPE-BP1; CPEB; CPEB-1; h-CPEB; hCPEB-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG238507 representing NM_001288819.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCTTTTCCCAACCTCTGCGCAAGAATCTTCCCGTGGCCTCCCAGATGCAAATGACTTGTGCCTTGGC
CTGCAGTCCCTCAGTCTGACAGGCTGGGACCGACCCCTGGAGCACCCAGGACTCAGATTCTCAGCCCAG
AGCAGCACACACTCGGTACTGAGCATGCTCCATAACCCACTGGGAAATGCTCTAGGAAAACCCCTTG
AGTTCCTGCCTCTGGATCCCCTTGGGTCTGACTTGGTGGACAAGTTCCAGCACCTCAGTTAGAGGA
TCACGCTGGACACCCGGCCATCCTGGACTCTCGATCTAGCAGCCCTCTGACTCAGACACCAAGTGGC
TTCAGCTCTGGATCAGATCATCTCTCAGATTTGATTTCAAGCCTTCGCATTTCTCCACCTCTGCCCTT
CTGTCTCTGTGAGGGGTGGTCCAGAGACCCCTTAAAGATGGGGTAGGGTCTCGGATGGACCAAGAG
CAAGCTGCTCTTGTGACGTCACCTCCCAACCAAGTCTTCAAGAGATGGCCAGGAGCTTCTGTG
TGGCCATCTGGACCTCTCGAAGCTCCCAAGACCCCTTCCAGATAGAGAGAGAGGCCAGGCTGCAC
CGACAAGCTGCAGCTGTGAATGAAGCCACCTGTACCTGGAGTGGCCAGCTTCTCCCGGAATAAAG
AACCCATCTACTCTTGAAGGTGTTTCTAGGAGTGTTCTTGGGATATTACAGAAGCTGGATTAGTT
AACACCTCCGTGTTTTGGCTCTTTGAGTGTGGAGTGGCCTGGTAAGGATGGCAAGCATCCCGGTGT
CCTCCAAAGGTATGTGTATCTGGTCTTGAAGTACGAGAAGTCTGTCCGATCCTTGTCTCAGGCTTGC
TCTCATGACCCGCTGAGCCAGATGGCCTGAGTGAATATTATTTCAAGATGTCCAGCCGAAGGATGCGC
TGCAAGGAGGTGCAGGTGATCCCTGGTATTAGCCGACAGTAACCTTGTCCGGAGCCATCTCAGAGG
CTTGACCCAGCAGGACGGTGTGTGGTGTGATGCGGGATTGACACAGATAAGCACAAGTATCCCAT
GGTTCTGGTCTGTGACTTTCAATAACCAACGGAGTACCTGAAAGCAGTCAAGGCTGCTTTTGTGGAG
ATCAAAACCAAGTTCACAAAGAAGTTCAGATTGACCCCTACCTAGAAGATTCTCTGTGTCATATC
TGAGTCTCAGCCTGGTCTTTCTTGTGAGATCAGGTCTGCTTCAAATACTTCTGCCGGAGCTGC
TGGCACTGGCGGCACAGCATGGAGGGCCTGCGCCACCACAGCCCTGATGCGGAACCAGAAGAACCGA
GATTCCAGC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTAAAC
```

Protein Sequence:

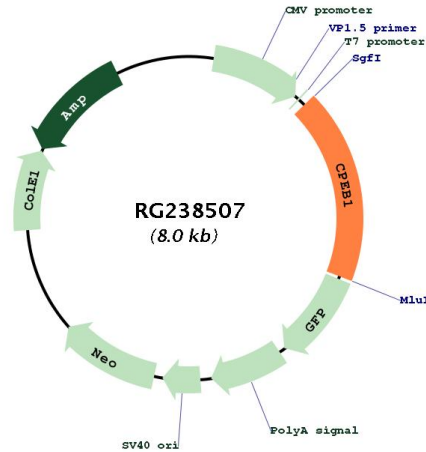
>Peptide sequence encoded by RG238507
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MLFPTSAQESSRGLPDANDLCLGLQSLSLTGWDRPWSTQSDSSAQSSTHSVLSMLHNPLGNVLGKPP
SFLPLDPLGSDLVDKFPAPSVRGSRLDTRPILDSRSSPSDSDTSGFSSGSDHLSLIISSLRISPPLPF
LSLGGGPRDPLKMGVGSRMDQEAALAAVTPSPTSASKRWPGASVWPSWDLLEAPKDPFSIEREARLH
RQAAAVNEATCTWSGQLPPRNYKNPIYSCKVFLGGVPWDITEAGLVNTRFRVFGSLSVEWPGKDGKHPRC
PPKGYVYLVFELEKSVRSLQLACSHDPLSPDGLSEYFFKMSSRRMRCKEVQVIPWVLADSNFVRSQSQR
LDPSRTVFGALHGMLNAEALAILNDLFGGVVYAGIDTDKHKYPIGSGRVTFNNQRSYLKAVSAAFVE
IKTTKFTKKVQIDPYLEDLSLCHICSSQPGPFPCRQVCFKYFCRSCWHWRHSMGLRHHSPLMRNQKNR
DSS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites:

Sgfl-Mlul

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).

RefSeq: [NM_001288819.1](#), [NP_001275748.1](#)

RefSeq Size:	3549 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:	54.1 kDa
Gene Summary:	<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>