

Product datasheet for **RG230612**

CPEB2 (NM_001177383) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CPEB2 (NM_001177383) 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: >RG230612 representing NM_001177383
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGGATTTTCGGGTTTGGGGTCTGCAGACCGCCCGCTCCGAAGTAGCAGTCTGGGCCCTGTTCT
 GCGGCGAGGCGTATGGTCCTTACGCCGTGGGGTCCGTCAACCCGCTGCCCTCCGCCACGCCCTTCGGCCC
 ACTGTCCGACACCACCGTTGCCTGTACCCGGCTTCTTAGAGGCCGCTCCCCCTTCTCCGTCGCCCTCGGC
 GCGGCGCGGGCAGCCCGCCGCGCCGCTTCTTCTCCCGTTCTGGCGCATCAGCAGACCATGC
 AGGATGAGCTGCTTCTGGGGTACACAGCAGCCGGCGCGCCGCTTTCGGGGCGGGCCACGGAGAA
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CCCTTCTCGGCTACCGCTGTGCCCTCCGCCGCCGCCGCCATGAATATACCTCAACAGCAGCCCCCGC
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GGACGTGAGTTCCATAAGCCATTGGTAAGGAAGGTGCTGATCGCCACGTCAGATCCACTCCGCTGGA
AC
    
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG230612 representing NM_001177383
 Red=Cloning site Green=Tags(s)

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MRDFGFGVLQTAPLRSSSPGPLFCGEAYGPYAVGSVNPLPSATPFGLSPPPLPVTGFLEAASPFSVPLG
GGAGSPAAAASSSPFLAHQQTMQDELLGLTQQPARPLSGAAATEKLPDHPGGGTIAGVTHLLPSQDF
KPSLHHPSSSSASSCCCRSSPQDFSKRQQQLSSQKRKEFSPPHLPHPDPSKPPPPPLHCPGRFSP
PPPPAGPLLQPAQLAQRQQQPPQFSLHQQHLSQDFAPRQRPADLPPLPQLPSPPAAPRRRHGGAG
SPRKTPAAGEGSAEASNAGLASSTPVNPAPGSMESPNHPLLNSPSNLLPGGALGAGAFSSLQSPDLPH
GGGGGGGGGPPGGGGGGSASPPPLPGFGTPWSVQTASPPQPQPPPTQPQQPPPPQPPQPQPP
GSSATTPGGGSGGSLSAMPPSPDSENGFYPLPSSMNPAPFFSFSVSPHGTGLSVPTSGGGGGGFGG
PFSATAVPPPPPPAMNIPQQQPPPAAPQPSRRSPVSPQLQQHQAAAAAFLQQRNSYNHHQPLLKQS
PWSNHQSSGWTGSMWGMHGRDHRRTGNMGIPTMNQISPLKPPFSGNVIAPPKFTTRSTPSLTPKSWI
EDNVFRDNNNTLLPLQDRSRMYDSLNMHSLENSLIDIMRAEHDPLKGRLSYPHPGTDNLLMLNARSYG
RRRGRSSLFPIDGLLDDGHSQVGVLSNPTCYSAHQNGERIERFSRKVFVGGLPDIDEDEITASFRF
GPLVVDWPHKAESKSYFPPKGYAFLLFQEESVQALIDACIEEDGKLYLCVSSPTIKDKPVQIRPWNLS
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GREFHKPLVKEGADRPRQIHFRWN
    
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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:	NM_001177383.2
RefSeq Size:	6788 bp
RefSeq ORF:	3015 bp
Locus ID:	132864
UniProt ID:	Q7Z5Q1
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]