

Product datasheet for RC230615

CPEB2 (NM_001177381) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPEB2 (NM_001177381) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CPEB2
Synonyms:	CPE-BP2; CPEB-2; hCPEB-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC230615 representing NM_001177381 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGAGGGATTTCCGGTTTGGGGTCTGCAGACCGCCCCGCTCCGAAGTAGCAGTCTGGGCCCTGTTCT
GCGGCGAGGCGTATGGTCTTACGCCGTGGGGTCCGTCAACCCGCTGCCCTCCGCCACGCCCTTCGGCCC
ACTGTCCGCCACCACCGTTGCCTGTACCCGGCTTCTTAGAGCCGCTCCCCCTTCTCCGTCGCCCTCGGC
GGCGGCGCGGGCAGCCCGCCCGCCCGCTTCTCTTCCCTCCCGTTCTGGCGCATCAGCAGACCATGC
AGGATGAGCTGCTTCTGGGGTACACAGCAGCCGGCGCGCCGCTTTCGGGGGGCGGGCCACGGAGAA
ACTCCCGACACCACCCCGCGCGCGGCAGATCGCGGGTGTGACCCACCTCCTCCCTCCAGGACTTC
AAACCGAGTCTGCACCACCCCTCCTCCTCCTCCGCTCCTCCTGCTGCTGCTGCCACCTCCTCCCGC
AGGACTTCAGTAAGCGGCAGCAGCAGCTGAGCAGCCAGAAGAGGAAAGATTTCAGCCCTCCCACT
TCCCAACCTCCGACTCGAAGCCGCGCCCGCCGCTCCGCGCTCCACTGCCCGGTGGTTAGCCCG
CCGCGCCCGCCAGCCGGCCCGCTCCTCCAGCCGGCGAGCTCGCTCAGCGCCAGCAGAACAGCCCGCG
AGCAGTTCAGCTCCTGCATCAGCAGCACCTCTCGCCGAGGACTTCGCCCGCGCGAGCGTCCGGCAGA
CCTGCCCGCGCTCCCGAGCTCCCTCCCTCGCCGCTGCAGCCCGCGCGCCAGCGAGGCGCGGGC
AGCCCTCGCAAGACCCAGCCGCGGGCGAGGGCAGCGCCGCGAGTCCCCAATGCGGGCTTGGCTCCT
CGACGCCGGTGAACCCCGCGCGGGCTCCATGGAGTCCCCAACCACCTCTGCTCAACAGTCCCAGTAA
CCTCCTGCCCGAGGTGCGCTTGGCGGGGCGCTTCCAGCAGCTGCAGAGCCCGGACTTCCACACCCG
GGCGGCGCGGGCGGGGGGGGGGGGGCCCCAGGAGGCGGAGGGGGAGGGCGCTCCGCGTCCCGC
CGCCGCTGCCCGCTTCCGACCCCTGGTGGTGCAGACCGCTCGCCGCCACCCAGCCCGAGCCG
GCCCGGACCCAGCCGAGCAGCAGCCCGCCACCCAGCAGCCGCCAGCCGAGCCGAGCCGAGCCGCC
GGCTCGTCTGCCACCACCCGGGCGGGCAGCGGGCTCGCTCAGCGCATGCCCGCCCGAGCCCGC
ACTCAGAGAACGGCTTCTACCCGGGCTGCCGTCCATGAACCCGGCTTCTTCCCTAGCTTCTCGCC
CGTGTCCCGCAGCGCTGCACTGGGCTCAGCGTTCGACGAGCGCGGGCGGGCGGGCGGCTTCCGCGG
CCCTTCTCGGCTACCGCTGTGCCCTCCGCGCCCGCCCATGAATATACCTCAACAGCAGCCCCCGC



