

Product datasheet for **RG220684**

Nucleobindin 2 (NUCB2) (NM_005013) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nucleobindin 2 (NUCB2) (NM_005013) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nucleobindin 2
Synonyms:	HEL-S-109; NEFA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220684 representing NM_005013 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGTGGAGGACCATCCTGCTACAGTATTGCTTTCTCTTGATTACATGTTTACTTACTGCTCTTGAAG
 CTGTGCCTATTGACATAGACAAGACAAAAGTACAAAATATTCACCCTGTGGAAAGTGCAGATAGAACC
 ACCGATACTGGACTTTATTATGATGAATATCTCAAGCAAGTGATTGATGTGCTGGAAACAGATAAACAC
 TTCAGAGAAAAGCTCCAGAAAGCAGACATAGAGGAAATAAAGAGTGGGAGGCTAAGCAAAGAAGTGGATT
 TAGTAAGTCACCATGTGAGGACAAAACCTTGATGAACTGAAAAGGCAAGAAGTAGGAAGGTTAAGAATGTT
 AATTAAAGCTAAGTTGGATTCCCTTCAAGATATAGGCATGGACCACCAAGCTCTTCTAAACAATTTGAT
 CACCTAAACACCTGAATCCTGACAAGTTTGAATCCACAGATTTAGATATGCTAATCAAAGCGGCAACAA
 GTGATCTGGAACACTATGACAAGACTCGTCATGAAGAAATTTAAAAATATGAAATGATGAAGGAACATGA
 AAGGAGAGAATATTTAAAAACATTGAATGAAGAAAAGAGAAAAGAAGAAGAGTCTAAATTTGAAGAAATG
 AAGAAAAAGCATGAAATCACCTAAAGTTAATCACCCAGGAAGCAAAGTCAACTAAAAGAGGTATGGG
 AAGAGACTGATGGATTGGATCCTAATGACTTTGACCCCAAGACATTTTCAAATTACATGATGTCAATAG
 TGATGGATTCTGGATGAACAAGAATTAGAAGCCCTATTTACTAAAGAGTTGGAGAAAGTATATGACCT
 AAAAATGAAGAGGATGATATGGTAGAAATGGAAGAAGAAAGGCTTAGAATGAGGGAACATGTAATGAATG
 AGGTTGATACTAACAAAGACAGATTGGTGACTCTGGAGGAGTTTTTGAAAGCCACAGAAAAAAAAGAATT
 CTTGGAGCCAGATAGCTGGGAGACATTAGATCAGCAACAGTTCTTCACAGAGGAAGAACTAAAAAGATAT
 GAAAAATATTATTGCTTTACAAGAAAATGAACCTAAGAAGAAGGCAGATGAGCTTCAGAAACAAAAAGAAG
 AGCTACAACGTCAGCATGATCAACTGGAGGCTCAGAAGCTGGAATATCATCAGGTACATACGCAGATGGA
 ACAAAAAAATTACAACAAGGAATTCCTCCATCAGGGCCAGCTGGAGAATTGAAGTTTGAGCCACACATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG220684 representing NM_005013
 Red=Cloning site Green=Tags(s)

MRWRTILLQYCFLLITCLLTALEAVPIDIDKTKVQNIHPVESAKIEPPDTGLYYDEYLKQVIDVLETDKH
 FREKLQKADIEEIKSGRLSKELDLVSHHVRTKLDELKRQEVGRLRLIKAKLDSLQDIGMDHQALLKQFD
 HLNHLNPKDFESTDLMLIKAATSDLEHYDKTRHEEFKKYEMMKEHERREYLKTLNEEKREEESKFEEM
 KKKHENHPKVNHPGSKDQLKEVWEETDGLDPNDFDPKTFFKLHDVNSDGFLEQLEALFTELEKQVYDP
 KNEEDDMVEMEEERLRMRHVMEVDNKNDRVLTLLEFLKATEKKEFLPDSEWETLDQQQFFTEELKEY
 ENIIALQENELKKKADELQKQKEELQRQHDQLEAQKLEYHQVIQQMEQKKLQQGIPPSGPAGELKFEPHI

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_005013

ORF Size: 1260 bp

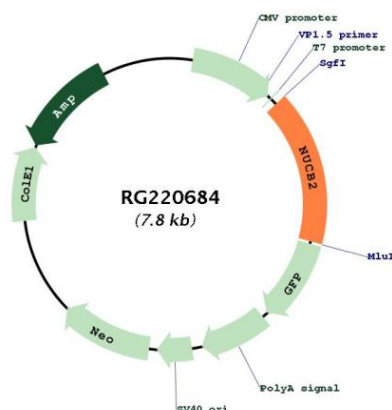
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_005013.4</u>
RefSeq Size:	1586 bp
RefSeq ORF:	1263 bp
Locus ID:	4925
UniProt ID:	<u>P80303</u>
Cytogenetics:	11p15.1
Domains:	EFh
Protein Families:	Secreted Protein, Transmembrane
Gene Summary:	This gene encodes a protein with a suggested role in calcium level maintenance, eating regulation in the hypothalamus, and release of tumor necrosis factor from vascular endothelial cells. This protein binds calcium and has EF-folding domains. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RG220684