

Product datasheet for SC312988

NIPA1 (NM_144599) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NIPA1 (NM_144599) 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:	>SC312988 representing NM_144599. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGGGGACTGCAGCTGCGGCAGCGCGCGCGCGCGCGCGCGCGCGGGAGGGGGCGCGTAGCCCG
 AGCCCCGCGCGCGTGTGCTCGGCCTGGCGTGGCGTGTGTCGAGCCTGGTGAACGGGTCCACGTTT
 GTGCTACAGAAGAAGGGCATCGTGCCTGCAAGCGCGAGGTAATTCCTATTTAACAGACATTGTGTGG
 TGGGCTGGCACAATCGCAATGGCTGTTGGCCAGATTGGAACTTCCTGGCTTACACGGCGGTCCCCACG
 GTCTGTGAACCCCTGGCGCCCTTGGAGTACCGTTCGGGTCCATTTAGCTTCCTATCTCCTGAAG
 GAAAAGCTCAACATCTTGGGCAAGTTGGGTGCCTGCTAAGCTGTGCAGGCTCCGTCGTGCTGATTATC
 CACTCCCCAAAGTCTGAGAGTGTGACAACCTCAGGCTGAGCTGGAGGAAAAGCTGACCAATCCAGTGTTC
 GTGGGCTACCTGTGCATCGTGTCTCATGCTGTCTCATCTTCTGGATCGCGCCGGCCCATGGG
 CCCACCAACATCATGGTCTACATCAGCATCTGCTCCTTGTGGCAGTTTCACCGTGCCTTCCACCAAG
 GGCATCGGGCTGGCGGCCAAGACATCTTGATAACAACCCGTCAGTCAGAGAGCCCTCTGCCTGTGC
 CTGGTACTCCTGGCGGTGCTCGGCTGCAGCATCATCGTCCAGTTCAGGTACATCAACAAGGCGCTGGAG
 TGCTTCGACTCCTCGGTGTTGGGGCCATCTACTACGTCGTGTTTACCACGCTGGTCTGCTGGCCTCA
 GCCATCCTCTTCCGGGAGTGGAGCAACGTGGGCTGGTGGACTTCTTGGGGATGGCCTGTGGATTACG
 ACCGTCTCCGTGGGATTGTCCTTATACAGGTGTTCAAAGAGTTCAATTTCAACCTTGGGGAGATGAAC
 AAATCTAATATGAAAACAGACTAG
 AC**CGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_144599
Insert Size:	990 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_144599.4</u>
RefSeq Size:	6565 bp
RefSeq ORF:	990 bp
Locus ID:	123606
UniProt ID:	<u>Q7RTP0</u>
Cytogenetics:	15q11.2
Protein Families:	Druggable Genome, Transmembrane
MW:	34.6 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 (1) represents the longer transcript and encodes the longer isoform (1).