

Product datasheet for **RC207261**

BID (NM_001196) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BID (NM_001196) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: BID
Synonyms: FP497
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC207261 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGCAGCGGTGCTGGGGTCAATGATGGCTCGGTGGGCAGCGAGGGGCCGGGCGGCTGGAGGAGCACAG
TGCGGATTCTGTCGCCACTGGGACTGTGAACCAGGAGTGAGTCGGAGCTGCCGCGCTGCCAGGCCAT
GGACTGTGAGGTCAACAACGGTCCAGCCTCAGGGATGAGTGCATCACAACTACTGGTGTGGCTTC
CTCCAAAGCTGTTCTGACAACAGCTCCGAGAGAGCTGGACGCACTGGCCACGAGCTGCCAGTGTGG
CTCCCCAGTGGGAGGGCTACGATGAGCTGCAGACTGATGGCAACCGCAGCAGCCACTCCCGCTTGGGAAG
AATAGAGGAGATTCTGAAAGTCAAGAAGACATCATCCGGAATATTGCCAGGCACCTCGCCAGGTCGGG
GACAGCATGGACCGTAGCATCCCTCCGGGCTGGTGAACGGCCTGGCCCTGCAGCTCAGGAACACGACC
GGTCGGAGGAGGACCGGAACAGGGACCTGGCCACTGCCCTGGAGCAGCTGCTGCAGGCCTACCCTAGAGA
CATGGAGAAGGAGAAGACCATGCTGGTGTGGCCCTGCTGCTGGCCAAGAAGGTGGCCAGTCAAACGCCG
TCCTTGCTCCGTGATGCTTTACACAACAGTGAACCTTTATTAACCAGAACCTACGCACCTACGTGAGGA
GCTTAGCCAGAAATGGGATGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC207261 protein sequence
Red=Cloning site Green=Tags(s)

MCSGAGVMARWAARGRAGWRSTVRILSPLGHCEPGVSRSCRAAQAMDCEVNNSSLRDECITNLLVFGF
 LQSCSDNSFRRELDALGHLPVLAPQWEGYDELQTDGNRSSHRLGRIEADSESQEDIIRNIARHLAQVG
 DSMDRSIPPGLVNLALQLRNTSRSEEDRNRLATALEQLLQAYPRDMEKEKTMLVLALLLAKKVASQTP
 SLLRDVFHTTVNFINQLRITYVRSRLARNGMD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6321_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001196

ORF Size: 726 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 Size: 2217 bp

RefSeq ORF: 588 bp

Locus ID: 637

UniProt ID: [P55957](#)

Cytogenetics: 22q11.21

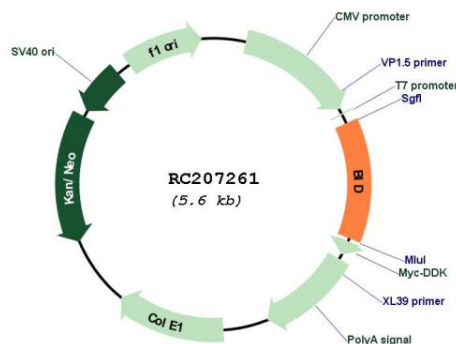
Protein Families: Druggable Genome

Protein Pathways: Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Natural killer cell mediated cytotoxicity, p53 signaling pathway, Pathways in cancer, Viral myocarditis

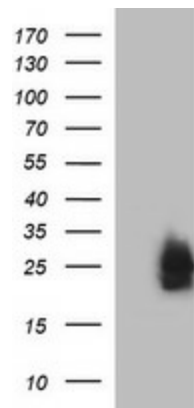
MW: 26.8 kDa

Gene Summary: This gene encodes a death agonist that heterodimerizes with either agonist BAX or antagonist BCL2, and thus regulate apoptosis. The encoded protein is a member of the BCL-2 family of cell death regulators. It is a mediator of mitochondrial damage induced by caspase-8 (CASP8); CASP8 cleaves this encoded protein, and the COOH-terminal part translocates to mitochondria where it triggers cytochrome c release. Multiple alternatively spliced transcript variants have been found. [provided by RefSeq, Aug 2020]

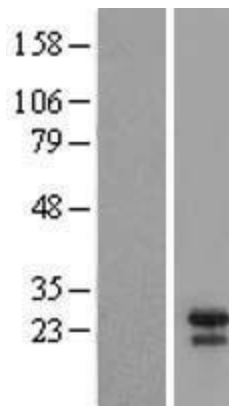
Product images:



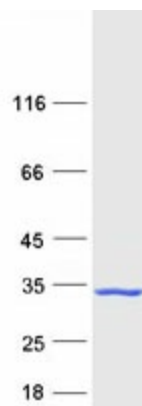
Circular map for RC207261



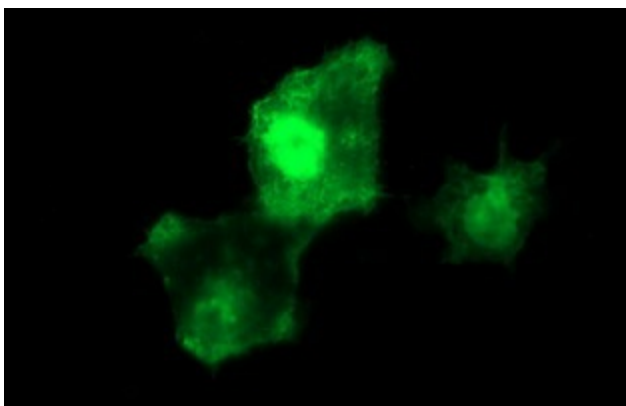
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY BID (Cat# RC207261, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-BID (Cat# [TA506766]). Positive lysates [LY420074] (100ug) and [LC420074] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY420074]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207261 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified BID protein (Cat# [TP307261]). The protein was produced from HEK293T cells transfected with BID cDNA clone (Cat# RC207261) using MegaTran 2.0 (Cat# [TT210002]).



Anti-BID mouse monoclonal antibody (TA506766) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY BID (RC207261).