

## Product datasheet for **MC220382**

### **Nlrp10 (NM\_175532) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nlrp10 (NM_175532) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nlrp10
Synonyms:	6430548I20Rik; Nalp10; Napl10; PAN5; Pynod
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC220382 representing NM\_175532  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCTTGGCACGGCCAACAGCCCCAGGAGGCACTGCTTTGGCCTTGAATGACCTTGAGGAGAACA  
 GTTTCAGAGCGCTGAAGTTCCACTTACGAGATGTGACCCAATTTTCATCTGGCCCCAGGGGAACTGGAGAG  
 TCTGAGTCAGGTGGACCTGGCATCAAACTGATTTCAATGTACGAGCACAGGAAGCCGTGAGAGTGGTG  
 AGCAGGAGCTTGTGGCCATGAACCTTGTAGACTACCTCAACCAGGTTTGTCTGAATGATT  
 ACAGAGAAATCTACCGGAGCATGTGCGCTGCTTGGAGGAGAGGCAAGATTGGGGTGTAAATAGCAGCCA  
 CAATAAGCTGCTCCTGATGGCCACATCCAGTTCAGGGGTCGAGATCACCTTCTGTTCTGACCTGGAA  
 CAGGAGTTGGATCCTGTCGATGTGGAGACTTTATTTGCTCCGGAGGCGGAGTCTACTCAACCCCGCCCA  
 TAGTGGTGTGCAAGGATCTGCGGGCACTGAAAGACAACCTGGTCAAAAACTGGTGCAGGACTGGTC  
 CAAAGGGAAGCTGTACCCAGGCCAGTTTATTGATTGTTTTCTACGTGAGCTGCAGAGAAGTGGTCTGTTA  
 CCCAAGTGTGACCTGCCAACCTCATCTGCTGGTGTGGAGATGATCAAGCCCCAGTCACAGAGATTC  
 TGGCGCAGCCTGGGCGGCTCCTGTTTCATCTGGATGGCTATGATGAGTTACAGAAGTCCAGTCGTGCCGA  
 GTGCGTACTTACATTCTGATGAGGAGAAGGGAGTACCATGCTCCCTTCTCATCACCACGCGGCCCTCCA  
 GCTTTCAGAGTCTGGAACCCATGTTGGGTGAACGGCGACATGTCCTTGTCTTAGGCTTCTCTGAGGAGG  
 AGAGGGAAACATATTTACAGCTCCTGTTTTACGGATAAAGGAGCAATTGAAAAATGCCCTTGAGTTTGTGCA  
 AAACAATGCTGTTCTCTATAAAGCATGCCAGGTTCCAGGCATTTGCTGGGTGGTCTGCTCCTGGCTGAAG  
 AAGAAGATGGCGAGAGGTCAGGAAGTCTCAGAGACACCTAGCAACAGTACAGACATCTTCACTGCTTATG  
 TGTCACCTTTCTGCCACTGATGGCAATGGAGACAGCTGAGCTTACCAGGCACAAGTACTGAAGAG  
 TCTGTGCTCCTTGGCTGCGGAGGGGATGCGGCACCCAGAGGCTGCTATTTGAAGAAGAGGTCCTCAGAAAG  
 CATGGCTTAGACGGCCCCAGCCTTACTGCTTCTGAACTGCATCGACTACCGAGCGGGCTTGGCATCA  
 AGAAAATCTACAGCTTTCGCCACATCAGCTTCCAGGAATTTTCTATGCCATGTCCTTCTGTGAAGGA  
 GGACCAGAGTCAGCAGGGAGAGGCCACACAAAAGAGTGGCAAAGCTGGTGGATCCAGAGAACCATGAA  
 GAGGTGACTCTCAGTTTGCAGTTCTTATTCGACATGTTGAAAACAGAGGGCACCTTGAGCTTGGGGCTGA  
 AGTTCTGCTTCAAGATCGCTCCTTCGGTAAGGCAGGATCTGAAGCATTAAAGAGCAAATAAGAGCCAT  
 AAAGTACAAAAGGTCATGGGATCTGGAATCTCTCTATGATTCTAAGATAAAGAAGCTCACACAAGGT  
 ATCCAGATGAAAGATGTCATTCTCAATGTGCAACATTTGGATGAAAAGAAATCTGACAAGAAGAAGTCAG  
 TTTCAAGTACAAGCAGCTTTAGTAGCGGAAGGTACAAAGTCCATTCTTGGGAAATGATAAAAGCACCAG  
 GAAACAAAAGAAGGCATCTAATGGGAAAAGCAGAGGGGCAGAGGAACAGCCCGGGGGTTAGAAACCGT  
 AGGCTGGCAAGCAGAGAAAAGGGTCATATGGAGATGAATGATAAGGAGGATGGTGGGGTGGAGGAACAGG  
 AGGATGAGGAAGGACAGACACTTAAAAGGATGGAGAGATGATAGATAAGATGAATGGG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_175532
- Insert Size:** 2022 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\\_175532.3](#), [NP\\_780741.1](#)

**RefSeq Size:** 4483 bp

**RefSeq ORF:** 2022 bp

**Locus ID:** 244202

**UniProt ID:** [Q8CCN1](#)

**Cytogenetics:** 7 E3

**Gene Summary:** Inhibits autoprocessing of CASP1, CASP1-dependent IL1B secretion, PYCARD aggregation and PYCARD-mediated apoptosis but not apoptosis induced by FAS or BID (By similarity). Displays anti-inflammatory activity (By similarity). Required for immunity against C.albicans infection (PubMed:23071280). Involved in the innate immune response by contributing to proinflammatory cytokine release in response to invasive bacterial infection (By similarity). Contributes to T-cell-mediated inflammatory responses in the skin (PubMed:27221772). Plays a role in protection against periodontitis through its involvement in induction of IL1A via ERK activation in oral epithelial cells infected with periodontal pathogens (By similarity). Exhibits both ATPase and GTPase activities (By similarity).[UniProtKB/Swiss-Prot Function]