

Product datasheet for **SR417549**

Cybb Mouse siRNA Oligo Duplex (Locus ID 13058)

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_007807
UniProt ID:	Q61093
Synonyms:	C88302; Cgd; CGD91-phox; Cyd; gp91-1; gp91
Components:	Cybb (Mouse) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 13058) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNase free siRNA Duplex Resuspension Buffer - 2 ml
Summary:	This gene encodes the heavy chain component of a heterodimeric transmembrane ion transporter composed of both a heavy and a light chain. This transporter mediates the transfer of electrons from nicotinamide adenine dinucleotide phosphate (NADPH) to oxygen to generate superoxide. This reaction is important in the innate immune response to pathogens. However, increased activity of the encoded protein also leads to the generation of reactive oxygen species that result in oxidative stress and can cause tissue damage. Conversely, loss of function of the related gene in human causes chronic granulomatous disease. Alternative splicing results in multiple transcript variants, although the full-length nature of some of these variants has not been determined. [provided by RefSeq, May 2013]



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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).