

Product datasheet for RC218561

CPEB2 (NM_182485) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPEB2 (NM_182485) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CPEB2
Synonyms:	CPE-BP2; CPEB-2; hCPEB-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218561 representing NM_182485 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGGATTTTCGGGTTTGGGGTCTGCAGACCGCCCCGCTCCGAAGTAGCAGTCTGGGCCCTGTTCT
GCGGCGAGGCGTATGGTCCTTACGCCGTGGGGTCCGTCAACCCGCTGCCCTCCGCCACGCCCTTCGGCCC
ACTGTCGCCACCACCGTTGCCTGTACCCGGCTTCTAGAGGCCGCTCCCCCTTCTCCGTCGCCCTCGGC
GGCGGCGGGCAGCCCCGCGCCGCGCTTCTTCTCCCGTTCTGGCGCATCAGCAGACCATGC
AGGATGAGCTGCTTCTGGGGCTGACACAGCAGCCGGCGCGCCGCTTTCGGGGCGGGCCACGGAGAA
ACTCCCGGACCACCCCGGGCGGGCAGCATCGCGGGTGTGACCCACCTCCTCCCTCCAGGACTTC
AAACCGAGTCTGCACACCCCTCCTCCTCCGCTCCTCCTGCTGCTGCTGCCGACCTCCTCCCGC
AGGACTTCAGTAAGCGGCAGCAGCAGCAGCTGAGCAGCCAGAAGAGGAAAGATTAGCCCTCCCACT
TCCCAACCTCCGGACTCGAAGCCGCGCCGCGCCCTCCGCCGCTCCACTGCCCGGTGGTTAGCCCC
CCGCCCGCCAGCCGGCCGCTCCTCCAGCCGGCGAGCTCGCTCAGCGCCAGCAGCAACAGCCGCCG
AGCAGTTCAGCTCCTGCATCAGCAGCCTCTCGCCGAGGACTTCGCCCGGGCAGCGTCCGGCAGA
CCTGCCCGCTCCCGCAGCTCCCTCCTCGCCGCTGCAGCCCCGCGGGCCGCCACGGAGGCGGGC
AGCCCTCGAAGACCCAGCCGCGGGCAGGGCAGCGCCGCGAGTCCCCAATGCGGGCTTGGCTCCT
CGACCCGGTGAACCCCGCGCCGGCTCCATGGAGTCCCCAACCCCTCTGCTCAACAGTCCCAGTAA
CCTCCTGCCCGGAGGTGCCTTGGCGGGCGCCTTCCAGCAGCTGCAGAGCCCGGACCTTCCACACCCG
GGCGGGCGGGCGGGGGGGGGGGGGCCCCAGGAGGCGGAGGGGGAGGGGCTCCGCTCGCCG
CGCCGCTGCCCGCTTCCGACCCCTGGTGGTGCAGACCGCTCGCCGCCACCCAGCCAGCCAGCC
GCCCGCAGCCAGCCGAGCAGCAGCCGCCACCCAGCAGCCGCCAGCCAGCCAGCCAGCCGCC
GGCTCGTCTGCCACCCCGGGCGGGCAGCGGGCTCGCTCAGCGCATGCCCGCCAGCCCGC
ACTCAGAGAACGGCTTACCCCGGGTCCGTCGTCATGAACCCGGCTTCTTCCCTAGCTTCTCGCC
CGTGTCCCGCAGGCTGACTGGCTCAGCGTCCGACGAGCGGGCGGGCGGGCGGGCTTCCGGCGG



View online »

