

## Product datasheet for **RR203043**

### Nucb2 (NM\_021663) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nucb2 (NM_021663) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nucb2
Synonyms:	Nefa; p54
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR203043 representing NM_021663 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAGGTGGAGGACCATCCAAGCACGGTACTGTTTTCTCTTGTTCCGTGCGTGCTCACTGCGCTGGAAG  
CTGTTCTATTGATGTGGACAAGACCAAAGTGCACAACGTCGAGCCGGTGAAAGTGCAAGGATAGAACC  
GCCAGACACGGGACTTTATTATGATGAATACCTCAAGCAAGTATTGAAGTCTTGAAACAGATCCGCAT  
TTCAGAGAAAAGCTCCAGAAAGCAGACATAGAGGAGATAAGGAGCGGGAGGCTGAGTCAAGAGCTGGACT  
TAGTAAGTCACAAAGTGAGGACGAGACTGGATGAACTGAAGAGGCAAGAAGTAGGAAGACTGAGAATGCT  
CATCAAAGCCAAGCTGGATGCCCTTCAAGACACTGGCATGAATCACCCACCTTCTTCTTAAGCAGTTTGAA  
CACCTGAACCACCAGAATCCTGACACATTTGAATCCAAAGACTTGGATATGCTAATCAAGGCGGCCACCG  
CGGATCTGGAGCAGTATGACCGGACTCGGCATGAGGAGTTAAGAAGTATGAGATGATGAAGGAACATGA  
ACGCAGAGAATATTTAAAAACGCTGAGTGAGGAGAAGAGGAAAGAGGAAGAAGCCAAGTTTGAGAGATG  
AAGAGAAAGCATGAAGACCACCCCAAAGTAAATCACCCCGAAGCAAAGATCAACTAAAAGAGGTTTGGG  
AAGAGACTGATGGATTGGACCCTAATGACTTTGACCCCAAGACATTTTTCAAATTACATGATGTTAACAA  
CGATGGATTCTGGATGAACAAGAATTGGAAGCACTGTTCAAAAAGAGTTGGACAAAGTGATAACCCCG  
CAGAATGCAGAGGATGATATGATAGAAATGGAAGAGGAGAGGCTCAGGATGAGAGACACGTCATGAATG  
AGATTGATAACAACAAAGACCGATTGGTACTCTGGAGGAATTCTTGAGAGCCACAGAGAAGAAAGAAAT  
CTTGGAGCCCGATAGCTGGGAGACACTGGACCAGCAGCAGTTATTCACCGAGGAAGAGCTCAAAGAGTAT  
GAAAGTATCATTGCTATCCAAGAGAGTGAACCTTAAGAAGAAGGCAGATGAACTGCAGAAGCAGAAGGAGG  
AGCTGCAGCGCCAGCAGCACCTTGAGGCCAGAAGCAGGAGTATCAGCAGGCTGTACAGCAGCTGGA  
ACAGAAGAAATCCAACAAGGGATTGCTCCATCAGGGCCGGCAGGAGAGCTGAAGTTTGAGCCACACACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGAT AAGGTTTAA



**Protein Sequence:** >RR203043 representing NM\_021663  
Red=Cloning site Green=Tags(s)

MRWRTIQARYCFLLVPCVLTALEAVPIDVDKTKVHNVEPVESARIEPDTGLYYDEYLKQVIEVLETPH  
 FREKLQKADIEEIRSGRLSQELDLVSHKVRTRLDELKRQEVGRLRMLIKAKLDALQDTGMNHLLKQFE  
 HLNHQNPDTFESKDLMLIKAATADLEQYDRTRHEEFKKYEMMKEHERREYLKTLSEEKRKEEAKFAEM  
 KRKHEDHPKVNHPGSKDQLKEVWEETDGLDPNDFDPKTFFKLHDVNNDFLDEQLEALFTKELDKVYNP  
 QNAEDDMIEMEEERLRMREHVMNEIDNNKDRLVLTLEEFRLATEKKEFLPDSWETLDQQQLFTEELKEY  
 ESIIAIQESELKKKADELQKQKEELQRQHDHLEAQKQEYQQAVQQLQKFKQQGIAPSGPAGELKFEPH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

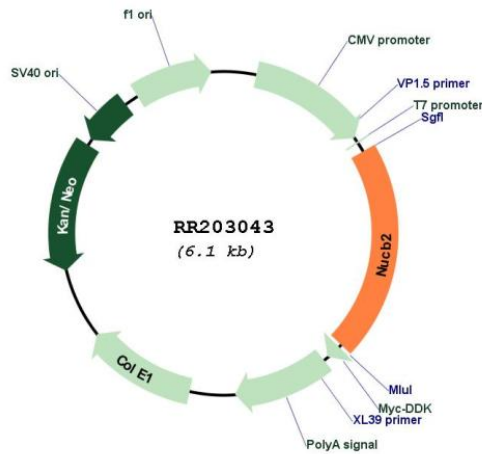
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_021663

<b>ORF Size:</b>	1260 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_021663.2</a> , <a href="#">NP_067695.1</a>
<b>RefSeq Size:</b>	1644 bp
<b>RefSeq ORF:</b>	1263 bp
<b>Locus ID:</b>	59295
<b>UniProt ID:</b>	<a href="#">Q9JI85</a>
<b>Cytogenetics:</b>	1q35
<b>MW:</b>	50.1 kDa
<b>Gene Summary:</b>	a medial Golgi cisternae resident protein [RGD, Feb 2006]