CGCCCGCGGCGCCGAGCAGCCGAGAGCCGGAGGTGCGCCGTCAGCCCGCAGCTCCAGCAGCAGACCA
 GGCGGCGCGCCGCGCCTTCTGCAGCAGAGGAACCTCTATAACCACCACCAGCCTCTTCTGAAACAGTCT
 CCCTGGAGCAACCATCAGAGCAGTGGCTGGGCACTGGAAGTATGTCCTGGGAGCAATGCATGGCAGAG
 ATCATCGTAGAACCGGAAACATGGGAATCCCAGGAACATGAATCAGATATCTCCATTGAAGAAACCGTT
 TTCTGGTAATGTCATAGCACCACCGAAATTTACTCGCTCAACTCCATCACTGACTCCAAAATCTTGGATT
 GAAGATAATGTGTTCAGAACAGACAACAATAGTAATACTCTTACCCTTACAGGTAAGAATGGATCGAA
 GTAGAATGTATGACAGTTTGAATATGCACCTTTGGAAAATCCCTTATCGATATTATGAGAGCAGAGCA
 TGATCCTCTTAAGGGTCGATTGAGCTATCCACATCCAGGAACGACAATCTGTTGATGTTAAATGCAAGG
 AGTTATGGGCGAAGACGAGGTCGTTCTTCCCTCTTCCAATAGATGATGGCTTGCTTATGATGATGGTCA
 GTGATCAAGTTGGAGTTTTAAATTCACCCACCTGTTATTCAGCTCACAAAATGGAGAGCGAATAGAACG
 CTTCTCTCGAAAAGTTTTGTTGGTGGTCTTCTCCAGATATTGATGAAGATGAAATAACTGCTAGCTTC
 AGAAGATTTGGGCTTTGGTAGTAGATTGGCTCATAAAGCAGAAAGCAAGTCTATTTTCCACAAAAG
 GCTATGCATTTCTCTCTTTCAAGAAGAGAGCTCAGTTCAGGCACTCATTGATGCTTGTATTGAAGAAG
 TGGAAAACCTATCTGTGTGTTTCTAGCCCTACTATCAAGGACAAAACAGTTCAAATACGCTCTTGGAA
 TTAAGTGATAGTATTTGTAATGGATGGTTCAGCCTTTGGATCCCCGAAAAACAATTTTTGTTGGAG
 GTGTTCTAGGCCATTAAGGGCTGTGAACTTGCTATGATCATGGACCGCTGTATGGTGGAGTTTGTTA
 TGCAGGAATTGATACAGATCCTGAGCTAAAATACCCAAAAGGTGCTGGGCGAGTTGCTTTCTCCAATCAG
 CAGAGCTATATTGCTGCCATTAGTGTCTCGGTTTGTTCAGCTTCAGCATGGTATGATGATAAACGTGGG
 AGGTAAGCCATATGTGCTAGATGACCAGATGTGTGATGAATGCCAGGGCGCACGCTGTGGTGGAAAAT
 TGCTCCCTTTTTTTGTGCAATGCACTTGCTGCAGTATTACTGTGAGTTTTGTTGGGCAAAATATCCAC
 TCTCGTCTGGACGTGAGTTCATAAGCCATTGGTAAAGGAAGGTGCTGATCGCCACGTCAGATCCACT
 TCCGCTGGAAC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230615 representing NM_001177381
 Red=Cloning site Green=Tags(s)

MRDFGFGVLQAPLRSSSPGPLFCGEAYGPYAVGSVNPLPSATPFGLSPPPLPVTGFLEASPFVPLG
 GGAGSPAAAASSSPFLAHQQTMQDELLGLTQQPARPLSGAAATEKLPDHPGGGTIAGVTHLLPSQDF
 KPSSLHHPSSSSASSCCCRSSPQDFSKRQQQLSSQKRKEFSPPHLPHPDPSKPPPPPLHCPGRFSP
 PPPPAGPLLQPAQLAQRQQQPPQFSLHQQHLSQDFAPRQRPADLPPLPQLPSPPAAPRRRHGGAG
 SPRKTPAAGEGSAEASNAGLASSTPVNPAPGSMESPNHPLLNSPSNLLPGGALGAGAFSSLQSPDLPH
 GGGGGGGGGPPGGGGGSASPPPLPGFGTPWSVQTASPPQPQPPPTQPQQPPPPQPPQPPQPP
 GSSATTPGGGSGSLSAMPPSPDSENGFYPLPSSMNPAFFPSFSPVSPHGCTGLSVPTSGGGGGGFGG
 PFSATAVPPPPPPAMNIPQQQPPPPAAPQQPQSRSPVSPQLQQQHAAAAAFLQQRNSYNHHQPLLKQS
 PWSNHQSSGWTGSMWGMHGRDHRRTGNMGIPTMNQISPLKPPSGNVIAPPKFTTRSTPSLTPKSWI
 EDNVFRDNNNTLLPLQVRMDRSRMYDSLNMHSLNSLIDIMRAEHDPLKGRLSYHPGTDNLLMLNAR
 SYGRRRGRSSLFPIDGLLDDGHSQVGVLSNPTCYSAHQNGERIERFSRKVFVGGLPDIDEDETASF
 RRFGLVVDWPHKAESKSYFPPKGYAFLLFQEESSVQALIDACIEEDGKLYLCVSSPTIKDKPVQIRPWN
 LSDSDFVMDGSQPLDPRKTFVGGVPRPLRAVELAMIMDRLYGGVVCYAGIDTDPELKYPKGAGRVAFSNQ
 QSYIAAISARFVQLQHGDIKRVKPYVLDQMCDECCQARCGGKFAFFFCANVTCLQYYCEFCWANIH
 SRAGREFHKPLVKEGADRPRQIHFRWN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

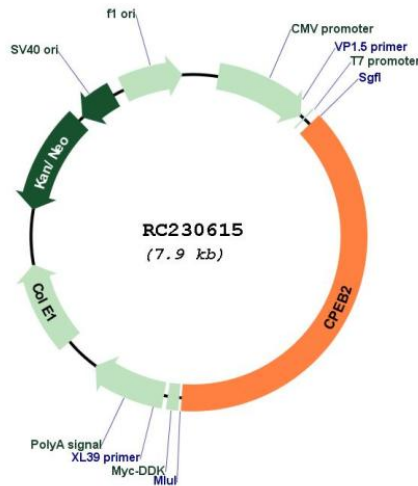
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001177381

ORF Size: 3021 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).
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 ORF:	3024 bp
Locus ID:	132864
UniProt ID:	<u>Q7Z5Q1</u>
Cytogenetics:	4p15.32
MW:	107.4 kDa
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]