

Product datasheet for **MG223786**

Nlrp10 (NM_175532) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nlrp10 (NM_175532) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nlrp10
Synonyms:	6430548I20Rik; Nalp10; Napl10; PAN5; Pynod
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223786 representing NM_175532
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCTTGGCACGGGCCAACAGCCCCAGGAGGCACTGCTTTGGCCTTGAATGACCTTGAGGAGAACA
 GTTTCAAGACGCTGAAGTTCCACTTACGAGATGTGACCAATTTTCATCTGGCCCGAGGGGAAGTGGAGAG
 TCTGAGTCAGGTGGACCTGGCATCAAACTGATTTCAATGTACGAGCACAGGAAGCCGTGAGAGTGGTG
 AGCAGGAGCTTGTGGCCATGAACCTTGTAGACTACCTCAACCAGGTTTGTCTGAATGATT
 ACAGAGAAATCTACCGGAGCATGTGCGCTGCTTGGAGGAGAGGCAAGATTGGGGTGTAAATAGCAGCCA
 CAATAAGCTGCTCCTGATGGCCACATCCAGTTCAGGGGTCGAGATCACCTTCTGTTCTGACCTGGAA
 CAGGAGTTGGATCCTGTCGATGTGGAGACTTTATTTGCTCCGGAGGCGGAGTCTACTCAACCCCGCCCA
 TAGTGGTGTGCAAGGATCTGCGGGCACTGAAAGACAACCTGGTCAAAAACTGGTGCAGGACTGGTC
 CAAAGGGAAGCTGTACCCAGGCCAGTTTGATTATGTTTTCTACGTGAGCTGCAGAGAAGTGGTCTGTTA
 CCCAAGTGTGACCTGCCAACCTCATCTGCTGGTGTGTGGAGATGATCAAGCCCAAGTACAGAGATTC
 TGGCGCAGCCTGGGCGGCTCCTGTTTCATCTGGATGGCTATGATGAGTTACAGAAGTCCAGTCTGTCGCA
 GTGCGTACTTCACATTCTGATGAGGAGAAGGGAGTACCATGCTCCCTTCTCATCACCACGCGGCCCTCCA
 GCTTTGCAGAGTCTGGAACCCATGTTGGGTGAACGGCGACATGTCCTTGTCTTAGGCTTCTCTGAGGAGG
 AGAGGGAAACATATTTACAGTCTCTGTTTACGGATAAAGGCAATTGAAAAATGCCCTTGAGTTTGTGCA
 AAACAATGCTGTTCTCTATAAAGCATGCCAGGTTCCAGGCATTTGCTGGGTGGTCTGCTCCTGGCTGAAG
 AAGAAGATGGCGAGAGGTCAGGAAGTCTCAGAGACACCTAGCAACAGTACAGACATCTTCACTGCTTATG
 TGTCACCTTTCTGCCACTGATGGCAATGGAGACAGCTCTGAGCTTACCAGGCACAAGTACTGAAGAG
 TCTGTGCTCCTTGGCTGCGGAGGGGATGCGGCACCCAGAGGCTGCTATTTGAAGAAGAGTCTCAGAAAG
 CATGGCTTAGACGGCCCCAGCCTTACTGCTTCTGAACTGCATCGACTACCGAGCGGGGCTTGGCATCA
 AGAAATTCTACAGCTTTTCGCCACATCAGCTTCCAGGAATTTTTCTATGCCATGTCCTTCTTGTGAAGGA
 GGACCAGAGTCAGCAGGGAGAGGCCACACAAAAGAGTGGCAAAGCTGGTGGATCCAGAGAACCATGAA
 GAGGTGACTCTCAGTTTGCAGTCTTATTCGACATGTTGAAAACAGAGGGCACCTTGAGCTTGGGGCTGA
 AGTTCTGCTTCAAGATCGCTCCTTCGGTAAGGCAGGATCTGAAGCATTTTAAAGAGCAAATAGAAGCCAT
 AAAGTACAAAAGGTCATGGGATCTGGAATCTCTCTATGATTCTAAGATAAAGAAGCTCACACAAGGT
 ATCCAGATGAAAGATGTCATTCTCAATGTGCAACATTTGGATGAAAAGAAATCTGACAAGAAGAAGTCAG
 TTTCAAGTACAAGCAGCTTTAGTAGCGGAAGGTACAAAGTCCATTCTTGGGAAATGATAAAAGCACCAG
 GAAACAAAAGAAGGCATCTAATGGGAAAAGCAGAGGGGCAGAGGAACCCCGGGGGTTAGAAACCGT
 AGGCTGGCAAGCAGAGAAAAGGGTCATATGGAGATGAATGATAAGGAGGATGGTGGGGTGGAGGAACAGG
 AGGATGAGGAAGGACAGACACTTAAAAGGATGGAGAGATGATAGATAAGATGAATGGG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG223786 representing NM_175532
 Red=Cloning site Green=Tags(s)

MALARANSPQEALLWALNDLEENSFKTLKFHLRDVTQFHLARGELESLSQVDLASKLISMYGAQEAVRVV
 SRSLLAMNLMELVDYLNQVCLNDYREIYREHVRCLEERQDWGVNSHNKLLLMATSSSGRRSPSCSDLE
 QELDPVDVETLFAPEAESYSTPPIVVMQGSAGTGKTTLVKKLVDWSKGLYPGQFDYVYVSCREVVLL
 PKCDLPNLICWCCGDDQAPVTEILRQPGRLLFILDGYDELQKSSRAEVLHILMRRREVPCSLITRPP
 ALQSLEPMLGERRHVLVLFSEERETYFSSCFDKEQLKNALEFVQNNAVLYKACQVPGICWVCSWLK
 KKMARGQEVSETPSNSTDIFTAYVSTFLPTDGNDSSELTRHKVLKSLCSLAAEGMRHQRLLFEEVLRK
 HGLDGPSTLAFNLCIDYRAGLGIKKFYSFRHISFQEFFYAMSFLVKEDQSQQGEATHKEVAKLVDPENHE
 EVTLSLQFLFDMLKTEGTL SLGLKFCFRIAPSVRQDLKHFKEQIEAIKYKRSWDLEFSLYDSKIKKL TQG
 IQMKDVLINVQHLDEKKSDDKKS SVSVTSSFS SSGKVQSPFLGNDKSTRKQKASNGKSRGAEAPAGVRNR
 RLASREKGHMEMNDKEDGGVEEQEDEEGQTLKKDGEMIDKMNG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_175532

ORF Size: 2019 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

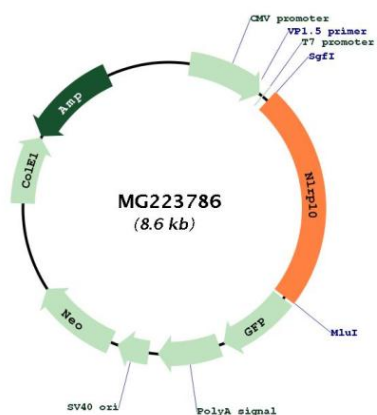
Locus ID: 244202

UniProt ID: [Q8CCN1](#)

Cytogenetics: 7 E3

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 MG223786