

## Product datasheet for **MC216509**

### **Btbd10 (NM\_133700) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Btbd10 (NM_133700) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Btbd10
Synonyms:	1110056N09Rik; Gmrp1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC216509 representing NM\_133700  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAGGACGGCCTCATCCCTATGACAGTAACCTCCAGTGATCCAGAGAATTGGGATCGGAAATTCGATA  
 GTAGACCTCGTAACTTTATAAACATTCAGCTCTGCCTCACGTGTTGCTAAGGGAGGAGTCGACCACAC  
 CAAAATGAGTCTGCATGGTGCTAGTGGGGCCATGAGAGATCAAGAGATAGACGCCGGTCAAGTGACAGA  
 TCACGAGATTCATCTCATGAGAGAGCAGAGTCTCAGCTTACTCCTTGATTGAAATGTGACTTCACCAA  
 CAAGGCAGCATCATATTGAACGAGAAAAAGACCATAGTTCTTCTCGTCCAAGCAGTCCTCGTCTCAAAG  
 AGCATCCCCAAATGGCTCCATGAGCAGTCTGGGAACAGTAGCAGGAACAGCAGCCAGTCAAGCTCAGAT  
 GGTAGCTGTAACATCTGGGGAGATGGTGTGGTGTATGAGAATGCGAAAGAAGGGGCTCGAATGTGA  
 GGACATCTGAGCGAGTACTCTGATAGTGGATAACACCAGATTTGTTGTGGACCCGTCATTTTTACTGC  
 ACAGCCAATACAATGTTGGCAGGATGTTGGATCTGGCCGGGAACATAATTTACACGTCCTCAATGAG  
 AAGGGAGAATATGAGGTGGCAGAGGGAATGGTTCTACTGTGTTTCGAGCTATTTGGATTACTATAAGA  
 CAGGAATCATCCGCTGTCTGATGGCATATCGATTCTGAACTGCGAGAAGCATGTGATTACCTTTGTAT  
 CTCTTTGAATACAGTACAATTAATGTAGAGATCTCAGTGCCCTTATGCATGAGTTATCAAATGATGGT  
 GCTCGTAGACAATTTGAATTTTCTGGAAGAAATGATCCTCCCTCATGGTAGCAAGCGCCAGAGTG  
 GGGAACGAGAGTGCCATATCGTAGTGCTTACAGATGATGATGTAGTTGATTGGGATGAGGAGTATCCACC  
 ACAGATGGGAGAAGAATTTACAGATTATTTATAGCACAAAATTATATAGATTTTTCAAGTACATTGAA  
 AACAGAGATGTGGCCAAATCAGTTTTGAAGGAGAGGGGTCTTAAGAAGATTAGATTGGGAATAGAAGGCT  
 ATCCTACCTACAAAGAAAAAGTAAAGAAAAGCCAGGGGCCGTCCAGAAGTCATTTACAATTATGTCCA  
 AAGACCTTCATTCTGAATGTCCTGGGAGAAGGAGGAAGAAAGATCGGCATGTAGACTTTCAGTGTGTA  
 AAGAGTAAATCCATTACCAATCTGGCAGCAGCTGCTGCAGACATCCCCAGGACCAGCTAGTAGTCATGC  
 ACCCTACTCCACAGTGGACGAGCTGGATATCCTTCCCAGCCACCCTGCCTCGGGCAACAATGACCTCGA  
 TCCTGATGCACAGAATCCAATGCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_133700

**Insert Size:** 1428 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](#)

<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>	<u><a href="#">NM_133700.2</a></u> , <u><a href="#">NP_598461.1</a></u>
<b>RefSeq Size:</b>	2563 bp
<b>RefSeq ORF:</b>	1428 bp
<b>Locus ID:</b>	68815
<b>UniProt ID:</b>	<u><a href="#">Q80X66</a></u>
<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]