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Product datasheet for MC223583

Nlrp5 (NM_011860) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nlrp5 (NM_011860) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nlrp5
Synonyms:	Mat; Mater; N; Nalp5; O; Op1; PAN11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC223583 representing NM_011860
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGTCCTCCAGAAAAAGAAAGTAAAGCAATCTTGAAAGCACGTGGATTGGAAGAGGAACAGAAGTCAG
AAAGAAAAATGACTTCTCCAGAAAACGACAGTAAATCAATCCAGAAAGACCAAGGACCAGAGCAGGAGCA
GACATCAGAAAGCACAATGGGTCCTCCAGAAAAAGACAGTAAAGCAATCTTGAAAGCACGTGGATTGGAA
GAGGAACAGAAGTCAGAAAGCACAATGTCTCCTTCAGAAAATGTCAGTAGAGCAATCCTGAAAGACAGTG
GATCAGAAGAAGTGGAACAGGCGTCAGAAAGAAAAATGACTTCTCCAGAAAACGACAGTAAATCAATCCA
GAAAGACCAAGGACCAGAGCAGGAGCAGACATCAGAAACCTTACAATCTAAGGAAGAAGATGAAGTGACA
GAGGCAGATAAAGATAATGGAGGTGACTTACAAGACTACAAGGCCCATGTGATTGCTAAGTTCGACACAA
GTGTGGATCTACACTATGACAGCCCAGAGATGAAATTATTGTCTGATGCTTTTAAACCATACCAGAAAAC
CTTCCAGCCTCACACCATTATCCTACATGGAAGACCAGGAGTTGGGAAGTCAGCTTTGGCCAGAAGTATT
GTTCTTGGCTGGGCACAGGGTAAACTCTTCCAAAAAATGTCCTTTGTCATCTTCTTCTCTGTTAGAGAAA
TAAAGTGGACAGAGAAGAGCAGTTTGGCACAGCTGATTGCTAAGGAGTGTCCAGACTCCTGGGATCTAGT
GACAAAGATCATGTCCCAACCAGAAAGACTCTTGTTTGTCATAGATGGCTTGGATGATATGGACTCTGTC
CTCCAACATGATGATATGACACTATCCAGAGACTGGAAGGATGAACAGCCCATATACATCCTGATGTACA
GCCTCCTGAGGAAGGCTCTCCTACCTCAGTCCTTTCTCATCATTACCACCAGAAACACAGGCTTAGAAAA
ACTCAAGTCAATGGTTGTGTCCCCCCTCTATATACTGGTTGAAGGACTGTCTGCATCAAGGAGATCTCAG
CTGGTCCTCGAGAACATCTCCAATGAGTCTGATAGAATACAAGTCTTCCATTCTCTGATAGAAAATCACC
AGCTGTTTGACCAATGCCAGGCCCCCTCTGTGTGCTCCCTGGTCTGTGAGGCTCTACAGCTACAGAAGAA
ACTGGGAAAGAGATGCACCCTACCCTGCCAGACTCTCACCGGTTTGTATGCCACGTTGGTGTTTCACCAG
CTCACCTTGAAAAGGCCTTCCCAGAGCGCTCTCAGTCAGGAAGAACAGATTACTCTAGTGGGTTTGTGCA
TGATGGCAGCTGAAGGAGTGTGGACCATGAGGTCGGTGTTCTATGATGATGACCTGAAGAACTATAGCCT
AAAGGAGTCTGAGATCTTGGCCCTCTTTCACATGAACATCCTTCTCCAGGTTGGCCACAACAGTGAGCAG

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TGTTATGTTTTCTCCCACCTCAGCCTGCAGGATTTCTTTGCTGCCTTATATTATGTTTTAGAAGGGCTGG
AGGAATGGAATCAGCATTTTTGCTTCATTGAAAACCAAAGGAGCATCATGGAGGTGAAGAGAACTGACGA
