

Product datasheet for **TR500463**

Cux1 Mouse shRNA Plasmid (Locus ID 13047)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Cux1 Mouse shRNA Plasmid (Locus ID 13047)
Locus ID:	13047
Synonyms:	CDP; Cutl1; Cux; Cux-1
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Cux1 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 13047). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC090847 , NM_001291233 , NM_001291234 , NM_001291238 , NM_001291239 , NM_001291240 , NM_009986 , NM_198602 , NM_009986.1 , NM_009986.2 , NM_009986.3 , NM_009986.4 , NM_198602.1 , NM_198602.2 , NM_198602.3 , NM_001291238.1 , NM_001291239.1 , NM_001291240.1 , NM_001291234.1 , NM_001291233.1 , BC014289 , BC054370 , BC079570 , BM944198
UniProt ID:	P53564
Summary:	Transcription factor involved in the control of neuronal differentiation in the brain. Regulates dendrite development and branching, and dendritic spine formation in cortical layers II-III (PubMed:20510857). Also involved in the control of synaptogenesis (Probable). In addition, it has probably a broad role in mammalian development as a repressor of developmentally regulated gene expression. May act by preventing binding of positively-activating CCAAT factors to promoters. Component of nf-munr repressor; binds to the matrix attachment regions (MARs) (5' and 3') of the immunoglobulin heavy chain enhancer. Represses T-cell receptor (TCR) beta enhancer function by binding to MARbeta, an ATC-rich DNA sequence located upstream of the TCR beta enhancer. Binds to the TH enhancer; may require the basic helix-loop-helix protein TCF4 as a coactivator.[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).