

Product datasheet for **MC223577**

Nlrc3 (NM_001081280) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nlrc3 (NM_001081280) Mouse Untagged Clone
Tag: Tag Free
Symbol: Nlrc3
Synonyms: CLR16.2; D230007K08Rik; mFLJ00348
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223577 representing NM_001081280
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGC**C

ATGCAGGGGAGCCCTTTAGCACCTGGAGCAGCCACCATGGCAGGAAGGAGACAACATAGGTTCCCCAG
 GGTGAGTCTGGCTCTGTATTCACAACCTCTGGCTGCAAAACAGACTCCACGAGGAAGCAAGAGGTGTG
 GACAGACAGAGACATGCCTGGCTACAGTGTGGCTCCCGAGCTGAGCAGGTGAAAGCCCTTGTGGAT
 CTGCTGGCTGGGAAGGGCAGTCAGCTGCTACAAGTCCGGGACAAAATGCCAGACTCCCCACTAGGATCCC
 AGAGCAATGAGTCAAGGATACCGAAGCACTCTGAGGCTCTGCTGAGCAGGGTGGGAAATGACCCAGA
 AACTGGGCAGCCCTCACACCGGCTGGCCAGCCTCATGCTGGTGGAGGGCTGACAGACCTGCAGCTAAAGGAG
 CATGACTTCACACAGGTGGAGGCCACCGGTGGGGTCTGGCACCCTGCCAGAGTTATCACCTGGACAGGC
 TCTTCTGCCTCTGTCCCGGTATCCATCCACCTCGAGTCTCTCTCACCATTGGAGTGGCTGGTGTGGG
 CAAGACCACGCTAGTGAGGCATTTTGTTCATTGCTGGGCCAGAGGACAGGTGGGCAAGGGCTTCTCACGG
 GTTCTGCCCTTGACCTTTGGGATCTCAACACCTATGAGAACTGTCTGCAGACAGACTCATCAATCCA
 TCTTCTCAAGCATTGGGAAGTGTAGTCTGGTGGCCACAGCCCCAGACAGAGTCCCTGGTCTGGATGG
 CTTGGATGAGTGTAAAGACCCCTGGAATTCCTCAATACCATGGCCTGCTCAGACCCAAAGAGGAGATC
 CAGGTAGACCACCTGATCACTAACATCATCCGAGGCAACCTCTTCCAGAAATTTCTGTCTGGATCACCT
 CCCGGCCAGTCTGCTGGTCTGATCCCTGGGGCCTAGTGGACCGGATGACTGAGATTCGGGGCCTTAC
 TGAGGAAGAGATCAAAGTGTGTCTGGAGCAGATGTTTCTGAGGAGCAGAACCTTTAGGTCAGGTCCTT
 AGTCAAGTGCAGGCCAACAGGGCTCTGTATCTGATGTGCACTGTACCAGCCTTTTGTAGGCTCACGGGGC
 TGGCTCTGGTCACTTGTATCGCACCAGGCTGGCCGTCGAAGACATAGAGCTGCCATTGCCTCAGACCCT
 GTGTGAGCTCTACTCTTGGTACTTTAGGATGGCTCTTGGTGGGAGGGCCAGGATAAGGAAAAGGTAAGT
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 GGCTGGTCAAGAAGAAAATACGTGTTTTATGAACAAGACATGAAGGCATTTGGAGTGGACCTCGCTCTGT
 GCAGAACACTCTGTGCAGCTGTCTCTGACGCGGAAGAGACCCTGGCCTCCTCTGTAGCTTACTGCTTC
 ATTCACCTGTCTCTGCAAGAATTTGTGGCAGCTACATATTACTATAGTGCATCAAGAGGGCCATCTTTG



