

## Product datasheet for TP523088

### Cpeb1 (NM\_007755) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse cytoplasmic polyadenylation element binding protein 1 (Cpeb1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR223088 protein sequence <span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s)

MAFSLEEAAGRIKDCWDNQEVPAALSTCSNANIFRRINAILDDSLDFSKVCTTPINRGIHDQLPADFQDSE  
 ETVTSRMLFPTSAQESPRGLPDANGLCLGLQSLSLTGWDRPWSTQSDSSAQSSQSVLSMLQNPLGNV  
 L  
 GKAPLSFLSLDPLGSDLDKFPAPSVRGSRLDTRPILDSRSSSPSDSDTSGFSSGSDHLSDLISSLRISPP  
 LPFLSMTGNGPRDPLKMGVGSRMDEQAALAAVAPSPSAPKRWPGASVWPSWDLGAPKDPFSIERE  
 AR  
 LHRQAAAVNEATCTWSGQLPPRNYKNPIYSCKVFLGGVPWDITEAGLVNTFRVFGSLSVIEWPGKDGKHP  
 R  
 CPPKGNMPKGYVYLVFELEKSVRALLQACSHDPLSPDGLSEYYFKMSSRRMRCKEVQVIPWWLADSNFVW  
 SPSQRLDPSRTVFGALHGMLNAEALAILNDLFGGVVYAGIDTDKHKYPIGSGRVTNNQSYLKAVTA  
 AFVEIKTTKFTKKVQIDPYLEDLCLICSSQGPFFCRDQVCFKYFCRSCWHWRHSMELRHHSPLMRNQ  
 KN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	62 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
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.


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<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_031781</a>
<b>Locus ID:</b>	12877
<b>UniProt ID:</b>	<a href="#">P70166</a>
<b>RefSeq Size:</b>	3138
<b>Cytogenetics:</b>	7 D3
<b>RefSeq ORF:</b>	1686
<b>Synonyms:</b>	AU024112; Cpe-bp1; Cpeb; mCPEB; mCpeb-1
<b>Summary:</b>	Sequence-specific RNA-binding protein that regulates mRNA cytoplasmic polyadenylation and translation initiation during oocyte maturation, early development and at postsynapse sites of neurons. Binds to the cytoplasmic polyadenylation element (CPE), an uridine-rich sequence element (consensus sequence 5'-UUUUUUAU-3') within the 3' UTR of mRNAs. In absence of phosphorylation and in association with TACC3 is also involved as a repressor of translation of CPE-containing mRNA; a repression that is relieved by phosphorylation or degradation (By similarity). Involved in the transport of CPE-containing mRNA to dendrites; those mRNAs may be transported to dendrites in a translationally dormant form and translationally activated at synapses. Its interaction with APLP1 promotes local CPE-containing mRNA polyadenylation and translation activation. Induces the assembly of stress granules in the absence of stress (By similarity). Required for cell cycle progression, specifically for prophase entry (By similarity).[UniProtKB/Swiss-Prot Function]