

Product datasheet for RC216472

NIPA2 (NM_030922) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NIPA2 (NM_030922) 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:	>RC216472 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCCAGGGCGTGGAAAATAGACTTCTATATTGGTCTGGGATTGGCTATGAGCTCCAGCATTTTCA
TTGGAGGAAGTTTCATTTTAAAAAAGGGCCTCCTTCGACTTGCCAGGAAAGGCTCTATGAGAGCAGG
TCAAGGTGGCCATGCATATCTTAAGGAATGGTTGGTGGGCTGGACTGCTGTCAATGGGAGCTGGTGAG
GTGGCCAACTTCGCTGCGTATGCGTTTGACCAGCCACTCTAGTGACTCCACTAGGAGCTCTCAGCGTGC
TAGTAAGTGCCATTCTTTCTTCATACTTTCTCAATGAAAGACTTAATCTTCATGGGAAAATTGGGTGTTT
GCTAAGTATTCTAGGATCTACAGTTATGGTCATTCATGCTCCAAAGGAAGAGGAGATTGAGACTTTAAAT
GAAATGTCTCACAAAGCTAGGTGATCCAGGTTTTGTGGTCTTTGCAACCCTTGTTGTCATTGTGGCCTTGA
TATTAATCTTCGTGGTGGTCTCGCCATGGACAGACAAACATTCTGTGTACATAACAATCTGCTCTGT
AATCGGCGCGTTTTAGTCTCCTGTGTGAAGGGCCTGGGCATTGCTATCAAGGAGCTGTTTGAGGGGAA
CCTGTGCTGCGGCATCCCTGGCTTGGATTCTGCTGCTGAGCCTCATCGTCTGTGTGAGCACACAGATTA
ATTACCTAAATAGGGCCCTGGATATATCAACACTTCCATTGTGACTCCAATATATTATGTATTCTTTAC
AACACTAGTTTTAACTTGTTCAGCTATTCTTTTAAAGGAGTGGCAAGATATGCCTGTTGACGATGCATT
GGTACTTTGAGTGGCTTTACAATCATTGTGGGGATATCTTGTGGCATGCCTTTAAAGACGTCGGCT
TTAGTCTAGCAAGTCTGCCTGTGTCTTTTCGAAAAGACGAGAAAGCAATGAATGGCAATCTCTCTAATAT
GTATGAAGTTCTTAATAATAATGAAGAAAGCTAACCTGTGGAATCGAACAAACACTGGTGAAAATGTC
TCCCGAAGAAATGGAAATCTGACAGCTTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC216472 protein sequence
Red=Cloning site Green=Tags(s)

MSQGRGKYDFYIGLGLAMSSSIFIGGSFILKKKGLRLARKGSMRAGQGGHAYLKEWLWWAGLLSMGAGE
 VANFAAYAFAPATLVTPLGALSVLVSAILSSYFLNERLNLHGKIGCLLSILGSTVMVIHAPKEEEIETLN
 EMSHKLGDPGFVVFATLVVIVALILIFVVGPRHGQTNILVYITICSVIGAFSVSCVKGLGIAIKELFAGK
 PVLRHPLAWILLLSLIVCVSTQINYLNRALDIFNTSIVTPIYYVFFTTSVLTCSAILFKEWQDMPVDDVI
 GTLSGFFTIIVGIFLLHAFKDVGFSLASLPVSVFRKDEKAMNGNLSNMYEVLNNNEESLTCGIEQHTGENV
 SRRNGNLTAFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6422_d03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_030922

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_030922.4](#)

RefSeq Size: 3252 bp

RefSeq ORF: 1083 bp

Locus ID: 81614

UniProt ID: [Q8N8Q9](#)

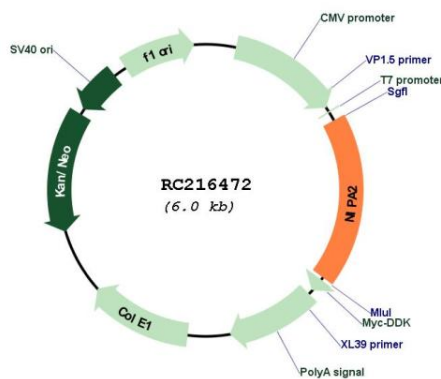
Cytogenetics: 15q11.2

Protein Families: Transmembrane

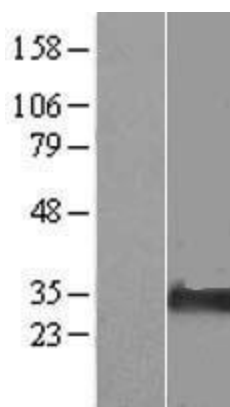
MW: 39.2 kDa

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 RC216472



Western blot validation of overexpression lysate (Cat# [LY423385]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC219864] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).