

Product datasheet for **MG227532**

Btg2 (NM_007570) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Btg2 (NM_007570) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Btg2
Synonyms: AA959598; APRO1; Pc3; TIS21
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG227532 representing NM_007570
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCCACGGGAAGAGAACCGACATGCTCCCGGAGATCGCCGCCCGCTGGGTTTCTCTCCAGTCTCC
 TGAGGACTCGGGGCTGCGTGAGCGAGCAGAGACTCAAGGTTTTTCAGTAGGGCGCTCCAGGACGCACTGAC
 CGATCATTACAAACACCACTGGTTTCCAGAAAAACCATCAAAGGTTCTGGCTATCGCTGTATCCGTATC
 AACCACAAGATGGACCCCATCATCAGCAAGGTGGCCAGCCAGATTGGACTCAGCCAGCCCCAGCTGCACC
 GGCTGCTGCCAGTGAGCTGACCCTGTGGGTTGATCCCTATGAAGTGTCTTACCGCATCGGGGAGGATGG
 CTCCATCTGTGTCTGTATGAGGAGGCCCGGTGGCTGCCTCCTATGGGCTCCTCACCTGCAAGAACCAG
 ATGATGCTGGGCAGGAGCAGCCCTCGAAGAACTATGTGATGGCCGTCTCCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG227532 representing NM_007570
 Red=Cloning site Green=Tags(s)

MSHGKRTDMLPEIAAAVGFLLSLLRTRGCVSEQLKVFSRALQDALTDHYKHHWFPEKPSKSGSYRCIRI
 NHKMDPIISKVASQIGLSQPQLHRLLPSELTWVDPYEVSYRIGEDGSICVLVEEAPVAASYGLLTCKNQ
 MMLGRSSPSKNYVMAVSS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_007570

ORF Size: 474 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: [NM_007570.2](#), [NP_031596.1](#)

RefSeq Size: 3083 bp

RefSeq ORF: 477 bp

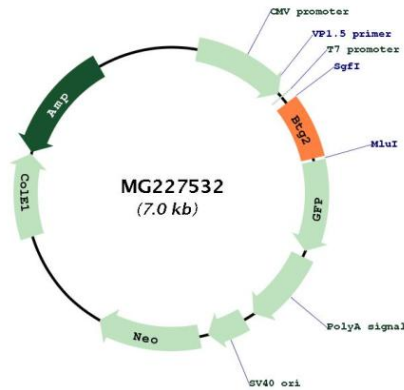
Locus ID: 12227

UniProt ID: [Q04211](#)

Cytogenetics: 1 58.1 cM

Gene Summary: Anti-proliferative protein; the function is mediated by association with deadenylase subunits of the CCR4-NOT complex. Activates mRNA deadenylation in a CNOT6 and CNOT7-dependent manner. In vitro can inhibit deadenylase activity of CNOT7 and CNOT8. Involved in cell cycle regulation. Could be involved in the growth arrest and differentiation of the neuronal precursors. Modulates transcription regulation mediated by ESR1. Involved in mitochondrial depolarization and neurite outgrowth (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG227532