

Product datasheet for **RG226575**

BTBD18 (NM_001145101) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	BTBD18
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence: >RG226575 representing NM_001145101
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTGCTCTCCTGCCAGTCCCAAAATCCTATACAGGAACCCCGGTTCTCAGGTTAGCTTTTCTGCAGC
 TTCATCACCAGCAGCAGAGTGATGTGTTCTGTGATGTCCTTCTGCAGGCAGAAGGTGAGGCAGTTCCAGC
 TCACTGCTGCATCTGTGAGCTTGTAGCCCTTCTTCACAGAGCGCTGGAGCGGGAGAGGCCAGCTCAG
 GGTGGGAAGGTGGTGCTAGAGCTGGGTGGCTGAAGATCAGCACACTTAGGAAGCTGGTGGACTTCTTGT
 ATACCTCAGAAATGGAAGTATCTCAAGAAGAAGCCAGGATGTGCTATCTGCTGCCCGTCAGCTCCGTGT
 GTCTGAGCTGGAATCCCTTCAGCTTGAGGGTGGAAGTTGGTGAAGGCCCCACAGGGCCGAAGGCTGAAC
 CGAGAGTGCTTACAACCAACAAGTGTGCACCAATCTCTGCCAGAGTGGTGACACCCAGCCACCACCCTC
 ACACCCCACTGCCCACTAATCAAATCCTTGTCTCTTGGGGCAATAAGATTGAAGTCTTGGGGAAGGA
 AGAGGGGCCCCAGGAAAACAACCGACAGAATGCAGACAATTTGTCTGGCACTCTTCTGCTCAAGAGGAAG
 GCCAGAGCCTGCCCACTCCACAAGAAAAAACTCTTACCATCAAGCCATAGTCAAGAGCCTAGAGAGA
 ACAAGAATGACACTGCCCTTGATCCTACAGTGCTCTCCCCACCCAGCTTGATACCCCTCTGTGGACAAACA
 CCTGTTGCCAGAAAGATCAGGCTCAGTCGCTCAAAGCCATCTCTGGTATCTGTACATCAAAGCCTTCC
 AGCATTTTAAAGTGATCTAGCTCAGTGCTGCAACCCCTGGCGGCGCTTTTGGCGCAGAGGAGTGTA
 ATAAAGAAACACAGAGGACAAGCCAAAACAGGCAGAGCTAGTCTCTGCAGAGCACCCCAACCCATC
 TGGTCTGGGAAAGACAGGTGGGAGCAGGAAGCGAGCCCTGAAGTCAGGGCACCTAAGTCAAGTCTGCA
 GAGGAGGGGAGGTTGGGAGAGTTAACTTAGGAAGATTGTCAATGGGACTTGTGGGAAGTGGTACAAG
 AGACTCCTCTCAAAACACTCAAGATAGCCCCCAGATCCAGATCCCGGAGGAGACTTCAAGAGCCTTC
 AGGAATCAGCCATTCTCCAGTAATGAGCAGGAAATGTACCTACTAGAACAGAACTGTGTGAGGACTCC
 CCCATGTGCACTAAGTACAAGACATTCTGGTCTCTGTAGCCACTCCCAGACCACCCAGTGGTGAAGT
 CAGAGTTTGAGTCCAGTCCAGAAGTGGTAGAGAAGGAACCTATGTTGGCTATTGACTGCAGAGAACCCTA
 TGCATTTGACACAGCTCTGCTGGAGCAGCCCTGTGAGGCTGAGGAGTACCGAATCACAAGTCTGCTGCC
 ACCAGTGAGCTGGAGGAGATCCTGGACTTCATGCTCTGTGGCTCAGACATTGAACCACTATAGGGTCTC
 TGGAGAGTCCAGGGGCTGAGGGCTGCAGAAGCCTACCTACCATCTGACAGAAACAGGAAAGAACTGGAT
 TGAAGGGGAAGAATGGTGTCTACCAGACATGGAAGTCTGGCCAGGAGGCTCACAGAATTGGAAGGA
 CCTGCTGGTGAGAACAGAGGGCCAACTGAGCTCCTTAGCCCCCTTGTGATGCCCTCTGAGGTGAGTGAAG
 TGCTTTTCAGTAGGAGGCCGTTGGACACCAGACCTTGAATACCAGCTCCAGCCACTGGATGGTCAGGA
 AGACAAACTTCTCATGTGAGTCCCTTGATACTCCCAGAGGTCTTATGGGGACCTCTCACCTCCCTGC
 TCAAATGGGTGGAGACTGGGCTGGAAGTCTCCTTGACTACAGATGAGTTATTATACCTTCTCCAAGG
 CAGGCAAGGAGGTATCTGGTCACTGGAAGTCTAGGCTCACTTCTGCCAGCTCTGAAGAGGAAGAGAT
 TGATGTGGTGGACTGGACAGCAGAGGGGAGGCTGGTACCCACTACTGTTCCCTCCGTGTGGCCTGACCT
 TCCTCAGAGTCAGAAACAGAGGTAGATATACTAACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

