

## Product datasheet for **RG201786**

### Nucleobindin 1 (NUCB1) (NM\_006184) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                                       |
| Product Name:             | Nucleobindin 1 (NUCB1) (NM_006184) Human Tagged ORF Clone |
| Tag:                      | TurboGFP  |
| Symbol:                   | Nucleobindin 1  |
| Synonyms:                 | CALNUC; NUC   |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                   |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                    |



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**ORF Nucleotide Sequence:**

>RG201786 representing NM\_006184  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCCTCCCTCTGGGCCCGAGGAACCCTCCTTCTGTTGCCGCTGCTGCTGCTCCTGCTTCGCGCCG  
 TGCTGGCTGTCCCCTGGAGCGAGGGGCCCAACAAGGAGGAGACCCCTGCGACTGAGAGTCCCGACAC  
 AGGCCTGTACTACCACCGGTACCTCCAGGAGGTATCGATGTAAGTGGAGACGGATGGGCATTTCCGAGAG  
 AAGCTGCAGGCTGCCAATGCGGAGGACATCAAGAGCGGGAAGCTGAGCCGAGAGCTGGACTTTGTAGCC  
 ACCACGTCGACCAAGCTGGATGAGCTCAAGCGACAGGAGGTGTACGGCTGCGGATGCTGCTCAAGGC  
 CAAGATGGACGCCGAGCAGGATCCCAATGTACAGGTGGATCATCTGAATCTCTGAAACAGTTTGAACAC  
 CTGGACCCTCAGAACCAGCATACATTGAGGCCCGCGACCTGGAGCTGCTGATCCAGACGCCACCCGGG  
 ACCTTGCCAGTACGACGCAGCCATCATGAAGAGTTCAAGCGCTACGAGATGCTTAAGGAACACGAGAG  
 ACGGCGTTATCTGGAGTCACTGGGAGAGGAGCAGAGAAAGGAGGGGAGGGAAGCTGGAAGAGCAACAG  
 CGCCGGCACCGCAGCACCCCTAAAGTCAACGTGCCTGGCAGCCAAGCCAGTTGAAGGAGGTGTGGGAGG  
 AGCTGGATGGACTGGACCCAACAGTTTAAACCCAAGACCTTCTTCACTGATGATATCAACAGTGA  
 TGGTGTCTGGATGAGCAGGAGCTGGAGGCACTTTCACCAAGGAGCTGGAGAAAGTGTACGACCCAAG  
 AATGAGGAGGACGACATGCGGGAGATGGAGGAGGAGCGACTGCGCATGCGGGAGCATGTGATGAAGAATG  
 TGGACACCAACCAGGACCGCCTCGTGACCCTGGAGGAGTTCTCGCATCCACTCAGAGGAAGGAGTTTGG  
 GGACACCGGGGAGGGCTGGGAGACAGTGGAGATGCACCCTGCCTACACCGAGGAAGAGCTGAGGCGCTT  
 GAAGAGGAGCTGGCTGCCCGGGAGGCAGAGCTGAATGCCAAGGCCAGCGCCTCAGCCAGGAGACAGAGG  
 CTCTAGGGCGGTCCCAGGGCCGCTGGAGGCCCAAGAAGAGAGAGCTGCAGCAGGCTGTGCTGCACATGGA  
 GCAGCGGAAGCAGCAGCAGCAGCAGCAAGGCCACAAGGCCCGGCTGCCACCCTGAGGGGCAGCTC  
 AAGTTCCACCCAGACACAGCAGTGTACCTGTCCAGCTCCAGCCGGTGACCAGAAGGAGGTGGACACT  
 CAGAAAAGAACTTCTCGAGCGCTCCCTGAGGTTGAGGTGCCCCAGCATCTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG201786 representing NM\_006184  
 Red=Cloning site Green=Tags(s)

MPPSGPRGTL L L L L L L L L L L RAVLAVPLER GAPNKEETPATESPDTGLYYHRYLQEVIDVLETDGHFRE  
 KLQAANAEDIKSGKLSRELDVSHHVRKLDLKRQEVSRRLMLLKAKMDAEQDPNVQVDHLNLLKQFEH  
 LDPQNQHTFEARDLELLIQTATRDLAQYDAAHHEEFKRYEMLKEHERRRYLES LGEEQRKEAERKLEEQ  
 RRHREHPKVNVPQSQAQLKEVWEELDGLDPNRFNPKTFILHDINSDGVLDEQELEALFTKELEKVVDPK  
 NEEEDMREMEERLRMREHVMKNVDNQRDLVTL EEFLASTQRKEFGDTGEGWETVEMHPAYTEELRRF  
 EEELAAREAEELNAKAQRLSQETEALGRSQGRLEAQKRELQQAVLHMEQRKQQQQQGHKAPAAHPEGQL  
 KFHPD TDDVPVPAPAGDQKEVD TSEKLLERLPEVEVPQHL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_006184

**ORF Size:** 1383 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\\_006184.6](#)

**RefSeq Size:** 2302 bp

**RefSeq ORF:** 1386 bp

**Locus ID:** 4924

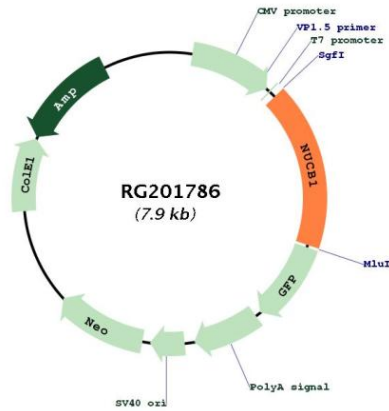
**UniProt ID:** [Q02818](#)

**Cytogenetics:** 19q13.33

Domains: EFh

Gene Summary: This gene encodes a member of a small calcium-binding EF-hand protein family. The encoded protein is thought to have a key role in Golgi calcium homeostasis and Ca(2+)-regulated signal transduction events. [provided by RefSeq, Jun 2010]

Product images:



Circular map for RG201786