

Product datasheet for TR500415

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OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

Cpeb1 Mouse shRNA Plasmid (Locus ID 12877)

Product data:

Product Type: shRNA Plasmids

Product Name: Cpeb1 Mouse shRNA Plasmid (Locus ID 12877)

Locus ID:

AU024112; Cpe-bp1; Cpeb; mCPEB; mCpeb-1 Synonyms:

pRS (TR20003) Vector:

E. coli Selection: Ampicillin Mammalian Cell Puromycin

Selection:

Format:

Retroviral plasmids

Cpeb1 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = Components:

12877). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

BC125476, NM 001252525, NM 001252526, NM 007755, NM 001357107, NM 007755.1, RefSeq:

NM 007755.2, NM 007755.3, NM 007755.4, NM 007755.5, NM 001252526.1,

NM 001252525.1, BC144948

UniProt ID: P70166

Summary: 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'-UUUUUAU-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]





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shRNA Design:

These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

Performance Guaranteed: OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).