

## Product datasheet for SC113899

### NALP2 (NLRP2) (NM\_017852) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NALP2 (NLRP2) (NM_017852) Human Untagged Clone
Tag:	Tag Free
Symbol:	NALP2
Synonyms:	CLR19.9; NALP2; NBS1; PAN1; PYPAF2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_017852 edited  
 GAATTCGGCACGAGGCTGCAGCCCTCATCTCCGCCGGCGAGTAGGGCCAGGTGTTGGGAG  
 CTCCCACGTGGGACAAGATGGTGTCTTCGGCGCAGATGGGCTTCAACCTGCAGGCTCTCC  
 TGGAGCAGCTCAGCCAGGATGAGTTGAGCAAGTTCAAGTATCTGATCACGACCTTCTCCC  
 TGGCACACGAGCTCCAGAAGATCCCCACAAGGAGGTAGACAAGGCTGATGGGAAGCAAC  
 TGGTAGAAATCCTCACCACCCATTGTGACAGCTACTGGGTGGAGATGGCGAGCCTCCAGG  
 TCTTTGAAAAGATGCACCGAATGGATCTGTCTGAGAGAGCAAAGGATGAAGTCAGAGAAG  
 CAGCTTTGAAATCCTTTAATAAAAAGGAAACCTCTATCATTAGGGATAACACGAAAGAAC  
 GACCACCTCTAGACGTGGACGAAATGCTGGAGCGCTTCAAACAGAAAGCACAAGCGTTTA  
 CAGAAAACGAAAGGAAATGTCATCTGCCTGGGTAAGAAGTCTTTAAAGGAAAAAGCCAG  
 ACAAAAGACAATAGGTGCAGGTATATATTGAAGACGAAGTCCGGGAGATGTGGAAGAGCT  
 GGCTGGAGATAGCAAAGAGTCCAGGTTATGGCTGAGAGATACAAGATGCTGATCCCAT  
 TCAGCAACCCAGGGTGCTTCCCGGCCCTTCTCATAACCGTGGTGTGTATGGTCCTG  
 CAGGCCTTGGGAAAACACGCTGGCCCAGAACTAATGCTAGACTGGGCAGAGGACAACC  
 TCATCCACAAATCAAATATGCGTTCTACCTCAGCTGCAGGGAGCTCAGCCGCTGGGCC  
 CGTGCAGTTTTGCAGAGCTGGTCTTCAGGGACTGGCCTGAATTGCAGGATGACATTCCAC  
 ACATCCTAGCCCAAGCACGGAATCTTGTTCGTGATTGACGGCTTTGATGAGCTGGGAG  
 CCGCACCTGGGGCGCTGATCGAGGACATCTGCGGGACTGGGAGAAGAAGAAGCCGGTGC  
 CCGTCTCCTGGGGAGTTTGTGAACAGGATGATGTTACCCAAGGCCGCCCTGCTGGTCA  
 CCACGCGCCCAAGGCCCTGAGGGACCTCCGGATCCTGGCGGAGGAGCCGATCTACATAA  
 GGGTGGAGGGCTTCTGGAGGAGACAGGAGGGCTATTTCTGAGACACTTTGGAGACG  
 AGGACCAAGCCATGCGTGCCTTTGAGCTAATGAGGAGCAACGCGGCCCTGTTCCAGCTGG  
 GCTCGGCCCCCGGGTGTGCTGGATCGTGTGCACGACTCTGAAGCTGCAGATGGAGAAGG  
 GGGAGGACCCGGTCCCCACCTGCCTCACCCGCACGGGGCTGTTCTCGCTTTCCTCTGCA  
 GCCGTTCCCGCAGGGCGCACAGCTGCGGGGCGCGCTGCGGACGCTGAGCCTCCTGGCCG  
 CGCAGGGCTGTGGGCGCAGACGTCCTGCTTACCGAGAGGATCTGAAAGGCTCGGGG  
 TGCAGGAGTCCGACCTCCGTCTGTCTGACGGAGACATCCTCCGCCAGGACAGAGTCT



