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Product datasheet for TR500226

Btc Mouse shRNA Plasmid (Locus ID 12223)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Btc Mouse shRNA Plasmid (Locus ID 12223)
Locus ID:	12223
Synonyms:	Bcn
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Btc - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 12223). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC119152, BC119154, NM_007568, NM_007568.1, NM_007568.2, NM_007568.3, NM_007568.4, NM_007568.5, BC144906
UniProt ID:	Q05928
Summary:	This gene encodes a member of the epidermal growth factor (EGF) family. These growth factors are ligands for the EGFR/ErbB receptor tyrosine kinases, and play roles in cell growth and differentiation. The encoded protein is synthesized as a transmembrane precursor that is proteolytically cleaved to generate a mature peptide, and plays a role in the differentiation of pancreatic beta cells. This gene may also play a protective role in acute pancreatitis, whereas increased expression of this gene may contribute to diabetic macular edema. Gene therapy using combinations of this gene and other pancreas-specific transcription factors may induce islet neogenesis and remediate hyperglycemia in type 1 diabetes. [provided by RefSeq, Apr 2011]
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. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

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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. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).