

Product datasheet for **RC211215**

NLRP10 (NM_176821) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NLRP10 (NM_176821) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NLRP10
Synonyms:	CLR11.1; NALP10; NOD8; PAN5; PYNOD
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RC211215 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCATGGCCAAGGCCAGAAAGCCCCGGGAGGCATTGCTCTGGGCCTTGAGTGACCTTGAGGAGAACG
ATTTCAAGAAGTTAAAGTTCTACTTACGGGATATGACCCTGTCTGAGGGCCAGCCCCACTGGCCAGAGG
GGAGTTGGAGGGCCTGATTCCGGTGGACCTGGCAGAATTACTGATTTCAAAGTATGGAGAAAAGGAGGCT
GTGAAAGTTGTCCTCAAGGGCTTGAAGGTCATGAACCTGTTGAACTTGTGGACCAGCTCAGCCATATTT
GTCTGCATGATTACAGAGAAGTATACCGAGAGCATGTGCGCTGCCTAGAGGAATGGCAGGAAGCAGGAGT
CAATGGCAGATACAACCAGGTGCTCCTGGTGGCCAAGCCAGCTCAGAGAGCCCAGAATCACTTGCCTGC
CCCTTCCCGGAGCAGGAGCTGGAGTCTGTACGGTGGAGGCTCTATTTGATTAGGGGAAAAGCCCTCAC
TGGCCCCATCCTTAGTTGTCTACAGGGTTCGGCTGGCACTGAAAGACAACCTCTGCCAGAAAAATGGT
GTTGGACTGGGCCACCGTACTCTGTACCCAGGCCGTTTATTGATTGCTTTTATGTAAGCTGCAAAGAA
GTGGTCTGCTGCTGGAGAGCAAAGTGGAGCAGCTCCTTTCTGGTGTGCGGGGACAATCAAGCCCTG
TCACAGAGATTCTGAGGCAGCCAGAGCGCTCCTGTTTCCTGGATGGCTTTGATGAGCTGCAGAGGCC
CTTTGAAGAAAAGTTGAAGAAGAGGGGTTTGTGATCCCAAGGAGAGCCTGCTGCACCTTCTAATTAGGAGA
CATACACTCCCCACGTGCTCCCTTCTCATCACCCCGGCCCTGGCTTTGAGGAATCTGGAGCCCTTGC
TGAAACAAGCAGTCAATGTCATATCCTAGGCTTCTCTGAGGAGGAGAGGGCGAGGACTTACAGCTCCTA
TTTCACGGATGAGAAGCAAGCTGACCGTGCCTTCGACATTGTACAGAAAAATGACATTCTACAAAAGCG
TGTCAGGTTCCAGGCATTTGCTGGTGGTCTGCTCCTGGCTGCAGGGCAGATGGAGAGAGGCAAGTTG
TCTTAGAGACACCTAGAAACAGCACTGACATCTTCATGGCTTACGTCTCCACCTTCTGCCGCCGATGA
TGATGGGGGCTGCTCCGAGCTTTCCCGGCACAGGGTCTGAGGAGTCTGTGCTCCCTAGCAGCTGAAGGG
ATTCAGCACCCAGAGGTTCTATTTGAAGAAGCTGAGCTCAGGAAACATAATTTAGATGGCCCCAGGCTTG
CCGCTTCTGAGTAGTAACGACTACCAATTGGGACTTGCCATCAAGAAGTTCTACAGCTCCGCCACAT
CAGCTTCCAGGACTTTTTTCATGCCATGTCTTACCTGGTGAAGAGGACCAAAGCCGGCTGGGGAAGGAG
TCCCGCAGAGAAGTGCAAAGGCTGCTGGAGGTAAGGAGCAGGAAGGGAATGATGAGATGACCCTCACTA
TGCAGTTTTTACTGGACATCTCGAAAAAGACAGCTTCTCGAACTTGGAGCTCAAGTTCTGCTTCAGAA
TTCTCCCTGTTTAGCGCAGGATCTGAAGCATTAAAGAACAGATGGAATCTATGAAGCACACAGGACC
TGGGATTTGGAATTCTCCCTGTATGAAGCTAAAATAAAGAATCTGGTAAAAGGTATTCAGATGAACAATG
TATCATTCAAGATAAAACATTCAAATGAAAAGAAATCACAGAGCCAGAATTTATTTCTGTCAAAAGCAG
CTTGAGTCATGGACCTAAGGAGGAGCAAAAATGTCCTTCTGTCCATGGACAGAAGGAGGGCAAAAGATAAT
ATAGCAGGAACACAAAAGGAAGCTTCTACTGAAAAGGCAGAGGGACAGAGGAAACCAAAAAATACTT
ACATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC211215 protein sequence
 Red=Cloning site Green=Tags(s)