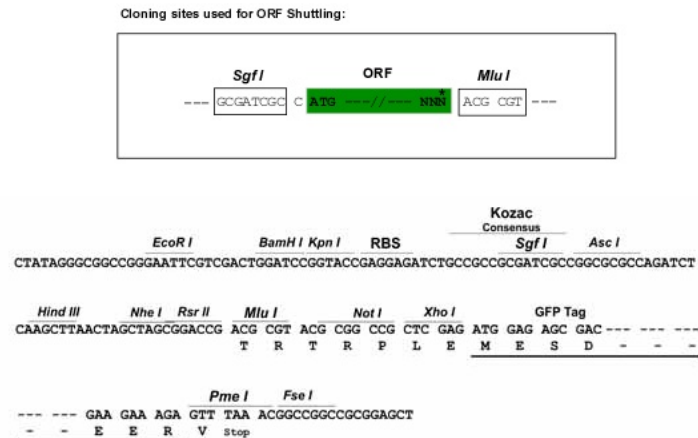
Protein Sequence: >RG226575 representing NM_001145101
 Red=Cloning site Green=Tags(s)

MCSPASPKILYRNPRFLRLAFLQLHHQQQSDVFCVLLQAEGEAVPAHCCILSACSPFFTERLERERPAQ
 GGKVVLELGLKISTLRKLVDFLYTSEMEVSQEEAQDVL SAARQLRVSELESLQLEGGKLVKAPQGRRLN
 RECLQPTSAAPISARVVTSPHHPHTPLPTNQTPCLGAIRLKS LGKEGPQENNRQNADNLSGTLKLRK
 ARACPTPQEKNSSPSSHQEPRENNDTALDPTVL SPPSLYPSVDKHLPRKIRLSRSKPSPGICTSKPS
 SILSGSSVPATPGRRLWRQSVNKETPEDKPKPGRASPLQSTPNPSGLGKTGGSRKRSPEVRAPNSDSA
 EEGQVGRVKLRKIVNGTCWEVVQETPLKNTQDSPQIPDPGGDFQEPSGTQPFSSNEQEMSPTRTELCQDS
 PMCTKLQDILVSASHSPDHPVVKSEFESSPELVEKEPMLAIDCREPYAFDTALLEQPCAEAEYRITSAAA
 TSELEEILDFMLCGSDIEPPIGSLSPGAEGCRTPTYHLTETGKNWIEGEEWCLPDMELWPREL TELEKE
 PAGENRGPTSELLSPLVMPSEVSEVLSVGGRWTPDLEITSSQPLDGQEDKLLHVSSLDTPQRSYGDLSPPC
 SNWVETGLEVSLTTDELLYSPKAGKEVSGHSELLGSLPASSEEEIDVVDWTAEGRLVPTTVPSVWDP
 SSESETEVDILT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001145101

ORF Size: 2136 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.

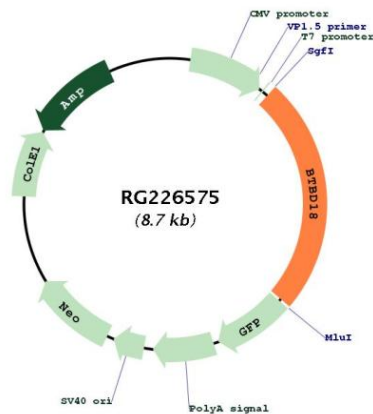
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001145101.1](#), [NP_001138573.1](#)

RefSeq Size: 3061 bp
RefSeq ORF: 2139 bp
Locus ID: 643376
UniProt ID: [B2RXH4](#)
Cytogenetics: 11q12.1

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]

Product images:



Circular map for RG226575