

Product datasheet for **RG211215**

NLRP10 (NM_176821) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | NLRP10 (NM_176821) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | NLRP10 |
| Synonyms: | CLR11.1; NALP10; NOD8; 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:

>RG211215 representing NM_176821
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCATGGCCAAGGCCAGAAAGCCCGGGAGGCATTGCTCTGGGCCTTGAGTGACCTTGAGGAGAACG
 ATTTCAAGAAGTTAAAGTTCTACTTACGGGATATGACCCTGTCTGAGGGCCAGCCCCACTGGCCAGAGG
 GGAGTTGGAGGGCCTGATTCCGGTGGACCTGGCAGAATTACTGATTTCAAAGTATGGAGAAAAGGAGGCT
 GTGAAAGTTGTCCTCAAGGGCTTGAAGGTCATGAACCTGTTGAACTTGTGGACCAGCTCAGCCATATTT
 GTCTGCATGATTACAGAGAAGTATACCGAGAGCATGTGCGCTGCCTAGAGGAATGGCAGGAAGCAGGAGT
 CAATGGCAGATACAACCAGGTGCTCCTGGTGGCCAAGCCAGCTCAGAGAGCCCAGAATCACTTGCCTGC
 CCCTTCCCGGAGCAGGAGCTGGAGTCTGTACGGTGGAGGCTCTATTTGATTAGGGGAAAAGCCCTCAC
 TGGCCCATCCTTAGTTGTCTACAGGGTCCGGCTGGCACTGAAAGACAACCTCGCCAGAAAAATGGT
 GTTGGACTGGGCCACCGTACTCTGTACCCAGGCCGTTTATTGATTGCTTTTATGTAAGCTGCAAAGAA
 GTGGTCTCTGCTGGAGAGCAAAGTGGAGCAGCTCCTTTCTGGTGTGCGGGGACAATCAAGCCCTG
 TCACAGAGATTCTGAGGCAGCCAGAGCGGCTCCTGTTTCCTGGATGGCTTTGATGAGCTGCAGAGGCC
 CTTTGAAGAAAAGTTGAAGAAGAGGGGTTTGTAGTCCCAAGGAGAGCCTGCTGCACCTTCTAATTAGGAGA
 CATACTCCCCACGTGCTCCCTTCTCATCACCCCGGCCCTGGCTTTGAGGAATCTGGAGCCCTTGC
 TGAACAAGCAGCTCATGTCCATATCCTAGGCTTCTCTGAGGAGGAGAGGGCGAGGACTTACAGCTCCTA
 TTTACGGATGAGAAGCAAGCTGACCGTGCCTTCGACATTGTACAGAAAAATGACATTCTCTACAAAGCG
 TGTCAGGTTCCAGGCATTTGCTGGTGGTCTGCTCCTGGCTGCAGGGCAGATGGAGAGAGGCAAAGTTG
 TCTTAGAGACACCTAGAAACAGCACTGACATCTTCATGGCTTACGTCTCCACCTTCTGCCGCCGATGA
 TGATGGGGGCTGCTCCGAGCTTTCCCGGCACAGGGTCTGAGGAGTCTGTGCTCCCTAGCAGCTGAAGGG
 ATTCAGCACCAGAGGTTCTATTTGAAGAAGCTGAGCTCAGGAAACATAATTTAGATGGCCCCAGGCTTG
 CCGCTTCTGAGTAGTAACGACTACCAATTGGGACTTGCCATCAAGAAGTTCTACAGCTCCGCCACAT
 CAGCTTCCAGGACTTTTTTCATGCCATGTCTTACCTGGTAAAGAGGACCAAAGCCGGCTGGGGAAGGAG
 TCCCGCAGAGAAGTGCAAAGGCTGCTGGAGGTAAGGAGCAGGAAGGGAATGATGAGATGACCCTCACTA
 TGCAGTTTTTACTGGACATCTCGAAAAAGACAGCTTCTCGAACTTGAGCTCAAGTTCTGCTTCAGAAAT
 TTCTCCCTGTTTAGCGCAGGATCTGAAGCATTAAAGAACAGATGGAATCTATGAAGCACACAGGACC
 TGGGATTTGGAATTCTCCCTGTATGAAGCTAAAATAAAGAATCTGGTAAAAGGTATTCAGATGAACAATG
 TATCATTCAAGATAAAACATTCAAATGAAAAGAAATCACAGAGCCAGAATTTATTTTCTGTCAAAAGCAG
 CTTGAGTCATGGACCTAAGGAGGAGCAAAAATGTCCTTCTGTCCATGGACAGAAGGAGGGCAAAAGATAAT
 ATAGCAGGAACACAAAAGGAAGCTTCTACTGAAAAGGCAGAGGGACAGAGGAAACCAAAAAATACTT
 ACATA

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211215 representing NM_176821
Red=Cloning site Green=Tags(s)

MAMAKARKPREALLWALSDLEENDFKLKFYLRDRTLSEGOPLARGELEGLIPVDLAELLISKYGEKEA
 VKVVLKGLKVMNLELVDQLSHICLHDYREYREHVRCLLEWQAEAGVNGRYNQVLLVAKPSSPESLAC
 PFPEQELESVTVEALFDSGEKPSLAPSLVVLQGSAGTGKTTLARKMVLWDATGTYLPGRFDYVFVSCKE
 VVLLLESKLEQLLFWCCGDNQAPVTEILRQPERLLFILDGFDELQRPFEKLLKRGSLSPKESLLHLLIRR
 HTLPCTCSLLITRPLALRNLEPLLKQARHVHILGFSEERARYFSSYFTDEKQADRAFDIVQKNDILYKA
 CQVPGICWVVCWVQGMERGVVLETPRNSDIFMAYVSTFLPPDDGGCSEL SRHRVLRSLCSLAAEG
 IQHQRFLEEEAELRKHNL DGPRLAAFLSSNDYQLGLAIKKFYSFRHISFQDFHAMSYLKVEDQSRLGKE
 SRREVQRLLVEKQEQGNDEMTLTMQFLLDISKDSFSNLELKF CFRISPCLAQDLKHFKEQMESMKHNRT
 WDLEFSLYEAIKIKNLVKGIQMNVSFKIKHSNEKKSQSQNLFSVKSSL SHGPKKEEQKCP SVHGQKEGKDN
 IAGTQKEASTGKGRGTEETPKNTYI

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



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

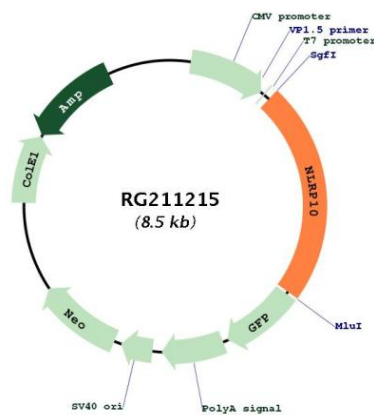
Locus ID: 338322

UniProt ID: [Q86W26](#)

Cytogenetics: 11p15.4

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:



Circular map for RG211215