

Product datasheet for **MR221004L3V**

Btc (NM_007568) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Btc (NM_007568) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Btc
Synonyms:	Bcn
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_007568
ORF Size:	531 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR221004).
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_007568.5 , NP_031594.1
RefSeq Size:	2876 bp
RefSeq ORF:	534 bp
Locus ID:	12223
UniProt ID:	Q05928
Cytogenetics:	5 44.78 cM



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Gene 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]