

## Product datasheet for **MR216878**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nucb1 (NM_008749) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nucb1
Synonyms:	B230337F23Rik; C77483; Calnuc; MTEST82; Nucb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR216878 representing NM\_008749  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCTACCTCGGTGCCCGCGGGGCCCTTTTCTTCTCCTACCACCTCTACTGATGCTGTCTGCTGTGC  
 TGGCAGTGCCCGTGGACCGCGCAGCACCTCCTCAGGAGGACAGCCAGGCCACTGAGACCCGGACACGGG  
 CCTGTACTACCACCGGTACCTCCAGGAGGTCATCAACGTGCTAGAGACAGATGGGCACTTCCGGGAGAAG  
 CTGCAGGCTGCCAACGCTGAGGACATTAAGAGTGGAAAGCTGAGCCAAGAGCTGGACTTCGTGAGCCACA  
 ACGTCCGAACCAAGCTGGATGAGCTCAAGCGACAGGAGGTGTCGAGGCTGCGGATGCTGCTCAAGGCCAA  
 GATGGATGCAAAGCAGGAGCCCACTTGCAGGTGGACCACATGAACCTCCTGAAGCAGTTTGAGCACCTG  
 GACCTCAGAACCAGCACAGTTTGGGCTCGGGACCTAGAGCTGCTGATCCAGACGGCCACCCGAGACC  
 TCGCCCAGTATGACGCTGCACACCATGAAGAGTCAAACGCTACGAGATGCTCAAGGAACATGAGAGGAG  
 ACGATACTGGAGTCTCTGGGAGAGGAGCAGCGGAAGGAGCCGAGAGGAAGCTCCAAGGACAAACAGCGC  
 AGACACCGGGAACACCCAAAGTCAATGTTCTTGGCAGCCAAGCCAGTTGAAGGAGGTGTGGGAGGAGT  
 TGGATGGATTGGACCCCAACAGTTCAACCCCAAGACCTTCTTACTGATGACATCAACAGTATGG  
 TGTCTAGATGAGCAAGAACTGGAAGCTCTTTACCAAGGAGCTGGAGAAGGTGTATGACCCGAAGAAT  
 GAGGAGGATGACATGAGAGAGATGGAGGAAGAACGGCTTCGCATGCGGGAGCACGTGATGAAGAATGTGG  
 ACACCAACCAGGACCGGCTTGTGACCCTGGAGGAGTTCCTGGCATCCACCCAGAGGAAGGAGTTCGGGGA  
 CACTGGGAGGGGTGGAAGACAGTGGAAATGTCCCAGCCTACACAGAGGAGGAGCTGAAGCGTTTTGAA  
 GAGGAGCTGGCTGCCCGGAAGCTGAGCTGAATGCCAGGGCCAGCGCCTCAGCCAGGAGACAGAGGCC  
 TGGGCGCTCCCAGGACCGCTGGAGGCACAGAAGAGAGAGTGCAGCAGATGGAGCAGAGGAAGCAGCA  
 ACTGCAAGAACAGAGCGCTCCGCCTTCCAAACCTGACGGGCAGCTGCAGTTCCGTGCAGACACAGATGAC  
 GCTCTGTCCCAGCTCCAGCAGGTGACCAGAAAGATGTGCTGCTTCTGAGAAGAAGTCCAGAGCAGC  
 CCCCTGAGCTGCCACAGCTGGATTCCAGCATTTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR216878 representing NM\_008749  
 Red=Cloning site Green=Tags(s)

MPTSVPRGAPFLLLPLLLMLSAVLAVPVDRAAPPQEDSQATETPDTGLYYHRYLQEVINVLETDGHFREK  
 LQAANAEDIKSGKLSQELDFVSHNVRTKLDLKRQEVSRRLRMLLKAKMDAQEPNLQVDHMNLLKQFEHL  
 DPQNQHTFEARDLELLIQTATRDLAQYDAAHHEEFKRYEMLKEHERRRYLESLGEEQRKEAERKLEQQR  
 RHREHPKVNVPGSQAQLKEVWEELDGLDPNRFNPKTFFILHDINSDGVLDEQEALFTKELEKVVDPKN  
 EEDDMREMEERLRMREHVMKNVDNQRDLVTLEEFLLASTQRKEFGDTGEGWKTVMSPAYTEELKRFE  
 EELAAREAELNARAQRLSQETEALGRSQDRLEAQKRELQMEQRKQQLQEQSAPPSKPDGQLQFRADTDD  
 APVPAPAGDQKDVPASEKKVPEQPPELPQLDSQHL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

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

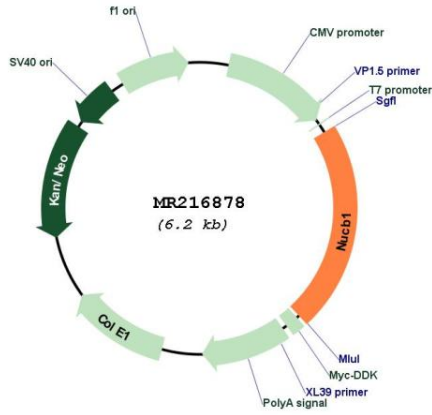
RefSeq ORF: 1368 bp

Locus ID: 18220

UniProt ID: [Q02819](#)

**Cytogenetics:** 7 B3  
**MW:** 53.4 kDa  
**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 MR216878