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Product datasheet for MR206614L4V

Bcs1l (NM_025784) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Symbol:	Bcs1l
Synonyms:	9130022O19Rik
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_025784
ORF Size:	1254 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR206614).
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_025784.2
RefSeq Size:	1829 bp
RefSeq ORF:	1257 bp
Locus ID:	66821
UniProt ID:	Q9CZP5
Cytogenetics:	1 C3

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Gene 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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