

## Product datasheet for **RG229908**

### **NIPA2 (NM\_001184888) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NIPA2 (NM_001184888) 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:	>RG229908 representing NM_001184888 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCCAGGGCGTGGAAAATGACTTCTATATTGGTCTGGGATTGGCTATGAGCTCCAGCATTTTCA  
TTGGAGGAAGTTTCATTTTGAAGGAGGCTCCTTCGACTTGCCAGGAAAGGCTCTATGAGAGCAGT  
GGGAGCTGGTGGGTGGCAACTTCGCTGCGTATGCGTTGCACCAGCCACTCTAGTGACTCCACTAGGA  
GCTCTCAGCGTGCTAGTAAGTGCCATTCTTCTCATACTTTCTCAATGAAAGACTTAATCTTCATGGGA  
AAATTGGGTGTTGCTAAGTATTCTAGGATCTACAGTTATGGTCATTCATGCTCCAAAGGAAGAGGAGAT  
TGAGACTTTAAATGAAATGTCTACAAGCTAGGTGATCCAGGTTTTGTGGTCTTTGCAACCTTGTGGTC  
ATTGTGGCCTTGATTAATCTTCGTTGGTCTCCGATGGACAGACAAACATTCTTGTGTACATAA  
CAATCTGCTCTGTAATCGGCGCTTTTCAGTCTCCTGTGTGAAGGGCTGGGCATTGCTATCAAGGAGCT  
GTTTGCAGGGAAGCCTGTGCTGCGGCATCCCCTGGCTTGGATTCTGCTGCTGAGCCTCATCGTCTGTGTG  
AGCACACAGATTAATTACCTAAATAGGGCCCTGGATATATTCAACTTCCATTGTGACTCCAATATATT  
ATGTATTCTTTACAACATCAGTTTTAACTTGTTCAGCTATTCTTTTAAAGGAGTGGAAGATATGCCTGT  
TGACGATGTCATTGGTACTTTGAGTGGCTTCTTACAATCATTGTGGGATATTCTTGTTCATGCCTTT  
AAAGACGTCAGCTTTAGTCTAGCAAGTCTGCCTGTGCTTTTTCGAAAAGACGAGAAAGCAATGAATGGCA  
ATCTCTAATATGTATGAAGTTCTTAATAATAATGAAGAAAGCTTAACCTGTGGAATCGAACAACACAC  
TGGTGAAAATGTCTCCGAAGAAATGAAATCTGACAGCTTTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG229908 representing NM\_001184888  
 Red=Cloning site Green=Tags(s)

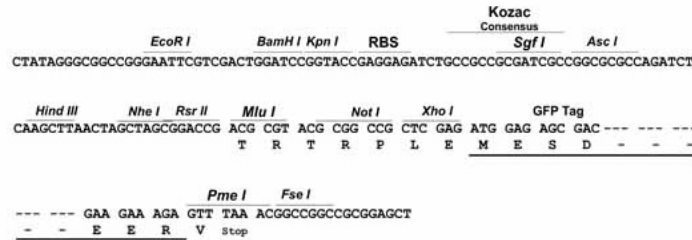
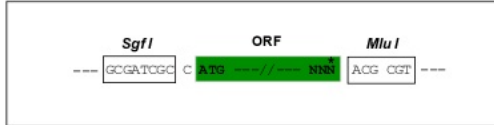
MSQGRGKYDFYIGLGLAMSSSIFIGGSFILKKKGLLLRLARKGSMRAVGAGEVANFAAYAFAPATLVTPLG  
 ALSVLVSAILSSYFLNERLNLHGKIGCLLSILGSTVMVIHAPKEEEIETLNEMSHKLGDPGFVVFATLVV  
 IVALILIFVVGPRHGQTNILVYITICSVIGAFVSCVKGLGIAIKELFAGKPVLRHPLAWILLLSLIVCV  
 STQINYLNRALDIFNTSIVTPIYVFFTTSVLTCASAILFKEWQDMPVDDVIGTLSGFFTIIVGIFLLHAF  
 KDVSFSLASLPVSRKDEKAMNGNLSNMYEVLNNEESLTCGIEQHTGENVSRRNGNLTAF

TRTRPLE - GFP Tag - V

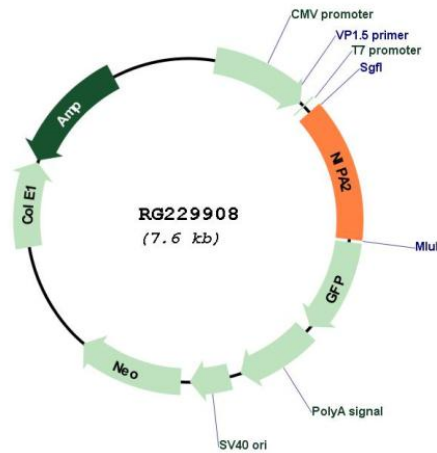
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001184888

**ORF Size:** 1023 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_001184888.1</a> , <a href="#">NP_001171817.1</a>
<b>RefSeq Size:</b>	3085 bp
<b>RefSeq ORF:</b>	1026 bp
<b>Locus ID:</b>	81614
<b>UniProt ID:</b>	<a href="#">Q8N8Q9</a>
<b>Cytogenetics:</b>	15q11.2
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	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]