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Product datasheet for SC108979

BID (NM_197967) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BID (NM_197967) Human Untagged Clone
Tag:	Tag Free
Symbol:	BID
Synonyms:	FP497
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC108979 sequence for NM_197967 edited (data generated by NextGen Sequencing)
ATGGACCGTAGCATCCCTCCGGGCCTGGTGAACGGCCTGGCCCTGCAGCTCAGGAACACC
AGCCGGTCGGAGGAGGACCGGAACAGGGACCTGGCCACTGCCCTGGAGCAGCTGCTGCAG
GCCTACCCTAGAGACATGGAGAAGGAGAAGACCATGCTGGTGCTGGCCCTGCTGCTGGCC
AAGAAGGTGGCCAGTCACACGCCGTCCTTGCTCCGTGATGTCTTTCACACAACAGTGAAC
TTTATTAACCAGAACCTACGCACCTACGTGAGGAGCTTAGCCAGAAATGGGATGGACTGA

Clone variation with respect to NM_197967.2
240 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_197967 unedited
AATTTGTATACGACTCCTATAGGCGGCCGCGAATTCGGCACGAGGAACGGTTCCAGCCTC
AGGGATGAGTGCATCACAAACCTACTGGTGTTTGGCTTCCTCCAAAGCTGTTCTGACAAC
AGCTTCCGCAGAGAGCTGGACGCACTGGGCCACGAGCTGCCAGTGCTGGCTCCCCAGTGG
GAGGGCTACGATGAGCTGCAGACTGATGGCAACCGCAGCAGCCACTCCCGCTTGGGAAGA
ATAGAGGCAGATTCTGAAAGTCAAGAAGACATCATCCGGAATATTGCCAGGCACCTCGCC
CAGGTCGGGGACAGCATGGACCGTACCATCCCTCCGGGCCTGGTGAACGGCCTGGCCCTG
CAGCTCAGGAACACCAGCCGGTCGGAGGAGGACCGGAACAGGGACCTGGCCACTGCCCTG
GAGCAGCTGCTGCAGGCCTACCCTAGAGACATGGAGAAGGAGAAGACCATGCTGGTGCTG
GCCCTGCTGCTGGCCAAGAAGGTGGCCAGTCACACGCCGTCCTTGCTCCGTGATGTCTTT
CACACAACAGTGAACTTTATTAACCAGAACCTACGCACCTACGTGAGGAGCTTAGCCAGA
AATGGGATGGACTGAACGGACAGTTCCAGAAGTGCGACTGGCTAAAGCTCGATGTGGTCA
CAGCTGTATAGCTGCTTCCAGTGTAGACGGAGCCCTGGCATGTCAACAGCGTTCCTAGAG
AAGACCAGCCTGGAAGATAGCTGTGACTTCTATTTTAAAGACCATGCTCAACTTAAACCC
CACTTTCAAATATCCACATTAATATACTTGAATGACAATGTCCATTTACACGTATTTGAA
TGGCCTTCATATCATCCCCACATGAATCTGCCCTCTTG

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Restriction Sites:	NotI-NotI
ACCN:	NM_197967
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
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_197967.1, NP_932071.1
RefSeq Size:	2144 bp
RefSeq ORF:	300 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

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]
Transcript Variant: This variant (3) differs in the 5' region and uses a downstream start codon, as compared to variant 1. It encodes isoform 3 which has a shorter N-terminus, as compared to isoform 1.