

## Product datasheet for **RG218190**

### BTBD7 (NM\_018167) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BTBD7 (NM_018167) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BTBD7
Synonyms:	FUP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218190 representing NM_018167 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGTGCTAATGCATCTAATTATCCTCATTCATGTTCCCGAGGGTAGGGGAAATTCACAGGCCCAAC  
AGACTTTTATAGGGACCTCATCTATTCTCAGCAAGGCTATGGTTGCGAATCAAAGTTGTATAGCCTTGA  
CCATGGCCATGAGAAACCACAAGACAAAAAAGAGAACCTCTGGTCTTGCCACCCTCAAAAAGAAGTTT  
ATTAAGCGTCGGAAATCTAATAGGTCTGCCGATCATGCCAAGCAGATGCGAGAATCCTCTCTGGGTGGG  
ATGTTAGAGATGTCAATGCATTAGTGGAGGAATATGAGGGAACATCAGCATTAAAGGAGCTTCTCTACA  
AGCCAGTTTGGCTAGACCAGAAGCCCGGACATTGCAGAAAGATATGGCTGATCTTTATGAGTACAAGTAT  
TGTAAGTGTAGACTTAATATTTCAAGAACTTGTTTTCTGTTTCATCGTGCCATTTTGGCAGCAAGGT  
GTCCATTTTTTAAACACTGCTTCTTCTCACCAGAGTATGGGGCAGAGATAATAATGGACATCAATAC  
AGCTGGTATTGATATGCCCATGTTTTCTGCTTGTACTACCTTTATACAGGAGAGTTTGAATGGAG  
GACTCAAGGTTTCAAATGTCGATATCCTTGTTCAGCTTAGTGAAGAATTTGGAACCAAAATCCCTTG  
ATGTAGATATGCGTGGACTCTTTGATTACATGTGTTATTATGATGTCGTCCTTAGTTTTCTTCAGACT  
TGAAGTGGTTGAAGCTTTTGGTGGAAATCAGAAGTGTAGATGAAGAGCTCAAAGCCACAAGGCTGTT  
ATTTCTGCACGGTCCCCATTTTTCGAAATTTATTACAAAGGAGGATACGAACTGGTGAAGAAATCACAG  
ACCGAACTTTGAGGACTCCCAAGAATTATATTAGATGAGTCCATTATACCAAAAAAATATGCAACAGT  
GATATTACACTGTATGTATACCGACGTGGTGGACCTCTGTTTTGCACTGTAGCCCTCTGTGGGGAGT  
CTCAGTGAAGTTCAGGCTCTCGTCGAGGGAAGCCAAACATGACCAGGGCAGAAGAAGCCATGGAACCTT  
ACCACATAGCACTGTTCTTGAATTTAACATGCTTGCACAAGAGGAGACTACAGTCATCAGGCTGCCTG  
TGCAGCAGAGCTTTCAAACAGCTGCTTACTGCCTCAATCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG218190 representing NM\_018167  
 Red=Cloning site Green=Tags(s)

MGANASNYPHSCSPRVGGNSQAQQTFIGTSSYSQQGYGCEKLYSLDHGHEKPQDKKRTSGLATLKKKF  
 IKRRKSNRSADHAKQRELLSGWDVRDVNALVEEYEGTSALKELSLQASLARPEARTLQKDMADLYEYKY  
 CTDVDLIFQETCFPVHRAILAARCPFFKTLSSSPEYGAEIIMDINTAGIDMPMF SALLHYLYTGEFGME  
 DSRFQNV DILVQLSEEFGTPNSLDVDMRGLFDYMCYYDVVLSFSSDSELVEAFGGNQCLDEELKAHKAV  
 ISARSPFFRNLLQRRIRTGEEITDRTL RTPTRIILDESIIPKKYATVILHCMYTDVVDLSVLHCSPSVGS  
 LSEVQALVAGKPNMTRAEEMELYHIALFLEFNMLAQEETTVIRPACAAELSNSCLLPQS

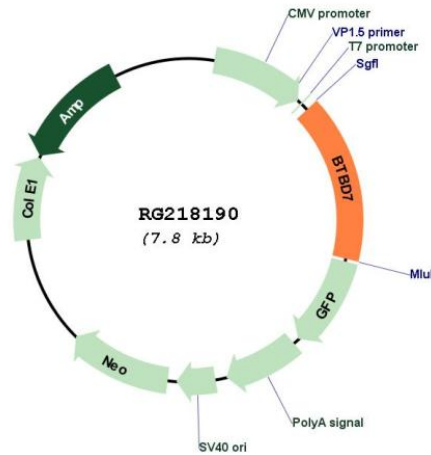
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_018167

<b>ORF Size:</b>	1230 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_018167.5</a>
<b>RefSeq Size:</b>	2568 bp
<b>RefSeq ORF:</b>	1233 bp
<b>Locus ID:</b>	55727
<b>UniProt ID:</b>	<a href="#">Q9P203</a>
<b>Cytogenetics:</b>	14q32.12
<b>Domains:</b>	BTB
<b>Gene Summary:</b>	Acts as a mediator of epithelial dynamics and organ branching by promoting cleft progression. Induced following accumulation of fibronectin in forming clefts, leading to local expression of the cell-scattering SNAIL2 and suppression of E-cadherin levels, thereby altering cell morphology and reducing cell-cell adhesion. This stimulates cell separation at the base of forming clefts by local, dynamic intercellular gap formation and promotes cleft progression (By similarity).[UniProtKB/Swiss-Prot Function]