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Product datasheet for MC223160

Nlrp9b (NM_194058) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nlrp9b (NM_194058) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nlrp9b
Synonyms:	Nalp-delta; Nalp9b; Nlrp9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC223160 representing NM_194058
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGGCTCATCTGGCTATGGCTTGCTGAAGCTTCTGCAAAAACTGAGTGATGAGGAGTTCCAGAGAT
TTAAAGAGCTTCTCAGAGAAGAGCCTGAAAAGTTTAAACTCAAACCAATATCCTGGACGAAAATCGAGAA
TTCTTCCAAAGAAAGCCTGGTAACGCTATTGAACACACATTATCCAGGACAGGCATGGAATATGATGTTA
AGCCTGTTTCTACAGGTCAATCGGGAAGACCTCTCAATCATGGCTCAGAAAAAGAAGAGACATAAACAAA
CTAAATACAAAAAGTTTATGAAGACTACATTTGAAAGGATATGGACATTGGAGACCAACACTCATATACC
TGATAGAAACTACCATTTAATTGTAGAAGTCCAGTACAAAGCATTGCAGGAAATATTTGATTCTGAGTCA
GAGCCAGTCACTGCAATTGTAGCAGGTACAACAGGAGAAGGAAAAACCACTTTCTTAAGAAAAGCAATGT
TGGATTGGGCATCAGGAGTTTTACTGCAGAACCGGTTTCAGTATGTTTTCTTCTTCTCTGTCTTCTCACT
TAACAATACCACAGAGTTAAGCTTAGCCGAGCTTATCTCAAGTACGTTGCCTGAATCTTCAGAGACAGTG
GATGATATTTTATCTGATCCAAAAAGAATCTTGTTTATCCTGGATGGATTTGATTACCTGAAATTTGACT
TGGAACTCAGGACAAACTTGTGCAATGACTGGAGGAAGAGGCTGCCAACACAAATCGTCTTGAGTAGTTT
GCTACAGAAAATAATGCTCCCGGGATGTTCTCTGCTTCTTGAATTGGGACAAATAAGTGTACCAAAAATC
CGTCATTTGCTGAAGTATCCAAGGGTGATAACTATGCAAGGATTCTCTGAGCGGTCTGTAGAGTTCTATT
GTATGTCCTTCTTTGATAACCAGAGAGGCATAGAAGTAGCTGAGAATTTAAGGAATAATGAAGTACTCCA
TTTATGCAGCAATCCTTATCTATGCTGGATGTTCTGTAGTTGTTTAAAGTGGCAGTTTGACAGGGAGGAG
GAAGGGTACTTTAAGGCTAAAACAGATGCGGCTTTCTTCACAAACTTTATGGTGAGTGCATTCAAATCAA
CATATGCCCATAGTCCGTCCAAACAGAACAGAGCCCGATTAAAGACCCTGTGTACCTTGGCTGTAGAAGG
AATGTGGAAAGAGTTGTTTGTCTTTGACTCTGAAGATCTCAGGAGGAATGGGATATCTGAATCCGATAAG
GCAGTGTGGCTGAAAATGCAATTTCTCCAGACTCACGGTAACCACACTGTGTTTTATCATCCTACACTAC
AGTCATATTTTGCTGCCATGTTCTATTTCCTCAAACAAGACAAAGACATATGTGTCCCAGTCATTGGAAG
CATACCTCAACTTCTAGGAAACATGTATGCTCGTGGCCAGACCCAGTGGCTCCAGTTAGGCACATTTTTG
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TTTGGACTCATCAATGAACAAGTCGCCGCCTTACTCCAACCATGCTTTGGCTTTATACAACCCATATATG
TAAGACAGGAAATCATTTGTTACTTTAAGTGTCTTGGTCAACAAGAGTGCAATGAGAAACTGGAAAGATC
CCAGACTTTGTTCTCCTGTCTGCGTGACAGCCAGGAGGAAAGATTTGTTAGACAAGTGGTGGATCTACTT
GAAGAAATTACTGTTGATATTAGTAGTTCAGATGTATTATCAGTGACTGCATATGCTCTGCAGAAATCCT
CCAAATTAAAGAAACTTCATCTGCATATACAAAAGACAGTTTTTTCAGAAATCTACTGCCCAGACCATTG
