

Product datasheet for MC223552

Nlrp5 (NM_001039143) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nlrp5 (NM_001039143) Mouse Untagged Clone
Tag: Tag Free
Symbol: Nlrp5
Synonyms: Mat; Mater; N; Nalp5; O; Op1; PAN11
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223552 representing NM_001039143
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGTCTCCAGAAAAAGAAAGTAAAGCAATCTTGAAGCACGTGGATTGGAAGAGGAACAGAAGTCAG
 AAAGAAAAATGACTTCTCCAGAAAACGACAGTAAATCAATCCAGAAAGACCAAGGACCAGAGCAGGAGCA
 GACATCAGAAAGCACAATGGGTCTCCAGAAAAAGACAGTAAAGCAATCTTGAAGCACGTGGATTGGAA
 GAGGAACAGAAGTCAGAAAGCACAATGTCTCCTTCAGAAAATGTAGTAGAGCAATCCTGAAAGACAGTG
 GATCAGAAAGAAGTGAACAGGCGTCAGAAAGAAAAATGACTTCTCCAGAAAACGACAGTAAATCAATCCA
 GAAAGACCAAGGACCAGAGCAGGAGCAGACATCAGATAATGGAGGTGACTTACAAGACTACAAGGCCAT
 GTGATTGCTAAGTTCGACACAAGTGTGGATCTACACTATGACAGCCCAGAGATGAAATTATTGTCTGATG
 CTTTTAAACCATACCAGAAAACCTTCCAGCCTCACACCATTATCCTACATGGAAGACCAGGAGTTGGAA
 GTCAGCTTTGGCCAGAAGTATTGTTCTTGGCTGGGCACAGGTAAGTCTTCCAAAAATGTCCTTTGTC
 ATCTTCTCTCTGTTAGAGAAAATAAGTGGACAGAGAAGAGCAGTTTGGCACAGCTGATTGCTAAGGAGT
 GTCCAGACTCCTGGGATCTAGTGACAAAGATCATGTCCCAACCAGAAAGACTCTTGTGTTGTCATAGATGG
 CTTGGATGATATGGACTCTGTCCCAACATGATGATATGACACTATCCAGAGACTGGAAGGATGAACAG
 CCCATATACATCCTGATGTACAGCCTCCTGAGGAAGGCTCTCCTACCTCAGTCCCTTCTCATCATTACCA
 CCAGAAACACAGGCTTAGAAAACTCAAGTCAATGGTTGTGCCCCCTCTATATACTGGTTGAAGGACT
 GTCTGCATCAAGGAGATCTCAGCTGGTCTCGAGAACATCTCCAATGAGTCTGATAGAATACAAGTCTTC
 CATTCTCTGATAGAAAATCACCAGCTGTTTGACCAATGCCAGGCCCTCTGTGTGCTCCCTGGTCTGTG
 AGGCTCTACAGCTACAGAAGAACTGGGAAAGAGATGCACCCTACCCTGCCAGACTCTCACCAGTTTGTG
 TGCCACGTTGGTGTTCACCAGCTCACCTTGAAGGCTTCCCAGAGCGCTCTCAGTCAGGAAGAACAG
 ATTACTCTAGTGGTTTTGTCATGATGGCAGCTGAAGGAGTGTGGACCATGAGGTCGGTGTCTATGATG
 ATGACCTGAAGAACTATAGCCTAAAGGAGTCTGAGATCTTGGCCCTCTTTCACATGAACATCCTTCTCCA
 GGTTGGCCACAACAGTGAGCAGTGTATGTTTTCTCCACCTCAGCCTGCAGGATTTCTTTGCTGCCTTA
 TATTATGTTTTAGAAGGCTGGAGGAATGGAATCAGCATTTTTGCTTCATTGAAAACCAAGGAGCATCA



