

Product datasheet for **RG204017**

NIPA2 (NM_001008860) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NIPA2 (NM_001008860) 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:	>RG204017 representing NM_001008860 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCCAGGGCGTGGAAAATGACTTCTATATTGGTCTGGGATTGGCTATGAGCTCCAGCATTTTCA
TTGGAGGAAGTTTCATTTTGAAGGAAAGGGCCTCCTTCGACTTGCCAGGAAAGGCTCTATGAGAGCAGG
TCAAGGTGGCCATGCATATCTTAAGGAATGGTTGGTGGGCTGGACTGCTGTCAATGGGAGCTGGTGAG
GTGGCCAACTTCGCTGCGTATGCGTTTGCACCAGCCACTCTAGTGACTCCACTAGGAGCTCTCAGCGTGC
TAGTAAGTGCCATTCTTTCTTCATACTTTCTCAATGAAAGACTTAATCTTCATGGGAAAATTGGGTGTTT
GCTAAGTATTCTAGGATCTACAGTTATGGTCATTCATGCTCCAAAGGAAGAGGAGATTGAGACTTTAAAT
GAAATGTCTCACAAAGCTAGGTGATCCAGGTTTTGTGGTCTTTGCAACCCTTGTTGTCATTGTGGCCTTGA
TATTAATCTTCGTGGTGGTCTCGCCATGGACAGACAAACATTCTGTGTACATAACAATCTGCTCTGT
AATCGGCGCGTTTTTCAGTCTCCTGTGTGAAGGGCCTGGGCATTGCTATCAAGGAGCTGTTTGCAGGGAAG
CCTGTGCTGCGGCATCCCTGGCTTGGATTCTGCTGCTGAGCCTCATCGTCTGTGTGAGCACACAGATTA
ATTACCTAAATAGGGCCCTGGATATATTCAACACTTCCATTGTGACTCCAATATATTATGTATTCTTTAC
AACACTAGTTTTAACTTGTTCAGCTATTCTTTTAAGGAGTGGCAAGATATGCCTGTTGACGATGTCATT
GGTACTTTGAGTGGCTTCTTACAATCATTGTGGGGATATCTTGTGTCATGCCTTTAAAGACGTCGGCT
TTAGTCTAGCAAGTCTGCCTGTGCTTTTCGAAAAGACGAGAAAGCAATGAATGGCAATCTCTCTAATAT
GTATGAAGTTCTTAATAATAATGAAGAAAGCTTAACCTGTGGAATCGAACAAACACTGGTGAAAATGTC
TCCCGAAGAAATGGAAATCTGACAGCTTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204017 representing NM_001008860
 Red=Cloning site Green=Tags(s)

MSQGRGKYDFYIGLGLAMSSSIFIGGSFILKKKGLRLARKGSMRAGQGGHAYLKEWLWWAGLLSMGAGE
 VANFAAYAFAPATLVPTL GALSVLVSA ILSYFLNERLNLHGKIGCLLSILGSTVMVIHAPKEEEIETLN
 EMSHKLGDPGFVVFATLVVIVALILIFVVGPRHGQTNILVYITICSVIGAFSVSCVKGLGIAIKELFAGK
 PVLRHPLAWILLLSLIVCVSTQINYLNRALDIFNTSIVTPIYYVFFTTSVLTC SAILFKEWQDMPVDDVI
 GTLSGFFTIIIVGIFLLHAFKDVGFSLASLPVSVFRKDEKAMNGNLSNMYEVLNNNEESLTCGIEQHTGENV
 SRRNGNLTA F

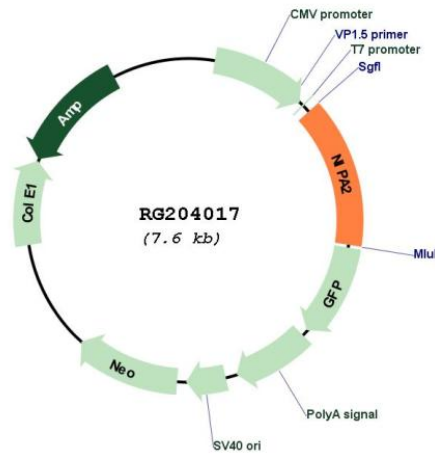
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001008860

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:	<ol style="list-style-type: none">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_001008860.1 , NP_001008860.1
RefSeq Size:	2466 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]