OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG219864

NIPA2 (NM_001008892) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NIPA2 (NM_001008892) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NIPA2
Synonyms:	SLC57A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG219864 representing NM_001008892
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCCAGGGGCGTGGAAAATATGACTTCTATATTGGTCTGGGATTGGCTATGAGCTCCAGCATTTTCA
TTGGAGGAAGTTTCATTTTGAAAAAAAAGGGCCTCCTTCGACTTGCCAGGAAAGGCTCTATGAGAGCAGG
TCAAGGTGGCCATGCATATCTTAAGGAATGGTTGTGGTGGGCTGGACTGCTGTCAATGGGAGCTGGTGAG
GTGGCCAACTTCGCTGCGTATGCGTTTGCACCAGCCACTCTAGTGACTCCACTAGGAGCTCTCAGCGTGC
TAGTAAGTGCCATTCTTTCTTCATACTTTCTCAATGAAAGACTTAATCTTCATGGGAAAATTGGGTGTTT
GCTAAGTATTCTAGGATCTACAGTTATGGTCATTCATGCTCCAAAGGAAGAGGAGATTGAGACTTTAAAT
GAAATGTCTCACAAGCTAGGTGATCCAGGTTTTGTGGTCTTTGCAACCCTTGTGGTCATTGTGGCCTTGA
TATTAATCTTCGTGGTGGGTCCTCGCCATGGACAGACAAACATTCTTGTGTACATAACAATCTGCTCTGT
AATCGGCGCGTTTTCAGTCTCCTGTGTGAAGGGCCTGGGCATTGCTATCAAGGAGCTGTTTGCAGGGAAG
CCTGTGCTGCGGCATCCCCTGGCTTGGATTCTGCTGCTGAGCCTCATCGTCTGTGTGAGCACACAGATTA
ATTACCTAAATAGGGCCCTGGATATATTCAACACTTCCATTGTGACTCCAATATATTATGTATTCTTTAC
AACATCAGTTTTAACTTGTTCAGCTATTCTTTTTAAGGAGTGGCAAGATATGCCTGTTGACGATGTCATT
GGTACTTTGAGTGGCTTCTTTACAATCATTGTGGGGATATTCTTGTTGCATGCCTTTAAAGACGTCAGCT
TTAGTCTAGCAAGTCTGCCTGTGTCTTTTCGAAAAGACGAGAAAGCAATGAATGGCAATCTCTCTAATAT
GTATGAAGTTCTTAATAATAATGAAGAAAGCTTAACCTGTGGAATCGAACAACACACTGGTGAAAATGTC
TCCCGAAGAAATGGAAATCTGACAGCTTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

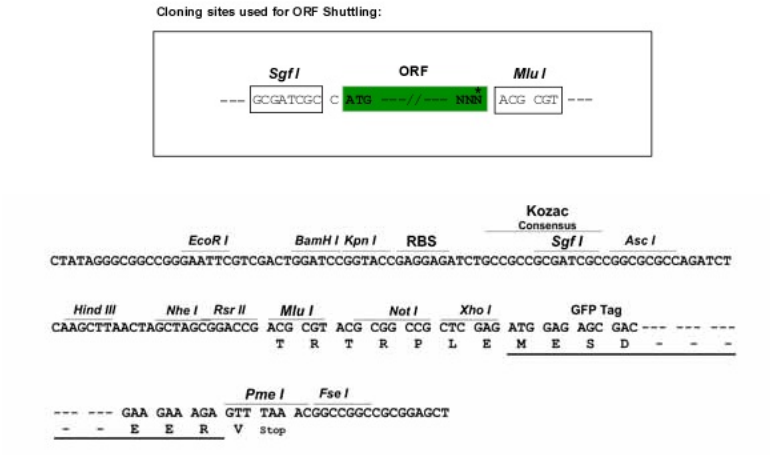
>RG219864 representing NM_001008892
Red=Cloning site Green=Tags(s)

MSQGRGKYDFYIGLGLAMSSSIFIGGSFILKKKGLLRLARKGSMRAGQGGHAYLKEWLWWAGLLSMGAGE
VANFAAYAFAPATLVTPLGALSVLVSAILSSYFLNERLNLHGKIGCLLSILGSTVMVIHAPKEEEIETLN
EMSHKLGDPGFVVFATLVVIVALILIFVVGPRHGQTNILVYITICSVIGAFSVSCVKGLGIAIKELFAGK
PVLRHPLAWILLLSLIVCVSTQINYLNRALDIFNTSIVTPIYYVFFTTSVLTCSAILFKEWQDMPVDDVI
GTLSGFFTIIVGIFLLHAFKDVSFSLASLPVSFRKDEKAMNGNLSNMYEVLNNNEESLTCGIEQHTGENV
SRRNGNLTAF

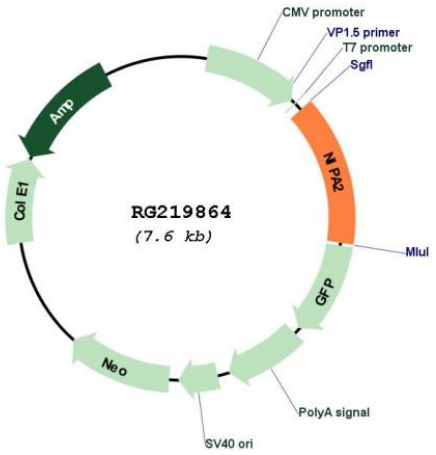
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001008892

ORF Size:	1080 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_001008892.2, NP_001008892.1
RefSeq Size:	2330 bp
RefSeq ORF:	1083 bp
Locus ID:	81614
UniProt ID:	Q8N8Q9
Cytogenetics:	15q11.2
Protein Families:	Transmembrane
Gene Summary:	This gene encodes a possible magnesium transporter. This gene is located adjacent to the imprinted domain in the Prader-Willi syndrome deletion region of chromosome 15. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 3, 7 and 21.[provided by RefSeq, May 2010]