CACTCGCCTCCTCGGGATGAAGCGTTTCTTATTTGGCCTCATGAACAAGGATATCTTGAAGACTCTGGAG
GTTCTGTTTGAATATCCCGTGATTCCAACTGTTGAGCAGAAGCTCCAACACTGGGTCTCTCTGATAGCTC
AGCAGGTCAATGGCACCAGCCCAATGGACACCCTGGATGCCTTCTATTGTCTATTTGAGTCTCAGGATGA
AGAGTTTGTTGGCGGGGCTCTCAAACGCTTCCAAGAAGTGTGGCTGCTGATTAACCAGAAGATGGACTTG
AAGGTCTCTTCCTACTGTCTCAAGCACTGTCAGAACTTGAAGGCAATCCGGGTGGATATCAGAGACCTCC
TCTCGGTAGATAATACTCTCGAGCTGTGCCCTGTTGTTACTGTCCAGGAGACACAATGTAAGCCCCTCCT
CATGGAGTGGTGGGGAAACTTCTGCTCTGTGCTTGGCAGCCTCCGGAACTTGAAGGAGCTGGACTTGGGC
GACAGCATCCTGAGTCAACGGGCCATGAAGATACTGTGCCTCGAGCTGCGGAATCAGTCCTGCAGAATAC
AGAAGCTGACGTTTAAGAGTGCAGAGGTAGTGTCTGGCCTGAAACATCTCTGGAAGCTCCTTTTTAGCAA
TCAAAACTTAAAGTACCTCAATCTAGGGAACACTCCCATGAAGGATGATGACATGAAGTTAGCCTGCGAA
GCGCTGAAACATCCAAAGTGCTCCGTGGAGACTCTGAGGTTGGATTCCTGTGAGTTAACCATCATTGGTT
ATGAGATGATCTCCACGCTTCTTATTTCAACCACCAGGCTAAAGTGTCTCAGCCTGGCCAAAAATAGAGT
GGGAGTAAAAAGCATGATATCCCTTGGGAATGCCTTGAGTAGCTCAATGTGTCTACTGCAAAAGTTGATA
CTGGACAACTGTGGCCTCACACCTGCCAGCTGCCACCTTCTGGTCTCAGCCCTTTTCAGCAACCAGAACT
TGACACACCTGTGCCTGTCAAACAACAGCCTGGGGACTGAAGGAGTGCAACAGCTGTGTCAGTTCCTGAG
GAATCCAGAATGTGCTCTCCAGCGGCTGATACTGAATCACTGCAACATTGTAGATGATGCTTATGGCTTC
CTGGCAATGAGACTTGCAAACAACACAAAGCTGACCCACCTGAGCCTGACCATGAACCCCGTAGGGGATG
GTGCAATGAAGCTACTGTGTGAAGCTTTAAAGGAACCTACTTGTTACCTTCAAGAACTGGAACTAGTGGA
CTGCCAACTCACACAGAACTGCTGCGAGGACCTGGCCTGTATGATCACAACAACCAAGCACTTAAAAAGT
TTGGATCTTGGTAACAACGCCCTGGGTGACAAAGGAGTCATAACCCTGTGTGAGGGACTGAAGCAAAGTA
GCAGCTCCCTGAGGAGACTTGGGTTGGGGGCATGTAAGTTGACTTCCAATTGCTGTGAGGCATTGTCATT
GGCCATCTCTTGCAACCCTCACCTGAACAGCCTAAACCTGGTGAAGAATGACTTCAGTACATCGGGGATG
TTGAAGCTGTGCTCTGCGTTCCAATGCCCTGTCTCTAACCTGGGGATAATTGGCCTGTGGAAGCAGGAGT
ACTATGCCCGAGTGAGAAGACAGCTGGAGGAAGTTGAGTTTGTCAAGCCCCACGTGGTGATTGATGGTGA
TTGGTATGCTAGTGATGAAGATGACCGAAACTGGTGGAAAAACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_011860
Insert Size:	3336 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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_011860.3, NP_035990.1
RefSeq Size:	3521 bp
RefSeq ORF:	3336 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 (1) represents the longest transcript and encodes the longest isoform (a).