

## Product datasheet for **MG216878**

### **Nucb1 (NM\_008749) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nucb1 (NM_008749) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nucb1
Synonyms:	B230337F23Rik; C77483; Calnuc; MTEST82; Nucb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG216878 representing NM\_008749  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCTACCTCGGTGCCCGCGGGGCCCTTTTCTTCTCCTACCACCTCTACTGATGCTGTCTGCTGTGC  
 TGGCAGTGCCCGTGGACCGCGCAGCACCTCCTCAGGAGGACAGCCAGGCCACTGAGACCCGGACACGGG  
 CCTGTACTACCACCGGTACCTCCAGGAGGTCATCAACGTGCTAGAGACAGATGGGCACTTCCGGGAGAAG  
 CTGCAGGCTGCCAACGCTGAGGACATTAAGAGTGGAAAGCTGAGCCAAGAGCTGGACTTCGTGAGCCACA  
 ACGTCCGAACCAAGCTGGATGAGCTCAAGCGACAGGAGGTGTCGAGGCTGCGGATGCTGCTCAAGGCCAA  
 GATGGATGCAAAGCAGGAGCCCACTTGCAGGTGGACCACATGAACCTCCTGAAGCAGTTTGAGCACCTG  
 GACCTCAGAACCAGCACACGTTTGGAGCTCGGGACCTAGAGCTGCTGATCCAGACGGCCACCCGAGACC  
 TCGCCCAGTATGACGCTGCACACCATGAAGAGTCAAACGCTACGAGATGCTCAAGGAACATGAGAGGAG  
 ACGATACTGGAGTCTCTGGGAGAGGAGCAGCGGAAGGAGGCCGAGAGGAAGCTCCAAGGACAAACAGCGC  
 AGACACCGGGAACACCCCAAAGTCAATGTTCTTCCGAGCCAAGCCAGTTGAAGGAGGTGTGGGAGGAGT  
 TGGATGGATTGGACCCCAACAGTTCAACCCCAAGACCTTCTTACTACTGCATGACATCAACAGTATGG  
 TGTCTAGATGAGCAAGAACTGGAAGCTCTTTACCAAGGAGCTGGAGAAGGTGTATGACCCGAAGAAT  
 GAGGAGGATGACATGAGAGAGATGGAGGAAGAACGGCTTCGCATGCGGGAGCACGTGATGAAGAATGTGG  
 ACACCAACCAGGACCGGCTTGTGACCCTGGAGGAGTTCCTGGCATCCACCCAGAGGAAGGAGTTCGGGGA  
 CACTGGGAGGGGTGGAAGACAGTGGAAATGTCCCAGCCTACACAGAGGAGGAGCTGAAGCGTTTTGAA  
 GAGGAGCTGGCTGCCCGGAAGCTGAGCTGAATGCCAGGGCCAGCGCCTCAGCCAGGAGACAGAGGCC  
 TGGGGCGCTCCCAGGACCGCTGGAGGCACAGAAGAGAGAGTGCAGCAGATGGAGCAGAGGAAGCAGCA  
 ACTGCAAGAACAGAGCGCTCCGCCTTCCAAACCTGACGGGACAGCTGCAGTTCCGTGCAGACACAGATGAC  
 GCTCCTGTCCCAGCTCCAGCAGGTGACCAGAAAGATGTGCTGCTTCTGAGAAGAAGTCCCAGAGCAGC  
 CCCCTGAGCTGCCACAGCTGGATTCCCAGCATTTA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG216878 representing NM\_008749  
 Red=Cloning site Green=Tags(s)

MPTSVPRGAPFLLLPLLLMLSAVLAVPVDRAAPPQEDSQATETPDTGLYYHRYLQEVINVLETDGHFREQ  
 LQAANAEDIKSGKLSQELDFVSHNVRTKLDLKRQEVSRRLRMLLKAKMDAQEPNLQVDHMNLLKQFEHL  
 DPQNQHTFEARDLELLIQTATRDLAQYDAAHHEEFKRYEMLKEHERRRYLESLEEEQRKEAERKLQEQR  
 RHREHPKVNVPQSQAQLKEVWEELDGLDPNRFNPKTFFILHDINSDGVLDEQELEALFTKELEKVDPKN  
 EEDDMREMEERLRMREHVMKNVDNQRDLVTLLEEFLLASTQRKEFGDTGEGWKTVMESPAYTEEELKRF  
 EELAAREAEELNARAQRLSQETEALGRSQDRLEAQKRELQMEQRKQQLQEQSAPPSPKPDGQLQFRADTDD  
 APVPAPAGDQKDVPASEKKVPEQPPELPQLDSQHL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_008749

**ORF Size:** 1365 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\\_008749.2](#), [NP\\_032775.1](#)

**RefSeq Size:** 2627 bp

**RefSeq ORF:** 1368 bp

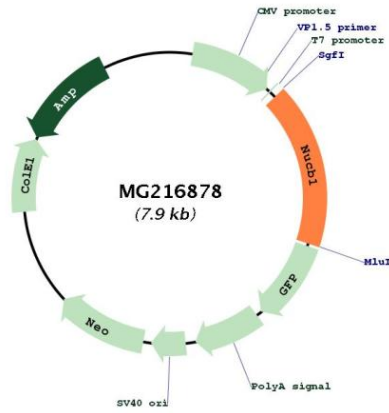
**Locus ID:** 18220

**UniProt ID:** [Q02819](#)

**Cytogenetics:** 7 B3

**Gene Summary:** Major calcium-binding protein of the Golgi. May have a role in calcium homeostasis (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG216878