

Product datasheet for **MC208202**

Btc (NM_007568) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Btc (NM_007568) Mouse Untagged Clone
Tag: Tag Free
Symbol: Btc
Synonyms: Bcn
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >MC208202 representing NM_007568
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCAACAGCCCCGGGTAGCAGTGTGAGCTCCCTGCCGCTGCTCCTGGTCTTGCCCTGGGTCTTG
CAATTCTCCACTGTGTGGTAGCAGATGGGAACACAACCAGAACACCAGAAACCAATGGCTCTCTTTGTGG
AGCTCCTGGGGAAAAGTGCACAGGTACCACCCCTAGACAGAAAGTAAAAACCACTTCTCTCGGTGCCCC
AAGCAGTACAAGCATTACTGCATCCATGGGAGATGCCGCTTCGTGGTGGACGAGCAAACCTCCCTCTGCA
TCTGTGAGAAAGGCTACTTTGGGGCTCGGTGTGAGCGAGTGGACCTGTTTTACCTCCAGCAGGACCGGG
GCAGATCCTGGTGGTCTGCTTGATAGTGGTTCATGGTGGTTCATCATTTTAGTCATCGGCGTCTGCACC
TGCTGTATCCTCTTCGAAACATCGTAAAAAAGAAGGAAGAAAATGGAGACTTTGGATAAAGATA
AACTCCCATAGTGAAGATATTCAAGAGACCAATATTGCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_007568
Insert Size: 534 bp
OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_007568.5</u> , <u>NP_031594.1</u>
RefSeq Size:	2876 bp
RefSeq ORF:	534 bp
Locus ID:	12223
UniProt ID:	<u>Q05928</u>
Cytogenetics:	5 44.78 cM
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]