

## Product datasheet for **MG207615**

### **Btbd10 (BC050781) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |                                          |
|---------------------------|------------------------------------------|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | Btbd10 (BC050781) Mouse Tagged ORF Clone |
| Tag:                      | TurboGFP                                 |
| Symbol:                   | Btbd10                                   |
| Synonyms:                 | 1110056N09Rik; Gmrp1                     |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-AC-GFP (PS100010)                  |
| E. coli Selection:        | Ampicillin (100 ug/mL)                   |



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**ORF Nucleotide Sequence:**

>MG207615 representing BC050781  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAGGACGGCCTCATCCCTATGACAGTAACCTCCAGTGATCCAGAGAATTGGGATCGGAAATTGCATA  
 GTAGACCTCGTAACTTTATAAACATTCAAGCTCTGCCTCACGTGTTGCTAAGGGAGGAGTCGACCACAC  
 CAAAATGAGTCTGCATGGTGCTAGTGGGGCCATGAGAGATCAAGAGATAGACGCCGGTCAAGTGACAGA  
 TCACGAGATTCATCTCATGAGAGAGCAGAGTCTCAGCTTACTCCTTGATTTCGAAATGTGACTTCACCAA  
 CAAGGCAGCATCATATTGAACGAGAAAAAGACCATAGTTCTTCTCGTCCAAGCAGTCCTCGTCTCAAAG  
 AGCATCCCCAAATGGCTCCATGAGCAGTGCTGGGAACAGTAGCAGGAACAGCAGCCAGTCAAGCTCAGAT  
 GGTAGCTGTAAAACATCTGGGAGATGGTGTGTGTATGAGAATGCGAAAGAAGGGGCTCGGAATGTGA  
 GGACATCTGAGCGAGTGACTCTGATAGTGGATAACACCAGATTTGTTGTGGACCCGTCCATTTTACTGC  
 ACAGCCAAATACAATGTTGGCAGGATGTTTGGATCTGGCCGGGAACATAATTTACACGTCCTCAATGAG  
 AAGGGAGAATATGAGGTGGCAGAGGGAATTGTTTCTACTGTGTTTCGAGCTATTTTGGATTACTATAAGA  
 CAGGAATCATCCCTGTCTGATGGCATATCGATTCTGAACTGCGAGAAGCATGTGATTACCTTTGTAT  
 CTCTTTTGAATACAGTACAATTAATGTAGAGATCTCAGTGCCCTTATGCATGAGTTATCAAATGATGGT  
 GCTCGTAGACAATTTGAATTTTATCTGGAAGAAATGATCCTCCCTCTCATGGTAGCAAGCGCCAGAGTG  
 GGGAACGAGAGTGCCATATCGTAGTGCTTACAGATGATGATGTAGTTGATTGGGATGAGGAGTATCCACC  
 ACAGATGGGAGAAGAATTTACAGATTATTTATAGCACAAAATTATATAGATTTTCAAGTACATTGAA  
 AACAGAGATGTGGCCAAATCAGTTTGAAGGAGAGGGGTCTTAAGAAGATTAGATTGGGAATAGAAGGCT  
 ATCCTACCTACAAAGAAAAAGTAAAGAAAAGGCCAGGGGGCCGTCCAGAAGTCATTTACAATTATGTCCA  
 AAGACCCTTCATTCTGAATGTCCTGGGAGAAGGAGGAAGGAAAGAGTCGGCATGTAGACTTTTCAGTGTGTA  
 AAGAGTAAATCCATTACCAATCTGGCAGCAGCTGCTGCAGACATTTCCCAGGACCAGCTAGTAGTCATGC  
 ACCCTACTCCACAGGTGGACGAGCTGGATATCCTTCCCAGCCACCCTGCCTCGGGCAACAATGACCTCGA  
 TCCTGATGCACAGAATCCAATGCTG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG207615 representing BC050781  
 Red=Cloning site Green=Tags(s)

