

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
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223160 representing NM_194058 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGGCTCATCTGGCTATGGCTTGCTGAAGCTTCTGCAAAAAGTCTGAGTGATGAGGAGTTCAGAGAT
TTAAAGAGCTTCTCAGAGAAGAGCCTGAAAAGTTAAACTCAAACCAATATCCTGGACGAAAATCGAGAA
TTCTTCCAAAGAAAGCCTGGTAACGCTATTGAACACACATTATCCAGGACAGGCATGGAATATGATGTTA
AGCCTGTTTCTACAGGTCAATCGGGAAGACCTCTCAATCATGGCTCAGAAAAAGAAGAGACATAAACAAA
CTAAATACAAAAAGTTTATGAAGACTACATTTGAAAGGATATGGACATTGGAGACCAACACTCATATAACC
TGATAGAAAACACCATTTAATTGTAGAAGTCCAGTACAAAGCATTGCAGGAAATATTTGATTCTGAGTCA
GAGCCAGTCACTGCAATTGTAGCAGGTACAACAGGAGAAGGAAAAACCACTTTCTTAAGAAAAGCAATGT
TGGATTGGGCATCAGGAGTTTTACTGCAGAACCGGTTTCAGTATGTTTTCTTCTCTGTCTTCTCACT
TAACAATACCACAGAGTTAAGCTTAGCCGAGCTTATCTCAAGTACGTTGCCTGAATCTTCAGAGACAGTG
GATGATATTTTATCTGATCCAAAAAGAATCTTGTTTATCCTGGATGGATTTGATTACCTGAAATTTGACT
TGGAACTCAGACAAAATTTGCAATGACTGGAGGAAGAGGCTGCCAACACAAAATCGTCTTGAGTAGTTT
GCTACAGAAAATAATGCTCCCGGATGTTCTCTGCTTCTTGAATTGGGACAAAATAAGGTACCAAAAATC
CGTCATTTGCTGAAGTATCCAAGGGTGAATAACTATGCAAGGATTCTCTGAGCGGTCTGTAGAGTTCTATT
GTATGTCTTCTTTGATAACCAGAGAGGCATAGAAGTAGCTGAGAATTTAAGGAATAATGAAGTACTCCA
TTTATGCAGCAATCCTTATCTATGCTGGATGTTCTGTAGTTGTTTAAAGTGGCAGTTTGACAGGGAGGAG
GAAGGGTACTTTAAGGCTAAAACAGATGCGGCTTTCTTCAAAAATTTATGGTGAGTGCATTCAAATCAA
CATATGCCATAGTCCGTCCAAACAGAACAGAGCCCGATTAAGACCCTGTGTACCTGGCTGTAGAAGG
AATGTGAAAAGAGTTGTTGTCTTTGACTCTGAAGATCTCAGGAGGAATGGGATATCTGAATCCGATAAG
GCAGTGTGGCTGAAAATGCAATTTCTCCAGACTCACGGTAACCACACTGTGTTTTATCATCTACACTAC
AGTCATATTTTGCTGCCATGTTCTATTTCTCAAACAAGACAAAAGACATATGTGTCCAGTCATTGGAAG
CATACTCAACTCTAGGAAACATGTATGCTCGTGCCAGACCCAGTGGCTCCAGTTAGGCACATTTTTG
TTTGGACTCATCAATGAACAAGTCGCCGCTTACTCCAACCATGCTTTGGCTTTATACAACCCATATATG



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TAAGACAGGAAATCATTGTACTTTAAGTGTCTTGGTCAACAAGAGTGAATGAGAACTGGAAAGATC
 CCAGACTTTGTTCTCCTGTCTGCGTGACAGCCAGGAGGAAAGATTTGTTAGACAAGTGGTGGATCTACTT
 GAAGAAATTAAGTGTGATATTAGTAGTTTCAAGTGTATTATCAGTGACTGCATATGCTCTGCAGAAATCCT
 CCAAAATTAAGAACTTCATCTGCATATACAAAAGACAGTTTTTTTCAGAAATCTACTGCCAGACCATTG
 TAAAACAAGAACTTCTATAGGCAAAAGACGAAATACAGCCGAATATTGAAAAACATTATGTGGCATTTC
 TGCAACTTATATGTGTTGGATCTGGACAGCTGTCAAGTTCATAAAAAGGGCCATACAGGACCTCTGAATT
 CGATGTCTCCAACCTACGGTGCCCTGACTGCTTTTTAAGCTCCAAAGCTTGTCTGTTCCCTTCATGGC
 TGACTTTGGAGATGGTTCAATTATTTACACCCTTCTTCAGTACCTCACCTGAAATACCTGAACCTGTAT
 GGCACCTATCTCTCCATGGATGTGACTGAGAAGCTGTGTGCTGCTGAGATGCTCAGCATGCAGAGTGG
 AGGAGCTGCTGTTGGTAAATGTGGCATCTCAAGTAAGGCCTGTGGCATAATTGCGATTTCCCTTATCAA
 CTCTAAAGTGAACACCTCTCATTGGTTGAAAATCCCTTGAAGAACAAGGAGTGTACTGCTGTGAA
 ATGCTGAAGGATCCAAGCTGTCTGCTGAGTCACTGATGTTGTCTTACTGCTGCCTCACATTCATTGCT
 GTGGACATCTCTATGAAGCACTTTGAGCAACAAACACCTCTCCCTGCTGATCTGGGATCAAATTTCT
 GGAAGATACTGGAGTGAACCTTCTGTGTGAAGCTTTGAAAGATCCAAACTGCACCCTCAAGGAGTTATGG
 TTGCCGGTGTCTTTTAACTTCACAATGCTGTGAGGAGATCTCGGCTGTCTCATTGCAATAGAATC
 TAAAGACCTGAAACTGGCAACAATAACATACAAGACACTGGTGTGAGAGATGATGTGAAGCTCTGAG
 TCATCCCAACTGTAACCTGGAGTGTCTGGGTTAGACCTGTGTGAGTTCACCAGTACTGTTGTAAGGAC
 CTAGCCTTGGCTCTCACCACCTGCAAAACTGAATAGCTTAAATCTGGACTGGAAAACCTTGGACCACT
 CTGGGCTGGTGGTGTCTGTGAGGCTTTGAATCACAAAAGATGTAACCTGAAGATGCTTGGACTGGACAA
 ATCTGCGTTTTCCGAGGAATCACAGACATTACTGCAAGATGTGGAAAAGAAAAATAATAATCTGAATATT
 TTGCATCATCCCTGGTTTGGAGCGGAACGCAACAAGAGGGGTACTCGTCTGGTATGGAACAGCAGGAATT
 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

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]