

Product datasheet for **RC238491**

BTBD10 (NM_001297742) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BTBD10 (NM_001297742) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BTBD10
Synonyms:	GMRP-1; GMRP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC238491 representing NM_001297742
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGCCCAAGGATGCTGACCTGGCTTTCAGTGCTTCATTGTTTGAAGAGCAGAGTCCCTTTATACTCTGA
 TTTCAAATTTTTTTCTGTTTTGTGTCTACCTTGGCATATACTAAAGGAAGTACTTCTCGCGTAT
 TGCTAAAGGAGGAGTTGACCACACCAAAATGAGTCTACATGGTGCTAGTGGGGGACATGAGAGATCAAGA
 GATAGACGAAGGTCAAGTGACAGATCACGAGATTCATCTCATGAAAGAACGGAGTCTCAGCTCACTCCTT
 GTATTAGAAATGTGACTTCTCCAACACGACAGCACCATGTTGAACGAGAAAAAGATCACAGTTCCTCTCG
 TCCAAGCAGTCCGCGTCTCAAAAAGCATCCCCAAATGGTTCATTAGCAGTGCTGGGAACAGCAGCAGA
 AACAGTAGTCAGTCAAGTTCAGATGGTAGCTGAAGACAGCTGGGAGATGGTGTGTATGAAAATG
 CAAAAGAAGGAGCTCGGAATATAAGAACGTCAGAACGAGTGACACTAATAGTGGATAACACTAGATTTGT
 TGTAGACCCATCCATTTTACTGCACAGCCAAATACAATGTTGGCAGGATGTTTGGATCTGCCGAGAA
 CATAACTTTACACGACCAATGAGAAAGGAGAGTATGAGGTGGCAGAGGGAATTGGTCCACTGTGTTC
 GAGCGATTCTGGATTACTATAAACAGGAATAATCCGTTGTCTGATGGCATATCTATTCCTGAAGTGA
 AGAAGCATGTGACTATCTTTGTATCTCTTTGAATATAGCACTATTAAATGTAGAGATCTCAGTGCCTTA
 ATGCATGAGTTATCAAATGATGGTGCTCGTAGACAATTTGAATTTTATCTGGAAGAAATGATCCTCCCTC
 TCATGGTAGCTAGTGCCAGAGTGGGGAACGGGAATGTCATATAGTGGTGCTTACAGATGATGATGGT
 TGATTGGGATGAAGAATATCCACCACAGATGGGAGAAGAATATCACAAATATTTATAGCACAAAATTA
 TATAGATTTTCAAGTATATTGAAAACAGAGATGTGGCCAAGTCAGTTTGAAGGAGAGGGGTCTTAAGA
 AGATTAGATTGGGAATAGAAGTTATCTACCTACAAAGAAAAAGTAAAGAAAAGCCCTGGAGGCCGCC
 AGAAGTGATCTACAACATGTGCCAAGACCCCTTATTGCAATGTCCTGGGAGAAGGAAGAAGGAAGAGT
 CGGCATGTAGACTTTCAGTGTGTAAGAGTAAATCTATACCAATCTTGACGAGCTGCAGCAGACATTC
 CCCAGGACCAGCTGGTAGTCATGCATCCAATCCACAAGTGGATGAGCTGGATATTCTCCCTATCCATCC
 CCCTTCTGGCAACAGTGACCTCGATCCTGATGCACAGAATCCAATGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238491 representing NM_001297742
 Red=Cloning site Green=Tags(s)

MPKDADLAFSASLFEAESLYTLISKFFSCFCVSTLAYTKGSTSSRIAKGGVDHTKMSLHGASGGHERSR
 DRRRSSDRSRDSSHERTESQLTPCIRNVTSPTRQHHVEREKDHSSSRPSSPRPQKASPNGSISSAGNSSR
 NSSQSSSDGCKTAGEMVFVYENAKEGARNIRTSERVTLIVDNTRFVVDPSIFTAQPNTMLGRMFGSGRE
 HNFTRPNEKGEYEVAEGIGSTVFRAILDYKGTGIIRCPDGISIPELREACDYLCISFEYSTIKCRDLSAL
 MHELSDNGARRQFEFYLEEMILPLMVASAQSGERECHIVVLTDDDVVDWDEEYPPQMGEYSQIIYSTKL
 YRFFKYIENRDVAKSVLKERGLKKIRLGIEGYPTYKEVKKRPGRPEVIYNYVQRPFIRMSWEKEEGKS
 RHVDFQCVKSKSITNLAAAAADIPQDQLVVMHPTPQVDELILPIHPPSGNSDLDPDAQNPML

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001297742

ORF Size: 1449 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_001297742.1](#), [NP_001284671.1](#)

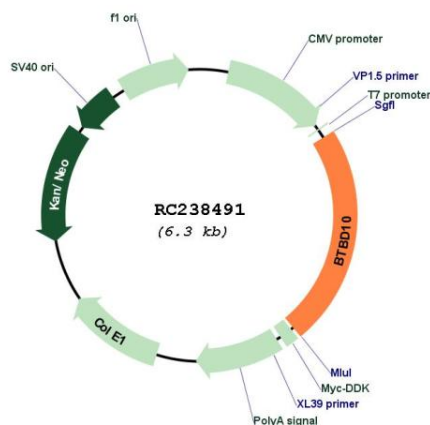
RefSeq Size: 2558 bp

RefSeq ORF: 1452 bp

Locus ID: 84280

UniProt ID:	Q9BSF8
Cytogenetics:	11p15.3
MW:	54.9 kDa
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]

Product images:



Circular map for RC238491