

Product datasheet for **MC221142**

Btbd18 (NM_001145100) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Btbd18 (NM_001145100) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Btbd18
Synonyms:	Btbd18-ps; Gm13718; OTTMUSG00000013494
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC221142 representing NM_001145100
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGCTCTCCTGCCAGTTCAAAAATCCTGTACAGGAACCCCGTTCTCCGGGTAGCTTTTCTACAGC
 TTCATCACCAGCAGCAGAGTGGTGTGTTTTGTGATGCCCTTCTGCAGGCAGAGGGTGAGGCTGTCCAGC
 CCACTGCTGCATCCTGTCTGCCTGCAGTCTTTTCTCACAGAACGCTTGAGCGGAAAGCCGGTTCAG
 GGTCCGAAAGTTGTGCTGGAGATGGGAGGCCTAAAGATCCAAACACTAAGGAAGCTTGTGGACTTCTGT
 ATACGTCAGAGATGGAAGTATCTCAGGAAGAAGCCAGGATGTGCTGTCTGCTGCCCGTCAGCTCCGAGT
 GTCAGAGCTGGAACCCCTCAGCTAGAGGGTGGGAAGTTAGTAAAGGCTCCGAGGGTCCGAAGACTAAAC
 AGAGAGTGCTTACAACCGCCGGCTGCTGCGCAATCTCTGCCAGAGTGGTGGACCCAAGAGTCGCCCTC
 AAACCTCACTGCCTGTCACCCAGACTCCTAGTCTCTGGGGCAGTGAAGTTGAAGTCTTAGGGGAAGA
 AGAGGGGGCTCACAAAAGACTAACCTGCCAAATGCAGATAGCTTGTGAGATACTCAGCTCAAGAAGAAA
 GCCAGAGTTTGCCTGACTCAAGAAAGCAGATCATCTCCATCAAGCCAGAGAGAAGGACCTAAGGAAACCA
 AGAGTAACCCTGGTCTCACGCACTTCCAGCTTGTACCTTCTGTGGATGAGCAACTGTTGCCAGAAA
 GATCAGGCTGAGCCGCTCAAAGCCTTACCCCATGTCTATACATCTACACCTTCCAGCATATTAAGTGGT
 CCCAGCTCAATGCCACAGCCCTGGCCGCCGTCTTGGAGGCAGAGAAGTGAAGTAAAGAAGCACAGG
 GTGTGGATAAGCAGAAACCAGGGGAAGTCCGCTCTACAGAGCACTCCAGACCCATCCGATGTTGGGAA
 GCCGGCTGAGAACAGAAGCAGAGCCCTGAACTCAGAGCCCTACCTCCAGCTCTGTAGAGGAGGGGCAG
 GTTGGAAAGATAAACTTAGGAAGATTGTCAATGGCACCTGCTGGGAGGTGGTACAGGAGCCTCCCTCA
 GAAACACTCAAGATAGCCCCAGATCCTAGAACCCTCAGATGTAGAAGAGCCTTCTGGAAGTCTGCTGTC
 CTCAGTTAATGAGCAGGAAATACCTGCTAGAATACAACCTGTGTCAGGACTCCCCAGAGAGCCCTAGGCTT
 CAAGACATTCTGCTCTCTGCTAGCCACTCCCCAGACCACCTATGGTGAAGTCAGAGTTTGGGTCTAGTC
 CAATGCTGACAGGGAAGGAATCTGACTTGAATATTGACTGCAGAGAGCCCTACACATTCGACACAACCTT
 GCTTGGCCAACCTTGTGAGGCTGAGCAGTATCGAATCACAAAGTGTGAGCTACCAGTGAAGTGAAGAG
 ATTTTTGATTTTATGCTATGTGGCTCAGATGTTGAGCCACCAGTAGGATCTTTGGAGAGTCTGGGGCTG
 AAGGCTGCAGAACCCCAAGTTATCACCTGTCAGAAACAGGAAAGAATTGGATTGAAGGGGAAGAATGGT
 TTTGCCAGACATGGAAGTCTGGCCAGAGACCTCACAGGATTGGAAAAGGAACCAGTTAGTGAGAACAAA
 GAGCCAGTTGAGCCCTTGTAGTCCCTTGTGATGCGCTCTGAGAACACAGAATCATTTGAGCCCTTAGCC
 CCTTGTGATGCCCTCTGAGGTGAGTAGAGAGGAACTTCTACTAAGAGGCTCTTGACTCCAGACCTTGA
 AATTACCAGCTCCAGCCACTGGATGGTCAGGGAGAAAACTTCTCCACTTTGACTCCTCTGACCCTTCG
 CAGAGATCTTATAATCATCTCTCTCCTCCATGCTCAGACTGGGCAGAGACAGGTCTGGAAGTGTCCCTAG
 GCATGGATGACGTATTGTGCTCTTCCAAGGCAGTCAGAGAAGTGTCTGCCAACCTGAACAGCTGGA
 CCCACTTCTGGCAGTTCTGAAGATGAAGAGATTGATGTGGTAGACTGGACAGTGGAAAAGAAGCTGGGG
 CCCACTAGTGTCCCTCTGTTGGCCTGACCCTTCTCAGAGTCAGAACTGAGGTAGATATACTAACAT
 AG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001145100
Insert Size: 2172 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).

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.
RefSeq:	<u>NM_001145100.1, NP_001138572.1</u>
RefSeq Size:	3520 bp
RefSeq ORF:	2172 bp
Locus ID:	100270744
UniProt ID:	<u>A0A0A6YY25</u>
Cytogenetics:	2
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]