

Product datasheet for **MG224259**

Nlrp6 (NM_001081389) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nlrp6 (NM_001081389) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nlrp6
Synonyms:	A1504961; Nalp6; Navr/Avr; Pypaf5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG224259 representing NM_001081389
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGATGCCGCTGGAGCCTCCTGCTCCAGCGTGGATGCAGTGGCAAGGGAGCTGCTTATGGCTACACTGG
AGGAGCTGAGCCAGGAGCAGCTGAAGCGCTTCCGCCACAAGCTAAGGGATGCGCCCTGGATGGCCGAG
CATCCCGTGGGGCGACTGGAGCGCTCAGACGCTGTGGACCTTGTGACAAGCTCATTGAGTTCTATGAG
CCAGTGCCAGCTGTAGAAATGACCCGGCAGGTCCTGAAGAGGTCGGATATTCGAGATGTGGCCTCGCGAC
TTAAGCAACAGCAGCTACAGAAGCTCGGCCACCTCGGTGCTTCTCCTCGTGTGACGTTCAAGAAGAA
GTACCGCAGCAGCTGCTACGACAGCATGCTAAGGTGAAGGAGAGGAATGCTCGCTGTGAAGATCAAC
AAGCGCTTACCAAGCTGCTCATCGCTCCGGGACCGGCGCTGTGGAGGACGAGCTGTGGGCGCTTGG
GGGAGCCGGAGCCGAACGCGCTCGGCGCTCGGACACGCACACTTTAATCGGCTTCCGGGGAATGA
TGAAGAGAGCTCGCAGCCGCTGACCGTGGTGTGTCAGGGCCCGCAGGCATCGGCAAAACCATGGCCGCC
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GAGCTGCCTACTTTACCATCCTCAGAGGCCACTCCCTGCAAAGACCCTTTGGAGGCTACAAGTGGCTTGA
GAGTGTGAGCGGGCTGCTGAGCCAGGAGCTGTTACCAGGAGCTCGCTTGTAGTACTACACGCCATGC
CGCTACAGGGAGGCTGCAGGGCAGATTGTGCTCGCCACAGTGCAGAGAAATACGCGGCTTCTCAGACAAA
GACAAAAAAGTATTTCTCAAGTCTTCCGGGACGAGAGGAAGGCAGAGCGCGCTTACCGCTTCTGTA
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TCTTGCCTGACCAACCGATTCTCTTTGGCTGCTAAATACAGAGGGGCTTCGTGACATTGAAACCAT
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CACTCAGGATGCAGCTGCCTGACCTCCAAGAGGTGATCAATTACTTGGTATCGTGTCCAGCAGAGCCC
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CTGAAGCACCCCTAAATGCTCCCTAAAGACCCTCAGTCTGACCTCTGTGGAGCTGAGTGAAGACTCACTGA
GGGATCTTCAAGCTGTGAAGACATCAAAGCCAGATCTGTCCATCATATATTCAAAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG224259 representing NM_001081389
 Red=Cloning site Green=Tags(s)

MDAAGASCSSVDAVARELLMATLEELSQEQLKFRHKLKRDAPLDGRSIPWGLRERSDAVDLVDKLIEFYE
 PVPAVEMTRQVLKRSDIRDVASRLKQQQLQKLQKLGPTSVLLSVSAFKKKYREHVLROHAKVKERNARSVKIN
 KRFTKLLIAPGTGADELLGPLGEPEPERARRSDTHTFNRLFRGNDEESSQPLTVVLQGPAGIGKTMMA
 KKILYDWAAGKL YHSQVDFAFFMPCGELLERPGKRSADLVLDQCPDRAWPVKRI LAQPNRLLFILDGAD
 ELPTLPSSEATPCKDPLEATSGLRVLSGLLSQELLPGARLLVTRHAATGRLQGRLCSPQCAEIRGFSDK
 DKKKYFFKFRDERKAERAYRFVKENETLFCVFPVFCWIVCTVLQQQLELGRDLSRTSKTTTSVYLLF
 ITSMLKSAGTNGPRVQGELRTLCLAREGILDHKAQFSEEDLEKLLRGSQVQIFLNKKEIPGVKTE
 VTYQFIDQSFQFLAALSYLEAERTPGTPAGGVQKLLNSDAELRGHLALTTRFLFGLLNTEGLRDIGNH
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 VRQALSSLPEIVLERVRLTRMDLEVLNYCVQCCPDGQALRLVSCGLVAAKEKKKKKSLVKRLKGSVTGT
 NLVLSLYSSQSTKKQPPVSLRPLCETMTTPKCHLSVLILSHCRLPDAVCRDLSEALKVAPALREGLLQ
 SRLTNTGLRLLCEGLAWPKCQVKTLMQLPDLQEVINYLVIVLQQSPVLTTLDLSGCQLPGVIVEPLCAA
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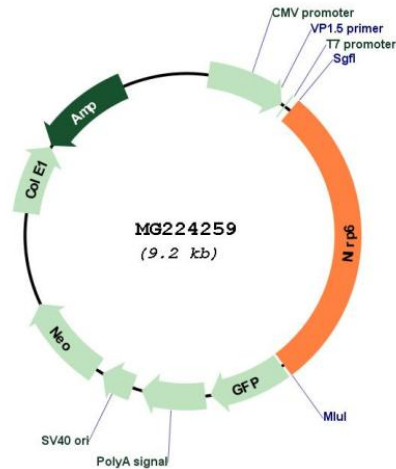
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001081389

ORF Size: 2646 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_001081389.1](#), [NP_001074858.1](#)

RefSeq Size: 3823 bp

RefSeq ORF: 2649 bp

Locus ID: 101613

Cytogenetics: 7 F5

Gene Summary:

The protein encoded by this gene binds arginine-vasopressin and may be involved in the arginine-vasopressin-mediated regulation of renal salt-water balance. The encoded protein also mediates inflammatory responses in the colon to allow recovery from intestinal epithelial damage and protects against tumorigenesis and the development of colitis. Finally, this protein can increase activation of NF-kappa-B, activation of CASP1 through interaction with ASC, and cAMP accumulation. [provided by RefSeq, Feb 2013]