

Product datasheet for **SC126446**

NALP2 (NLRP2) (BC001039) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	NALP2
Synonyms:	CLR19.9; FLJ20510; NACHT, leucine rich repeat and PYD containing 2; NACHT, LRR and PYD containing protein 2; NALP2; NBS1; nucleotide-binding oligomerization domain, leucine rich repeat and pyrin domain containing; PAN1; PYPAF2; PYRIN-Containing APAF1-like
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC001039 edited <pre> GGGAGCTCCACGTTGGGACAAGATGGTGTCTTCGGCGCAGATGGGCTTCAACCTGCAGGC TCTCCTGGAGCAGCTCAGCCAGGATGAGTTGAGCAAGTTCAAGTATCTGATCAGCAGCCTT CTCCCTGGCACACGAGCTCCAGAAGATCCCCACAAGGAGGTAGACAAGGCTGATGGGAA GCAACTGGTAGAAATCCTCACCACCCATTGTGACAGCTACTGGGTGGAGATGGCGAGCCT CCAGGTCTTTGAAAAGATGCACCGAATGGATCTGTCTGAGAGAGCAAAGGATGAAGTCAG AGAAGCAGCTTTGAAATCCTTTAATAAAAAGGAAGCCTCTATCATTAGGGATAACACGGAA AGAACGACCACCTCTAGACGTGGACGAAATGCTGGAGCGCTTCAAACAGAAGCACAAGC GTTTACAGAAACGAAAGGAAATGTCATCTGCCTGGGTAAGAAGTCTTTAAAGGAAAAAA GCCAGACAAAGACAATAGGTGCAGGTATATATTGAAGACGAAGTCCGGGAGATGTGGAA GAGCTGGCCTGGAGATAGCAAAGAGGTCCAGGTTATGGCTGAGAGATACAAGATGCTGAT CCCATTGAGCAACCCAGGGTGCTTCCCGGGCCCTTCTCATACACGGTGGTGTGTATGG TCCTGCAGGCCTTTGGGAAAACACGCTGGCCAGAACTAATGCTAGACTGGGCAGAGGA CAACCTCATCCACAAATTCAAATATGCGTTCTACCTCAGCTGCAGGGAGCTCAGCCGCCT GGGCCCGTGCAGTTTTCAGAGCTGGTCTTCAGGACTGGCCTGAATTGCAGGATGACAT TCCACACATCTAGCCCAAGCACGGAAAACTTTGTTCTGATTGACGGCTTTGATGAGCT GGGAGCCGACCTGGGCGCTGATCAGGACATCTGCGGGACTGGGAGAAGAAGAAGCC GGTGCCGCTCCTCTGGGAGTTTGCTGAACAGGGTATGTTACCCAAGGCCGCCCTGCT GGTCACCACGCGGCCAGGGCCCTGAGGGACCTCCGGATCCTGGCGAGGAGCCGATCTA CATAAGGGTGGAGGGCTTCTGGAGGAGCAGGAGGGCTATTTCTGAGACACTTTGG AGACGAGGACCAAGCCATGCGTGCCTTTGAGCTAATGAGGAGCAACGCGGCCCTGTTCCA GCTGGGCTCGGCCCCCGCGGTGTGCTGGATCGTGTGCACGACTCTGAAGCTGCAGATGGA GAAGGGGGAGGACCGGTCCCACTGCCTCACCCGACGGGGCTGTTCTGCGTTTCCT CTGCAGCCGGTCCCGCAGGGCGCACAGCTGCGGGGCGCGCTGCGGACGCTGAGCCTCCT GGCCGCGCAGGGCCTGTGGCGCAGACGTCCTGCTTACCGAGAGGATCTGGAAGGCT </pre>



