

## Product datasheet for **SC329265**

### NALP2 (NLRP2) (NM\_001174083) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NALP2 (NLRP2) (NM_001174083) Human Untagged Clone
Tag:	Tag Free
Symbol:	NALP2
Synonyms:	CLR19.9; NALP2; NBS1; PAN1; PYPAF2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001174083, the custom clone sequence may differ by one or more nucleotides

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ATGGTGTCTTCGCGCAGATGGGCTTCAACCTGCAGGCTCTCCTGGAGCAGCTCAGCCAG
GATGAGTTGAGCAAGTTCAAGTATCTGATCACGACCTTCCCTGGCACACGAGCTCCAG
AAGATCCCCACAAAGGAGATGGCGAGCCTCCAGGCTTTGAAAAGATGCACCGAATGGAT
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TTGAAGACGAAGTCCGGGAGATGTGGAAGAGCTGGCCTGGAGATAGCAAAGAGGTCCAG
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CAGAAACTAATGCTAGACTGGGCAGAGGACAACCTCATCCACAAATTCAAATATGCGTTC
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TTGTTCTGATTGACGGCTTTGATGAGCTGGGAGCCGCACCTGGGGCGCTGATCGAGGAC
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AGGGTATGTTACCCAAGGCCCCCTGCTGGTCACCACGCGGCCAGGGCCCTGAGGGAC
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ACCCGCACGGGGCTGTTCTGCTTTTCTCTGCAGCCGTTCCCGCAGGGCGCACAGCTG
CGGGGCGCGTGCAGGACCTGAGCCTCTGGCCGCGCAGGGCCTGTGGGCGCAGACGTCC
GTGCTTACCAGAGGATCTGAAAAGGCTCGGGGTGCAGGAGTCCGACCTCCGTCTGTTT
CTGGACGAGACATCTCCGCCAGGACAGAGTCTCAAAGGCTGCTACTCTTCATCCAC
CTCAGTTCACGAGTTTCTCACTGCCCTGTTCTACACCTGGAGAAGGAGGAGGAAGAG

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GATAGGGACGGCCACACCTGGGACATTGGGGACGTACAGAAGCTGCTTTCCGGAGTAGAA  
 AGACTCAGGAACCCCGACCTGATCCAAGCAGGCTACTACTCCTTTGGCCTCGCTAACGAG  
 AAGAGAGCCAAGGAGTTGGAGGCCACTTTTGGCTGCCGGATGTCACCCGGACATCAAACAG  
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 CAGTTCAAAGAAATATCCCTGCACTTAAATGCAGTAGACGTTGTGCCATTTTCATTCTGC  
 GTCAAGCACTGTGAAACCTGCAGAAAAATGCTACTGCAGGTAATAAAGGAGAATCTCCCG  
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 TTCCTGTGTGAGGCTTTGAGGAAACCACTGTGCAACTTGAGATGTCTGTGTTGTGGGA  
 GTTCCATCCCTCCGTTCAAGTTGTGAAGACCTCTGCTCTGCCCTCAGCTGCAACCAGAGC  
 CTGCTACTCTGGACCTGGGTGAGAAATCCCTTGGGGTCTAGTGGAGTGAAGATGCTGTTT  
 GAAACCTTGACATGTTCCAGTGGCACCTCCGGACACTCAGGTTGAAAATCGATGACTTT  
 AATGATGAACTCAATAAGCTGCTGGAAGAAATAGAAGAAAAAACCCACAACCTGATTATT  
 GATACTGAGAAACATCATCCCTGGGCAGAAAGGCCTTCTTCTCATGACTTCATGATCTGA

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_001174083

**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).

**OTI Annotation:**

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001174083.1](#), [NP\\_001167554.1](#)

RefSeq Size: 3521 bp

RefSeq ORF: 3120 bp

Locus ID: 55655

UniProt ID: [Q9NX02](#)

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 I $\kappa$ B kinase (IKK) complex, and can regulate both caspase-1 and NF- $\kappa$ B (nuclear factor kappa-light-chain-enhancer of activated B cells) activity. The pyrin domain is necessary and sufficient for suppression of NF- $\kappa$ B activity. An allelic variant (rs147585490) has been found that is incapable of blocking the transcriptional activity of NF- $\kappa$ B. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2016]  
Transcript Variant: This variant (4) lacks an in-frame exon in the CDS, as compared to variant 1. The resulting isoform (3) lacks an internal segment, as compared to isoform 1.