

Product datasheet for **RG208662**

CPEB1 (NM_030594) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPEB1 (NM_030594) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CPEB1
Synonyms:	CPE-BP1; CPEB; CPEB-1; h-CPEB; hCPEB-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208662 representing NM_030594
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGTTCGCTGGAAGAAGAAGCAGGAAGGATAAAAGATTGCTGGGACAACCCAGGAAGCACCTGCTC
 TCTCCACGTGTAGTAATGCCAATATCTTTCGAAGGATAAATGCCATATTGGATAATTCTCTGGATTCAG
 TAGAGTCTGCACTACACCTATAAACCGAGGAATTCATGATCATTGCCAGACTTCCAGGACTCTGAAGAA
 ACAGTTACAAGCAGGATGCTTTTCCCAACCTCTGCGCAAGAATCTTCCCGTGGCCTCCAGATGCAATG
 ACTTGTGCTTGGCTGCAGTCCCTCAGTCTGACAGGCTGGGACCGACCCTGGAGACCCAGGACTCAGA
 TTCCTCAGCCCAGAGCAGCACACTCGGTACTGAGCATGCTCCATAACCCACTGGGAAATGCTCCTAGGA
 AAACCCCTTGGCTTCTGCCTCTGGATCCCCTGGGTCTGACTTGGTGGACAAGTTCCAGCACCT
 CAGTTAGAGGATCAGCCTGGACACCCGGCCCATCCTGGACTCTCGATCTAGCAGCCCTCTGACTCAGA
 CACCAGTGGCTCAGCTCTGGATCAGATCATCTCTCAGATTTGATTTCAAGCCTTCGCATTCTCCACCT
 CTGCCCTTCTGTCTCTGTGAGGGGTGGTCCCAGAGACCCTTTAAAGATGGGGGTAGGGTCTCGGATGG
 ACCAAGAGCAAGCTGCTCTTGTGCACTACTCCCTCCCAACCAAGTGGTCAAAGAGATGGCCAGGAGC
 TTCTGTGTGGCCATCCTGGGACCTCCTCGAAGCTCCCAAAGACCCCTTCAGCATAGAGAGAGAGGCCAGG
 CTGCACCACAAGCTGCAGCTGTGAATGAAGCCACCTGTACCTGGAGTGGCCAGCTTCTCCCGGAACT
 ATAAGAACCCATCTACTCTTGAAGGTGTTTCTAGGAGGTGTTCTTGGGATATTACAGAAGCTGGATT
 AGTTAACACCTCCCGTGTGTTTGGCTCTTGTAGTGTGGAGTGGCTGGTAAGGATGGCAAGCATCCCCGG
 TGTCTCCCAAAGGATGTGTATCTGGTCTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
 GCTCTCATGACCCGCTGAGCCAGATGGCTGAGTGAATATTATTCAAGATGTCCAGCCGAAAGGATGCG
 CTGCAAGGAGGTGCAGGTGATCCCTGGGTATTAGCCGACAGTAACTTTGTCCGGAGCCCATCTCAGAGG
 CTTGACCCAGCAGGACGGTGTGTCGGTCTGTCATGGAATGCTAAATGCTGAGGCCCTGGCAGCCA
 TCTTGAACGACCTATTTGGTGGAGTGGTGTATGCCGGATTGACACAGATAAGCACAAGTATCCCATTGG
 TTCTGGTGTGACTTTCAATAACCAACGGAGTTACCTGAAAGCAGTCAGCGCTGCTTTTGTGGAGATC
 AAAACCACCAAGTTCACAAAGAAGTTCAGATTGACCCCTACCTAGAAGATTCTCTGTGCATATCTGCA
 GTTCTCAGCCTGGTCTTTCTTGTGCGAGATCAGGTCTGCTTCAAACTTCTGCCGGAGCTGCTGGCA
 CTGGCGGCACAGCATGGAGGGCCTGCGCCACCACAGCCCTGATGCGGAACCAGAAGAACCGAGATTCC
 AGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG208662 representing NM_030594
 Red=Cloning site Green=Tags(s)

MAFPLEEEAGRIKDCWDNQEAPALSTCSNANIFRRINAIDLNSLDFSRVCTTPINRGIHDHLPDFQDSEE
 TVTSRMLFPTSAQESSRGLPDANDLCLGLQSLSLTGWDRPWSTQSDSSAQSSSTHSLMLHNPLGNVLG
 KPPLSFLPLDPLGSDLVDKFPAPSVRGSRLDTRPILDSRSSPSDSDTSGFSSGSDHLSLIISSLRISPP
 LPFLSLSGGPRDPLKMGVGSRMDQEQAALAAVTPSPTSASKRWPASVWPSWDLLEAPKDPFSIEREAR
 LHRQAAAVNEATCTWSGQLPPRNYKNPIYSCKVFLGGVPWDITEAGLVNTRVFGSLSVEWPGKDGKHP
 CPPKGYVYLVELEKSVRSLLQACSHDPLSPDGLSEYYFKMSSRRMRCKEVQVIPWVLADSNFVRSRPSQR
 LDPSRTVFGALHGMLNAEALAILNDLFGGVVYAGIDTDKHKYPIGSGRVTFNNQRSYLKAVSAAFVEI
 KTTKFTKKVQIDPYLEDLCHICSSQPGPFFCRDQVCFKYFCRSCWHWRHSMELRHHSPLMRNQKNRDS
 S

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_030594

ORF Size: 1683 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:

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_030594.5](#)

RefSeq Size: 3202 bp

RefSeq ORF: 1686 bp

Locus ID: 64506

UniProt ID: [Q9BZB8](#)

Cytogenetics: 15q25.2

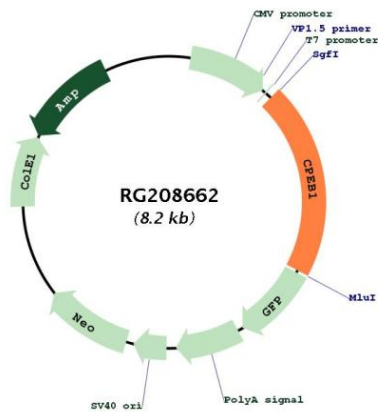
Protein Pathways:

Dorso-ventral axis formation, Oocyte meiosis, Progesterone-mediated oocyte maturation

Gene Summary:

This gene encodes a member of the cytoplasmic polyadenylation element binding protein family. This highly conserved protein binds to a specific RNA sequence, called the cytoplasmic polyadenylation element, found in the 3' untranslated region of some mRNAs. The encoded protein functions in both the cytoplasm and the nucleus. It is involved in the regulation of mRNA translation, as well as processing of the 3' untranslated region, and may play a role in cell proliferation and tumorigenesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

Product images:



Circular map for RG208662