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ACCTCTTCACCGAGAGTGGCATGTCCTGGCCCAGACTGGGTTTCTCGCCCATTTTCAGGTGTGCAGCCCA
GCGGGCCACACAAGCTAAGGATGGAAGGCTGGATGTGTTTCTGCGCTTCTCTCTGGCCTTTGTCCCA
AGGGTCAATACTCTGCTGGCCGGCTCCCTGTTGTCCCAAGGCGAGCATCAGAGCTACCGGACCAGGTGG
CTGAGGTCTACAAGGCTTCTTCATCTGACGCTGCAGTCTGTGCACGTGCCATCAATGTCTTGTACTG
CCTAAGTGAGCTGCGGCACACAGAAGTGGCCTGCAGTGTGGAGGAGGCCATGCGGAGTGGGACCTTGGCT
GGGATGACCAGCCCCTCACACCGCACTGCTCTGGCCTACCTCCTGCAGATGTCTGACATCTGCTCCCCAG
AGGCTGACTTCTCCCTGTGTCTCAGCCAGCATGTCCTCCAGAGCCTGCTGCCCCAGCTGCTCTATTGTCA
AAGCCTCAGGCTGGACAACAACCAAGTTCAGGACCCCTGTGATGGAGTTGCTGGGCAGCGTGTGAGTGGG
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CCAGATCCCTCTGGTTAACAGAAGCCTCATCAGACTGGACCTCCGGAGTAACAGCATTGGACCACCGGG
GGCTAAGGCTTTGGCCGATGCTCTGAAGATAAACCGAACGCTAACTTCTCTAAGCCTCCAAAGCAACGTG
ATCAAGGATGACGGTGTGATGTGCGTGGCTGAGGCCCTGGTCTCAACCAGACCATCTCCATGCTACAGC
TACAGAAGAAGTAAATGGGCTCATAGGAGCCAGCAGATGGCAGATGCCCTGAAGCAGAACAGGAGCCT
GAAAGCACTCATGTTTTCCAGTAATACCATTGGCGACAGAGGTGCCATAGCCCTGGCTGAGGCCCTGAAG
GTGAACCAGATCTGGAGAAGTACAGCTACAGAGCAATTCATCAGTGACATGGGAGTGACGGTGTGTA
TGCGAGCCCTCTGCAGTAACAGACACTCTCCAGTCTCAACCTGCGAGAAAACCTCATCAGCCCAGAGGG
AGCCCAGGCCCTCACTCAAGCTCTCTGCAGGAACAACACTCTGAAGCACTTGACCTGACAGCTAATCTC
CTCCATGACCGAGGTGCCAGGCCATTGCAGTAGCTGTGGGAGAAAACCACTCCCTCACACACCTTACC
TGCAGTGGAACTTCATCAAGCTGGTGGCCAGGGCCCTGGGACAAGCACTCCAGCTGAACAGAACCTT
GACAACCTTAGACTTACAGGAGAATGCCATAGGGGATGAAGGAGCTTCTCAGTGGTGGCGCACTGAAG
GTGAACACAACCTCATTGCTCTCTACCTACAGGTGGCCTCCATTGGTAGCCAAGGGGCCAGGCACTTG
GGGAGGCCCTCACTGTGAACAGAAGCTTGGAGATTCTTGACTTACGAGGAAACGACGTTGGGCGAGCTGG
AGCCAAGGCCTTGGCAAATGCTTTAAAGTTAACTCCAGTCTCCGAAGACTCAATCTCCAGGAGAAGTCA
CTGGGGATGGATGGGGCCATATTTGTTGCCTTGCACTGTCTGAGAACCACGGTCTGCACCATATTAATC
TCCAGGGGAATCCCATTGGGAGTCTGCTGCCAGGATGATCTCAGAGGCCATCAAGACAACGCTCCCAC
ATGCACTGTGAAATAAA
    
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AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA
    
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- Restriction Sites:** SgfI-RsrII
- ACCN:** NM_001081280
- Insert Size:** 3309 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_001081280.1](#), [NP_001074749.1](#)

RefSeq Size: 4080 bp

RefSeq ORF: 3309 bp

Locus ID: 268857

Cytogenetics: 16 A1

Gene Summary: Negative regulator of the innate immune response. Attenuates signaling pathways activated by Toll-like receptors (TLRs) and the DNA sensor STING/TMEM173 in response to pathogen-associated molecular patterns, such as intracellular poly(dA:dT), but not poly(I:C), or in response to DNA virus infection, including that of Herpes simplex virus 1 (HSV1) (PubMed:22863753, PubMed:24560620). May affect TLR4 signaling by acting at the level of TRAF6 ubiquitination, decreasing the activating 'Lys-63'-linked ubiquitination and leaving unchanged the degradative 'Lys-48'-linked ubiquitination (PubMed:22863753). Inhibits the PI3K-AKT-mTOR pathway possibly by directly interacting with the phosphatidylinositol 3-kinase regulatory subunit p85 (PIK3R1/PIK3R2) and disrupting the association between PIK3R1/PIK3R2 and the catalytic subunit p110 (PIK3CA/PIK3CB/PIK3CD) and reducing PIK3R1/PIK3R2 activation. Via its regulation of the PI3K-AKT-mTOR pathway, controls cell proliferation, predominantly in intestinal epithelial cells (PubMed:27951586). May also affect NOD1- or NOD2-mediated NF-kappa-B activation (By similarity). Might also affect the inflammatory response by preventing NLRP3 inflammasome formation, CASP1 cleavage and IL1B maturation (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.