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Product datasheet for SR401527

Ndufa7 Mouse siRNA Oligo Duplex (Locus ID 66416)

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_023202, NR_103514, NR_103515, NR_103516
UniProt ID:	Q9Z1P6
Synonyms:	14.5kD; 14.5kDa; 2400007M02Rik; CI-B14.5a
Components:	Ndufa7 (Mouse) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 66416) 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 a subunit of the NADH-ubiquinone oxidoreductase (complex I) enzyme, which is a large, multimeric protein. It is the first enzyme complex in the mitochondrial electron transport chain and catalyzes the transfer of electrons from NADH to the electron acceptor ubiquinone. The proton gradient created by electron transfer drives the conversion of ADP to ATP. Complex I has been biochemically separated into four fractions. The bovine ortholog of this protein has been reported to be part of the I-lambda fraction, which forms the extrinsic globular domain. In humans, deficiencies in complex I are associated with myopathies, encephalomyopathies, and neurodegenerative disorders. Pseudogenes of this gene are located on chromosomes 7 and 16. Alternative splicing results in multiple transcript variants. [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).

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