CGGGGTGCAGGAGTCCGACCTCCGTCTGTTCTGGACGGAGACATCCTCCGCCAGGACAG
AGTCTCCAAGGCTGCTACTCCTTCATCCACCTCAGCTTCCAGCAGTTTCTCACTGCCCT
GTTCTACACCCTGGAGAAGGAGGAGGAAGAGGATAGGGACGGCCACACCTGGGACATTGG
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AGGCTACTACTCCTTTGGCCTCGCTAACGAGAAGAGAGCCAAGGAGTTGGAGGCCACTTT
TGGCTGCCGATGTACCGGACATCAACAGGAATTGCTGCGATGCGACATAAGTTGTAA
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GGAGGAGGAGCTGGTGAAGGAGGTGATGGCTCAGTTCAAAGAAATATCCCTGCACCTAAA
TGCAGTAGACGTTGTGCCATCTTCATTCTGCGTCAAGCACTGTGCAAACTGCAGAAAAAT
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CGAGGTTGAGAGATCCCAGGATGATCAGCACATGCTTCCTTTCTGGACGGACCTTTGTTT
CATATTTGGATCAAATAAGGATCTGATGGGTCTAGCAATCAATGATAGCTTTCTCAGTGC
CTCCCTAGTAAGGATCCTGTGTGAACAAATAGCCTCTGACACCTGTCTCCAGAGAGT
GGTGTCAAACCATTTCCCGAGTGTCTCATCGGAACCTCTGCCTAGCTCTTCGAGG
TCACAAGACTGTAACTATCTGACCTTCAAGGCAATGACAGGATGATATGTTTCCCGC
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GCTGAATCACATAGGAGTTAAGGGAATGAAGTTCTGTGTGAGGCTTTGAGGAAACCACT
GTGCAACTTGAGATGTCTGTGGTTGTGGGGATGTTCCATCCCTCCGTTCAAGTTGTGAAGA
CCTCTGCTCTGCCCTCAGTGCAACAGAGCCTCGTCACTCTGGACCTGGGTGAGAAATCC
CTTGGGGCTAGTGGAGTGAAGATGCTGTTTGAACCTTGACATGTTCCAGTGGCACCTT
CCGGACACTCAGGTTGAAAAATAGATGACTTTAATGATGAACTCAATAAGCTGCTGGAAGA
AATAGAAGAAAAAACCCACAACCTGATTATTGATACTGAGAAACATCATCCCTGGGAAGA
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GTCATCGATTTTCCAGGTGTGGGTGAAGTGCCTGTGACTCCTCTCCTCCCCGCCCCCTAC
CCCTCAGGGATAATGAGTTCATTGCTGGGCTAGATGTTTTAGCCATGATTCTGCCTCTGT
TTTATACCTGCACACATCCTTATCTTTGTTACATATGAAATATCTGTATCACGGGTATAT
TGAGAGAAATAAAGGTGAGAGCATTCAAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for BC001039 unedited
CCCCGCCCCGTTAGGCATATTTGTNAATACGNACTTCATNATNAGGGCGGCCGCGCAATT
CGCACNNGGGGAGCTCCAGTGGGACAAGATGGTGTCTTCGGCGCAGATGGGCTTCAACC
TGCAGGCTCTCCTGGAGCAGCTCAGCCAGGATGAGTTGAGCAAGTTCAAGTATCTGATCA
CGACCTTCTCCCTGGCACACGAGCTCCAGAAGATCCCCACAAGGAGGTAGACAAGGCTG
ATGGGAAGCAACTGGTAGAAATCCTCACCACCCATTGTGACAGCTACTGGGTGGAGATGG
CGAGCCTCCAGGTCTTTGAAAAGATGCACCGAATGGATCTGTCTGAGAGAGCAAGGATG
AAGTCAGAGAAGCAGCTTTGAAATCCTTTAATAAAGGAAGCCTCTATCATTAGGGATAA
CACGGAAAGAACGACCACCTCTAGACGTGGACGAAATGCTGGAGCGCTTCAAAACAGAAG
CACAAGCGTTTACAGAAACGAAAGGAAATGTCATCTGCCTGGGTAAAGAAGTCTTTAAAG
GAAAAAAGCCAGACAAAGACAATAGGTGCAGGTATATATTGAAGACGAAGTCCGGGAGA
TGTGGAAGAGCTGGCCTGGAGATAGCAAAGAGGTCCAGGTTATGGCTGAGAGATACAAGA
TGCTGATCCCATTCAGCAACCCAGGGTGCTTCCGGGCCCTTCTCATACACGGTGGTGC
TGTATGGTCTGCAGGCCTTGGGAAACCACGCTGGCCANGAACTAATGCTAGACTGGGC
AGAGGGACACCTCATCCACAAATCAAATATGCCGTCTACCTCAGCTGCAGGGAGCTCAG
CCGCTGGGCCCGTGACGTTTGCAGAGCTGGGTCTTCAGGGACTGGCCTGAATTGCAG
GATGACATTC

Restriction Sites:

Please inquire

ACCN:

BC001039

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	BC001039.2 , AAH01039.1
RefSeq Size:	3465 bp
Locus ID:	55655
Cytogenetics:	19q13.42
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 IκB kinase (IKK) complex, and can regulate both caspase-1 and NF-κB (nuclear factor kappa-light-chain-enhancer of activated B cells) activity. The pyrin domain is necessary and sufficient for suppression of NF-κB activity. An allelic variant (rs147585490) has been found that is incapable of blocking the transcriptional activity of NF-κB. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2016]