

## Product datasheet for **MR206673**

### Nucb2 (NM\_001130479) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nucb2 (NM\_001130479) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Nucb2  
**Synonyms:** A1607786; Calnuc; Nefa; Nesfatin-1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR206673 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAGGTGGAGGATCATCCAAGTACAGTACTGTTTTCTCTTGGTCCGTGCATGCTGACCGCTCTGGAAG  
CTGTTCTATCGATGTGGACAAGACCAAAGTACACAACACTGAGCCAGTGGAAAATGCAAGGATAGAGCC  
ACCAGATACTGGACTTTATTATGATGAATACCTCAAGCAAGTATTGAAGTCTTGGAAACAGATCCACAT  
TTCAGAGAAAAGCTCCAGAAAAGCAGACATAGAGGAGATAAGGAGCGGGAGGCTGAGTCAAGAGCTGGACT  
TAGTAAGTCACAAAGTGAGGACGAGACTGGATGAGCTGAAGAGGCAAGAAGTAGGAAGACTGCGGATGCT  
CATCAAAGCTAAGCTGGATGCCCTCAAGACACTGGCATGAATCACCACCTTCTTCTGAAGCAGTTTGAA  
CACCTGAACCACCAGAATCCTAACACATTTGAATCCAGAGATTTGGATATGCTAATCAAAGCAGCTACCG  
CGGATCTGGAGCAATATGACCGGACTCGGCATGAAGAGTTAAGAAGTACGAGATGATGAAGGAACACGA  
GCGGAGAGAGTATTTAAAACGCTGAGTGAGGAGAAGAGGAAAGAAGAAGAGTCTAAGTTTGAAGAGATG  
AAGAGGAAGCAGCAAGACCACCCCAAAGTTAATCATCCCGAAGCAAAGTCAACTAAAAGAGGTTTGGG  
AAGAGACTGATGGATTGGACCCTAATGACTTTGACCCCAAGACATTTTCAAATTACATGATGTTAACAA  
CGATGGATTCCTGGATGAACAAGAATTAGAAGCACTATTCACAAGAGAGTTGGAGAAAAGTGATAACCCA  
CAAAATGCAGAGGACGATATGATAGAAAATGGAAGAGGAGAGGCTCAGGATGAGAGAACACGTCATGAGTG  
AGATTGATAACAACAAGACCGATTGGTGACTCTGGAGGAATTCCTGAGAGCTACAGAGAAGAAGAATT  
CCTGGAGCCTGATAGCTGGGAGACACTGGACCAGCAACAGTTATTACCAGGACGAGCTTAAAGAGTAT  
GAAAGCATTATTGCTATCCAAGAGAACGAGCTTAAAGAAGGGCGGAAGAGCTGCAGAAAACAAGGAGG  
ATCTGCAGCGGCAGCAGCACCTCGAGGCGCAGAAGCAGGAGTATCATCAGGCCGTCCAGCACCTGGA  
ACAGAAGAACTTCAACAAGGCATTGCTCCATCAGGGCCAGCGGGAGAGCTGAAGTTTGAGCCACACACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206673 protein sequence  
 Red=Cloning site Green=Tags(s)

MRWRRIQVQYCFLLVPCMLTALEAVPIDVDKTKVHNTEPVENARIEPPDTGLYYDEYLKQVIEVLETPH  
 FREKLQKADIEEIRSGRLSQELDLVSHKVRTRLDELKRQEVGRLRMLIKAKLDALQDTGMNHLLKQFE  
 HLNHQNPNTFESRDLDMLIKAATADLEQYDRTRHEEFKKYEMMKEHERREYLKTLSEEKRKEESKFEEM  
 KRKHEDHPKVNHPGSKDQLKEVWEETDGLDPNDFPKTFFKLHDVNNDFLDEQLEALFTRELEKVNYP  
 QNAEDDMIEMEEERLRMREHVMSEIDNNKDRLVTL EEFLRATEKKEFLPDSWETLDQQQLFTEDELKY  
 ESIIAIQENELKKRAEELQKQKEDLQRQHDHLEAQKQEQYHQAVQHLEQKKLQQGIAPSGPAGELKFEPH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001130479

**ORF Size:** 1263 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_001130479.2](#)

**RefSeq Size:** 1703 bp

**RefSeq ORF:** 1263 bp

**Locus ID:** 53322

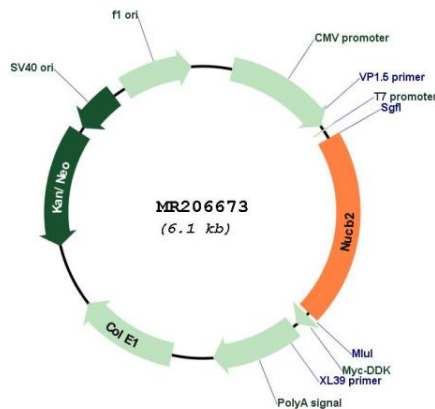
**UniProt ID:** [P81117](#)

**Cytogenetics:** 7 F1

**MW:** 50.3 kDa

**Gene Summary:** Calcium-binding protein. May have a role in calcium homeostasis.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR206673