

Product datasheet for SR427806

Tet3 Mouse siRNA Oligo Duplex (Locus ID 194388)

Product data:

OriGene Technologies, Inc.

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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:	<u>NM 001347313</u> , <u>NM 183138</u>
Synonyms:	B430006D22Rik; BC037432; D230004J03Rik
Components:	Tet3 (Mouse) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 194388) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNAse free siRNA Duplex Resuspension Buffer - 2 ml
Summary:	Dioxygenase that catalyzes the conversion of the modified genomic base 5-methylcytosine (5mC) into 5-hydroxymethylcytosine (5hmC) and plays a key role in epigenetic chromatin reprogramming in the zygote following fertilization. Also mediates subsequent conversion of 5hmC into 5-formylcytosine (5fC), and conversion of 5fC to 5-carboxylcytosine (5caC). Conversion of 5mC into 5hmC, 5fC and 5caC probably constitutes the first step in cytosine demethylation. Selectively binds to the promoter region of target genes and contributes to regulate the expression of numerous developmental genes. In zygotes, DNA demethylation occurs selectively in the paternal pronucleus before the first cell division, while the adjacent maternal pronucleus and certain paternally-imprinted loci are protected from this process. Participates in DNA demethylation in the paternal pronucleus by mediating conversion of 5mC into 5hmC, 5fC and 5caC. Does not mediate DNA demethylation of maternal pronucleus because of the presence of DPPA3/PGC7 on maternal chromatin that prevents TET3-binding to chromatin. In addition to its role in DNA demethylation, also involved in the recruitment of the O-GlcNAc transferase OGT to CpG-rich transcription start sites of active genes, thereby promoting histone H2B GlcNAcylation by OGT.[UniProtKB/Swiss-Prot Function]



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CRICENETet3 Mouse siRNA Oligo Duplex (Locus ID 194388) - SR427806Performance
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.
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).

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