

Product datasheet for **RG200634**

BAD (NM_004322) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BAD (NM_004322) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: BAD
Synonyms: BBC2; BCL2L8
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200634 representing NM_004322
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTCCAGATCCCAGAGTTTGAGCCGAGTGAGCAGGAAGACTCCAGCTCTGCAGAGAGGGGCTGGGCC
 CCAGCCCCGAGGGGACGGCCCTCAGGCTCCGGCAAGCATCATCGCCAGGCCCCAGGCCCTCTGTGGGA
 CGCCAGTCACCAGCAGGAGCAGCCAACCAGCAGCAGCCATCATGGAGGCGCTGGGCTGTGGAGATCCGG
 AGTCGCCACAGCTCCTACCCCGGGGACGGAGGACGACGAAGGGATGGGGGAGGAGCCAGCCCTTTT
 GGGCCGCTCGGCTCGGCGCCCCAACCTCTGGGCAGCACAGCGCTATGGCCGCGAGCTCCGGAGGAT
 GAGTGACGAGTTTGTGGACTCCTTAAGAAGGGACTTCCTCGCCCGAAGAGCGCGGGCACAGCAACGCAG
 ATGCGGCAAAGCTCCAGCTGGACGCGAGTCTTCCAGTCTGTTGGGATCGGAACCTGGGCAGGGGAGCT
 CCGCCCCCTCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200634 representing NM_004322
 Red=Cloning site Green=Tags(s)

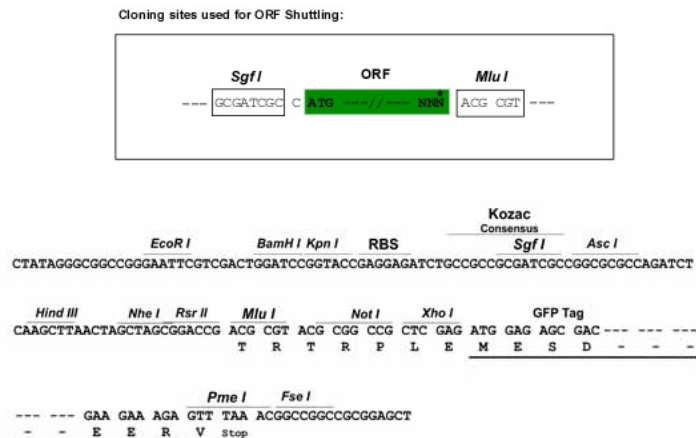
MFQIPEFEPSEQEDSSSAERGLGSPAGDGPSPGSGKHHHRQAPGLLWDASHQQEQPTSSSHHGAGAVEIR
 SRHSSYPAGTEDDEGMGEESPFRGRSRSAPPNLWAAQRYGRELRRMSDEFVDSFKKGLPRPKSAGTATQ
 MRQSSWTRVRFQSWDRNLGRGSSAPSQ

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_004322

ORF Size: 504 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_004322.3](#)

RefSeq Size: 1127 bp

RefSeq ORF: 507 bp

Locus ID: 572

UniProt ID: [Q92934](#)

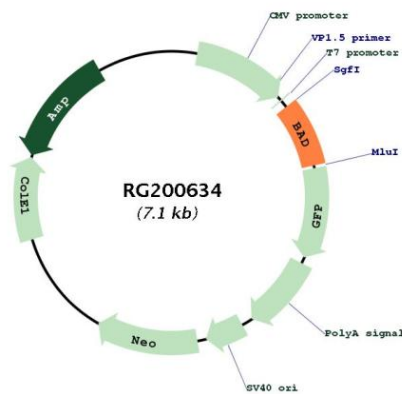
Cytogenetics: 11q13.1

Protein Families: Druggable Genome

Protein Pathways: Acute myeloid leukemia, Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Focal adhesion, Insulin signaling pathway, Melanoma, Neurotrophin signaling pathway, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Prostate cancer, VEGF signaling pathway

Gene Summary: The protein encoded by this gene is a member of the BCL-2 family. BCL-2 family members are known to be regulators of programmed cell death. This protein positively regulates cell apoptosis by forming heterodimers with BCL-xL (B-cell lymphoma-extra large) and BCL-2, and reversing their death repressor activity. Proapoptotic activity of this protein is regulated through its phosphorylation. Protein kinases AKT and MAP kinase, as well as protein phosphatase calcineurin were found to be involved in the regulation of this protein. Alternative splicing of this gene results in two transcript variants which encode the same isoform. [provided by RefSeq, Dec 2019]

Product images:



Circular map for RG200634