

Product datasheet for MC223405

Nlrp12 (NM_001033431) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nlrp12 (NM_001033431) Mouse Untagged Clone
Tag: Tag Free
Symbol: Nlrp12
Synonyms: Nalp12; PYPAF7
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223405 representing NM_001033431
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTTGCCGTCTACAGCCAGGGATGGCCTCTATCGACTGTCTACCTACCTGGAAGAACTCGAGGCTGGGG
 AACTGAAGAAATTCAAATTTCTGGGATTGCAGAGGACCTGAGCCAGGACAAAATTCCTGGGGACG
 AATGGAGAAGGCTGGTCTCTGGAAATGGCTCAGCTGATGGTGGCCACATGGGGACAAGGGAGGCTTGG
 CTTCTGGCTCTCAGCACCTTTCAGAGGATTCACAGGAAGGACCTGTGGGAGCGAGGACAGGGAGAAGACC
 TGGTGAGGGTCACTCCAATAATGGTCTATGCCTTTTGGAGCCAATCAGCGTGCCCTTTGGATGTCTC
 TCCCAATGCTCCAAGAAAAGATCTACAGACAACCTACAAAGACTATGTCCGAAGGAAATTCAGCTAATG
 GAAGACCGCAATGCACGATTAGGCGAATGTGTGAACCTGAGCAATCGTTACACTCGGCTTCTCCTAGTAA
 AAGAACACTCAAATCCTATCTGGACACAGCAGAAATTTGTAGATGTAGAGTGGGAACGCTCCAGAACCAG
 GCGTCACCAGACTAGTCTATCCAATGGAGACCCTCTTTGAGCCAGACGAAGAACGCCCGAGCCACCA
 CACACAGTGGTATTACAAGGGGCAGCGGGATGGGAAGTCCATGCTGGCCACAAGTGATGTTGGACT
 GGGCCGATGGGAGGCTCTCCAAGCCGGTTTGATTATGTCTTATATCAGCTGCAGGGAGTTGAATAG
 AAGCCACACCCAGTGCAGTGTACAAGACCTCATCTCCAGCTGCTGGCCGAGCGTGGTATATCCCTCGAA
 GACCTCATGCAGGCTCCTGACCGTCTCCTATTCATCATTGATGGCTTCGATAAACTCCATCCTTCTTTCC
 ATGATGCTCAGGGTCCCTGGTGCCTGCTGGGAGGAGAAAACAACCTACTGAAGTCTCCTCGGAAGTCT
 GATTCGGAGGTTGCTTCTGCCAGGTCTCTGCTCATCACCACAGACCCTGTGCACTGGAGAAGCTG
 CACGGCTTGCTAGAACACCCAGGCACGTGGAGATCCTGGGCTTCTCCGAGGAAGCTAGGAAGGAATATT
 TCTACAGATATTTCCACAACACTGGACAAGCAAGCCGGGTGTTAAGCTTCTTGATGGACTATGAGCCCT
 CTTTACCATGTGTTTGTCCATGGTGTCTGGTGGTCTGCACCTGCCTAAAGCAGCAGCTGGAAAGT
 GGGGAGCTTTTAAGACAAACACCTAGGACCACCACAGCTGTTTATATGTTCTACCTTCTGAGCCTGATGC
 AGCCCAAGCCAGGACTCCAACCTTCAAAGTCCCAGCCAACCAGAGAGGCTGGTCTCTGGCTGCAGA
 GGGCCTCTGGAATCAGAAGATTCTATTTGATGAACAGGATCTTGGGAAACACGGCCTAGATGGAGCAGAT
 GTGTCCACTTTCCTCAACGTGAACATATTCAGAAGGGTATCAAATGTGAGAAATTTACAGCTTCATCC



