

Product datasheet for **RG217504**

CPEB2 (NM_182646) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPEB2 (NM_182646) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CPEB2
Synonyms:	CPE-BP2; CPEB-2; hCPEB-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG217504 representing NM_182646
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCCGCCAGCCCCGACTCAGAGAACGGTCTACCCCGGGCTGCCGTCGTCATGAACCCGGCT
 TCTTCCCTAGCTTCTCGCCCGTGTCCGCCACGGCTGCACTGGGCTCAGGTTCCGACGAGCGCGCGG
 CGGCGCGGGCTTTCGCGGCCCTTCTCGGCTACCGCTGTGCCCTCCGCGCGCCCGCCATGAATATA
 CCTCAACAGCAGCCCCCGCCCGCGCGCGCAGCAGCCGAGAGCCGGAGGTCGCCCCGAGCCCGC
 AGCTCCAGCAGCAGCACCAGGCGCGGCCCGCCCTTCTGCAGCAGAGGAACTCTATAACCACCACCA
 GCCTCTTCTGAAACAGTCTCCCTGGAGCAACCATCAGAGCAGTGGCTGGGCACTGGAAGTATGCTCTGG
 GGAGCAATGCATGGCAGAGATCATCGTAGAACCGGAAACATGGGAATCCCAGGAACTATGAATCAGATAT
 CTCCATTGAAGAAACCGTTTTCTGGTAAATGTCATAGCACCACCGAAATTTACTCGCTCACTCCATCACT
 GACTCCAAAATCTGGATTGAAGATAATGTGTTTCAAGACAGACAACAATAGTAATACACTTTACCTTA
 CAGGATCGAAGTAGAATGTATGACAGTTTGAATATGCACTCTTTGGAAAATTCCTTATCGATATTATGA
 GAGCAGAGCATGATCCTCTTAAGGGTCGATTGAGCTATCCACATCCAGGAACTGACAATCTGTTGATGTT
 AAATGGTCGTTCTTCCCTCTTCCAATAGATGATGGCTTGCTTGTATGATGGTCACAGTATCAAGTTGGA
 GTTTTAAATTCACCCACCTGTTATTCAGCTCACAAAATGGAGAGCGAATAGAACGCTTCTCTCGAAAAG
 TTTTGTGGTGGTCTTCTCCAGATATTGATGAAGATGAAATAACTGCTAGCTTCAAGAGATTTGGGCC
 TTTGGTAGTAGATTGGCCTCATAAAGCAGAAAGCAAGTCTATTTCCACAAAAGGCTATGCATTTCTT
 CTCTTTCAAGAAGAGAGCTCAGTTCAGGCACTATTGATGCTTGTATTGAAGAAGATGGAAAATCTATC
 TGTGTGTTTCTAGCCCTACTATCAAGGACAAACCAGTTCAAAATACGTCCTTGAATTTAAGTATGATGTA
 TTTTGTAAATGGATGGTTCTCAGCCTTTGGATCCCGAAAAACAATTTTTGTTGGAGGTGTTCTAGGCCA
 TTAAGGGCTGTGGAACCTGCTATGATCATGGACCGGCTGTATGGTGGAGTTTGTATGCAGGAATTGATA
 CAGATCCTGAGCTAAAATACCCAAAAGGTGCTGGGCGAGTTGCTTCTCCAATCAGCAGAGCTATATTGC
 TGCCATTAGTGTGCTGTTTGTTCAGCTTTCAGCATGGTATATTGATAAACGTGTGGAGGTAAGCCATAT
 GTGCTAGATGACCAGATGTGTATGAATGCCAGGGCGCACGCTGTGGTGGAAAATTTGCTCCTTTTTTT
 GTGCCAATGTCACTTGCCTGCAGTATTACTGTGAGTTTTGTTGGGCAATATCCACTCTCGTGTGGACG
 TGAGTTCCATAAGCCATTGGTAAAGGAAGGTGCTGATCGCCACGTCAGATCCACTCCGCTGGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG217504 representing NM_182646
 Red=Cloning site Green=Tags(s)

MPPSPDSENGFYPLPSSMNPFFPSFSPVSPHGCTGLSVPTSGGGGGFGGPFSAATVPPPPPPAMNI
 PQQQPPPAAPQQPQSRSPVSPQLQQHQAAAAAFLQQRNSYNHHQLLQKSPWSNHQSSGWTGSMWS
 GAMHGRDHRRTGNMIGPTMNQISPLKKPFSGNVIAPPKFTRSTPSLTPKSWIEDNVFRDNNSTLLPL
 QDRSRMYDSLNMHSLLESLIDIMRAEHDPLKGRLSYPHPGTDNLLMLNGRSSLFPIDGGLDDGHSQVVG
 VLNSPTCYSAHQNGERIERFSRKVFVGGLPDIDEDEITASFRFGPLVVDWPHKAESKSYFPKGYAFL
 LFQEESSVALIDACIEEDGKLYLCVSSPTIKDKPVQIRPWNLSDSDFVMDGSQPLDPRKTI FVGGVPRP
 LRAVELAMIMDRLYGGVYAGIDTPELKYKAGRVAFSNQSYIAAISARFVQLQHGIDKRVEVKPY
 VLDDQMCDECQGARCGGKFAFFFCANVTCLQYYCEFCWANIHSRAGREFHKPLVKEGADRPRQIHFWRN

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_182646
ORF Size:	1677 bp
OTI Disclaimer:	<p>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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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).
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:	<u>NM_182646.1</u> , <u>NP_872587.1</u>
RefSeq Size:	5537 bp
RefSeq ORF:	2991 bp
Locus ID:	132864
UniProt ID:	<u>Q7Z5Q1</u>
Cytogenetics:	4p15.32
Gene Summary:	<p>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]</p>