

Product datasheet for **SC325299**

BTBD18 (NM_001145101) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	BTBD18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF: >SC325299 representing NM_001145101.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGCTCTCTGCCAGTCCCAAAATCCTATACAGGAACCCCGGTTCTCAGGTTAGCTTTTCTGCAG
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GCTCACTGCTGCATCCTGTAGCTTGTAGCCCTTCTTACAGAGCGCCTGGAGCGGGAGAGGCCAGCT
CAGGGTGGGAAGGTGGTGTAGAGCTGGGTGGCCTGAAGATCAGCACACTTAGGAAGCTGGTGGACTTC
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CGTGTGCTGAGCTGGAATCCCTTTCAGCTTGAGGGTGGAAAGTTGGTGAAGGCCCCACAGGGCCGAAGG
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CTTCTGCCAGCTCTGAAGAGGAAGAGATTGATGTGGTGGACTGGACAGCAGAGGGGAGGCTGGTACCC
ACTACTGTTCCCTCCGTGTGGCCTGACCCTTCTCAGAGTCAGAAACAGAGGTAGATATACTAACAATAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCGCCGCGC
  
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Restriction Sites:

SgfI-MluI

ACCN:

NM_001145101

Insert Size:

2139 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<ol style="list-style-type: none">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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001145101.1
RefSeq Size:	3061 bp
RefSeq ORF:	2139 bp
Locus ID:	643376
UniProt ID:	B2RXH4
Cytogenetics:	11q12.1
MW:	77.9 kDa
Gene Summary:	Specifically required during spermatogenesis to promote expression of piRNA precursors. The piRNA metabolic process mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposons, which is essential for the germline integrity. Acts by facilitating transcription elongation at piRNA loci during pachytene.[UniProtKB/Swiss-Prot Function]