

Product datasheet for **SR413861**

Bcs1l Mouse siRNA Oligo Duplex (Locus ID 66821)

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_025784
UniProt ID:	Q9CZP5
Synonyms:	9130022O19Rik
Components:	Bcs1l (Mouse) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 66821) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNase free siRNA Duplex Resuspension Buffer - 2 ml
Summary:	The protein encoded by this gene is a chaperone protein that is involved in the assembly of complex III (CIII), one of the five protein complexes of the mitochondrial respiratory chain, and is necessary for the insertion of the Rieske iron-sulfur (RISP) and Qcr10p proteins into the precomplex. Studies from the yeast ortholog of this protein indicate that it is targeted to the inner membrane of the mitochondria, despite the absence of an N-terminal targeting sequence. Positively charged amino acids located C-terminal to the transmembrane domain are thought to act as an internal targeting signal (PMID:8599931). Mutations in the human ortholog of this gene have been associated with GRACILE syndrome, characterized by Growth retardation, Amino aciduria, Cholestasis, Iron overload, Lactic acidosis, and Early death. Mouse models with the corresponding mutation mimic the phenotype of GRACILE syndrome and display decreased complex III activity and decreased electron transport capacity (PMID:21274865). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2015]



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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).