

Product datasheet for **RG201270**

NIPSNAP1 (NM_003634) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NIPSNAP1 (NM_003634) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NIPSNAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201270 representing NM_003634 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCCGCGGCTGTGCAGCATCTCTGTGACGGCGCGGCGGCTGCTGGGGGGCCCGGGCCTCGCGCTG
GGGACGTTGCGTCTGCAGCTGCGGCGCGTTTCTATTCCAAGGACAATGAAGGCAGCTGGTTCCGCTCCCT
CTTTGTTCAAAAGTGGATCCCCGAAGGATGCCACTCCACCCTGCTGTCCAAGAAGGAAACAGCAAC
CTCTATAAGATCCAGTTTCAAAATGTAAGCCTGAATACCTGGATGCCTACAACAGCCTCACGGAGGCTG
TGCTGCCAAGCTTACCTGGATGAGGACTACCATGCTCACTCGTGGCAACTGGAACACGTGGTATGG
GGAGCAGGACCAGGCAGTGACCTGTGGCGATTCTCAGGTGGCTACCCAGCCCTCATGGACTGCATGAAC
AAGCTCAAAAACAATAAGGAGTACCTGGAGTTCCGAAGGAGCGGAGCCAGATGCTGCTGTCCAGGAGAA
ACCAGCTGCTCCTCGAGTTCAGCTTCTGGAATGAGCCACAGCCAGAATGGGTCCCAACATCTATGAGCT
GAGGACATACAAGCTCAAGCCAGGAACCATGATCGAGTGGGGGAACAACCTGGGCTCGGGCCATCAAGTAC
CGGCAGGAGAACCAGGAGGAGTGGGCGGCTTCTTCTCACAGATAGGAGAGCTCTACGTGGTGCACCATC
TCTGGGCTATAAAGACCTGCAGTCTCGGGAGGAGACTCGAAACGCTGCCTGGAGGAAGAGAGGCTGGGA
TGAAAATGTCTACTATACAGTCCCCCTGGTGCGACACATGGAGTCTAGGATCATGATCCCCTTGAAGATC
TCGCTCTGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201270 representing NM_003634
 Red=Cloning site Green=Tags(s)

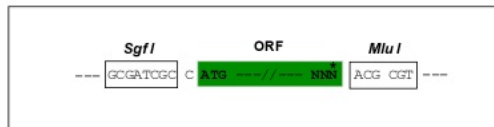
MAPRLCSISVTARRLLGGPGPRAGDVASAAARFYSKDNEGSWFRSLFVHKVDPRKDAHSTLLSKKETSN
 LYKIQFHNVKPEYLDAYNSL TEAVLPKLHLDEDYPCSLVGNWNTWYGEQDQAVHLWRFSGGYPALMDCMN
 KLKNNKEYLEFRRERSQMLLSRRNQLLLEFSFWNEPQPRMGPNIELRTYKLPKGTMIWGNWARAIFY
 RQENQEAVGGFFSQIGELYVVHHLWAYKDLQSREETRNAAWRKRGWDENVYTTVPLVRHMESRIMIPLKI
 SPLQ

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



CTATAGGGCGGCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTACTAGTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGGCCGGAGCT

PmeI FseI

- - E E R V Stop

ACCN: NM_003634

ORF Size: 852 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_003634.4](#)

RefSeq Size: 2233 bp

RefSeq ORF: 855 bp

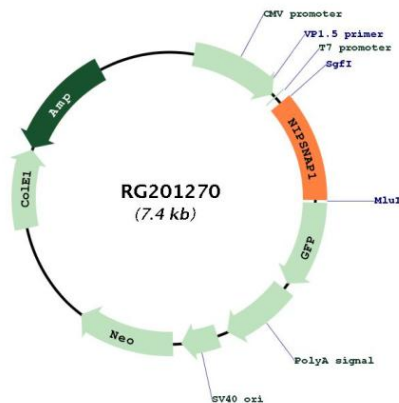
Locus ID: 8508

UniProt ID: [Q9BPW8](#)

Cytogenetics: 22q12.2

Gene Summary: This gene encodes a member of the NipSnap family of proteins that may be involved in vesicular transport. A similar protein in mice inhibits the calcium channel TRPV6, and is also localized to the inner mitochondrial membrane where it may play a role in mitochondrial DNA maintenance. A pseudogene of this gene is located on the short arm of chromosome 17. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Feb 2011]

Product images:



Circular map for RG201270