

## Product datasheet for TP524198

### Cpeb4 (NM\_026252) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse cytoplasmic polyadenylation element binding protein 4 (Cpeb4), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR224198 protein sequence <span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s)  MGDYGFGLVQSNTGNKSAFPVRFPHLQPPHHHQNATPNPAAFINNNTAANGSSAGSAWLFPAPAT HNI QDEILGSEKAKSQQQEQDPLEKQLSPSPGQEAGILPETEKAKAEENPGDSSSENSNGKEKLRIESPV L TGFQYQATGLGTSTQPLTSSASSLTGFSNWSAAIAPSSSTIINEDASFFHQGGVPGASANNALLQNF PHHVSPGFGGSFSPQIGPLSQHHPHHPHFQHHHSQHQQRRSPASPHPPPFTHRSAAFNQLPHLANN LNK PPSPWSSYQSPSPTSSSWSPGGGGYGGWGASQGRDHRRGLNGGITPLNSISPLKKNFASNHIQLQKYA R PSSAFAPKSWMEDSLNRADNIFPFPERPRTFDMHSLESSLIDIMRAENDSIKGRNLNYSYPGSDSSLLIN A RTYGRRRGQSSLFPMEDGFLDDGRGDQPLHSGLGSPHCFTHQNGERVERYSRKVFVGGGLPPDIDED EITA SFRRFGPLVDWPHKAESKSYFPPKGYAFLLFQDESSVQALIDACIEEDGKLYLCVSSPTIKDKPVQIR P WNLSDSDFVMDGSQPLDPRKTIFVGGVPRPLRAVELAMIMDRLYGGVCYAGIDTDPELKYPKGAGR VAFS NQQSYIAAISARFVQLQHGEIDKRVEVKPYVLDDQLCDECQGARGCGGKFAPFFCANVTCLQYYCEY CWA IHSRAGREFHKPLVKEGGDRPRHISFRWN  <span style="color: red;">TR</span> <span style="color: green;">TRPLEQKLISEEDLAANDILDYKDDDDKV</span>
Tag:	C-MYC/DDK
Predicted MW:	80.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol


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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_080528</a>
<b>Locus ID:</b>	67579
<b>UniProt ID:</b>	<a href="#">Q7TN98</a>
<b>RefSeq Size:</b>	7655
<b>Cytogenetics:</b>	11 A4
<b>RefSeq ORF:</b>	2187
<b>Synonyms:</b>	Cpe-bp4; Cpeb-4; mCPEB-4
<b>Summary:</b>	Sequence-specific RNA-binding protein that binds to the cytoplasmic polyadenylation element (CPE), an uridine-rich sequence element (consensus sequence 5'-UUUUUAU-3') within the mRNA 3' UTR (PubMed:17024188). RNA binding results in a clear conformational change analogous to the Venus fly trap mechanism (By similarity). Regulates activation of unfolded protein response (UPR) in the process of adaptation to ER stress in liver, by maintaining translation of CPE-regulated mRNAs in conditions in which global protein synthesis is inhibited (PubMed:28092655). Required for cell cycle progression, specifically for cytokinesis and chromosomal segregation (By similarity). Plays a role as an oncogene promoting tumor growth and progression by positively regulating translation of t-plasminogen activator/PLAT (PubMed:22138752). Stimulates proliferation of melanocytes (By similarity). In contrast to CPEB1 and CPEB3, does not play role in synaptic plasticity, learning and memory (PubMed:24386439).[UniProtKB/Swiss-Prot Function]