

Product datasheet for **RG230615**

CPEB2 (NM_001177381) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CPEB2 (NM_001177381) 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)
ORF Nucleotide Sequence: >RG230615 representing NM_001177381
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGAGGGATTTTCGGGTTTGGGGTCTGCAGACCGCCCCGCTCCGAAGTAGCAGTCTGGGCCCTGTTCT
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 AGGATGAGCTGCTTCTGGGGCTGACACAGCAGCCGGCGCGCCGCTTTCGGGGCGGGCCACGGAGAA
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CCCTTCTCGGCTACCGCTGTGCCCTCCGCCGCCGCCGCCATGAATATACCTCAACAGCAGCCCCCGC
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TGCTCCCTTTTTTGTGCCAATGCACTTGCCCTGCAGTATTACTGTGAGTTTTGTGGGCAAAATATCCAC
TCTCGTGTGGAGTGAGTTCATAAGCCATTGGTAAAGGAAGGTGCTGATCGCCACGTCAGATCCACT
TCCGCTGGAAC
    
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG230615 representing NM_001177381
 Red=Cloning site Green=Tags(s)

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MRDFGFGVLQAPLRSSSPGPLFCGEAYGPYAVGSVNPLPSATPFGLSPPPLPVTGFLEASPFVPLG
GGAGSPAAAASSSPFLAHQQTMDLLELLGLTQQPARPLSGAAATEKLPDHPGGGTIAGVTHLLPSQDF
KPSLHHPSSSSASSCCCRSSPQDFSKRQQQLSSQKRKEFSPPHLPHPDPSKPPPPPLHCPGRFSP
PPPPAGPLLQPAQLAQRQQQPPQFSLHQQHLSQDFAPRQRPADLPPLPQLPPSPPAARRRRHGGAG
SPRKTPAAGEGSAESPNAGLASSTPVNPAPGSMESPNHPLLNSPSNLLPGGALGAGAFSSLQSPDLPH
GGGGGGGGGPPGGGGGGSASPPPLPGFGTPWSVQTASPPQPQPPPTQPQQPPPPQPQPQPQP
GSSATTPGGGSGGSLSAMPPSPDSENGFYPLPSSMNPAPFFSFPVSPHGCTGLSVPTSGGGGGGFGG
PFSATAVPPPPPPAMNIPQQQPPPPAAPQPPQSRSPVSPQLQQQHAAAAAFLQQRNSYNHHQPLLKQS
PWSNHQSSGWTGSMSWGAMHGRDHRRTGNMGIPTMNQISPLKPFSGNVIAPPKFTTRSTPSLTPKSWI
EDNVFRTDNNSTLLPLQVRMDRSRMYDSLNMHSLNSLIDIMRAEHDPLKGRLSYHPGTDNLLMLNAR
SYGRRRGRSSLFPIDGLLDDGHSQVGVLSNPTCYSAHQNGERIERFSRKVVFVGGLPDIDEDETASF
RRFGPLVVDWPHKAESKSYFPPKGYAFLFQEESSVQALIDACIEEDGKLYLCVSSPTIKDKPVQIRPWN
LSDSDFVMDGSQPLDPRKTIFFVGGVPRPLRAVELAMIMDRLYGGVVCYAGIDTDPELKYPKAGRVAFSNQ
QSYIAAISARFVQLQHGDIDKRVEVKPYVLDQMCDECCQARCGGKFAFFFCANVTCLQYYCEFCWANIH
SRAGREFHKPLVKEGADRPRQIHFRWN
    
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TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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_001177381.2</u>
RefSeq Size:	6797 bp
RefSeq ORF:	3024 bp
Locus ID:	132864
UniProt ID:	<u>Q7Z5Q1</u>
Cytogenetics:	4p15.32
Gene Summary:	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]