

## Product datasheet for **TP321803M**

### **CPEB4 (NM\_030627) Human Recombinant Protein**

#### **Product data:**

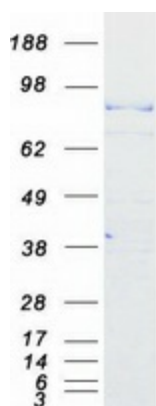
<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human cytoplasmic polyadenylation element binding protein 4 (CPEB4), 100 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC221803 representing NM_030627 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MGDYGFGVLVQSNTGNKSAFPVRFPHLQPPHHHQATPSPAAFINNNTAANGSSAGSAWLFPAPATH NI QDEILGSEKAKSQQQEQDPLEKQQLSPSPGQEAGILPETEKAKSEENQGDNSSENGNGKEKIRIESPVL TGFDYQEATGLGTSTQPLTSSASSLTGFSNWSAAIAPSSSTIINEDASFFHQGGVPAASANNALLFQNF PHHVSPGFGGSFSPQIGPLSQHHPHHPHFQHHHSQHQQRRSPASPHPPPFTHRNAAFNQLPHLANN LNK PPSPWSSYQSPSPTSSSWSPGGGGYGGWGGSQGRDHRRGLNGGITPLNSISPLKKNFASNHIQLQKYA R PSSAFAPKSWMEDSLNRADNIFPDRPRTFDMHSLESSLIDIMRAENDTIKGRNLNYSYPGSDSSLLINA RTYGRRRGQSSLFPMEDGFLDDGRGDQPLHSGLGSPHCFSHQNGERVERYSRKVFVGGGLPPDIDEDITA SFRRFGPLVDWPHKAESKSYFPPKGYAFLLFQDESSVQALIDACIEEDGKLYLCVSSPTIKDKPVQIRP WNLSDSDFVMDGSQPLDPRKTIFVGGVPRPLRAVELAMIMDRLYGGVCYAGIDTDPELKYPKGAGRVAFS NQQSYIAAISARFVQLQHGEIDKRVEVKPYVLDDQLCDECQGARGCGKFAPFFCANVTCLQYYCEYCWAA IHSRAGREFHKPLVKEGGDRPRHISFRWN</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	80 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<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.
<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>	<u>NP_085130</u>
<b>Locus ID:</b>	80315
<b>UniProt ID:</b>	<u>Q17RY0</u>
<b>RefSeq Size:</b>	6930
<b>Cytogenetics:</b>	5q35.2
<b>RefSeq ORF:</b>	2187
<b>Synonyms:</b>	CPE-BP4; hCPEB-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:24990967). RNA binding results in a clear conformational change analogous to the Venus fly trap mechanism (PubMed:24990967). 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 (By similarity). Required for cell cycle progression, specifically for cytokinesis and chromosomal segregation (PubMed:26398195). 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 (PubMed:27857118). In contrast to CPEB1 and CPEB3, does not play role in synaptic plasticity, learning and memory (By similarity).[UniProtKB/Swiss-Prot Function]

## Product images:



Coomassie blue staining of purified CPEB4 protein (Cat# [TP321803]). The protein was produced from HEK293T cells transfected with CPEB4 cDNA clone (Cat# [RC221803]) using MegaTran 2.0 (Cat# [TT210002]).