

## Product datasheet for **MG224884**

### Nipal4 (NM\_172524) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nipal4 (NM_172524) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nipal4
Synonyms:	9530066K23Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224884 representing NM_172524 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCTGCGGGTCGCCAACGCCAATGGCAGCTGCGAGAACGGCTCCATAGTCAGCCTCTACTGCTCCT  
CTCAGGAGGTCTCTGTGATCGTGAGAGGCATCAGTCTGAAGAGCCCTACAATGCCACCTTGATCAC  
CTGGCAAGAGAGGGTCAGGAAGAAGTATGGCTTCTACATCGGTGTGGCCTCGCCTTCTCTCTGCTTC  
CTCATCGGCACCAGTGCATCCTAAGAAGAAAGCCCTATTTCGGCTTGTGGCCACAGGGCCACAAGGG  
CAGTGAATGGAGGCTACGGCTACCTGAAGGACCAATGTGGTGGGCTGGAATGGCTACCATGTCTGCTGG  
AGAAGTTGCCAACTTCGGGGCCTATGCATTTGCACCTGCGACGGTTGTCACACCGCTGGGAGCACTGAGC  
GTCCCTATAAGTGCCATCTTTCTCCTACTGCCTGGGAGAGAGCCTGAATCTACTGGGGAACTGGGCT  
GTGTGATCTGTATGGCTGGCAGCACAGTGTGTCATACATGCCCCAAAGAGGAGAAGGTCACCACTGT  
TGCAGAGATGGCTTCCAAGATGAAAGACACAGGGTTTCATCGTCTTTGCTGTCTTCTGGTGGTGTCTTG  
CTCATCCTCATCTTCATTGTTGCCACGTTACGGGCAAAGGAATATCCTCATTTACATCATCTGCT  
CCGTGATCGGATCCTTCCGTGACTGCCGTCAAGGGGCTTGGTGTCCACATTAGGAACCTTCCAGGG  
CTTACCAGTTGTGCGCACCCCTCCTTACATCCTGTCCCTCATCCTGGGTCTTTCTATCATCATCCAG  
GTCAACTTCTCAACAGGGCACTGGATATTTTCAACACCTCATTGGTCTTCCCATCTACTACGTTTCT  
TCACCACGGTGGTGGCCTCCTCCATCGTCCTTCAAGGAGTGGTATACCATGTCTGCTGTGGACAT  
TGTGGGCACCCTGTCTGGCTTCGTACCATCATCCTGGGTGTTTTATGCTTACGCTTTCAAGGATTTG  
GACATCAACCAAATCAGCTTGGCCACACGCACAAAAACCAACTCCAGCTCCCGCCCCAGGCCACAG  
TCATTAATACTAGAAGACAAGAATGTCCTTGTAGATAACATAGAAGTGGCAGCACACCATCACCCCAACA  
GAAGCCCAAAGTATTTATGACCGATTCT

**ACGGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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Protein Sequence: >MG224884 representing NM\_172524  
 Red=Cloning site Green=Tags(s)

MELRVANANGSCENGSIIVSLYCSSQEVLCQIVRGISPEEPYNATLITWQERVRRKKYGFYIGVGLAFLSCF  
 LIGTSVILKKKGLIRLVATGATRAVNGGYGLKDPMMWAGMATMSAGEVANFGAYAFAPATVVTPLGALS  
 VLISAIIFSSYCLGESLNLGKLGCVICMAGSTVMVIHAPKEEKVTTVAEMASKMKDGFIVFAVLLVWSC  
 LILIFIVAPRYGQRNLIYIIICSVIGSFVTAVKGLGVTIRNFFQGLPVVRHPLPYILSLILGLSIIIQ  
 VNFLNRALDIFNTSLVFPIYYVFFTTVVVASSIVLFKEWYTMSAVDIVGTLSGFVTIILGVFMLHAFKDL  
 DINQISLPHTHKNPTPAPAPEPTVIKLEDKNVLVDNIELASTPSPQPKPKVFMTDS

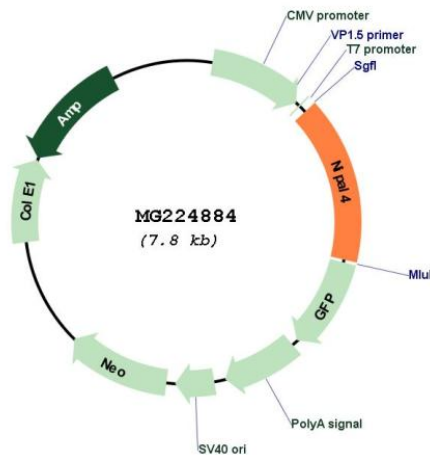
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_172524

<b>ORF Size:</b>	1218 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_172524.3</a> , <a href="#">NP_766112.1</a>
<b>RefSeq Size:</b>	3295 bp
<b>RefSeq ORF:</b>	1221 bp
<b>Locus ID:</b>	214112
<b>UniProt ID:</b>	<a href="#">Q8BZF2</a>
<b>Cytogenetics:</b>	11 B1.1
<b>Gene Summary:</b>	Acts as a Mg(2+) transporter. Can also transport other divalent cations such as Ba(2+), Mn(2+), Sr(2+) and Co(2+) but to a much less extent than Mg(2+). May be a receptor for ligands (trioxilins A3 and B3) from the hepoxilin pathway (By similarity).[UniProtKB/Swiss-Prot Function]