

Product datasheet for **SC105225**

BTBD10 (NM_032320) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	BTBD10
Synonyms:	GMRP-1; GMRP1
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



Fully Sequenced ORF:

>OriGene ORF within SC105225 sequence for NM_032320 edited (data generated by NextGen Sequencing)
 ATGGCAGGACGGCCTCATCCCTATGATGGTAACCTCCAGTGATCCAGAGAATTGGGATCGG
 AAATTGCATAGTAGACCTCGTAAACTTTATAAACATTCAAGTACTTCCTCGCGTATTGCT
 AAAGGAGGAGTTGACCACACCAAAATGAGTCTACATGGTGCTAGTGGGGACATGAGAGA
 TCAAGAGATAGACGAAGGTCAAGTGACAGATCACGAGATTCATCTCATGAAAGAACGGAG
 TCTCAGCTCACTCCTTGATTAGAAATGTGACTTCTCCAACACGACAGCACCATGTTGAA
 CGAGAAAAAGATCAGATTCTCTCGTCCAAGCAGTCCGCGTCCTCAAAAAGCATCCCCA
 AATGGTTCCATTAGCAGTGCTGGGAACAGCAGCAGAAACAGTAGTCAGTCAAGTTCAGAT
 GGTAGCTGTAAGACAGCTGGGGAGATGGTGTGTTGTATGAAAATGCAAAAGAGGAGCT
 CGGAATATAAGAACGTGAGAACGAGTGACACTAATAGTGGATAACACTAGATTTGTTGTA
 GACCCATCCATTTTACTGCACAGCCAAATACAATGTTGGGCAGGATGTTTGGATCTGCG
 CGAGAACAATACTTACACGACCCAATGAGAAAGGAGAGTATGAGGTGGCAGAGGGAATT
 GGTTCCACTGTGTTTCGAGCGATTCTGGATTACTATAAACAGGAATAATCCGTTGTCCT
 GATGGCATATCTATTCTGAAGTGAAGAGCATGTGACTATCTTTGTATCTCTTTGAA
 TATAGCACTATTAATGTAGAGATCTCAGTGCCCTAATGCATGAGTTATCAAAATGATGGT
 GCTCGTAGACAATTTGAATTTTATCTGGAAGAAATGATCCTCCCTCTCATGGTAGTAGT
 GCCCAGAGTGGGGAACGGGAATGTCATATAGTGGTGCTTACAGATGATGATGTGGTTGAT
 TGGGATGAAGAATATCCACCACAGATGGGAGAAGAATATTCACAAATTTTATAGCACA
 AAATTATATAGATTTTCAAGTATATTGAAAACAGAGATGTGGCCAAGTCAGTTTGAAG
 GAGAGGGGTCTTAAGAAGATTAGATTGGGAATAGAAGTTATCCTACCTACAAAGAAAAA
 GTAAAGAAAAGGCCTGGAGGCCGCCAGAGTGATCTACAACATGTCCAAGACCCCTTT
 ATTCGAATGTCCTGGGAGAAGGAAGAAGAAAGAGTCGGCATGTAGACTTTCAGTGTGTA
 AAGAGTAAATCTATACCAATCTTGACGAGCTGCAGCAGACATCCCCAGGACCAGCTG
 GTAGTCATGCATCCAATCCACAAGTGGATGAGCTGGATATTCTCCCTATCCATCCCCCT
 TCTGGCAACAGTGACCTCGATCCTGATGCACAGAATCCAATGCTGTGA

