

Product datasheet for **TF511428**

Mef2c Mouse shRNA Plasmid (Locus ID 17260)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Mef2c Mouse shRNA Plasmid (Locus ID 17260)
Locus ID:	17260
Synonyms:	5430401D19Rik; 9930028G15Rik; AV011172; Mef2
Vector:	pRFP-C-RS (TR30014)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Mef2c - Mouse, 4 unique 29mer shRNA constructs in retroviral RFP vector(Gene ID = 17260). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRFP-C-RS Vector, TR30015, included for free.
RefSeq:	BC026841 , BC037731 , BC057650 , NM_001170537 , NM_001347564 , NM_001347566 , NM_001347567 , NM_001347568 , NM_001347569 , NM_001347571 , NM_001347572 , NM_001347573 , NM_001347574 , NM_001347575 , NM_001347576 , NM_001347577 , NM_001347578 , NM_001347579 , NM_001347580 , NM_001347581 , NM_025282 , NM_025282.1 , NM_025282.2 , NM_025282.3 , NM_001170537.1
UniProt ID:	Q8CFN5
Summary:	Transcription activator which binds specifically to the MEF2 element present in the regulatory regions of many muscle-specific genes. Controls cardiac morphogenesis and myogenesis, and is also involved in vascular development. Enhances transcriptional activation mediated by SOX18 (PubMed:11554755). May also be involved in neurogenesis and in the development of cortical architecture. Isoforms that lack the repressor domain are more active than isoform 1 (By similarity). Plays an essential role in hippocampal-dependent learning and memory by suppressing the number of excitatory synapses and thus regulating basal and evoked synaptic transmission. Crucial for normal neuronal development, distribution, and electrical activity in the neocortex. Necessary for proper development of megakaryocytes and platelets and for bone marrow B-lymphopoiesis. Required for B-cell survival and proliferation in response to BCR stimulation, efficient IgG1 antibody responses to T-cell-dependent antigens and for normal induction of germinal center B-cells.[UniProtKB/Swiss-Prot Function]



[View online »](#)

- 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).