

Product datasheet for **MG224805**

Nipal1 (NM_001081205) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nipal1 (NM_001081205) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nipal1
Synonyms:	3830408G10Rik; Npal1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224805 representing NM_001081205 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGGTACAGCTGAGGCTGCCACCCGGAGAGCCCTGCCATGAAGGGTATGTAAGTGTGCTGGTCTGCT
CCAACCTCTCCCGGGCTTCGTGCGAGATCACAAATGTGTCAGAGTCGCTGCCTTATCCTGTGCTACAC
GAACCTGAATTCCTCTAAAACCACTTCAGCATTCAGCAAGTGTAGAAAACAAATACAATCTGTATGTG
GGCTTGGTATTGGCCATAAGCTCCAGCGTTTTTCATTGGCTCTAGTTTCATACTCAAAAAGAAGGGTCTCT
TGCAACTGGCCGACAAGGCATCACCAGAGCAGGGCAAGGTGGACATTCTTACCTCAAGGAATGGTTGTG
GTGGGCAGGACTGCTGCAATGGGAGCCGGAGAGGCTGCGAACTTCGCCGCTTATGCCTTTGCGCCCTGCC
ACCTTGGTCACCCCACTGGGGCTCTGAGCGTTCTCATAAGTGCAATATTGTCTTCTATTTTTAAATG
AGCGCTTGAATATTCACGGGAAAATAGGCTGCATTTTAAGCGTATTGGGGTCAACTGTGATGGTTATCCA
CGCCCCACAAGAGGGAGAAGTCACATCTTTCATGAAATGGAAATGAAATGAGAGATCCAGGGTTCGTT
TCCTTTGCTGTGATCATCTCTGTGATCTCACTGGTGTGATTTTGATTGTGGCCCCAAGAAAGGACAGA
CTAATATATTAGTCTATATCGCAATCTGCTCTTTGATTGGAGCGTTTTCCGTCTCTTCTGTCAAAGGCTT
GGGAATTGCCATTAAGGAACTGCTGGAACGGAAGCCTGTTTACAAGGATCCCCTGTTCTTCATCCTGTTG
ACCATGCTTGCACTTTCCGTGACCACCCAGATTAACATCTCAACAAGGCCCTGGACACTTCAACACAT
CCCTGGTGACTCCCATTATTACGTGTTCTTCACATCCATGGTGGTAAGTTGTTCTGCCATCCTGTTCCA
GGAGTGGTATGGCATGAAAGCTGGAGATATCATCGGTACCCTGAGCGGGTCTTACCATCATCAATGGC
ATCTTCTCTACATGCTTTTAAAAACCAACATCACCTGGAGTGAAGTCACTGCTACTGCTAAGAAAAG
AAGCCCTTTCTCAAATGGCAATCAGAACAGTTATGTTTTACTAGAGAACGCAGACTTCTCAGCCTCTGG
GTATGATGACGACATCACCTGTTTAGCAGGACCAATGACCAAAGTAGCCATAAACTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG224805 representing NM_001081205
Red=Cloning site Green=Tags(s)

MGVQLRLPPGEPCHEGYVLSLVCSNSSRASCEITNVSESLPYPPVYVYTNLNSKTNFISISASVENKYNLYV
 GLVLAISSSVFIGSSFILKKKGLLQLADKGITRAGQGGHSLKEWLWWAGLLSMGAGEAANFAAYAFAPA
 TLVTPLGALSVLISAILSSYFLNERLNIHGKIGCILSVLGSTVMVIHAPQEGEVTSLHEMEMKLRDPGFV
 SFAVIISVLSVLILIVAPKKGQTNILVYIAICSLIGAFSVSSVKGLGIAIKELLERKPVYKDPLFFILL
 TMLALSVTQTINYLNKALDFTNTSLVTPIIYYVFFTSMVVTC SAILFQEWYGMKAGDIIGTLSGFFTIING
 IFLFHAFKNTNITWSEL MSTAKKEALSPNGNQNSYVLL ENADFSASGYDDDDITLFSRTNDQSSHKL

TRTRPLE - GFP Tag - V

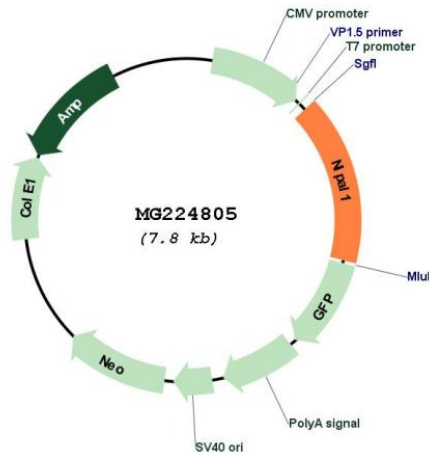
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001081205

ORF Size:	1248 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:	<ol style="list-style-type: none">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_001081205.1 , NP_001074674.1
RefSeq Size:	4205 bp
RefSeq ORF:	1251 bp
Locus ID:	70701
UniProt ID:	Q8BMW7
Cytogenetics:	5 C3.2
Gene Summary:	Acts as a Mg(2+) transporter. Can also transport other divalent cations such as Fe(2+), Sr(2+), Ba(2+), Mn(2+), Cu(2+) and Co(2+) but to a much less extent than Mg(2+).[UniProtKB/Swiss-Prot Function]