

## Product datasheet for **TR503735**

### **Bcs1l Mouse shRNA Plasmid (Locus ID 66821)**

#### **Product data:**

Product Type:	shRNA Plasmids
Product Name:	Bcs1l Mouse shRNA Plasmid (Locus ID 66821)
Locus ID:	66821
Synonyms:	9130022O19Rik
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Bcs1l - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 66821). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">BC019781</a> , <a href="#">NM_025784</a> , <a href="#">NM_025784.1</a> , <a href="#">NM_025784.2</a> , <a href="#">NM_025784.3</a> , <a href="#">NM_025784.4</a> , <a href="#">NM_025784.5</a>
UniProt ID:	<a href="#">Q9CZP5</a>
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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- shRNA Design:** These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact [techsupport@origene.com](mailto:techsupport@origene.com). If you need a special design or shRNA sequence, please utilize our [custom shRNA service](#).
- Performance Guaranteed:** OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.
- For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com). Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).