

Product datasheet for **RG223754**

BTBD3 (NM_181443) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	BTBD3
Synonyms:	dJ742J24.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG223754 representing NM_181443
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCTGCTGATATATCCCCGTAAAAAGCCAGCCAACTCCAGCAGCACCAGCGTCCAGCAGTACCACC
 AGCAGAATCTCAGTAACAACAACCTTATCCCGGCCCAAACTGGCAGGGTCTTTATCCCACCATTAGAGA
 GAGAAATGCGATGATGTTCAATAATGATTTGATGGCAGATGTACATTTTGTGGTGGGCCACCAGGTGGG
 ACTCAACGGTTGCCAGGACACAATATGTTTTAGCTGTTGGGAGCTCTGTGTTCCATGCGATGTTTTACG
 GAGAACTTGCAGAGGACAAAGATGAAATCCGTATACCAGATGTGCAACCTGCTGCTTTTCTCGCTATGCT
 GAAATATATCTATTGTGATGAAATTGACTTGGCTGCTGACACAGTGTGGCCACACTTTATGCTGCCAAA
 AAGTACATTGTCCCTCACCTTGCCAGAGCCTGTGTTAATTTCTGGAGACCAGCCTGAGTGCCAAGAATG
 CCTGTGTGCTCCTCTCCAGAGCTGCCTGTTGAGGAGCCAGACCTGACCCAGCGTTGCTGGGAGGTGAT
 TGATGCCCAGGCTGAGTTAGCTCTCAAGTCTGAGGGATTCTGCGATATTGACTTCAGACACTAGAAAGT
 ATTCTCCGTAGGGAACTCTGAATGCCAAAGAAATTGTGGTTTTTGGGAGCTCTCAACTGGGCTGAAG
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 CTTGATCCGCATACCCACAATGGCCCTCGATGATTTTGCAATGGTGTGCACAGTCCGGGGTATTAAGT
 CTCAATGAGACCAACGACATCTTCTCTGGTATACTGCAGCCAAAAGCCTGAGCTTCAGTTTGTGAGTA
 AAGCCCGTAAGGGCCTTGTCCCCAGCGCTGTACCGTTTCCAGTGTGCTGCTATCGAAGCAACCAATG
 GCGCTATCGTGGTGTGTCAGCATCCAGTTTGCAGTTGATAAAAGAGTGTTTATTGCTGGCTTTGGG
 CTGTATGGCTCCAGCTGTGGTCTGCAGAATACAGTGCCAAGATTGAAGTTAAGCGGCAGGGCGTTGTCC
 TGGGGCAGAACTTGAGCAAGTACTTCTCAGATGGGTCCAGCAATACCTTTCCCGTATGGTTTGAATACCC
 AGTGAGATCGAGCCAGACACCTTCTACACAGCCAGTGTGATACTGGATGGCAATGAACTCAGCTACTTT
 GGACAAGAAGGCATGACAGAAGTTCAGTGTGGCAAAGTGACTGTCCAGTTTCACTGCTCCTCAGATAGCA
 CCAATGGCACTGGGTACAGGGAGGGCAGATCCCTGAAGTTATATTCTATGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

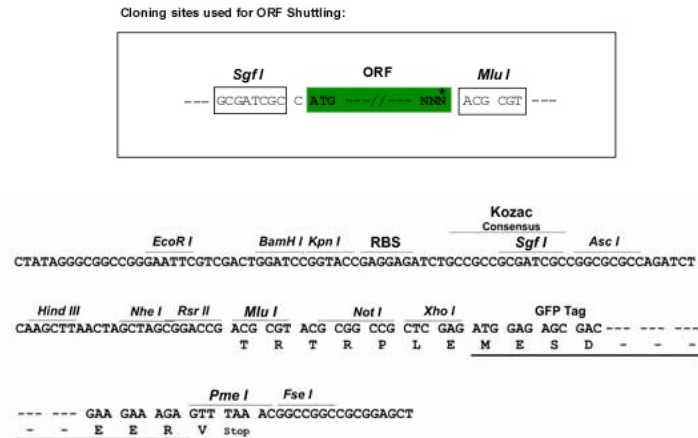
Protein Sequence: >RG223754 representing NM_181443
 Red=Cloning site Green=Tags(s)

MAADIFPRKKPANSSSTSVQQYHQNLNNLIPAPNWQGLYPTIRERNAMMFNNDLMADVHFVVGPPGG
 TQRLPGHKYVLAVGSSVFHAMFYGELAEDKDEIRIPDVEPAFLAMLKYIYCDEIDLAADTVLATLYAAK
 KYIVPHLARACVNFLETSLSAKNACVLLSQSCLFEEDLTQRCWEVIDAQELALKSEGFCIDIDFTLES
 ILRRETLNAKEIVVFEALNWAEEVCQRQDLALSIENKRKVLGKALYLIRIPTMALDDFANGAAQSGVLT
 LNETNDIFLWYTAACKPELQFVSKARKGLVPQRCHRFQSCAYRSNQWRYRGRCDISIQFAVDKRVFIAGFG
 LYGSSCGSAEYSAKIELKRQGVVLGQNLKSYFSDGSSNTFPVWFEPVQIEPDTFYTASVILDGNELSYF
 GQEGMTEVQCGKVTVPQCSSDSTNGTGVQGGQIPELIFYA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181443

ORF Size: 1383 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:

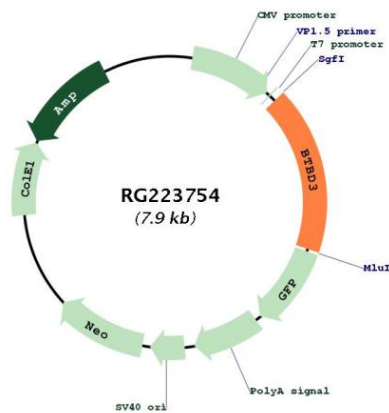
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_181443.2](#)

RefSeq Size:	4566 bp
RefSeq ORF:	1698 bp
Locus ID:	22903
Cytogenetics:	20p12.2
Gene Summary:	Acts as a key regulator of dendritic field orientation during development of sensory cortex. Also directs dendrites toward active axon terminals when ectopically expressed (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG223754