OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

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
GCCGCGATCGCC

ATGTCTCAGATGCTGCACATCGAGATCCCCAACTTCGGGAACACAGTGCTGGGCTGCCTGAACGAGCAGC
GCCTGCTGGGCCTCTACTGCGATGTGTCCATCGTGGTCAAGGGCCAGGCCTTCAAGGCCCACCGGGCGGT
GCTGGCCGCCAGCAGCCTCTACTTCCGCGACCTGTTCAGCGGCAACAGCAAGAGCGCCTTCGAGCTGCCC
GGCTCCGTGCCGCCCGCCTGCTTCCAGCAGATCCTGTCCTTCTGCTACACGGGCAGGCTCACCATGACGG
CCAGCGAGCAGCTCGTGGTCATGTACACGGCCGGCTTCCTGCAGATCCAGCACATCGTGGAGCGCGGCAC
CGACCTCATGTTCAAGGTGAGCTCGCCCCACTGCGACTCGCAGACCGCTGTGATCGAGGACGCCGGCTCC
GAGCCCCAGAGCCCCTGCAACCAGCTGCAGCCGGCCGCCGCCGCCGCGGCCCCCTACGTCGTGTCCCCCT
CGGTGCCCATCCCGCTGCTGACCCGAGTAAAGCATGAAGCCATGGAGCTGCCGCCGGCCGGCCCAGGCCT
GGCCCCCAAGCGCCCGCTGGAGACGGGGCCCCGGGACGGCGTGGCGGTGGCCGCGGGGGCTGCGGTGGCG
GCGGGCACAGCCCCTCTCAAACTGCCCCGTGTCTCCTACTACGGGGTGCCCAGCCTGGCCACCCTCATCC
CCGGCATCCAGCAGATGCCCTACCCCCAGGGGGAGCGGACCAGTCCAGGCGCCAGCAGCCTGCCCACCAC
CGACAGCCCCACCTCGTACCACAACGAGGAGGACGAGGAGGACGACGAGGCCTACGACACCATGGTGGAG
GAGCAGTACGGCCAGATGTACATCAAGGCCTCCGGCAGCTATGCAGTGCAAGAGAAGCCTGAGCCAGTGC
CGCTGGAGAGCCGCTCCTGCGTCCTCATCCGCCGCGACCTCGTGGCCCTACCTGCCAGCCTCATCAGCCA
GATCGGATACCGCTGCCATCCCAAGCTCTACTCGGAAGGGGACCCCGGGGAGAAGCTGGAGCTGGTGGCA
GGCTCTGGGGTCTACATCACACGCGGCCAGCTGATGAACTGCCACCTGTGTGCAGGGGTGAAGCATAAGG
TCTTGCTGCGGAGGCTCCTGGCCACCTTCTTTGACAGGAACACGCTGGCCAACAGCTGCGGGACTGGCAT
CCGCTCGTCCACCAGCGACCCCAGCCGGAAGCCGCTGGACAGCCGGGTCCTGAACGCTGTGAAATTGTAC
TGTCAGAACTTCGCCCCCAGCTTCAAGGAGAGCGAGATGAACGTGATCGCCGCGGACATGTGCACCAACG
CCCGCCGCGTTCGCAAGCGCTGGCTGCCCAAGATCAAGTCCATGCTGCCGGAGGGCGTGGAGATGTACCG
CACGGTCATGGGCTCCGCCGCCGCCAGCGTGCCCCTCGACCCCGAGTTCCCGCCTGCCGCGGCACAGGTG
TTCGAGCAACGCATCTACGCCGAGCGGCGGGGCGACGCCGCCACCATCGTGGCTCTGAGAACTGACGCCG
TGAATGTTGACCTGAGTGCCGCCGCCAACCCCGCCTTCGACGCCGGCGAGGAGGTGGACGGGGCTGGCTC
GGTCATCCAGGAGGTGGCCGCCCCCGAGCCGCTGCCCGCCGATGGCCAGAGCCCCCCACAGCCCTTTGAG
CAGGGCGGGGGCGGCCCCAGCAGGCCCCAGACGCCGGCGGCCGCGGCCCGGAGGCCGGAGGGCACCTATG
CAGGGACCTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

