

Product datasheet for **RG200498**

BTG1 (NM_001731) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BTG1 (NM_001731) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: BTG1
Synonyms: APRO2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200498 representing NM_001731
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCATCCCTTCTACACCCGGGCCGCCACCATGATAGGCGAGATCGCCGCCCGCTGTCCTTCATCTCCA
 AGTTTCTCCGACCAAGGGGCTCACGAGCGAGCGACAGCTGCAGACCTTCAGCCAGAGCCTGCAGGAGCT
 GCTGGCAGAACATTATAAACATCACTGGTCCCAGAAAAGCCATGCAAGGGATCGGGTTACCGTTGTATT
 CGCATCAACCATAAAATGGATCCTCTGATTGGACAGGCAGCACAGCGGATTGGACTGAGCAGTCAGGAGC
 TGTTCCAGGCTTCTCCAAGTGAAGTCACTCTGGGTTGACCCCTATGAAGTGTCTACAGAATTGGAGA
 GGATGGCTCCATCTGTGTGCTGTATGAAGCCTCACCAGCAGGAGGTAGCACTCAAAACAGCACCAACGTG
 CAAATGGTAGACAGCCGAATCAGCTGTAAGGAGGAAGTCTCTTGGGCAGAACGAGCCCTTCCAAAAACT
 ACAATATGATGACTGTATCAGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200498 representing NM_001731
 Red=Cloning site Green=Tags(s)

MHPFYTRAATMIGEIAAAVSFISKFLRTKGLTTSERQLQTFSSQLQELLAEHYKHHWFPEKPKKSGSYRCI
 RINHKMDPLIGQAAQRIGLSSQELFRLLPSELTLWVDPYEVSYRIGEDGSICVL YEASPAGGSTQNSTNV
 QMVDSRISCKEELLGRTSPSKNYNMMTVSG

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: NM_001731

ORF Size: 513 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_001731.3](#)

RefSeq Size: 1783 bp

RefSeq ORF: 516 bp

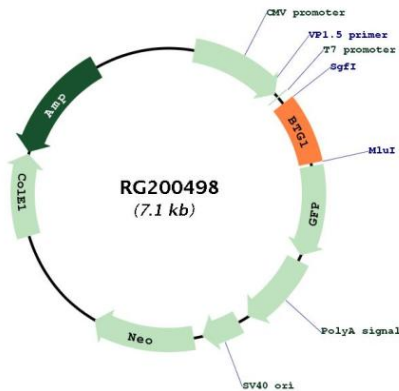
Locus ID: 694

UniProt ID: [P62324](#)

Cytogenetics: 12q21.33
Domains: Anti_proliferat
Protein Families: Transcription Factors

Gene Summary: This gene is a member of an anti-proliferative gene family that regulates cell growth and differentiation. Expression of this gene is highest in the G0/G1 phases of the cell cycle and downregulated when cells progressed through G1. The encoded protein interacts with several nuclear receptors, and functions as a coactivator of cell differentiation. This locus has been shown to be involved in a t(8;12)(q24;q22) chromosomal translocation in a case of B-cell chronic lymphocytic leukemia. [provided by RefSeq, Oct 2008]

Product images:



Circular map for RG200498