MAMAKARKPREALLWALSDLEENDFKLKFYLRDRTLSEGPPLARGELEGLIPVDLAELLISKYGEKEA
 VKVVLKGLKVMNLELVDQLSHICLHDYREYREHVRCLLEEWQEAGVNGRYNQVLLVAKPSSESPESLAC
 PFPEQELSVTVEALFDSGEKPSLAPSLVVLQGSAGTGKTLARKMVLWDATGTLYPGRFDYVFYVSCKE
 VVLLLESKLEQLLFWCCGDNQAPVTEILRQPERLLFILDGFDELQRPFEKLLKRGKLSPKESLLHLLIRR
 HTLPTCSLLITTRPLALRNLEPLLQARHVHILGFSEERARYFSSYFTDEKQADRAFDIVQKNDILYKA
 CQVPGICWVVCWLQGMERGKVVLETPRNSTDFMAYVSTFLPPDDGGCSEL SRHRVLRSLCSLAAEG
 IQHQRFLFEEAELRKHNL DGPRLAAFLSSNDYQLGLAIKFKYSFRHISFQDFHAMSYL VKEDQSRLGKE
 SRREVQRLLLEVKEQEGNDEM TLTMQFLLDISKDSFSNLELKF CFRISPCLAQDLKHFKEQMESMKHNRT
 WDLEFSLYEA KIKNLVKGIQMNVSFKIKHSNEKKSQSQNLFSVKSSLSHGPKKEEQKCP SVHGQKEGKDN
 IAGTQKEASTGKGRGTEETPKNTYI

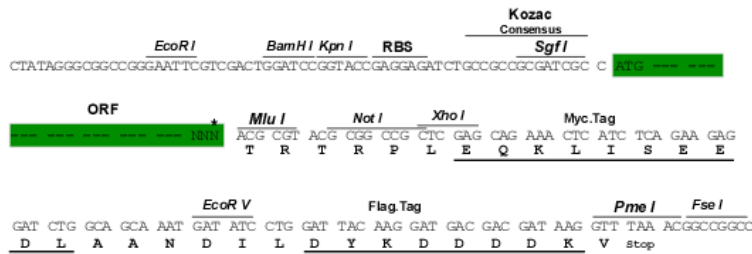
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6373_e02.zip

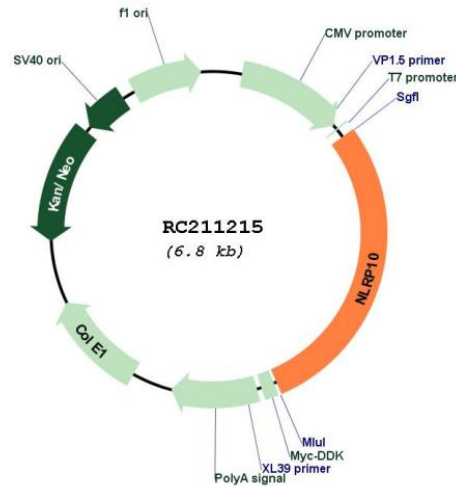
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_176821

ORF Size: 1965 bp

OTI Disclaimer: 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.

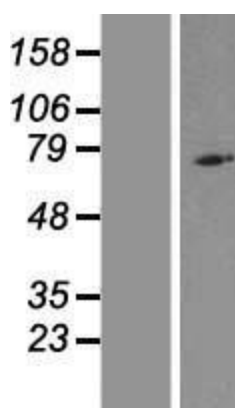
RefSeq: [NM_176821.4](#)

RefSeq Size: 2020 bp

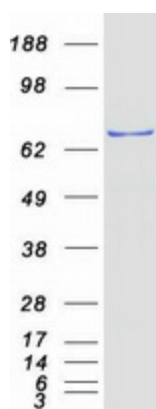
RefSeq ORF: 1968 bp
Locus ID: 338322
UniProt ID: [Q86W26](#)
Cytogenetics: 11p15.4
MW: 75 kDa

Gene Summary: Members of the NALP protein family typically contain a NACHT domain, a NACHT-associated domain (NAD), a C-terminal leucine-rich repeat (LRR) region, and an N-terminal pyrin domain (PYD). The protein encoded by this gene belongs to the NALP protein family despite lacking the LRR region. This protein likely plays a regulatory role in the innate immune system. The protein belongs to the signal-induced multiprotein complex, the inflammasome, that activates the pro-inflammatory caspases, caspase-1 and caspase-5. Other experiments indicate that this gene acts as a multifunctional negative regulator of inflammation and apoptosis. [provided by RefSeq, Jul 2008]

Product images:



Western blot validation of overexpression lysate (Cat# [LY406109]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211215 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NLRP10 protein (Cat# [TP311215]). The protein was produced from HEK293T cells transfected with NLRP10 cDNA clone (Cat# RC211215) using MegaTran 2.0 (Cat# [TT210002]).