

Product datasheet for **RC230636**

NALP2 (NLRP2) (NM_001174081) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NALP2 (NLRP2) (NM_001174081) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NLRP2
Synonyms:	CLR19.9; NALP2; NBS1; PAN1; PYPAF2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC230636 representing NM_001174081 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGTGTCTTCGGCGCAGATGGGCTTCAACCTGCAGGCTCTCCTGGAGCAGCTCAGCCAGGATGAGTTGA
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 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230636 representing NM_001174081
 Red=Cloning site Green=Tags(s)

MVSSAQMGFNLQALLEQLSQDEL SKFKYLITTFSLAHELQKIPHKEVDKADGKQLVEILTTHCDSYVWEM
 ASLQVFEKMRMDL SERAKDEVREAALKSFNKRKPLSLGITRKRPPLDVDEMLERFKTEAQAFTETKGN
 VICLGKEVFKGKPKDKDNRCRYILKTKFREMWKSWPGDSKEVQVMAERYKMLIPFSNPRVLPGPSYTVV
 LYGPAGLGKTTLAQKMLDWAEDNL IHKFYAFYL SCREL SRLGPCSFAELVFRDWPELQDDIPHILAQA
 RKILFVIDGFDELGAAPGALIEDICGDWEKKKPVVLLGSLNLRVMLPKAALLVTRPRALRDLRILAE
 PIYIRVEGFLEEDRRAYFLRHFGEDEQAMRAFELMRSNAALFQLGSAPAVCWIVCTTLKQMEKGEDPVP
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 ANEKRAKELEATFGCRMSPDIKQELLRCDI SCKGGHSTVTDLQELLGCLYESQEEELVKEVMAQFKEISL
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 LMGLAINDSFLSASLVRILCEQIASDTCHLQRVVFKNISPADAHRNLCLALRGHKTVTYLTLQGNDDDM
 FPALCEVLRHPECNLRYLGLVSCSATTQWADLSLAEVNSQLTCVNLSDNELLDEGAKLLYTLRHPKC
 FLQRLSLENCHL TEANCKDLA AVLVSRELTHLCLAKNP I GNTGVKFLCEGLRYPECKLQTLVLWNCIT
 SDGCCDLTKLLQEKSSLLCLDLGLNHIQVKGKMFLEALRKPLCNLRCLWLWGCSPFPSCEDLCSALSC
 NQSLVTLDLGQNPLGSSGVKMLFETLTCSSGTLRTRLKIDDFNDELNKLLEEIEEKNPQLIIDTEKHHP
 WAERPSSHDFMI

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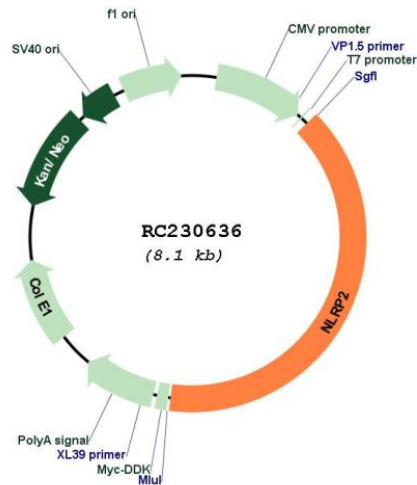
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001174081

ORF Size: 3186 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:	<u>NM_001174081.3</u>
RefSeq ORF:	3189 bp
Locus ID:	55655
UniProt ID:	<u>Q9NX02</u>
Cytogenetics:	19q13.42
MW:	121 kDa
Gene Summary:	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). Members of this gene family are thought to be important regulators of immune responses. This gene product interacts with components of the I κ B kinase (IKK) complex, and can regulate both caspase-1 and NF- κ B (nuclear factor kappa-light-chain-enhancer of activated B cells) activity. The pyrin domain is necessary and sufficient for suppression of NF- κ B activity. An allelic variant (rs147585490) has been found that is incapable of blocking the transcriptional activity of NF- κ B. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2016]