

Product datasheet for SC325674

NIPA1 (NM_001142275) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NIPA1 (NM_001142275) Human Untagged Clone
Tag:	Tag Free
Symbol:	NIPA1
Synonyms:	FSP3; SLC57A1; SPG6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325674 representing NM_001142275. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTGTTGGCCAGATTGGAACTTCCTGGCTTACACGGCGGTCCCGACGGTCCTGGTAACCCCTCTG
GGCGCCCTTGGAGTACCGTTCCGGGTCCATTTAGCTTCTATCTCCTGAAGGAAAAGCTCAACATCTTG
GGCAAGTTGGGGTGCCTGCTAAGCTGTGCAGGCTCCGTCGTGCTGATTATCCACTCCCCAAAGTCTGAG
AGTGTGACAACTCAGGCTGAGCTGGAGGAAAAGCTGACCAATCCAGTGTTTGTGGGCTACCTGTGCATC
GTGCTGCTCATGCTGCTGCTCATCTTCTGGATCGCGCCGGCCCATGGGCCACCAACATCATGGTC
TACATCAGCATCTGCTCCTTGCTGGGCAGTTTCACCGTGCCTTCCACCAAGGGCATCGGGCTGGCGGCC
CAAGACATCTTGATAACAACCCGTCAGTCAGAGAGCCCTCTGCCTGTGCCTGGTACTCCTGGCCGTG
CTCGGCTGCAGCATCATCGTCCAGTTCAGGTACATCAACAAGGCGCTGGAGTGCTTCGACTCCTCGGTG
TTCGGGGCCATCTACTACGTCGTGTTTACCACGCTGGTCTGCTGGCCTCAGCCATCCTCTTCCGGGAG
TGGAGCAACGTGGGCCTGGTGGACTTCTTGGGGATGGCCTGTGGATTACGACCGTCTCCGTGGGGATT
GTCCTTATACAGGTGTTCAAAGAGTTCAATTTCAACCTTGGGGAGATGAACAAATCTAATATGAAAAA
GACTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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Restriction Sites:	SgfI-MluI
ACCN:	NM_001142275
Insert Size:	765 bp


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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001142275.1</u>
RefSeq Size:	6386 bp
RefSeq ORF:	765 bp
Locus ID:	123606
UniProt ID:	<u>Q7RTP0</u>
Cytogenetics:	15q11.2
Protein Families:	Druggable Genome, Transmembrane
MW:	27.3 kDa
Gene Summary:	This gene encodes a magnesium transporter that associates with early endosomes and the cell surface in a variety of neuronal and epithelial cells. This protein may play a role in nervous system development and maintenance. Multiple transcript variants encoding different isoforms have been found for this gene. Mutations in this gene have been associated with autosomal dominant spastic paraplegia 6. [provided by RefSeq, Nov 2008] Transcript Variant: This variant (2) uses an alternate 5' exon and downstream start codon, compared to variant 1. The resulting protein (isoform 2) has a shorter N-terminus, compared to isoform 1.