

## Product datasheet for **TP321803M**

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

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human cytoplasmic polyadenylation element binding protein 4 (CPEB4), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC221803 representing NM_030627 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MGDYGFGVLVQSNTGNKSAFPVRFPHLQPPHHHQNATPSPAAFINNNTAANGSSAGSAWLFPAPATHNI  
QDEILGSEKAKSQQQEQDPLEKQQLSPSPGQEAGILPETEKAKSEENQGDNSSENGNGKEKIRIESPVL  
TGFQYQATGLGTSTQPLTSSASSLTGFSNWSAAIAPSSSTIINEDASFFHQGGVPAASANNALLFQNF  
PHHVSPGFGGFSFPQIGPLSQHHPHPHFQHHHSQHQQRRSPASPHPPPFTHRNAAFNQLPHLANNLNK  
PPSPWSSYQSPSPSSWSPGGGGYGGWGGSQGRDHRRGLNGGITPLNSISPLKKNFASNHIQLQKYAR  
PSSAFAPKSWMEDSLNRADNIFPDRPRTFDMHSLESSLIDIMRAENDTIKGRNLNYSYPGSDSLLINA  
RTYGRRRGQSSLFPMEDGFLDDGRGDQPLHSGLSGPHCFSHQNGERVERYSRKVFVGGGLPPDIDEITA  
SFRRFGPLIVDWPDKAESKSYFPPKGYAFLLFQDESSVQALIDACIEEDGKLYLCVSSPTIKDKPVQIRP  
WNLSDSDFVMDGSQPLDPRKTIIVGGVPRPLRAVELAMIMDRLYGGVCYAGIDTDPKLYPKGAGRVAFS  
NQQSYIAAISARFVQLQHGEIDKRVEVKPYVLDDQLCDECGARCGGKFAPFFCANVTCLQYYCEYCWAA  
IHSRAGREFHKPLVKEGGDRPRHISFRWN

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

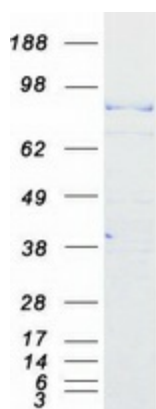
Tag:	C-Myc/DDK
Predicted MW:	80 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_085130</a>
Locus ID:	80315
UniProt ID:	<a href="#">Q17RY0</a>
RefSeq Size:	6930
Cytogenetics:	5q35.2
RefSeq ORF:	2187
Synonyms:	CPE-BP4; hCPEB-4
Summary:	Sequence-specific RNA-binding protein that binds to the cytoplasmic polyadenylation element (CPE), an uridine-rich sequence element (consensus sequence 5'-UUUUUUAU-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]).