TAAAACAAGAACTTCTATAGGCAAAAGACGAAATACAGCCGAATATTGGAAAACATTATGTGGCATTTTC
TGCAACTTATATGTGTTGGATCTGGACAGCTGTCAGTTCAATAAAAGGGCCATACAGGACCTCTGTAATT
CGATGTCTCCAACTCCTACGGTGCCCCTGACTGCTTTTAAGCTCCAAAGCTTGTCGTGTTCCTTCATGGC
TGACTTTGGAGATGGTTCATTATTTCACACCCTTCTTCAGCTACCTCACCTGAAATACCTGAACCTGTAT
GGCACTTATCTCTCCATGGATGTGACTGAGAAGCTGTGTGCTGCTCTGAGATGCTCAGCATGCAGAGTGG
AGGAGCTGCTGTTGGGTAAATGTGGCATCTCAAGTAAGGCCTGTGGCATAATTGCGATTTCCCTTATCAA
CTCTAAAGTGAAACACCTCTCATTGGTTGAAAATCCCTTGAAGAACAAAGGAGTGATGTCACTGTGTGAA
ATGCTGAAGGATCCAAGCTGTGTCCTGCAGTCACTGATGTTGTCTTACTGCTGCCTCACATTCATTGCCT
GTGGACATCTCTATGAAGCACTTTTGAGCAACAAACACCTCTCCCTGCTTGATCTGGGATCAAATTTCCT
GGAAGATACTGGAGTGAACCTTCTGTGTGAAGCTTTGAAAGATCCAAACTGCACCCTCAAGGAGTTATGG
TTGCCGGGTTGCTTTTTAACTTCACAATGCTGTGAGGAGATCTCGGCTGTCCTCATTTGCAATAGAAATC
TAAAGACCCTGAAACTGGGCAACAATAACATACAAGACACTGGTGTCAGACAGTTATGTGAAGCTCTGAG
TCATCCCAACTGTAACTTGGAGTGTCTTGGGTTAGACCTGTGTGAGTTCACCAGTGACTGTTGTAAGGAC
CTAGCCTTGGCTCTCACCACCTGCAAAACACTGAATAGCTTAAATCTGGACTGGAAAACCTTGGACCACT
CTGGGCTGGTGGTGCTCTGTGAGGCTTTGAATCACAAAAGATGTAACCTGAAGATGCTTGGACTGGACAA
ATCTGCGTTTTCCGAGGAATCACAGACATTACTGCAAGATGTGGAAAAGAAAAATAATAATCTGAATATT
TTGCATCATCCCTGGTTTGAGGCGGAACGCAACAAGAGGGGTACTCGTCTGGTATGGAACAGCAGGAATT
GA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_194058

Insert Size: 3012 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_194058.2, NP_918947.2

RefSeq Size: 3346 bp

RefSeq ORF: 3012 bp

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Locus ID:	243874
UniProt ID:	Q66X22
Cytogenetics:	7 A3
Gene Summary:	As the sensor component of the NLRP9 inflammasome, plays a crucial role in innate immunity and inflammation. In response to pathogens, including rotavirus, initiates the formation of the inflammasome polymeric complex, made of NLRP9, PYCARD and CASP1. Recruitment of proCASP1 to the inflammasome promotes its activation and CASP1-catalyzed IL1B and IL18 maturation and release in the extracellular milieu. The active cytokines stimulate inflammatory responses. Inflammasomes can also induce pyroptosis, an inflammatory form of programmed cell death. NLRP9 inflammasome activation may be initiated by DHX9 interaction with viral double-stranded RNA (dsRNA), preferentially to short dsRNA segments. [UniProtKB/Swiss-Prot Function]

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