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

MSQMLHIEIPNFGNTVLGCLNEQRLLGLYCDVSIVVKGQAFKAHRAVLAASSLYFRDLFSGNSKSAFELP
GSVPPACFQQILSFCYTGRLTMTASEQLVVMYTAGFLQIQHIVERGTDLMFKVSSPHCDSQTAVIEDAGS
EPQSPCNQLQPAAAAAAPYVVSPSVPIPLLTRVKHEAMELPPAGPGLAPKRPLETGPRDGVAVAAGAAVA
AGTAPLKLPRVSYYGVPSLATLIPGIQQMPYPQGERTSPGASSLPTTDSPTSYHNEEDEEDDEAYDTMVE
EQYGQMYIKASGSYAVQEKPEPVPLESRSCVLIRRDLVALPASLISQIGYRCHPKLYSEGDPGEKLELVA
GSGVYITRGQLMNCHLCAGVKHKVLLRRLLATFFDRNTLANSCGTGIRSSTSDPSRKPLDSRVLNAVKLY
CQNFAPSFKESEMNVIAADMCTNARRVRKRWLPKIKSMLPEGVEMYRTVMGSAAASVPLDPEFPPAAAQV
FEQRIYAERRGDAATIVALRTDAVNVDLSAAANPAFDAGEEVDGAGSVIQEVAAPEPLPADGQSPPQPFE
QGGGGPSRPQTPAAAARRPEGTYAGTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

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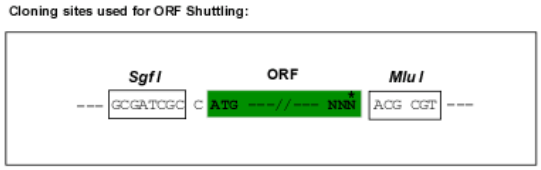
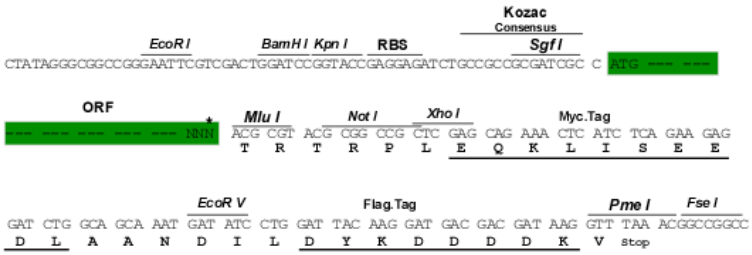
Cloning Scheme:





* The last codon before the Stop codon of the ORF

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_144653.5

RefSeq Size: 6899 bp

RefSeq ORF: 1764 bp

Locus ID: 138151

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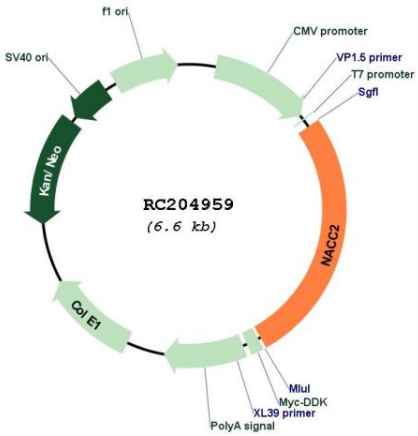
UniProt ID:	Q96BF6
Cytogenetics:	9q34.3
Domains:	BTB
MW:	62.8 kDa
Gene Summary:	Functions as a transcriptional repressor through its association with the NuRD complex. Recruits the NuRD complex to the promoter of MDM2, leading to the repression of MDM2 transcription and subsequent stability of p53/TP53.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC204959

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