

Product datasheet for **SR415907**

Cyp2c23 Mouse siRNA Oligo Duplex (Locus ID 226143)

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:	NM_001001446 , NM_001167905
UniProt ID:	A0A1D5RLI1
Synonyms:	AW107714; b2b386Clo; BC034834; Cyp2c44
Components:	Cyp2c44 (Mouse) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 226143) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNase free siRNA Duplex Resuspension Buffer - 2 ml
Summary:	A cytochrome P450 monooxygenase involved in polyunsaturated fatty acids (PUFAs) metabolism and signaling (PubMed:15084647). Catalyzes preferentially the epoxidation of double bonds of PUFAs (PubMed:15084647). Converts arachidonic acid primarily to stereospecific products (8R,9S)-epoxyeicosatrienoate (EET) and (11R,12S)-EET (PubMed:15084647). Via EETs may inhibit the epithelial sodium channels in nephron segments, leading to increased sodium excretion and stable systemic blood pressure (PubMed:24966089, PubMed:24368771). Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (CPR; NADPH-ferrihemoprotein reductase) (PubMed:15084647).[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. 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).