

## Product datasheet for **SR414507**

### Mef2c Mouse siRNA Oligo Duplex (Locus ID 17260)

#### Product data:

Product Type:	siRNA Oligo Duplexes
Purity:	HPLC purified
Quality Control:	Tested by ESI-MS
Sequences:	Available with shipment
Stability:	One year from date of shipment when stored at -20°C.
# of transfections:	Approximately 330 transfections/2nmol in 24-well plate under optimized conditions (final conc. 10 nM).
Note:	Single siRNA duplex (10nmol) can be ordered.
RefSeq:	<a href="#">NM_001170537</a> , <a href="#">NM_001347564</a> , <a href="#">NM_001347566</a> , <a href="#">NM_001347567</a> , <a href="#">NM_001347568</a> , <a href="#">NM_001347569</a> , <a href="#">NM_001347571</a> , <a href="#">NM_001347572</a> , <a href="#">NM_001347573</a> , <a href="#">NM_001347574</a> , <a href="#">NM_001347575</a> , <a href="#">NM_001347576</a> , <a href="#">NM_001347577</a> , <a href="#">NM_001347578</a> , <a href="#">NM_001347579</a> , <a href="#">NM_001347580</a> , <a href="#">NM_001347581</a> , <a href="#">NM_025282</a>
UniProt ID:	<a href="#">Q8CFN5</a>
Synonyms:	5430401D19Rik; 9930028G15Rik; AV011172; Mef2
Components:	Mef2c (Mouse) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 17260) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNase free siRNA Duplex Resuspension Buffer - 2 ml
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]



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**Performance  
Guaranteed:**

OriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will provide at least 70% or more knockdown of the target mRNA when used at 10 nM concentration by quantitative RT-PCR when the TYE-563 fluorescent transfection control duplex (cat# SR30002) indicates that >90% of the cells have been transfected and the HPRT positive control (cat# SR30003) provides 90% knockdown efficiency.

For non-conforming siRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the siRNA kit. To arrange for a free replacement with newly designed duplexes, 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 siRNA control (quantitative RT-PCR data required).