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ACCTGAGTTTCCAGGAATTCTTCGCAGCCATGTAAGTGTGCACTGAATGGCAGAGAGGCGGTGAGGAGAGC
GCTGGCTGAGTATGGTTTTTCGAAAGGAACCTTGGCCCTCACGGTCCACTTTCTGTTTGGCCTCCTC
AACGAAGAGATGAGATGCTACCTTGAGAGGAATCTCGGCTGGAGCATCTCCCTCAGGTGAAGGAGGAAG
TGTTGGCATGGATCCAAAACAAGGCTGGGAGTGAAGGCTCCACCTGCAGCATGGCTCCCTGGAGCTACT
CAGCTGCTTGTATGAGGTCCAGGAGGAGGACTTCCATCCAGCAGGCCCTGAGCCACTTTCAAGTGGTTGTA
GTCAGAAGCATCTCAACAAGATGGAGCACATGGTCTGCTCGTTTTGTGCGAGGTATTGCAGAAGTACAG
AAGTGTTCACCTTGCAATGGGAGTGCTTATAGTACAGGCATGGAGGACGACCCACAGAACCTTCAGGAGT
CCAGACTCAGTCCACATACTTACAGGAAAGGAACATGCTGCCTGATGTCTACAGTGCATACCTTTACAGCA
GCTGTCTGTACCAACTCCAACCTGATCGAGCTGGCCTTATACCGAAATGCCTTGGCAGCCAGGGTGTA
GGCTGCTCTGTCAAGGCCTCCGACATGCCAGCTGCAAGCTGCAGAACCTGAGGCTGAAGAGGTGTGAGAT
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AGTGACAACAGCATTGGGGTCCAGGCCTGGAGCTGCTCTGTGAGGGGCTGCAGCACCCAGGTGTAGGC
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CAACAACCTCATATCTGGTAGAAGTGGATCTGACAGGAAACCCCTTGAAGATTGGGGCTGAAGTACTG
TGTCAGGGCTAAGGCACCTGTCTGCAGGCTGCGTACCCTGTGGCTGAAGATCTGCCACCTTGACAAG
CTTCTGCGAAGATCTGGCCTTACTCTCAAAATGAACAGAGCCTGCTGGAGCTGGACCTGGGTCTGAA
TGATCTTGGAGATTCTGGGGTGCTTCTGCTGTGTGAAGGCCTCAGTCATCCAGATTGCAAACTCCAGACC
CTTCGGTTGGGCATTTGCCGACTGGGCTCAGTCGCGTGTGTGGGGATCGCCAGTGTGCTCCAGGTCAACA
CATGCCTCCAAGAGCTGGACCTGAGCTTCAATGACTTGGGAGACAGGGGCTGCAGCTGTGGGGGAAGG
CCTGAGGCACAGACCTGCAGACTCCAGAAGCTGTGGCTGGACAACCTGCCGACTCACCTCCAAGCATGT
GAGGACCTTTCTCTATCTGGGAATCAGCCAGACCCTGCATGAGCTTTATTTGACCAATAATGCTCTGG
GGGACACAGGTGTCTGTCTGTGTGCAAGAGGCTGAGGCATCCAGGCTGCAAGCTTCGAGTCTGTGGCT
GTTTGGGATGGACCTGAATAAAAAGACTCACAGGAGGATGGCAGCACTTCGAGTCACAAAACCGTACCTG
GATATTGGGTGTGA
    
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
    
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Restriction Sites:

SgfI-MluI

ACCN:

NM_001033431

Insert Size:

3165 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_001033431.1](#), [NP_001028603.1](#)

RefSeq Size: 4329 bp

RefSeq ORF: 3165 bp

Locus ID: 378425

UniProt ID: [E9Q5R7](#)

Cytogenetics: 7 A1

Gene Summary: Plays an essential role as a potent mitigator of inflammation (PubMed:26521018, PubMed:30559449). Primarily expressed in dendritic cells and macrophages, inhibits both canonical and non-canonical NF-kappa-B and ERK activation pathways (PubMed:30559449). Functions as a negative regulator of NOD2 by targeting it to degradation via the proteasome pathway (PubMed:30559449). In turn, promotes bacterial tolerance (PubMed:30559449). Inhibits also the DDX58-mediated immune signaling against RNA viruses by reducing the E3 ubiquitin ligase TRIM25-mediated 'Lys-63'-linked DDX58 activation but enhancing the E3 ubiquitin ligase RNF125-mediated 'Lys-48'-linked DDX58 degradation (By similarity). Acts also as a negative regulator of inflammatory response to mitigate obesity and obesity-associated diseases in adipose tissue (PubMed:30212649).[UniProtKB/Swiss-Prot Function]