

## Product datasheet for **RG208794**

### **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:	TurboGFP
Symbol:	Nac1
Synonyms:	BEND8; BTBD14B; BTBD30; NAC-1; NAC1; NECFM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG208794 representing NM\_052876  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCCCAGACTGCAGATGGAGATCCCGAATTTCGGCAACAGCATCCTGGAGTGCCTCAATGAACAGC  
 GGCTGCAGGGCCTGTACTGTGACGTGTACAGTGGTGGTCAAGGGCCATGCCTTCAAGGCCACCGGGCCGT  
 GCTTGCTGCCAGCAGCTCCTACTTCCGGGACTGTTCAACAACAGCCGACGCGCCGTGGTGGAGCTGCCG  
 GCGGCTGTGCAGCCCCAGTCTTTCCAGCAGATCCTCAGCTTCTGTACACGGGCCGGCTGAGCATGAACG  
 TGGGCGACCAGTTCCTGCTCATGTACACGGCTGGCTTCTGCAGATCCAGGAGATCATGGAGAAGGGCAC  
 CGAGTTCTTCTCAAGGTGAGCTCCCCGAGCTGCGACTCCAGGGCTGCATGCGGAGGAGGCCCATCG  
 TCGGAGCCCCAGAGCCCCGTGGCGCAGACATCGGGCTGGCCAGCCTGTAGCACCCCGCTGCCCTCGTGT  
 CGCGGGTGAAGACGGAGCAGCAGGAGTCCGACTCCGTGCAGTGCATGCCCGTGGCCAAGCGGCTGTGGGA  
 CAGTGGCCAGAAGGAGGCTGGGGCGGGCGCAATGGCAGCCGCAAGATGGCCAAGTTCTCCACGCCGGAC  
 CTGGCTGCCAACCGGCCCTACCAGCCCCGCCACCCCAACAGGCTCCGGTGGTGGCAGCAGCCAGCCCCG  
 CCGTGGCTGCGGGAGCAGGGCAGCCAGCCGGTGGGGTGGCAGCAGCAGGGGGTGGTGGTGGTGGCCAG  
 CACGTCGGAGCGGACCAGCCAGGCACCTCAAGCGCCTACACCAGCGACAGCCCTGGCTCCTACCACAAT  
 GAGGAGGACGAGGAGGAGGATGGTGGCGAGGAGGGCATGGATGAGCAGTACCGGCAGATCTGCAACATGT  
 ACACCATGTACAGCATGATGAACGTCCGGCCAGACAGCCGAGAAGGTGGAGGCCCTCCCGGAGCAGGTAGC  
 CCCCAGTCCCGAAATCGCATCCGGGTTTCGGCAAGACCTGGCGTCTCTCCCGGCTGAACCTATCAACCAG  
 ATTGGGAACCGCTGCCACCCCAAGCTCTACGACGAGGGCGACCCCTCTGAGAAGCTGGAGCTGGTACAG  
 GCACCAACGTGTACATCACAAGGGCGCAGCTGATGAACGCCACGTGAGCGCAGGCACGGCCACAAGGT  
 CCTACTGCGGGCGCTCCTGGCCTCCTTCTTTGACCGGAACAGCTGGCCAACAGCTGCGGCACCGGCATC  
 CGCTCTTCTACCAACGATCCCCGTGGAAGCCCTGGACAGCCGCGTGTCCACGCTGTCAAGTACTACT  
 GCCAGAACTTCGCCCCCAACTTCAAGGAGAGCGAGATGAATGCCATCGCGGCCGACATGTGCACCAACGC  
 CCGCCGCGTCTGTGCGCAAGAGCTGGATGCCAAGGTCAAGGTGCTCAAGGCTGAGGATGACGCCTACACC  
 ACCTTCATCAGTGAACGGCAAGATCGAGCCGGACATGATGGGTGTGGAGCATGGCTTCGAGACCCGCA  
 GCCACGAGGGCGAGGGCGGTCCCTCGGCTGAAGCCCTGCAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG208794 representing NM\_052876  
 Red=Cloning site Green=Tags(s)

MAQTLQMEIPNFGNSILECLNEQRLQGLYCDVSVVVKGHAFKAHRAVLAASSSYFRDLFNNSRSAVVELP  
 AAVQPQSFQQILSFCYTGRLSMNVGDQFLLMYTAGFLQIQEIMEKGETEFFLKVSSPSCDSQGLHAEAPS  
 SEPQSPVAQTSWPACSTPLPLVSRVKTEQQESDSVQCMPIVAKRLWDSGQKEAGGGNGSRKMAKFSTPD  
 LAANRPHQPPPPQAPVVAQAQPAVAAGAGQPAGVAAAGGVVSGPSTERTSPGTSSAYTSDSPGSYHN  
 EDEEEDGGEEGMDEYRQICNMYTMYSMNVGQTAEKVEALPEQVAPESRNRIRVRQDLASLPAELINQ  
 IGNRCHPKLYDEGDPSEKLELVGTNVYITRAQLMNCHVSAGTRHKVLLRLLASFFDRNTLANSCTGTI  
 RSSTNDPRRKPLDSRVLHAVKYQCQNFAPNFKESEMNAIAADMCTNARRVVRKSWMPKVKVLKAEDDAYT  
 TFISETGKIEPDMMGVEHGFETASHEGEAGPSAEALQ

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-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

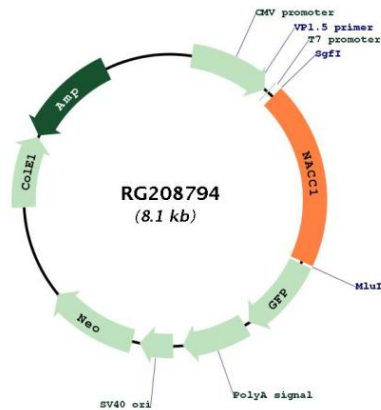
UniProt ID: [Q96RE7](#)

Cytogenetics: 19p13.13

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

**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 RG208794