

## Product datasheet for **RG237521**

### **CPEB1 (NM\_001288820) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CPEB1 (NM_001288820) 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)
ORF Nucleotide Sequence:	>RG237521 representing NM_001288820. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
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TTCAGCATAGAGAGAGAGGCCAGGCTGCACCGACAAGCTGCAGCTGTGAATGAAGCCACCTGTACCTGG
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AAGTCTGTCCGATCCTTGTTCAGGCTTCTCATGACCCGCTGAGCCAGATGGCCTGAGTGAATAT
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CTGAAAGCAGTCAGCGCTGCTTTTGTGGAGATCAAACCACCAAGTTCACAAAGAAGGTTTCAGATTGAC
CCCTACCTAGAAGATTCTCTGTGCATATCTGCAGTCTCAGCCTGGTCCCTTTCTTGTGCGAGATCAG
GTCTGCTCAAATACTTCTGCCGAGCTGCTGGCACTGGCGGCACAGCATGGAGGGCCTGCCACCAC
AGCCCCCTGATGCGGAACCAAGAAGAACCGAGATCCAGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237521  
 Blue=ORF Red=Cloning site Green=Tag(s)

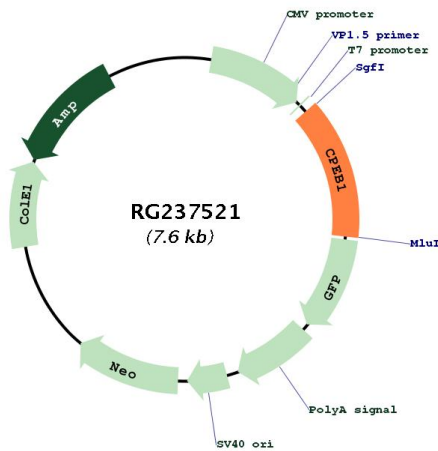
MGVSRMDQEQAALAAVTPSPTSASKRWPGASVWPSWDLLEAPKDPFSIEREARLHRQAAVNEATCTW  
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 KSVRSLQLQACSHDPLSPDGLSEYFFKMSSRRMRCKEVQVIPWVLADSNFVRSQSRLDPSRTVVFVGLH  
 GMLNAEALAAAILNDLFGGVVYAGIDTDKHKYPIGSGRVTFNQORSYLKAVSAAFVEIKTKTKKQID  
 PYLEDSLCHICSSQPGPFPCRDQVCFKYFCRSCWHWRHSMEGLRHHSPLMRNQKNRDS  
**TRTRPLEME**SDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEL  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001288820

<b>ORF Size:</b>	1005 bp
<b>OTI Disclaimer:</b>	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>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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).
<b>RefSeq:</b>	<a href="#">NM_001288820.2</a>
<b>RefSeq Size:</b>	2868 bp
<b>RefSeq ORF:</b>	1008 bp
<b>Locus ID:</b>	64506
<b>Cytogenetics:</b>	15q25.2
<b>Protein Pathways:</b>	Dorso-ventral axis formation, Oocyte meiosis, Progesterone-mediated oocyte maturation
<b>MW:</b>	38.2 kDa
<b>Gene Summary:</b>	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]