

Product datasheet for **RR205779**

Btg2 (NM_017259) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Btg2 (NM_017259) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Btg2
Synonyms: Agl; An; an-1; Pc3; Tis21
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR205779 representing NM_017259
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCCACGGGAAGAGAACCGACATGCTCCCGGAGATCGCCGCCCGTAGGTTTCTCACCAGTCTCC
 TGAGGACTCGGGCTGCGTGAGCGAGCAGAGACTCAAGTTTTTCAGTAGGGCGCTCCAGGACGCACTGAC
 CGATCATTACAAACACCACTGGTTTCCAGAAAAGCCATCAAGGGCTCCGGCTATCGCTGTATCCGCATC
 AACCAAGATGGACCCATCATCAGCAAGGTGGCCAGCCAGATCGGACTCAGCCAGCCCCAGCTGCACC
 AGCTCCTGCCAGCGAGCTGACCCTGTGGGTCGATCCCTACGAAGTGTCTACCGCATCGGGGAAGATGG
 ATCCATCTGCGTGCTGTATGAGGAGGCGCCGGTGGCCACCTCCTACGGGCTCCTACCTGCAAGAACCAG
 ATGATGCTGGGCAGGAGCAGTCCATCGAAGAACTACGTGATGACTGTCTCCAGCATGATGCTGGGCAGGA
 GCAGTCCATCGAAGAAGTACGTGATGACTGTCTCCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR205779 representing NM_017259
 Red=Cloning site Green=Tags(s)

MSHGKRTDMLPEIAAAVGFLLSLLRTRGCVSEQRKLVFSRALQDALTDHYKHHWFPEKPSKSGSYRCIRI
 NHKMDPIISKVASQIGLSQPQLHQLLPELTLWVDPYEVSYRIGEDGSICVLVEEAPVATSYGLLTCKNQ
 MMLGRSSPSKKNYVMTVSSMMLGRSSPSKKNYVMTVSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

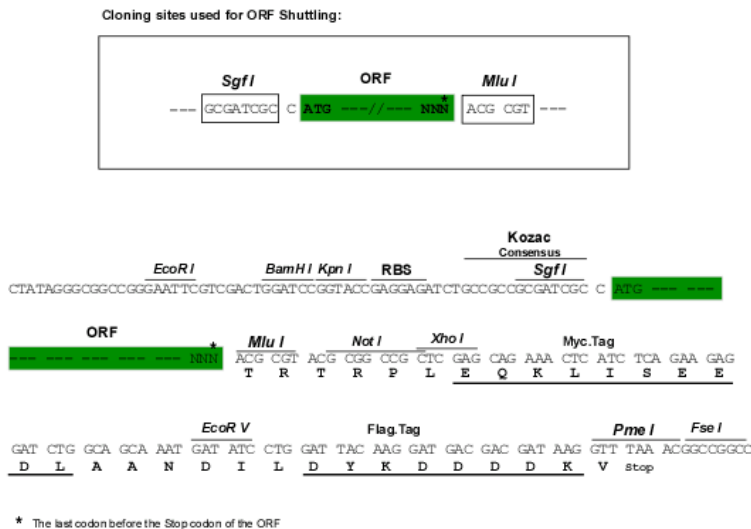
Chromatograms: https://cdn.origene.com/chromatograms/ja1537_f10.zip



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017259

ORF Size: 474 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 Size: 2519 bp

RefSeq ORF: 477 bp

Locus ID: 29619

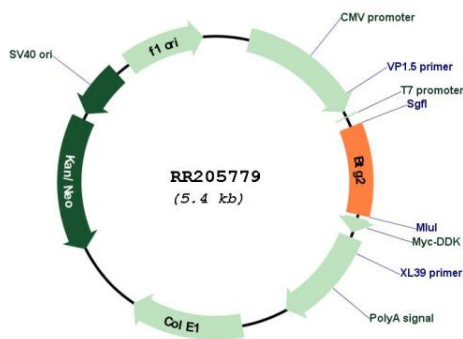
UniProt ID: [P27049](#)

Cytogenetics: 13q13

MW: 17.7 kDa

Gene Summary: an anti-proliferative protein; interacts with Pick1 and may have a role in PKC-mediated extracellular signal transduction and cellular differentiation [RGD, Feb 2006]

Product images:



Circular map for RR205779