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TGGAGGTGAAGAGAACTGACGACTCGCCTCCTCGGGATGAAGCGTTTCTTATTTGGCCTCATGAACAA
 GGATATCTTGAAGACTCTGGAGTTCTGTTTGAATATCCCGTGATTCCAAGTGTGAGCAGAAGCTCCAA
 CACTGGGTCTCTGATAGCTCAGCAGGTCAATGGCACCAGCCCAATGGACACCTGGATGCCTTCTATT
 GTCTATTTGAGTCTCAGGATGAAGAGTTTGTGGCGGGCTCTCAAACGTTCCAAGAAGTGTGGCTGCT
 GATTAACCAGAAGATGGACTTGAAGTCTTCTCTACTGTCTCAAGCACTGTCAGAACTTGAAGGCAATC
 CGGGTGGATATCAGAGACCTCCTCTCGGTAGATAATACTCTCGAGCTGTGCCCTGTTGTTACTGTCCAGG
 AGACACAATGTAAGCCCCTCCTCATGGAGTGGTGGGAAACTTCTGCTCTGTGCTTGGCAGCCTCCGGAA
 CTTGAAGGAGCTGGACTTGGGCGACAGCATCCTGAGTCAACGGCCATGAAGATACTGTGCCTCGAGCTG
 CGGAATCAGTCTGCAGAATACAGAAGCTGACGTTTAAAGAGTGCAGAGGTAGTGTCTGGCCTGAAACATC
 TCTGGAAGCTCCTTTTTAGCAATCAAACTTAAAGTACCTCAATCTAGGGAACACTCCCATGAAGGATGA
 TGACATGAAGTTAGCCTGCGAAGCGCTGAAACATCCAAAGTGTCCGTGGAGACTCTGAGTTGGATTCC
 TGTGAGTTAACCATATTGTTATGAGATGATCTCCACGTTCTTATTTCAACCACCAGGCTAAAGTGC
 TCAGCCTGGCCAAAAATAGAGTGGGAGTAAAAAGCATGATATCCCTTGGGAATGCCTTGAGTAGCTCAAT
 GTGTCTACTGAAAAGTTGATACTGGACAACCTGTGGCCTCACACCTGCCAGCTGCCACCTTCTGGTCTCA
 GCCTTTTTCAGCAACCAGAACTTACACACCTGTGCCTGTCAAACAACAGCCTGGGGACTGAAGGAGTGC
 AACAGCTGTGTCAGTTCCCTGAGGAATCCAGAATGTGCTCTCCAGCGGCTGATACTGAATCACTGCAACAT
 TGTAGATGATGCTTATGGCTTCCCTGGCAATGAGACTTGCAACAACACAAAGCTGACCCACCTGAGCCTG
 ACCATGAACCCCGTAGGGGATGGTGAATGAAGCTACTGTGTGAAGCTTTAAAGGAACCTACTTGTTACC
 TTCAAGAAGTGGAACTAGTGGACTGCCAACTCACACAGAAGTGTGCGAGGACCTGGCCTGTATGATCAC
 AACAAACCAAGCACTTAAAAAGTTTGGATCTTGGTAACAACGCCCTGGGTGACAAAGGAGTCATAACCCTG
 TGTGAGGGACTGAAGCAAAGTAGCAGCTCCCTGAGGAGACTTGGGTTGGGGCATGTAAGTTGACTTCCA
 ATTGCTGTGAGGCATTGTCATTGGCCATCTCTTGAACCCCTCACCTGAACAGCCTAAACCTGGTGAAGAA
 TGACTTCAGTACATCGGGGATGTTGAAGCTGTGCTCTGCGTCCCAATGCCCTGTCTAACCTGGGGAATA
 ATTGGCCTGTGGAAGCAGGAGTACTATGCCCGAGTGAGAAGACAGCTGGAGGAAGTTGAGTTTGTCAAGC
 CCCACGTGGTGATTGATGGTGATTGATGCTAGTGATGAAGATGACCGAAACTGGTGGAAAAACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001039143

Insert Size:

3288 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001039143.2](#), [NP_001034232.1](#)

RefSeq Size: 3473 bp

RefSeq ORF: 3288 bp

Locus ID: 23968

UniProt ID: [Q9R1M5](#)

Cytogenetics: 7 10.22 cM

Gene Summary: This gene encodes a member of the NACHT, leucine-rich repeat, and pyrin domain containing family. Members of this family have a pyrin domain at the N-terminus, a central NACHT domain, and a C-terminal leucine-rich repeat domain. This gene encodes a maternal-effect factor that is essential for early embryonic development in the mouse. Homozygous null mutant females are sterile, and embryos die following the first cleavage. This gene is required for endoplasmic reticulum redistribution and calcium homeostasis in oocytes. In addition, ovulated oocytes mutant for this gene have abnormal mitochondrial localization and increased mitochondrial activity, which results in mitochondrial damage and early embryonic lethality. Pseudogenes of this gene have been found on chromosomes 7 and 12. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]
Transcript Variant: This variant (2) lacks an exon in the 5' coding region compared to variant 1. It encodes isoform b, which is shorter than isoform a.