

# Product datasheet for SR416080

# Cyp46a1 Mouse siRNA Oligo Duplex (Locus ID 13116)

# **Product data:**

### **Product Type:** siRNA Oligo Duplexes HPLC purified **Purity: Quality Control:** Tested by ESI-MS Available with shipment Sequences: 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). Single siRNA duplex (10nmol) can be ordered. Note: **RefSeq:** NM 010010 **UniProt ID:** Q9WVK8 Synonyms: Cyp46 **Components:** Cyp46a1 (Mouse) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 13116) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNAse free siRNA Duplex Resuspension Buffer - 2 ml P450 monooxygenase that plays a major role in cholesterol homeostasis in the brain. Summary: Primarily catalyzes the hydroxylation (with S stereochemistry) at C-24 of cholesterol side chain, triggering cholesterol diffusion out of neurons and its further degradation (PubMed:10377398, PubMed:16505352, PubMed:28190002). By promoting constant cholesterol elimination in neurons, may activate the mevalonate pathway and coordinate the synthesis of new cholesterol and nonsterol isoprenoids involved in synaptic activity and learning (PubMed:16505352). Further hydroxylates cholesterol derivatives and hormone steroids on both the ring and side chain of these molecules, converting them into active oxysterols involved in lipid signaling and biosynthesis (By similarity). Acts as an epoxidase converting cholesta-5,24-dien-3beta-ol/desmosterol into (24S),25-epoxycholesterol, an abundant lipid ligand of nuclear NR1H2 and NR1H3 receptors shown to promote neurogenesis in developing brain (By similarity). May also catalyze the oxidative metabolism of xenobiotics, such as clotrimazole (By similarity).[UniProtKB/Swiss-Prot Function]



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## OriGene Technologies, Inc.

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# **QRICENE**Cyp46a1 Mouse siRNA Oligo Duplex (Locus ID 13116) - SR416080Performance<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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