

Product datasheet for **RG214710**

BTBD3 (NM_014962) 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: >RG214710 representing NM_014962
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGTAGATGACAAGGAAAAGAACATGAAATGTCTCACCTTCTTCTTGATGCTTCCAGAGACGGTAAAGA
 ACAGGTCCAAGAAAAGCTCAAAGAAAGCAAATACCAGCAGCAGCAGTAGCAACAGCAGCAAGTTGCCACC
 AGTTTGTATGAAATAATTACCTTGAAGACTAAAAAGAAAGATGGCTGCTGATATATCCCCCGTAA
 AAGCCAGCCAATCCAGCAGCACCAGCGTCCAGCAGTACCACCAGCAGAATCTCAGTAACAACAACCTTA
 TCCCGGCCCCAACTGGCAGGGTCTTATCCCACCATTAGAGAGAGAAATGCGATGATGTTCAATAATGA
 TTTGATGGCAGATGTACATTTTGTGGTTGGGCCACCAGGTGGGACTCAACGGTTGCCAGGACACAAATAT
 GTTTTAGCTGTTGGGAGCTCTGTGTTCCATGCGATGTTTTACGGAGAACTTGACAGAGACAAAGATGAAA
 TCCGTATACCAGATGTGCAACCTGCTGCTTTTCTCGCTATGCTGAAATATATCTATTGTGATGAAATTGA
 CTTGGCTGCTGACACAGTGTGGCCACACTTTATGCTGCCAAAAAGTACATTGTCCCTCACCTTGCCAGA
 GCCTGTGTAAATTTCTGGAGACCAGCCTGAGTGCCAAGAAATGCCTGTGTGCTCCTCTCCAGAGCTGCC
 TGTTCCAGGAGCCAGACCTGACCCAGCGTGTCTGGGAGGTGATTGATGCCAGGCTGAGTTAGCTCTCAA
 GTCTGAGGGATTCTGCGATATTGACTTCCAGACACTAGAAAGTATCTCCGTAGGGAAACTCTGAATGCC
 AAAGAAATTGTGGTTTTTGAGGCAGCTCTCAACTGGGCTGAAGTAGAATGCCAACGACAAGATCTGGCGT
 TGAGCATTGAAAAATAACGCAAGTTCTAGGAAAGGCACTTTACTTGATCCGCATACCCACAATGGCCCT
 CGATGATTTTGCAATGGTGTGACAGTCCGGGTATTAAGTCTCAATGAGACCAACGACATCTTCCTC
 TGGTATACTGCAGCCAAAAGCCTGAGCTTCAGTTTGTGAGTAAAGCCCGTAAGGGCCTTGCCCCAGC
 GCTGTACCGTTTCCAGTCGTGTGCTATCGAAGCAACCAATGGCGCTATCGTGGTCGCTGTGACAGCAT
 CCAGTTTGAGTTGATAAAAGAGTGTTCATTGCTGGCTTTGGGCTGTATGGCTCCAGCTGTGGTTCTGCA
 GAATACAGTGCCAAGATTGAACTTAAGCGGCAGGGCGTTGTCTGGGGCAGAACTTGAGCAAGTACTTCT
 CAGATGGGTCCAGCAATACCTTTCCCGTATGGTTTGAATACCCAGTGCAGATCGAGCCAGACACCTTCTA
 CACAGCCAGTGTGATACTGGATGGCAATGAAGTCACTTTGGACAAGAAGGCATGACAGAAGTTCAG
 TGTGGCAAGTGACTGTCCAGTTTCACTGCTCCTCAGATAGCACAATGGCACTGGGGTACAGGGAGGGC
 AGATCCCTGAAGTTATATTCTATGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214710 representing NM_014962
 Red=Cloning site Green=Tags(s)

MVDDKEKNMKCLTFFLMLPETVKNRSKKSSKKANTSSSSSNSSKLPPVCYEIITLTKKKKKMAADIFPRK
 KPANSSTSVQYHQNLNNNLIPAPNWGLYPTIRERNAMMFNNDLMADVHFVVGPPGGTQRLPGHKY
 VLAVGSSVFHAMFYGELAEDKDEIRIPDVEPAFLAMLKYIYCDEIDLAADTVLATLYAAKKYIVPHLAR
 ACVNFLETSLSAKNACVLLSQSCLFEEDLTQRCWEVIDAQALAKSEGFCIDFQTLESILRRETLNA
 KEIVVFEAALNWAEEVCQRQDLALSIENKRKVLGKALYLIRIPTMALDDFANGAAQSGVLTNETNDIFL
 WYTAKKPELQFVSKARKGLVPQRCHRFQSCAYRSNQWRYRGRCDISIQFAVDKRVFIAGFGLYGSSCGSA
 EYSAKIELKRQGVVLGQNLKYFSDGSSNTFPVWFEYPVQIEPDTFYTASVILDGNELSYFGQEGMTEVQ
 CGKVTVQFQCSSDSTNGTGVQGGQIPELIFYA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014962

ORF Size: 1566 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 or by calling 301.340.3188 option 3 for pricing and delivery.

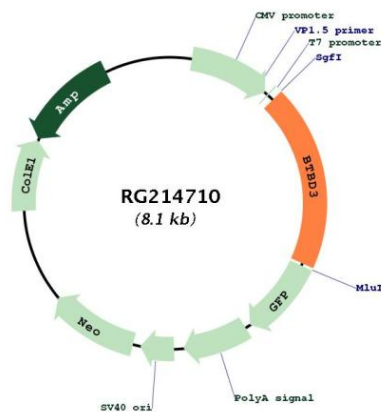
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_014962.4</u>
RefSeq Size:	4857 bp
RefSeq ORF:	1569 bp
Locus ID:	22903
UniProt ID:	<u>Q9Y2F9</u>
Cytogenetics:	20p12.2
Domains:	BTB
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 RG214710