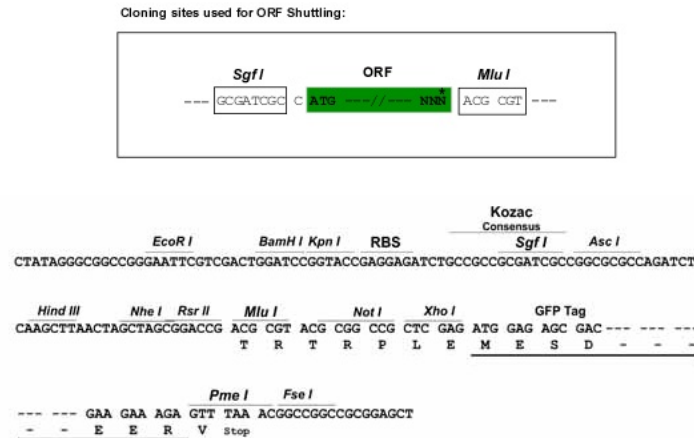
MAGRPHPYDSNSSDPENWDRKLHSRPRKLYKHSSASRVAKGGVDHTKMSLHGASGGHERSRDRRRSSDR  
 SRDSSHERAESQLTPCIRNVTSPTRQHIEREKDHSSSRPSSRPQRASPNMSSAGNSSRNSSQSSSD  
 GSCKTSGEMVFVYENAKEGARNVRTSERVTLIVDNTRFVVDPSIFTAQPNMMLGRMFGSGREHNFTRPNE  
 KGEYEVAEGIGSTVFRAILDYYKTGIIRCPDGISIPELREACDYLCISFEYSTIKCRDLSALMHLSNDG  
 ARRQFEFYLEEMILPLMVASAQSGERECHIVLTDVVVDWDEEYPPQMGEESQIIYSTKLYRFFKYIE  
 NRDVAKSVLKERGLKKIRLGIEGYPTYKEVKKRPGRPEVIYNYVQRPFIRMSWEKEEGKSRHVDQFCV  
 KSKSITNLAAAAADIPQDQLVVMHPTPQVDELILPSHPASGNNDLDPDAQNPML

**TR**TRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

## Cloning Scheme:



ACCN: BC050781

ORF Size: 1425 bp

**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](mailto: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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

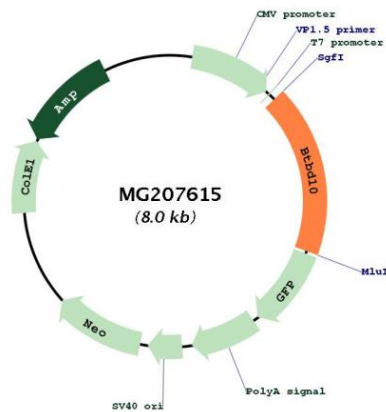
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**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.

|                      |                                                                                                                                                                                                                                                                                   |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Note:</b>         | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                          |
| <b>RefSeq:</b>       | <a href="#">BC050781</a> , <a href="#">AAH50781</a>                                                                                                                                                                                                                               |
| <b>RefSeq Size:</b>  | 2591 bp                                                                                                                                                                                                                                                                           |
| <b>RefSeq ORF:</b>   | 1427 bp                                                                                                                                                                                                                                                                           |
| <b>Locus ID:</b>     | 68815                                                                                                                                                                                                                                                                             |
| <b>Cytogenetics:</b> | 7 F1                                                                                                                                                                                                                                                                              |
| <b>Gene Summary:</b> | Plays a major role as an activator of AKT family members by inhibiting PPP2CA-mediated dephosphorylation, thereby keeping AKTs activated. Plays a role in preventing motor neuronal death and in accelerating the growth of pancreatic beta cells.[UniProtKB/Swiss-Prot Function] |

## Product images:



Circular map for MG207615