

# Product datasheet for SR427821

## Tet2 Mouse siRNA Oligo Duplex (Locus ID 214133)

### **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 001040400, NM 001346736, NM 145989</u>
UniProt ID:	<u>Q4JK59</u>
Synonyms:	Ayu17-449; E130014J05Rik; mKIAA1546
Components:	Tet2 (Mouse) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 214133) 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 active DNA demethylation. Has a preference for 5-hydroxymethylcytosine in CpG motifs. 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. Methylation at the C5 position of cytosine bases is an epigenetic modification of the mammalian genome which plays an important role in transcriptional regulation. 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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# **CRICENE**Tet2 Mouse siRNA Oligo Duplex (Locus ID 214133) - SR427821Performance<br/>Guaranteed:OriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will<br/>provide at least 70% or more knockdown of the target mRNA when used at 10 nM<br/>concentration by quantitative RT-PCR when the TYE-563 fluorescent transfection control<br/>duplex (cat# SR30002) indicates that >90% of the cells have been transfected and the HPRT<br/>positive control (cat# SR30003) provides 90% knockdown efficiency.For non-conforming siRNA, requests for replacement product must be made within ninety<br/>(90) days from the date of delivery of the siRNA kit. To arrange for a free replacement with<br/>newly designed duplexes, please contact Technical Services at techsupport@origene.com.<br/>Please provide your data indicating the transfection efficiency and measurement of gene<br/>expression knockdown compared to the scrambled siRNA control (quantitative RT-PCR data<br/>required).

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