

Product datasheet for **MR223786**

Nlrp10 (NM_175532) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nlrp10 (NM_175532) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide
Sequence:

>MR223786 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCCTTGGCACGGGCCAACAGCCCCAGGAGGCACTGCTTTGGCCTTGAATGACCTTGAGGAGAACA
GTTTCAAGACGCTGAAGTTCCACTTACGAGATGTGACCCAATTTTCATCTGGCCCCAGGGGAACTGGAGAG
TCTGAGTCAGGTGGACCTGGCATCAAACTGATTTCAATGTACGAGCACAGGAAGCCGTGAGAGTGGTG
AGCAGGAGCTTGTGGCCATGAACCTTGTAGACTACCTCAACCAGGTTTGTCTGAATGATT
ACAGAGAAATCTACCGGAGCATGTGCGCTGCTTGGAGGAGAGGCAAGATTGGGGTGTAAATAGCAGCCA
CAATAAGCTGCTCCTGATGGCCACATCCAGTTCAGGGGTCGAGATCACCTTCTGTTCTGACCTGGAA
CAGGAGTTGGATCCTGTCGATGTGGAGACTTTATTTGCTCCGGAGGCGGAGTCTACTCAACCCCGCCCA
TAGTGGTGTGCAAGGATCTGCGGGCACTGAAAGACAACCTGGTCAAAAACTGGTGCAGGACTGGTC
CAAAGGGAAGCTGTACCCAGGCCAGTTTGATTATGTTTTCTACGTGAGCTGCAGAGAAGTGGTCTGTTA
CCCAAGTGTGACCTGCCAACCTCATCTGCTGGTGTGGAGATGATCAAGCCCCAGTCACAGAGATTC
TGCGGCAGCCTGGGCGGCTCCTGTTTCATCCTGGATGGCTATGATGAGTTACAGAAGTCCAGTCGTGCCGA
GTGCGTACTTCACATTCTGATGAGGAGAAGGGAGTACCATGCTCCCTTCTCATCACCACGCGGCCCTCCA
GCTTTGCAGAGTCTGGAACCCATGTTGGGTGAACGGCGACATGTCCTTGTCTTAGGCTTCTCTGAGGAGG
AGAGGGAAACATATTTACAGCTCCTGTTTTACGGATAAAGGCAATTGAAAAATGCCCTTGAGTTTGTGCA
AAACAATGCTGTTCTCTATAAAGCATGCCAGGTTCCAGGCATTTGCTGGGTGGTCTGCTCCTGGCTGAAG
AAGAAGATGGCGAGAGGTGAGGAAGTCTCAGAGACACCTAGCAACAGTACAGACATCTTCACTGCTTATG
TGTCACCTTTCTGCCACTGATGGCAATGGAGACAGCTCTGAGCTTACCAGGCACAAGTACTGAAGAG
TCTGTGCTCCTTGGCTGCGGAGGGGATGCGGCACCCAGAGGCTGCTATTTGAAGAAGAGTCTCAGAAAG
CATGGCTTAGACGGCCCCAGCCTTACTGCTTCTGAACTGCATCGACTACCGAGCGGGGCTTGGCATCA
AGAAATTTACAGCTTTTCGCCACATCAGCTTCCAGGAATTTTTCTATGCCATGTCCTTCTGTGAAGGA
GGACCAGAGTCAGCAGGGAGAGGCCACACAAAAGAGTGGCAAAGCTGGTGGATCCAGAGAACCATGAA
GAGGTGACTCTCAGTTTGCAGTTCTTATTCGACATGTTGAAAACAGAGGGCACCTTGAGCTTGGGGCTGA
AGTTCTGCTTCAAGATCGCTCCTTCGGTAAGGCAGGATCTGAAGCATTTTAAAGAGCAAATAGAAGCCAT
AAAGTACAAAAGGTCATGGGATCTGGAATCTCTCTATGATTCTAAGATAAAGAAGCTCACACAAGT
ATCCAGATGAAAGATGTCATTCTCAATGTGCAACATTTGGATGAAAAGAAATCTGACAAGAAGAAGTCAG
TTTCAGTGACAAGCAGCTTAGTAGCGGGAAGGTACAAAGTCCATTCTTGGGAAATGATAAAAGCACCAG
GAAACAAAAGAAGGCATCTAATGGGAAAAGCAGAGGGGCAGAGGAACCCCGGGGGTTAGAAACCGT
AGGCTGGCAAGCAGAGAAAAGGGTCATATGGAGATGAATGATAAGGAGGATGGTGGGGTGGAGGAACAGG
AGGATGAGGAAGGACAGACACTTAAAAGGATGGAGAGATGATAGATAAGATGAATGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223786 protein sequence
 Red=Cloning site Green=Tags(s)

MALARANSPQEALLWALNDLEENSFKTLKFHLRDVTQFHLARGELESLSQVDLASKLISMYGAQEAVRVV
 SRSLLAMNLMELVDYLNQVCLNDYREIYREHVRCLEERQDWGVNSHNKLLMATSSSGRRSPSCSDLE
 QELDPVDVETLFAPEAESYSTPPIVVMQGSAGTGKTTLVKLVQDWSKGLYPGQFDYFVYVSCREVVLL
 PKCDLPNLICWCCGDDQAPVTEILRQPGRLLFILDGYDELQKSSRAEVLHILMRRREVPCSLITRPP
 ALQSLEPMLGERRHVLVLFSEERETYFSSCFDKEQLKNALEFVQNNAVLYKACQVPGICWVCSWLK
 KKMARGQEVSETPSNSTDIFTAYVSTFLPTDGNDSSELTRHKVLKSLCSLAAEGMRHQRLLFEEVLRK
 HGLDGPSLTAFLNCIDYRAGLGIKKFYSFRHISFQEFFYAMSFLVKEDQSQQGEATHKEVAKLVDPENHE
 EVTLSLQFLFDMLKTEGTL SLGLKFCFRIAPSVRQDLKHFKEQIEAIKYKRSWDLFSLYDSKIKKLTQG
 IQMKDVLINVQHLDEKKSDDKKS SVSVTSSFSGGK VQSPFLGNDKSTRKQKASNGKSRGAEAPAGVRNR
 RLASREKGHMEMNDKEDGGVEEQEDEEGQTLKKDGEMIDKMNG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_175532

ORF Size: 2022 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

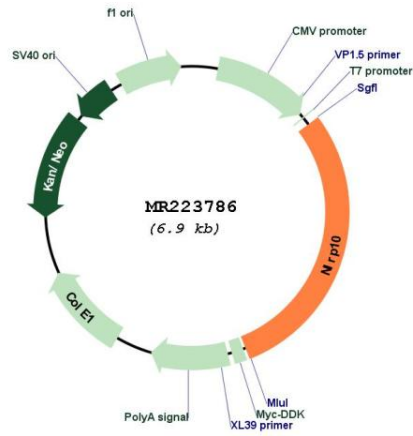
UniProt ID: [Q8CCN1](#)

Cytogenetics: 7 E3

MW: 76.4 kDa

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]

Product images:



Circular map for MR223786