

Product datasheet for **RC204959**

BTBD14A (NACC2) (NM_144653) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BTBD14A (NACC2) (NM_144653) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BTBD14A
Synonyms:	BEND9; BTBD14; BTBD14A; BTBD31; NAC-2; RBB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC204959 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCTCAGATGTGCACATCGAGATCCCCAATTCTGGGAACACAGTGTGGGCTGCCTGAACGAGCAGC
 GCCTGCTGGGCTCTACTGCGATGTGCCATCGTGGTCAAGGGCCAGGCCTTCAAGGCCACCGGGCGGT
 GCTGGCCGCCAGCAGCCTCTACTTCCGCGACTGTTCAGCGGCAACAGCAAGAGCGCCTTCGAGCTGCC
 GGCTCCGTGCCGCCCGCTGCTTCCAGCAGATCCTGTCTTCTGTACACGGGCAGGCTCACCATGACGG
 CCAGCGAGCAGCTCGTGGTATGTACACGGCCGGCTTCTGCAGATCCAGCACATCGTGGAGCGCGGCAC
 CGACCTCATGTTCAAGGTGAGCTCGCCCCACTGCGACTCGCAGACCGCTGTGATCGAGGACGCCGGCTCC
 GAGCCCCAGAGCCCTGCAACCAGCTGCAGCCGGCCGCCGCCGCCGGCCCCCTACGTCGTGTCCCCT
 CGGTGCCATCCCGTGTGACCCGAGTAAAGCATGAAGCCATGGAGCTGCCGCCGGCCGCCAGGCT
 GGCCCCAAGCGCCCGCTGGAGACGGGGCCCCGGGACGGCGTGGCGGTGGCCGGGGGGTGCGGTGGCG
 GCGGGCACAGCCCTCTCAAACGCCCCGTGTCTCTACTACGGGGTGCCAGCCTGGCCACCCTCATCC
 CCGGCATCCAGCAGATGCCCTACCCCCAGGGGGAGCGGACCAGTCCAGGGCCAGCAGCCTGCCACCAC
 CGACAGCCCCACCTCGTACCACAACGAGGAGGACGAGGAGGACGACGAGGCCCTACGACACCATGGTGGAG
 GAGCAGTACGGCCAGATGTACATCAAGGCCCTCCGGCAGCTATGCAGTGAAGAGAAGCCTGAGCCAGTGC
 CGCTGGAGAGCCGCTCCTGCGTCTCATCCGCCGCGACCTCGTGGCCCTACCTGCCAGCCTCATCAGCCA
 GATCGGATACCGTGCATCCCAAGCTCTACTCGGAAGGGGACCCCGGGGAGAAGCTGGAGCTGGTGGCA
 GGCTCTGGGTCTACATCACACGCGGCCAGCTGATGAACCTGCCACCTGTGTGCAGGGTGAAGCATAAGG
 TCTTGTGCGGAGGCTCCTGGCCACCTTCTTTGACAGGAACACGCTGGCCAACAGCTGCGGGATGGCAT
 CCGCTCGTCCACCAGCGACCCAGCCGGAAGCCGCTGGACAGCCGGTCCCTGAACGCTGTGAAATTGTAC
 TGTCAAACTTCCGCCAGCTTCAAGGAGAGCGAGATGAACGTGATCGCCGCGGACATGTGACCAACG
 CCCGCCGCTTCCGAAGCGCTGGCTGCCAAGATCAAGTCCATGCTGCCGAGGGCGTGGAGATGTACCG
 CACGGTATGGGCTCCGCCGCCGCGCAGCGTCCCTCGACCCGAGTTCCCGCTGCCGCGGCACAGGTG
 TTCGAGCAACGCATCTACGCCGAGCGGGGGCGACGCCGCCACCATCGTGGCTCTGAGAACTGACGCCG
 TGAATGTTGACCTGAGTCCGCCGCCAACCCCGCTTTCGACGCCGCGGAGGAGGTGGACGGGGTGGCTC
 GGTCCATCCAGGAGGTGGCCGCCCGGAGCCGCTGCCGCCGATGGCCAGAGCCCCCACAGCCCTTTGAG
 CAGGGCGGGGGCGCCCCAGCAGGCCCCAGACGCCGGCGCCGCCGCCGGAGGCCGGAGGGCACCTATG
 CAGGGACCTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204959 protein sequence
 Red=Cloning site Green=Tags(s)

MSQMLHIEIPNFGNTVLGCLNEQRLGLYCDVSIYVKGQAFKAHRAVLAASSLYFRDLFSGNSKSAFELP
 GSVPPACFQQILSFCYTGRLLTMTASEQLVVMYTAGFLQIQHIVERGTDLMFKVSSPHCDSTAVIEDAGS
 EPQSPCNQLQPAAAAAAPYVSPVPIPLLTRVKHEAMELPPAGPGLAPKRPLETGPRDGVAVAAGAAVA
 AGTAPLKLPRVSYGVP SLATLIPGIQQMPYPQGERTSPGASSLPTTDSPTSYPHNEEEDDEAYDTMVE
 EQYGQMYIKASGSYAVQEKPEPVPLESRSCVLIRRDVALPASLSIQIGYRCHPKLYSEGDPGEKLELVA
 GSGVYITRGQLMNCHLCAGVKHKVLLRLLATFFDRNTLANSCGTGIRSSTSDPSRKPLDSRVLNAVKLY
 CQNFAPSFKESEMNVIAADMCTNARRVRKRWLPKIKSMLPEGVEMYRTVMGSAAASVPLDPEFPPAAQV
 FEQRIYAERRGDAATIVALRTDAVNVDLSAAANPAFDAGEEVDGAGSVIQEVAAPPEPLPADGQSPQPPE
 QGGGGSPRPQTPAAAARRPEGTYAGTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_144653

ORF Size: 1761 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_144653.5](#)

RefSeq Size: 6899 bp

RefSeq ORF: 1764 bp

Locus ID: 138151

UniProt ID: [Q96BF6](#)

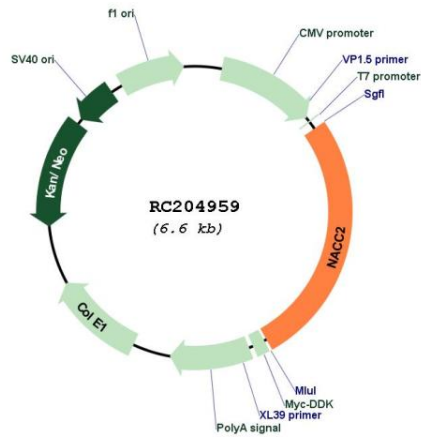
Cytogenetics: 9q34.3

Domains: BTB

MW: 62.8 kDa

Gene Summary: Functions as a transcriptional repressor through its association with the NuRD complex. Recruits the NuRD complex to the promoter of MDM2, leading to the repression of MDM2 transcription and subsequent stability of p53/TP53.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC204959