CCCTTCTCGGCTACCGCTGTGCCCCCTCCGCCGCCGCCGCCATGAATATACCTCAACAGCAGCCCCCGC
CGCCCGCGCGCCGAGCAGCCGAGAGCCGGAGGTCGCCCGTCAGCCCGCAGCTCCAGCAGCAGACCA
GGCGGGCGCCGCCCTTCTGCAGCAGAGGAACCTCTATAACCACCACCAGCCTCTTCTGAAACAGTCT
CCCTGGAGCAACCATCAGAGCAGTGGCTGGGGCACTGGAAGTATGTCCTGGGAGCAATGCATGGCAGAG
ATCATCGTAGAACCGGAAACATGGGAATCCCAGGAATGAATCAGATATCTCCATTGAAGAAACCGTT
TTCTGGTAATGTCATAGCACCACCGAAATTTACTCGCTCAACTCCATCACTGACTCCAAAATCTTGGATT
GAAGATAATGTTCAGAACAGACAACAATAGTAATACACTCTTACCCTTACAGGTGAGATCTAGTTTGC
AGTTGCCAGCTTGGGGCTCAGATTCACCTCAAGATAGTTGGTGCAGCTGCAGCCGGAACATCCAGAATAGA
CCAGGATCGAAGTAGAATGTATGACAGTTTGAATATGCACTCTTTGAAAATTCCTTATCGATATTATG
AGAGCAGAGCATGATCCTCTAAGGGTCGATTGAGCTATCCACATCCAGGAACTGACAATCTGTTGATGT
TAAATGGTCGTTCTTCCCTTTTCCAATAGATGATGGCTTGCCTGATGATGGTCACAGTATCAAGTTGG
AGTTTTAAATTCACCCACCTGTTATTACAGCTCACAAAATGGAGAGCGAATAGAACGCTTCTCTCGAAA
GTTTTTGTGGTGGTCTTCTCCAGATATTGATGAAGTAAATAACTGCTAGCTTCAGAAGATTGGGC
CTTTGGTAGTAGATTGGCCTCATAAAGCAGAAAGCAAGTCTATTTTCCACAAAAGGCTATGCATTTCT
TCTCTTCAAGAAGAGAGCTCAGTTCAGGCACTCATTGATGCTTGTATTGAAGAAGTGGAAAACCTAT
CTGTGTGTTTCTAGCCCTACTATCAAGGACAAACAGTTCAAATACGTCCTTGAATTTAAGTGATAGTG
ATTTTGAATGGATGGTCTCAGCCTTTGGATCCCGAAAAACAATTTTGTGGAGGTGTTCTAGGCC
ATTAAGGGCTGTGGAACCTGCTATGATCATGGACCGGCTGTATGGTGGAGTTTGTATGCAGGAATTGAT
ACAGATCCTGAGCTAAAAACCCAAAAGGTGCTGGGCGAGTTGCTTTCTCCAATCAGCAGAGCTATATTG
CTGCCATTAGTGCCTGGTTTGTTCAGCTTCAGCATGGTATATTGATAAAGCTGTGGAGGTAAGCCATA
TGTGCTAGATGACCAGATGTGTGATGAATGCCAGGGCGCACGCTGTGGTGGAAAATTTGCTCCCTTTTT
TGTGCCAATGTCACTTGCCTGCAGTATTACTGTGAGTTTTGTTGGGCAAATATCCACTCTCGTCTGGAC
GTGAGTTCCATAAGCCATTGGTAAAGGAAGGTGCTGATCGCCACGTCAGATCCACTTCCGCTGGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218561 representing NM_182485
Red=Cloning site Green=Tags(s)

MRDFGFGVLQAPLRSSSPGPLFCGEAYGPYAVGSVNPLPSATPFGLSPPPLPVTGFLEASPFVPLG
GGAGSPAAAASSSPFLAHQQTMDLLELLGLTQQPARPLSGAAATEKLPDHPGGGTIAGVTHLLPSQDF
KPSLHHPSSSSASSCCCRSSPQDFSKRQQQLSSQKRKEFSPPHLPHPDSKPPPPPLHCPGRFSP
PPPPAGPLLQPAQLAQRQQQPPQFSLHQQHLSQDFAPRQRPADLPPLPQLPPSPPAARRRHGGAG
SPRKTPAAGEGSAEASNAGLASSTPVNPAGSMESPNHPLLNSPNSLLPGGALGAGAFSSLQSPDLPH
GGGGGGGGPPGGGGGSASPPPLPGFGTPWSVQTASPPQPQPPPTQPQQPPPPQPQPQP
GSSATTPGGGSGSLSAMPPSPDSENGFYPLPSSMNPFFPSFSPVSPHGCTGLSVPTSGGGGGFGG
PFSATVPPPPAMNIPQQQPPPAAPQPSRRSPVSPQLQQHQAAAAAFLQQRNSYNHHQPLLKQS
PWSNHQSSGWTGSMWAMHGRDHRRTGNMIGPTMNQISPLKPFSGNVIAPPKFRSTPSLTPKSWI
EDNVFRDNNNTLLPLQVRSSLQLPAWGSDSLQDSWCTAAGTSRIDQDRSRMYDSLNMHSLNLIIDIM
RAEHDPLKGRLSYPHPTDNLMLNGRSSLFPIDGLLDDGHSQVGVLSNPTCYSAHQNGERIERFSRK
VFVGGLPDIDEDEITASFRFGPLVVDWPHKAESKSYFPPKGYAFLLFQEESVQALIDACIEEDGKLY
LCVSSPTIKDKPVQIRPWNLSDSDFVMDGSQPLDPRKTIFFVGGVPRPLRAVELAMIMDRLYGGVCYAGID
TDPELKYKAGRVAFSNQSYIAAISARFVQLQHGDIKRVKPYVLDQMCDECQGARCGGKFAPFF
CANVTCLQYYCEFCWANIHSRAGREFHKPLVKEGADRPRQIHFWRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg4084_d02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_182485

ORF Size: 3078 bp

OTI Disclaimer: 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.

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:

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_182485.3](#)

RefSeq Size: 6854 bp

RefSeq ORF: 3081 bp

Locus ID: 132864

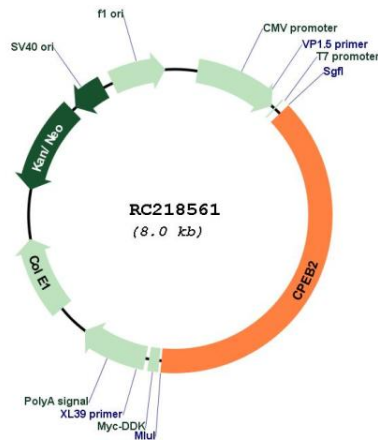
UniProt ID: [Q7Z5Q1](#)

Cytogenetics: 4p15.32

MW: 109.3 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]

Product images:



Circular map for RC218561