

## Product datasheet for MR227532

### Btg2 (NM\_007570) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Btg2 (NM\_007570) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Btg2  
**Synonyms:** AA959598; APRO1; Pc3; TIS21  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR227532 representing NM\_007570  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGAGCCACGGGAAGAGAACCGACATGCTCCCGGAGATCGCCGCCCGTGGGTTTCTCTCCAGTCTCC  
 TGAGGACTCGGGCTGCGTGAGCGAGCAGAGACTCAAGGTTTTTCAGTAGGGCGCTCCAGGACGCACTGAC  
 CGATCATTACAAACACCACTGGTTTCCAGAAAAACCATCCAAAGGTTCTGGCTATCGCTGTATCCGTATC  
 AACCAAGATGGACCCATCATCAGCAAGGTGGCCAGCCAGATTGGACTCAGCCAGCCCCAGCTGCACC  
 GGCTGCTGCCAGTGAGCTGACCCTGTGGTTGATCCCTATGAAGTGTCTTACCGCATCGGGGAGGATGG  
 CTCCATCTGTGTCTGTATGAGGAGGCCCGGTGGCTGCCTCCTATGGGCTCCTCACCTGCAAGAACCAG  
 ATGATGCTGGGCAGGAGCAGCCCTCGAAGAACTATGTGATGGCCGTCTCCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR227532 representing NM\_007570  
 Red=Cloning site Green=Tags(s)

MSHGKRTDMLPEIAAAVGFLLSSLLRTRGCVSEQRKLVFSRALQDALTDHYKHHWFPEKPSKSGSYRCIRI  
 NHKMDPIISKVASQIGLSQPQLHRLPSELTLWVDPYEVSYRIGEDGSICVLVEEAPVAASYGLLTCKNQ  
 MMLGRSSPSKNYMAVSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9034\\_d04.zip](https://cdn.origene.com/chromatograms/mm9034_d04.zip)



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Restriction Sites: SgfI-MluI

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

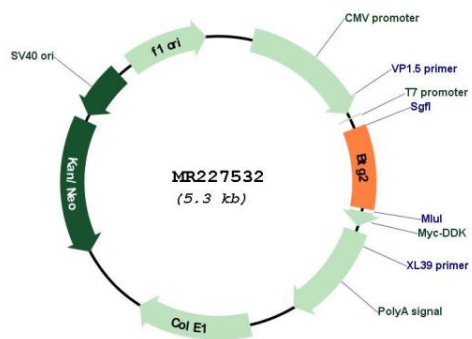
UniProt ID: [Q04211](#)

Cytogenetics: 1 58.1 cM

MW: 18.1 kDa

**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 MR227532