Clone variation with respect to NM_032320.5

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_032320 unedited
 NGGTACCGTACCAATTTGTATACGACNCACTATAGGCGGCCGCTAATTCGCACGGGGA
 GGAGCCGGCCTGCAACCTGCCGGGGCGGCTCCGCTACGCGCAGCCGCTCAGTGGCTTCC
 TCCACAGCCACCTCCGAGGGATCTGGCTGAGGAGGAAGTGGAGGTGCTACTGGCCCCGG
 CCTTTGCCCAATCTTGTGTGGGCACTGAAGGGGGACTACAGGTTTCGAGAGTTATGGGTG
 CTACATGTGTGCTTTCAGAGCAGTAGTGTGAGGAAGCTTGGAGTGGGATGGCAGGACGGC
 CTCATCCCTATGATGGTAACTCCAGTGATCCAGAGAATTGGGATCGGAAATTGCATAGTA
 GACCTCGTAAACTTTATAAACATTCAAGTACTTCCTCGCGTATTGCTAAAGGAGGAGTTG
 ACCACACCAAAATGAGTCTACATGGTGCTAGTGGGGGACATGAGAGATCAAGAGATAGAC
 GAAGGTCAAGTGACAGATCACGAGATTCATCTCATGAAAGAACGGAGTCTCAGCTCACTC
 CTTGATTAGAAATGTGACTTCTCCAACAGCAGCAGCACCATTGTTGAACGAGAAAAAGATC
 ACAGTTCCTCTCGTCCAAGCAGTCCGCGTCTCAAAAAGCATCCCCAAATGGTTCCATTA
 GCAGTGCTGGGAACAGCAGCAGAAACAGTAGTCAGTCAAGTTCAGATGGTAGCTGTAAGA
 CAGCTGGGGAGATGGTGTGTTGTATGAAAATGCANAAGAAGAGCTCGGNATATAAGAAC
 GTCAGAACGAGTGACACTAATAGTGGATAACACTAGATTTGTTGTAGACCCATCCATTTT
 TACTGCACAGCCCAATACAATGTTGGGCAGGATGTTTGG

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_032320 unedited GCGGCCGCAATCTAGNATCGAGTTAAAAACA ATGGAATTTTATTTTGATGAAAACTCAAGTTTACAATCATTTAGTAAATGAAGAGCAAA CACTTCATTTTCTATCCATAACTCTACAGAAAAAAGCATTAGTAAATAAATATCT GTGAACAGATTAAGGGTAAGGCAGACTGGATAATAAACACCTCTGACATTCACACTCCC TGCATGTGACTCACTCTAAAGGGTGAATGGCTCTGGAGATAACTGAACTGGTAAGATAT GGGCATTAAATCTCATCCTGATCATTAGATAAGCCCAAGATAAACTTTTGTCTCATC AAGGGCAGCAAACTATACAAATTGACTGGAGGAATACTTTGACAGAAGCACTTAAATTA TATTGTGCATCACAACATAAAATGGCTTGAACATTTCCATTTAACCACTTTATAAAG TGCAACTATATATTACTCTGCATTTTATCTGAAGTGTGATGAATATCAGTCCAACTGAA AGTACCCAGCTGCCAATTCACCACTTCTGAAAAGACCTAGCTGTGTGAAAAAGGACCA TTCCCCATACAAAGAACAATTTCAAAACCTACTGGTACACAAAATACATTTACACCTG GAACTTCAAAATGCTAAAGTTGACTCATTTAAAAAATCATTGAGCTACCTTTGTCTTT AAATAACCCCCCTGCAATCCCTAACATTGTACTGGCTTCTACACAGACAAAACCGGC CTGCATGCCAAAGAGGAAATACACCGCCCCGTGAAAAACCTGCTTTGGTTCAAGGAAA ATAACCCCAACATTGGATTCTGGCTTAAGATCGAGTCCCTGTGGCCAAAGGGGATGGTA GGGAAAATCCGCTCATCCCTGGGGAATTGAGCCTAATCCCTCGCCTGGGAAAGTTTC TCATGCGTCAAATTGGGAATAATTCTTTCCCGAAATTCACCCCCCT
Restriction Sites:	NotI-NotI
ACCN:	NM_032320
Insert Size:	2950 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:	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_032320.4 , NP_115696.2
RefSeq Size:	2188 bp
RefSeq ORF:	1428 bp
Locus ID:	84280

UniProt ID: [Q9BSF8](#)

Cytogenetics: 11p15.3

Domains: BTB

Gene Summary: 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 accelerating the growth of pancreatic beta cells.[UniProtKB/Swiss-Prot Function]
 Transcript Variant: This variant (2) has two alternate upstream exons in place of the first exon compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus compared to isoform 1.