

Product datasheet for **RC205041**

BTBD8 (NM_183242) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BTBD8 (NM_183242) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BTBD8
Synonyms:	BTB (POZ) domain containing 8; double BTB; OTTHUMP00000011945; POZ domain containing protein
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC205041 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTCGCTGTGGGAAGGCAGTGCGCCCCCATGGTACTTCTGGGGTCCGCTGGAGTTTGCAGTAAGG
 GGTTGCAAAGGAAGGGCCGTGTGAGCGCGCCGGCTGAAGGCGACGGTGTGCGAGCAGCTCAGCCAGGA
 TTTGCTCAGGCTTCTAAGGGAAGAATTCACATACAGATGTTACCTTCTCTGTGGTGTACTTTGTTCAAA
 GCACACAAAGCAGTCCTTTAGCAAGAGTTCCTGACTTCTATTTTCATACTATTGGACAGACATCAAATA
 GTTTAACAAATCAGGAGCCTATTGCTGTGGAGAATGTTGAAGCTTTAGAATTTAGAACGTTTTTACAGAT
 TATATATTCATCAAACAGAAACATAAAAACTATGAAGAGGAAATTCCTAGGAAAAGATAATGGAGATT
 GGGATATCACAAAAGCAACTTGACATCAGTTTTCCAAAGTGTGAAAACCTCATCTGATTGTTCTTTCAGA
 AGCATGAAATCCAGAGGATATCAGTGACAGAGATGATGATTTCCATTTCCATGATAATTATGACTTGG
 GCCTGCATCTGAATTAGGAGAAGATTTATTGAAGCTTTATGTGAAACCTGGTTGCCAGATATTGATATT
 TTTGTTGATGGAAAACGTTTTAAAGCTCACAGGGCCATTTTGAAGTCCAGATCTAGTTATTTTGGCTCAA
 TGCTGAGTGGCTGTTGGGCTGAAAGCTCCCAAGAGTACGTTACTCTTCAAGGTATAAGCCATGTAGAACT
 GAATGTTATGATGCATTTTATATATGGAGGAACCTGGACATTCAGACAAAACCTAATGTTGGTCAGATA
 CTCAATATGGCTGATATGTATGGACTAGAAGGATTAAGAAGTGAAGTCTATATTTTAAAGAAGAGATT
 ACTGTAATTTCTTTCAGAAGCCTGTTCCAGAACATTGACGTCTATACTAGAATGCCTGATTATTGCTCA
 TTCAGTTGGAGTGGAAAGCTTTTTGCTGACTGCATGAAGTGGATTGTAAGCATTTTGAAGGTTTTGG
 TCTGAGAGAAGCTTTGCAAAATACCTCCTGAGATTCAGAAAAGTTGTCTTAATATGTTGATTGAGTCT
 TAGTAAATATAACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205041 protein sequence
 Red=Cloning site Green=Tags(s)

MARCGEGSAAPMVLLGSAGVCSKGLQRKGPCERRRLKATVSEQLSQDLLRLLREEFHTDVTFSVGCTLFK
 AHKAVLLARVPDFYFHTIGQTSNSLTNQPIAVENVEALEFRFTLQIIYSSNRNIKNYEEEEILRKKIMEI
 GISQKQLDISFPKCENSSDCSLQKHEIPEDISDRDDDFISNDNYDLEPASELGEDLLKLYVKGCPDIDI
 FVDGKRFKAHRAILSARSSYFAAMLSGCWAESSQEYVTLQGISHVELNVMHFYGGTLDIPDKTNVQGI
 LNMADMYGLEGLKEVAIYILRRDYCNFFQKPVPRTLTSILECLIIAHSVGVESLFADCMKWIIVKHFARFW
 SERSFANIPPEIQKSLNMLIQSLVNIT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6671_a08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_183242

ORF Size: 1134 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.

RefSeq: [NM_183242.2](#)

RefSeq Size: 1465 bp

RefSeq ORF: 1137 bp

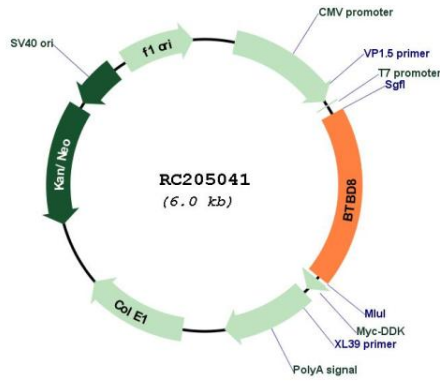
Locus ID: 284697

Cytogenetics: 1p22.1

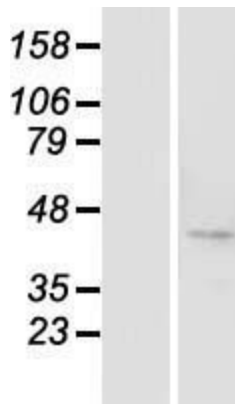
MW: 42.8 kDa

Gene Summary: Involved in clathrin-mediated endocytosis at the synapse. Plays a role in neuronal development and in synaptic vesicle recycling in mature neurons, a process required for normal synaptic transmission.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC205041



Western blot validation of overexpression lysate (Cat# [LY405237]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205041 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).