

Product datasheet for **RG207991**

NALP4 (NLRP4) (NM_134444) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NALP4 (NLRP4) (NM_134444) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NALP4
Synonyms:	CLR19.5; CT58; NALP4; PAN2; PYPAF4; RNH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207991 representing NM_134444
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGCCTCTTTCTTCTCTGATTTTGGTCTTATGTGGTATCTGGAGGAGCTCAAAAAGGAGGAGTTCA
 GGAAATTTAAAGAACATCTCAAGCAAATGACTTTGCAGCTTGAACCAAGCAGATTCCCTGGACTGAGGT
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 ATAACCTTAAGAACTTTCAAAGATGGATAGAAAGGATCTCTGCATGAAGGTCATGAGGGAGAGAACAG
 GATACACAAGACCTATCAAGCTCACGCAAAGCAGAAATTCAGCCGCTTATGGTCCAGCAAGTCTGTAC
 TGAGATTCACCTATACTTTGAGGAGGAAGTCAAGCAAGAAGAATGTGACCATTTGGACCGCTTTTTGCT
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 AAGAGCTGCAGGGCGGCTTGAACGAACCCGATTGGATCTGTGTGGTACTTGATGGAGAAACGGCCGGT
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 ACCATCACAGACGACTGTGACACAATCACAAGGGTAGAGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207991 representing NM_134444
 Red=Cloning site Green=Tags(s)

MAASFFSDFGLMWYLEELKKEEFRKFKEHLKQMTLQLELKQIPWTEVKKASREELANLLIKHYEEQQAWN
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 PKEAGKQPRTVVIQGPQIGKTTLLMKLMAWSDNKIFRDRFLYTFYFCCRELRELPPSTLADLISREWP
 DPAAPITEIVSQPERLLFVIDSFEELQGGLENEPDSDLCGDLMEKRPVQVLLSSLLRKKMLPEASLLIAIK
 PVCPELRDQVTISEIYQPRGFNEDRLVYFCFFKDPKRAMEAFNLVRESEQLFSICQIPLL CWILCTS
 LKQEMQKGDALALTCQSTTSVYSSFVFNLFPTDGAEGPTQQTQHQLKALCSLAAEGMWTDTFEFCEDDL
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 ARRAHWIFLGCFLTGLLNKKEQEKLDAFFGFQLSQEIKQIQHQLKSLGERGNPQQVDSLAI FYCLFEM
 QDPAFVKQAVNLLQEANFHIIDNVDLVVSAYCLKYCSSLRKLCFSVQNVFKKEDEHSSTSDYSLICWHHI
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 CEAMCSPDVLVYLMLAFCHLSEQCCEYISEMLLRNKSRYLDLSANVLKDEGLKTLCEALKHPDCCLDS
 LCLVKCFITAAGCEDLASALISNQNLKILQIGCNEIGDVG VQLL CRALHTD CRLEILGLEECGLTSTCC
 KDLASVLTCSKTLQLLNLTNLTDHTGVVVLCEALRHPECALQVLGLRKTDFDEETQALLTAE EERNPNL
 TITDDCDITRVEI

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

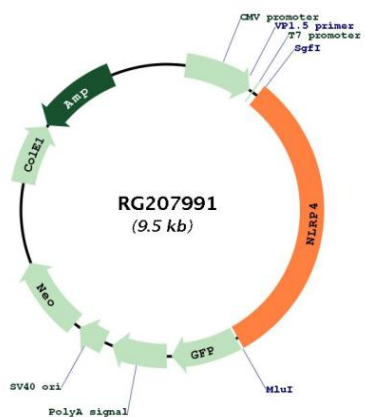


ACCN: NM_134444

ORF Size: 2982 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:	<ol style="list-style-type: none">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_134444.3 , NP_604393.1
RefSeq Size:	3339 bp
RefSeq ORF:	2985 bp
Locus ID:	147945
UniProt ID:	Q96MN2
Cytogenetics:	19q13.43
Gene Summary:	The protein encoded by this gene is a member of the nucleotide-binding and leucine-rich repeat receptor (NLR) family, and is predicted to contain an N-terminal pyrin effector domain (PYD), a centrally-located nucleotide-binding and oligomerization domain (NACHT) and C-terminal leucine-rich repeats (LRR). This gene product has a demonstrated role as a negative regulator of autophagy and type I interferon signaling pathways as a result of protein interactions with its NACHT domain. The PYD domain has also been shown to be important in the inhibition of NF-kB (nuclear factor kappa-light-chain-enhancer of activated B cells). [provided by RefSeq, Dec 2016]

Product images:



Circular map for RG207991