

## Product datasheet for **TL704862**

### Cpeb1 Rat shRNA Plasmid (Locus ID 293056)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Cpeb1 Rat shRNA Plasmid (Locus ID 293056)
Locus ID:	293056
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	Cpeb1 - Rat, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 293056). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">NM_001106276</a> , <a href="#">NM_001106276.1</a>
UniProt ID:	<a href="#">P0C279</a>
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'-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. 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. Required for cell cycle progression, specifically for prophase entry. [UniProtKB/Swiss-Prot Function]
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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .

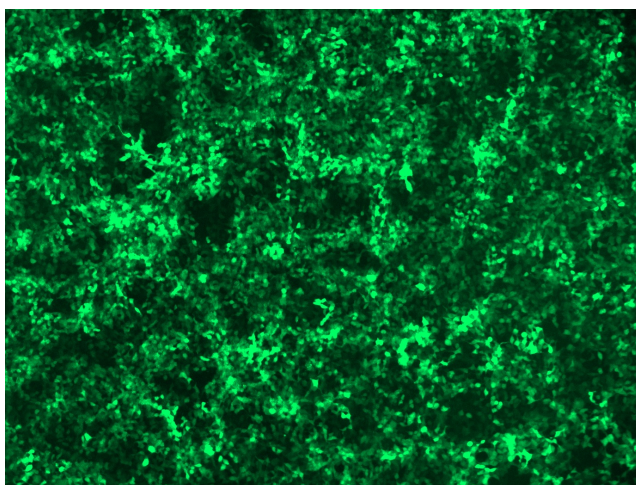


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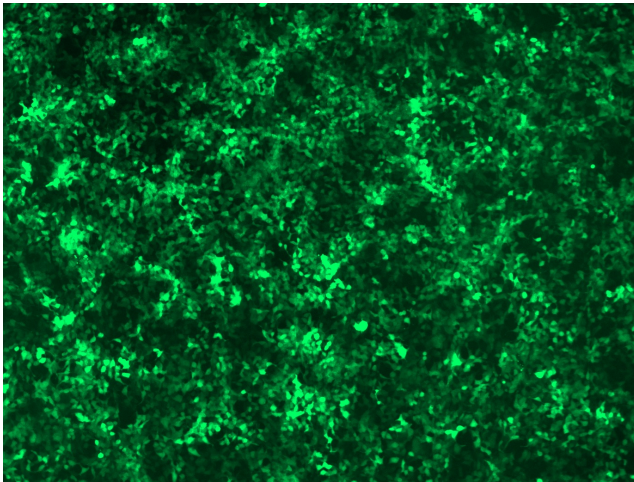
**Performance  
Guaranteed:**

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.

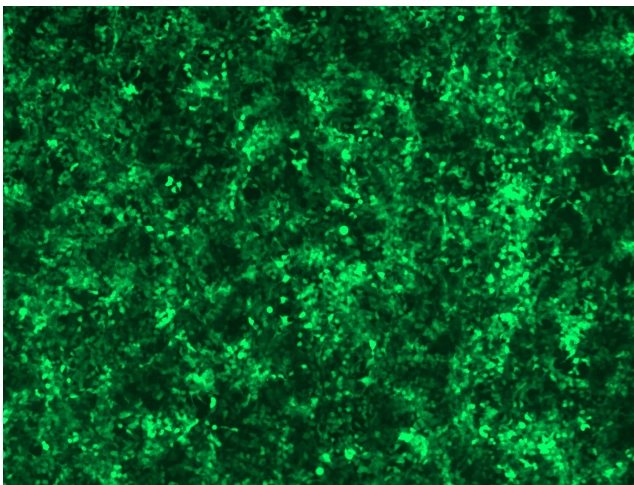
For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com).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

**Product images:**

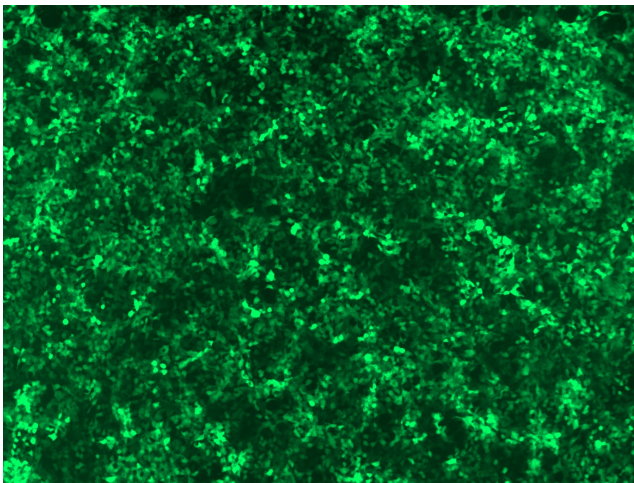
GFP signal was observed under microscope at 48 hours after transduction of TL704862A virus into HEK293 cells. TL704862A virus was prepared using lenti-shRNA TL704862A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL704862B virus into HEK293 cells. TL704862B virus was prepared using lenti-shRNA TL704862B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL704862C] virus into HEK293 cells. [TL704862C] virus was prepared using lenti-shRNA [TL704862C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL704862D] virus into HEK293 cells. [TL704862D] virus was prepared using lenti-shRNA [TL704862D] and [TR30037] packaging kit.