

Product datasheet for **MR231291**

Nlrp6 (NM_133946) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nlrp6 (NM_133946) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nlrp6
Synonyms:	A1504961; Avr; N; Nalp6; Navr; Navr/Avr; Non-AVR; Pypaf5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>MR231291 representing NM_133946
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGATGCCGCTGGAGCCTCCTGCTCCAGCGTGGATGCAGTGGCAAGGGAGCTGCTTATGGCTACACTGG
 AGGAGCTGAGCCAGGAGCAGCTGAAGCGCTTCCGCCACAAGCTAAGGGATGCGCCCTGGATGGCCGAG
 CATCCCGTGGGGGCGACTGGAGCGCTCAGACGCTGTGGACCTTGTGACAAGCTCATTGAGTTCTATGAG
 CCAGTGCCAGCTGTAGAAATGACCCGGCAGGTCCTGAAGAGGTCGGATATTCGAGATGTGGCCTCGCGAC
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 AAGCGTTCACCAAGCTGCTCATCGCTCCGGGACCGGCGCTGTGGAGGACGAGCTGTGGGGCCGTTGG
 GGGAGCCGGAGCCGAACGCGCTCGGCGCTCGGACACGCACACTTTAATCGGCTTCCGGGAAATGA
 TGAAGAGAGCTCGCAGCCGCTGACCGTGGTGTGTCAGGGCCCGCAGGCATCGGCAAAACCATGGCCGCC
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 CGTGGCGCGAGCTGCTGGAGCGGCCGGAAAGCGCAGCTTGGCGGACCTGGTGTGGACAGTGCCCGGA
 CCGCGCTTGGCCAGTGAAGCGGATACTGGCGCAACCCAATCGCCTACTGTTTCATCCTGGACGGTGCAGAC
 GAGCTGCCTACTTTACCATCCTCAGAGGCCACTCCCTGCAAAGACCCCTTGGAGGCTACAAGTGGCTTGA
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 GTCACCTACCAGTTCATTGACCAGAGCTCCAGGAGTTCCTGGCTGCATTGTACCTACTAGAAGCTG
 AGCGAACTCCGGGACGCCCCGAGGCGGTGTGAGAAGCTCCTGAACTCTGACCGGAGCTACGTGGTCA
 TCTTGCCTGACCAACCCGATTCTTTGGCTGCTAAATACAGAGGGGCTTCGTGACATTGAAACCAT
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 CCATCATATATTCAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231291 representing NM_133946
 Red=Cloning site Green=Tags(s)

MDAAGASCSSVDAVARELLMATLEELSQEQLKFRHKL RDAPLDGRSIPWGLRERSDAVDLVDKLIEFYE
 PVPAVEMTRQVLKRSDIRDVASRLKQQQLQKLGPTSVLLSVSAFKKKYREHVL RQHAKVKERNARSVKIN
 KRFTKLLIAPGTGA VEDELLGPLGEPEPERARRSDTHTFNRLFRGNDEESSQPLTVV LQGPAGIGKTMAA
 KKILYDWAAGKLYHSQVDFAFFMPCGELLERPGKRS LADLVLDQCPDRAWPVKRI LAQPNRLLFILDGAD
 ELPTLP SSEATPCKDPLEATSGLRVLSGLLSQELLPGARLLV TTRHAATGRLQGRLCSPQCAEIRGFSDK
 DKKKYFFKFFRDERKAERAYRFVKENETL FALCFVPFVCWIVCTVLQQQLELGRDLSRTSKTTTSVYLLF
 ITSMLKSAGTNGPRVQGELRTL CRLAREGILDH HKAQFSEEDLEK LKL RGSQVQTI FLNKKEIPGV LKTE
 VTYQFIDQSFQEF LAALSYLLEAERTPGTPAGGVQKLLNSDAELRGHLAL TTRFLFGLLNTEGLRDI GNH
 FGCVVPDHVKKD TLRWVQGQSHPKGPPV GAKKTA ELEDIEDAEEEEEEEDLNFGLELLYCLYETQEEDF
 VRQALSSLPEIVLERVRLTRMDLEVLNYCVQCCPDGQALRLVSCGLVAAKEKKKKKSLVKRLKGSQSTK
 KQPPVSLLRPLCETMTTPKCHLSVLILSHCR LPAVCRDLSEALKVAPALRELG LLSQRLTNTGLRLLCE
 GLAWPKCQVKTLRMQLPDLQEVINYLVIVLQQSPVLT TLDLSGCQLPGVIVEPLCAALKHPKCSLKTLSL
 TSVELSENSLRDLQAVKTSKPDLSIIYSK

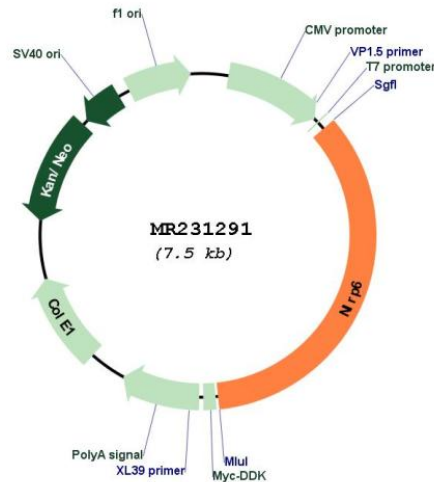
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_133946

ORF Size: 2607 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_133946.2](#), [NP_598707.2](#)

RefSeq Size: 4438 bp

RefSeq ORF: 2610 bp

Locus ID: 101613

UniProt ID: [Q91WS2](#)

Cytogenetics: 7 F5

MW: 97.9 kDa

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]