

## Product datasheet for **RR201710**

### **Nucb1 (NM\_053463) Rat Tagged ORF Clone**

#### **Product data:**

|                    |  |
|--------------------|--|
| Product Type:      | Expression Plasmids                    |
| Product Name:      | Nucb1 (NM_053463) Rat Tagged ORF Clone |
| Tag:               | Myc-DDK                                |
| Symbol:            | Nucb1                                  |
| Synonyms:          | Nucb                                   |
| Vector:            | pCMV6-Entry (PS100001)                 |
| E. coli Selection: | Kanamycin (25 ug/mL)                   |
| Cell Selection:    | Neomycin                               |



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**ORF Nucleotide Sequence:**

>RR201710 representing NM\_053463  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGCCTACCTCTGTGCCCGGGGCGCCTTTCCTCTCCTACCACCTTTACTGATGCTGTCTGCTGTGC  
 TGGCAGTGCCCTGTGGACCGCGCAGCACCTCATCAGGAGGACAACCAGGCCACTGAGACCCCGGACACAGG  
 CCTGTACTACCATCGGTACCTCCAGGAGGTCATCAACGTGCTAGAGACAGATGGGCACTTCCGGGAGAAG  
 CTGCAAGCTGCCAACGCTGAGGACATTAAGAGTGGAAAGCTGAGTCAAGAGCTGGACTTCGTGAGCCACA  
 ACGTCCGACCAAGCTGGATGAGCTCAAGCGACAGGAGGTATCAAGGCTTCGGATGCTGCTCAAGGCCAA  
 GATGGATGCAAAGCAGGAGCCTAATTGCAGGTGGACCACATGAACCTTCTGAAGCAGTTTGAACACCTG  
 GACCTCAGAACCAGCACACGTTTGAAGCTCGGGACCTAGAGCTGCTGATCCAGACGGCCACCCGAGACC  
 TCGCCCAGTATGACGCTGCACACCATGAAGAGTTCAAACGCTACGAGATGCTCAAGGAACATGAGCGAAG  
 ACGTTACCTGGAGTCTCTGGGAGAGGAGCAGCGGAAGGAGGCTGAGAGGAAGCTACAAGAGCAGCAGCGC  
 AGACACCGGGAACACCCAAAGTCAATGTTCTCGCAGCCAAGCCAGTTGAAGGAGGTGTGGGAGGAGC  
 TAGATGGATTGGACCCCAACAGTTCAACCCCAAGACCTTCTTACTGATGACATCAACAGCGATGG  
 TGTCTAGATGAGCAAGAACTGGAAGCTGTGTTACCAAGGAGCTGGAGAAGGTGTACGACCCGAAGAAC  
 GAGGAGGACGACATGAGGGAGATGGAGGAGGAGCGGCTGCGCATGCGGGAGCATGTGATGAAGAAGCTGG  
 ACACCAACCAGGACCGACTTGTGACCCTGGAGGAATTCCTGGCATCCACACAGAGGAAGGAGTTTGGGGA  
 AACTGCGGAGGGATGGAAGACAGTGGAAATGTATCCAGCTACACAGAGGAAGAGCTGAAGCGTTTTGAA  
 GAGGAGCTTGTGCCCGGGAGGCTGAGCTAAATGCCAGAGCCAGCGCCTCAGCCAGGAGACAGAGGCC  
 TGGGGCGCTCCCAGGACCGCCTAGAGGCTCAGAAGAGAGAGCTGCAGCAGGCCGTTCTGCAGATGGAGCA  
 AAGGAAGCAGCAACAGCAAGAGCAGAGCGCTCCGCCTTCCAACCTGATGGGCAGCTGCAGTTCCGTGCA  
 GACACAGGGGATGCTCCTGTCCAGCTCCAGCAGGTGACCAGAAAGACGTGCCTGCTTCTGAAAAGAAGG  
 TTCAGAGCAGCCCTGTGCTGCCACAGCTGGATTCTCAGCATTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR201710 representing NM\_053463  
 Red=Cloning site Green=Tags(s)

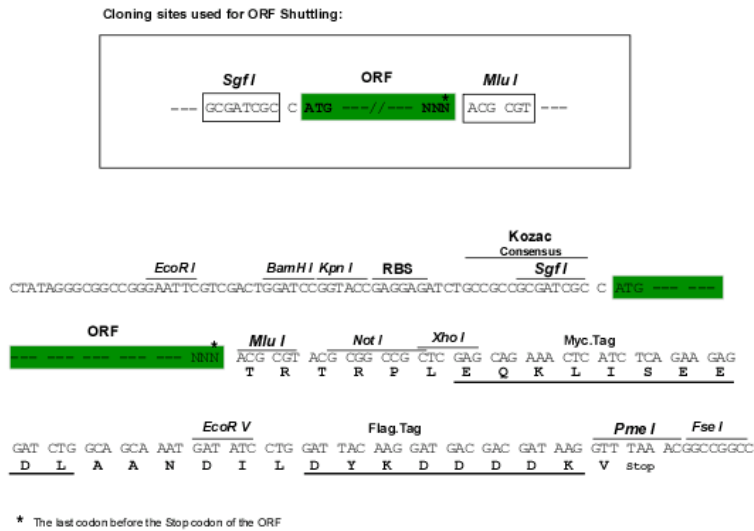
MPTSVPRGAPFLLLPLLLMLSAVLAVPVDRAAPHQEDNQATETPDTGLYYHRYLQEVINVLETDGHFREK  
 LQAANAEDIKSGKLSQELDFVSHNVRTKLDLKRQEVSRRLMLLKAKMDAKQEPNLQVDHMLLKQFEHL  
 DPQNQHTFEARDLELLIQATRDLAQYDAAHHEEFKRYEMLKEHERRRYLES LGEEQRKEAERKLQEQQR  
 RHREHPKVNVPQSQAQLKEVWEELDGLDPNRFNPKTFFILHDINSDGVLDEQELEALFTKELEKVVDPKN  
 EEDDMREMEERLRMREHVMKNVDNQRDLVTLEEF LASTQRKEFGETAEGWKT VEMYPAYTEEELKRFE  
 EELAAREAE LNARAQRLSQETEALGRSQDRLEAQKRELQAVLQMEQRKQQQEQSAPPSQPDGQLQFRA  
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

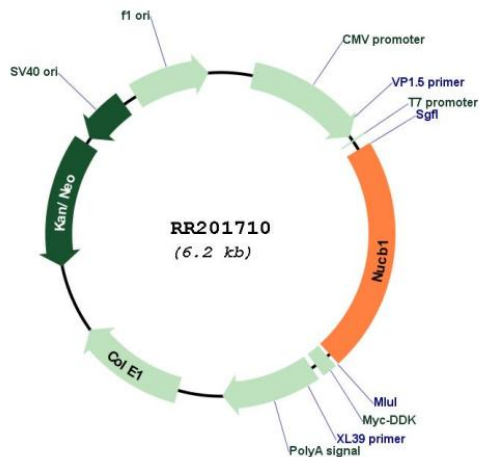
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_053463

ORF Size: 1377 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\\_053463.1](#), [NP\\_445915.1](#)

**RefSeq Size:** 2303 bp

**RefSeq ORF:** 1380 bp

**Locus ID:** 84595

**UniProt ID:** [Q63083](#)

**Cytogenetics:** 1q22

**MW:** 53.5 kDa

**Gene Summary:** extracellular calcium binding protein of the mineralized matrix of bone [RGD, Feb 2006]