

## Product datasheet for **SR415497**

### Htr2b Mouse siRNA Oligo Duplex (Locus ID 15559)

#### 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_008311</a>
UniProt ID:	<a href="#">Q02152</a>
Synonyms:	5-HT2B; AJ012488; AV377389
Components:	Htr2b (Mouse) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 15559) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNase free siRNA Duplex Resuspension Buffer - 2 ml



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**Summary:**

G-protein coupled receptor for 5-hydroxytryptamine (serotonin) (PubMed:1426253). Also functions as a receptor for various ergot alkaloid derivatives and psychoactive substances (PubMed:1426253, PubMed:16940156). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors. Beta-arrestin family members inhibit signaling via G proteins and mediate activation of alternative signaling pathways. Signaling activates a phosphatidylinositol-calcium second messenger system that modulates the activity of phosphatidylinositol 3-kinase and downstream signaling cascades and promotes the release of Ca(2+) ions from intracellular stores (By similarity). Plays a role in the regulation of dopamine and 5-hydroxytryptamine release, 5-hydroxytryptamine uptake and in the regulation of extracellular dopamine and 5-hydroxytryptamine levels, and thereby affects neural activity (PubMed:16940156, PubMed:18337424). May play a role in the perception of pain (PubMed:21273425). Plays a role in the regulation of behavior, including impulsive behavior (PubMed:21179162). Required for normal proliferation of embryonic cardiac myocytes and normal heart development (PubMed:10944220, PubMed:11413089). Protects cardiomyocytes against apoptosis (PubMed:12738797). Plays a role in the adaptation of pulmonary arteries to chronic hypoxia (PubMed:12244304). Plays a role in vasoconstriction (PubMed:12244304, PubMed:23346101). Required for normal osteoblast function and proliferation, and for maintaining normal bone density (PubMed:17846081). Required for normal proliferation of the interstitial cells of Cajal in the intestine (PubMed:19941613). [UniProtKB/Swiss-Prot Function]

**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).