

Product datasheet for MG221004

Btc (NM_007568) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Btc (NM_007568) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Btc

Synonyms: Bcn

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG221004 representing NM_007568

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

AAACTCCCATAAGTGAAGATATTCAAGAGACCAATATTGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG221004 representing NM_007568

Red=Cloning site Green=Tags(s)

MDPTAPGSSVSSLPLLLVLALGLAILHCVVADGNTTRTPETNGSLCGAPGENCTGTTPRQKVKTHFSRCP KQYKHYCIHGRCRFVVDEQTPSCICEKGYFGARCERVDLFYLQQDRGQILVVCLIVVMVVFIILVIGVCT

CCHPLRKHRKKKKEEKMETLDKDKTPISEDIQETNIA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



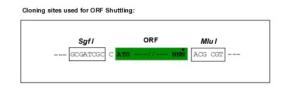
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

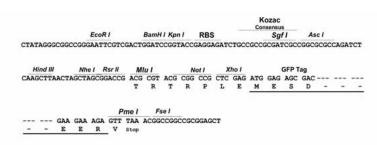
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

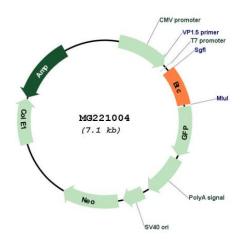


Cloning Scheme:





Plasmid Map:



ACCN: NM_007568

ORF Size: 531 bp

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.



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: 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:
 Q05928

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]