

## Product datasheet for **RC208794**

### **Nac1 (NACC1) (NM\_052876) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nac1 (NACC1) (NM_052876) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nac1
Synonyms:	BEND8; BTBD14B; BTBD30; NAC-1; NAC1; NECFM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC208794 representing NM\_052876  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCCAGACTGCAGATGGAGATCCCGAATTTCGGCAACAGCATCCTGGAGTGCCTCAATGAACAGC  
 GGCTGCAGGGCCTGTACTGTGACGTGTCAAGGGCCATGCCTTCAAGGCCACCGGGCCGT  
 GCTTGCTGCCAGCAGCTCTACTTCCGGGACTGTTCAACAACAGCCGACGCGCCGTGGTGGAGCTGCCG  
 GCGGCTGTGCAGCCCCAGTCTTTCCAGCAGATCCTCAGCTTCTGTACACGGGCCGGCTGAGCATGAACG  
 TGGGCGACCAGTTCCTGCTCATGTACACGGCTGGCTTCTGCAGATCCAGGAGATCATGGAGAAGGGCAC  
 CGAGTTCTTCTCAAGGTGAGCTCCCCGAGCTGCGACTCCAGGGCTGCATGCGGAGGAGGCCCATCG  
 TCGGAGCCCCAGAGCCCCGTGGCGCAGACATCGGGCTGGCCAGCCTGTAGCACCCCGCTGCCCTCGTGT  
 CGCGGGTGAAGACGGAGCAGGAGTCCGACTCCGTGCAGTGCATGCCCGTGGCCAAGCGGCTGTGGGA  
 CAGTGGCCAGAAGGAGGCTGGGGCGGGCGCAATGGCAGCCGCAAGATGGCCAAGTTCTCCACGCCGGAC  
 CTGGCTGCCAACCAGCCCTACCAGCCCCGCCACCCCAACAGGCTCCGGTGGTGGCAGCAGCCAGCCCCG  
 CCGTGGCTGCGGGAGCAGGGCAGCCAGCCGGTGGGGTGGCAGCAGCAGGGGGTGGTGGTGGTGGCCAG  
 CACGTCGGAGCGGACCAGCCAGGCACCTCAAGCGCTACACCAGCGACAGCCCTGGCTCCTACCACAAT  
 GAGGAGGACGAGGAGGAGGATGGTGGCGAGGAGGGCATGGATGAGCAGTACCGGCAGATCTGCAACATGT  
 ACACCATGTACAGCATGATGAACGTCCGGCCAGACAGCCGAGAAGGTGGAGGCCCTCCCGGAGCAGGTAGC  
 CCCCAGTCCCGAAATCGCATCCGGGTTTCGGCAAGACCTGGCGTCTCTCCCGGCTGAAGTTATCAACCAG  
 ATTGGGAACCGCTGCCACCCCAAGCTCTACGACGAGGGCGACCCCTCTGAGAAGCTGGAGCTGGTACAG  
 GCACCAACGTGTACATCACAAAGGGCGCAGCTGATGAAGTCCACGTGAGCGCAGCCAGCCGCAAGGT  
 CCTACTGCGGGCGCTCCTGGCCTCCTTCTTTGACCGGAACAGCTGGCCAACAGCTGCGGCACCGGCATC  
 CGCTCTTCTACCAACGATCCCCGTGGAAGCCCTGGACAGCCGCGTGTCCACGCTGTCAAGTACTACT  
 GCCAGAACTTCGCCCCAACTTCAAGGAGAGCGAGATGAATGCCATCGCGGCCGACATGTGCACCAACGC  
 CCGCCGCGTGTGCGCAAGAGCTGGATGCCAAGGTCAAGGTGCTCAAGGCTGAGGATGACGCCTACACC  
 ACCTTCATCAGTGAACGGCAAGATCGAGCCGGACATGATGGGTGTGGAGCATGGCTTCGAGACCCGCA  
 GCCACGAGGGCGAGGCGGGTCCCTCGGCTGAAGCCCTGCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC208794 representing NM\_052876  
 Red=Cloning site Green=Tags(s)

MAQTLQMEIPNFGNSILECLNEQRLQGLYCDVSVVVKGHAFKAHRAVLAASSYFRDLFNNRSRAVVPEL  
 AAVQPQSFQQLSFCYTGRLSMNVGDQFLLMYTAGFLQIQEIMEKGETEFFLKVSSPSCDSQGLHAEAPS  
 SEPQSPVAQTSWGPACSTPLPLVSRVKTEQQESDSVQCMPIVAKRLWDSGQKEAGGGGNGSRKMAKFSTPD  
 LAANRPHQPPPPQAPVVAQAQPAVAAGAGQPAGGVAAAGGVVSGPSTERTSPGTSSAYTSDSPGSYHN  
 EEEEEEDGEEGMDEQYRQICNMYTMYSMNVGQTAEKVEALPEQVAPESRNRIRVRQDLASLPAELINQ  
 IGNRCHPKLYDEGDPSEKLELVGTNVYITRAQLMNCHVSAGTRHKVLLRLLASFFDRNTLANSCGTGI  
 RSSTNDPRRKPLDSRVLHAVKYCQNFAPNFKESEMNAIAADMCTNARRVVRKSWMPKVKVLKAEDDAYT  
 TFISETGKIEPDMMGVEHGFETASHEGEAGPSAEALQ

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8113\\_h05.zip](https://cdn.origene.com/chromatograms/mk8113_h05.zip)

**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



ACCN: NM\_052876

ORF Size: 1581 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\\_052876.4](#)

RefSeq Size: 4518 bp

RefSeq ORF: 1584 bp

Locus ID: 112939

UniProt ID: [Q96RE7](#)

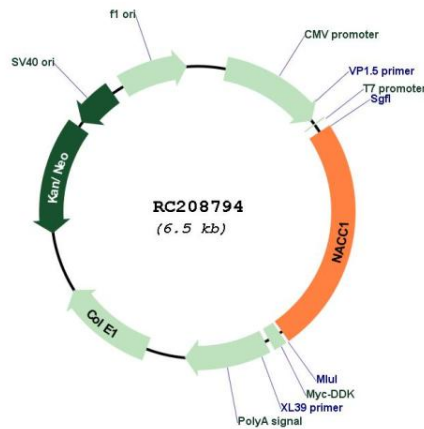
Cytogenetics: 19p13.13

**Protein Families:** ES Cell Differentiation/IPS, Stem cell - Pluripotency

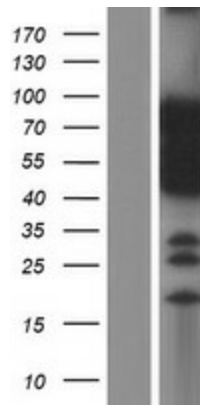
**MW:** 57.3 kDa

**Gene Summary:** This gene encodes a member of the BTB/POZ protein family. BTB/POZ proteins are involved in several cellular processes including proliferation, apoptosis and transcription regulation. The encoded protein is a transcriptional repressor that plays a role in stem cell self-renewal and pluripotency maintenance. The encoded protein also suppresses transcription of the candidate tumor suppressor Gadd45GIP1, and expression of this gene may play a role in the progression of multiple types of cancer. A pseudogene of this gene is located on the short arm of chromosome 9. [provided by RefSeq, Feb 2012]

**Product images:**



Circular map for RC208794



Western blot validation of overexpression lysate (Cat# [LY409419]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208794 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).