

Product datasheet for RC229908

NIPA2 (NM_001184888) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NIPA2 (NM_001184888) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NIPA2
Synonyms:	SLC57A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC229908 representing NM_001184888 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCCAGGGCGTGGAAAATGACTTCTATATTGGTCTGGGATTGGCTATGAGCTCCAGCATTTTCA
TTGGAGGAAGTTTCATTTTGAAGGAGGCTCCTTCGACTTGCCAGGAAAGGCTCTATGAGAGCAGT
GGGAGCTGGTGGGTGGCAACTTCGCTGCGTATGCGTTGCACCAGCCACTCTAGTGACTCCACTAGGA
GCTCTCAGCGTGCTAGTAAGTCCATTCTTCTCATACTTTCTCAATGAAAGACTTAATCTTCATGGGA
AAATTGGGTGTTGCTAAGTATTCTAGGATCTACAGTTATGGTCATTCATGCTCCAAAGGAAGAGGAGAT
TGAGACTTTAAATGAAATGTCTACAAGCTAGGTGATCCAGGTTTTGTGGTCTTTGCAACCTTGTGGTC
ATTGTGGCCTTGATTAATCTTCGTTGGTCTCGCCATGGACAGACAAACATTCTTGTGTACATAA
CAATCTGCTCTGTAATCGGCGCTTTTCAGTCTCCTGTGTGAAGGGCTGGGCATTGCTATCAAGGAGCT
GTTTGCAGGGAAGCCTGTGCTGCGGCATCCCTGGCTGGATTCTGCTGCTGAGCCTCATCGTCTGTGTG
AGCACACAGATTAATTACCTAAATAGGGCCCTGGATATATTCAACTTCCATTGTGACTCCAATATATT
ATGTATTCTTTACAACATCAGTTTTAACTTGTTCAGCTATTCTTTTAAAGGAGTGGAAGATATGCCTGT
TGACGATGTCATTGGTACTTTGAGTGGCTTCTTACAATCATTGTGGGATATTCTTGTTCATGCCTTT
AAAGCGTCAGCTTTAGTCTAGCAAGTCTGCCTGTGCTTTTTCGAAAAGACGAGAAAGCAATGAATGGCA
ATCTCTAATATGTATGAAGTTCTTAATAATAATGAAGAAAGCTTAACCTGTGGAATCGAACAACACAC
TGGTGAAAATGTCTCCCGAAGAAATGAAATCTGACAGCTTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC229908 representing NM_001184888
 Red=Cloning site Green=Tags(s)

MSQGRGKYDFYIGLGLAMSSSIFIGGSFILKKKGLLRARKGSMRAVGAGEVANFAAYAFAPATLVPLG
 ALSVLVSAILSSYFLNERLNLHGKIGCLLSILGSTVMVIHAPKEEEIETLNEMSHKLGDPGFVVFATLVV
 IVALILIFVVGPRHGQTNILVYITICSVIGAFSVSCVKGLGIAIKELFAGKPVLRHPLAWILLLSLIVCV
 STQINYLNRALDIFNTSIVTPIYVFFTTSVLTC SAILFKEWQDMPVDDVIGTLSGFFTIIVGIFLLHAF
 KDVSFSLASLPVSRKDEKAMNGNLSNMYEVLNNNEESLTCGIEQHTGENVSRRNGNLTAFA

TRTRPLEQKLISEEDLAANDILDYKDDDDKVV

Chromatograms: https://cdn.origene.com/chromatograms/mk8053_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001184888

ORF Size: 1023 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_001184888.1](#), [NP_001171817.1](#)

RefSeq ORF: 1026 bp

Locus ID: 81614

UniProt ID: [Q8N8Q9](#)

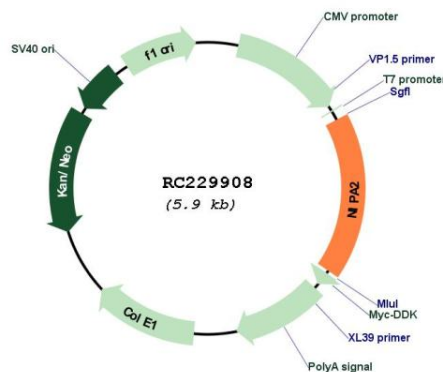
Cytogenetics: 15q11.2

Protein Families: Transmembrane

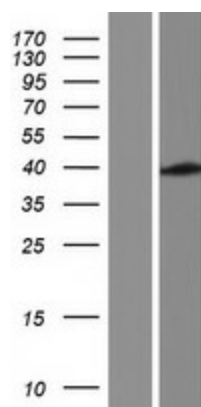
MW: 37.4 kDa

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]

Product images:



Circular map for RC229908



Western blot validation of overexpression lysate (Cat# [LY432908]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229908 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).