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CCAAAGGCTGCTACTCCTTCATCCACCTCAGCTTCCAGCAGTTTCTCACTGCCCTGTTCT  
 ACACCCTGGAGAAGGAGGAGGAAGAGGATAGGGACGGCCACACCTGGGACATTGGGGACG  
 TACAGAAGCTGCTTCCGGAGTAGAAAGACTCAGGAACCCCGACCTGATCCAAGCAGGCT  
 ACTACTCCTTTGGCCTCGCTAACGAGAAGAGAGCAAGGAGTTGGAGGCCACTTTTGGCT  
 GCCGGATGTCACCGGACATCAAACAGGAATTGCTGCGATGCGACATAAGTTGTAAGGGTG  
 GACATTTAACGGTGACAGACCTGCAGGAGCTCCTCGCTGTCTGTACGAGTCTCAGGAGG  
 AGGAGCTGGTGAAGGAGGTGATGGCTCAGTTCAAAGAAAATATCCCTGCACCTAAATGCAG  
 TAGACGTTGTGCCATCTTCATTCTGCGTCAAGCACTGTCGAAACCTGCAGAAAATGTCAC  
 TGCAGGTAATAAAGGAGAATCTCCCGGAGAATGCTCACTGCGTCTGAATCAGACGCCGAGG  
 TTGAGAGATCCCAGGATGATCAGCACATGCTTCCTTTCTGGACGGACCTTTGTTCCATAT  
 TTGGATCAAATAAGGATCTGATGGGTCTAGCAATCAATGATAGCTTTCTCAGTGCCTCCC  
 TAGTAAGGATCCTGTGTGAACAAATAGCCTCTGACACCTGTCATCTCCAGAGAGTGGTGT  
 TCAAAAACATTTCCCAGCTGATGCTCATCGAACCTCTGCCTAGCTCTTCGAGGTCACA  
 AGACTGTAACGTATCTGACCCTCAAGGCAATGACCAGGATGATATGTTTCCCGCATTGT  
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 GCGTAAACCTCTCCGACAATGAGCTTCTGGATGAGGGTGCTAAGTTGCTGTACACAACTT  
 TGAGACACCCCAAGTGTCTTCTGCAGAGGTTGTCGTTGGAAAACCTGCACCTTACAGAAG  
 CCAATTGCAAGGACCTTGTCTGTGTGGTGTGTCAGCCGGGAGCTGACACACCTGTGCT  
 TGGCCAAGAACCCATTGGGAATACAGGGGTGAAGTTTCTGTGTGAGGGCTTGGAGTACC  
 CCGAGTGTAACTGCAGACCTTGGTGTCTTGGAACTGCGACATAACTAGCGATGGCTGTG  
 GCGATCTCACAAGCTTCTCAAGAAAAATCAAGCCTGTTGTGTTGGATCTGGGGCTGA  
 ATCACATAGGAGTTAAGGGAATGAAGTTCTGTGTGAGGCTTTGAGGAAACCACCTGTGCA  
 ACTTGAGATGCTGTGGTTGTGGGGATGTTCCATCCCTCCGTTTCAAGTGTGAAAGACCTCT  
 GCTCTGCCCTCAGCTGCAACCAGAGCCTCGTCACTCTGGACCTGGGTGAGAAATCCCTTGG  
 GGTCTAGTGGAGTGAAGATGCTGTTTGAACCTTACATGTTCCAGTGGCACCCCTCCGGA  
 CACTCAGGTTGAAAATAGATGACTTTAATGATGAACTCAATAAGCTGTTGGAAGAAATAG  
 AAGAAAAAACCCACAACCTGATTATTGATACTGAGAAACATCATCCCTGGGCAGAAAGGC  
 CTTCTTCTCATGACTTTCATGATCTGAATCCCCCGAGTCATTCTCCATGAAGTCAT  
 CGATTTTCCAGGTGTTGGTGAAGTGCCTGTGACTCCTCTCCTCCCGGCCCTACCCCTC  
 AGGGATAATGAGTTCATTGCTGGGCTAGATGTTTTAGCCATGATTCTGCCTCTGTTTTAT  
 ACCTGCACACATCCTTATCTTTGTACATATGAAATATCTGTATCACGGGTATATTGAGA  
 GAAATAAAGGTGAGAGCATTACAAATGAAAAAAAAAAAAAAAAAACTCGAC

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_017852 unedited  
 TCGGTTTTGTATACGACTCCTATAGGCGGCCGCGNATTCGGCACGAGGCTGCAGCCCTCA  
 TCTCCGCCGCGAGTAGGGCCAGGTGTTGGGAGCTCCACGTGGGACAAGATGGTGTCTT  
 CGGCGCAGATGGGCTTCAACCTGCAGGCTCTCCTGGAGCAGCTCAGCCAGGATGAGTTGA  
 GCAAGTTCAAGTATCTGATCACGACCTTCTCCCTGGCACACGAGCTCCAGAAGATCCCCC  
 ACAAGGAGGTAGACAAGGCTGATGGGAAGCAACTGGTAGAAATCCTCACCACCCATTGTG  
 ACAGCTACTGGGTGGAGATGGCGAGCCTCCAGGTCTTTGAAAAGATGCACCGAATGGATC  
 TGTCTGAGAGAGCAAAGGATGAAGTCAGAGAAGCAGCTTTGAAATCCTTTAATAAAGGA  
 AACCTCTATCATTAGGGATAACACGAAAGAACGACCCTCTAGACGTGGACGAAATGC  
 TGGAGCGCTTCAAACAGAAAGCACAAGCGTTTACAGAAACGAAAGGAAATGTCATCTGCC  
 TGGGTAAGAAGTCTTTAAAGGAAAAAGCCAGACAAAGACAATAGGTGCAGGTATATAT  
 TGAAGACGAAGTCCGGGAGATGTGGAAGAGCTGGCCTGGAGATAGCAAAGAGGTTCCAGG  
 TTATGGCTGAGAGATACAAGATGCTGATCCCATTCACACCCCCAGGGTGTCTCCCGGGC  
 CCTTCTATACACGGTGGTGTGATGGTCTGCNAGCCTTGGNGANACCGCTGGCCCA  
 GAACTATGCTAGACTGGGCAGAGGGACACCTCATCCACAATTCAAATATGCGTTTACCT  
 CAGCTGCAGGGAGCTCAGCCGCTGGGCCCGTGCAGTTTTGCCAGAGCTGGTCTTTTCAG  
 GNACTGCNNCTGAATTGCAGNATGACATTCACC

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_017852 unedited TTGCTTTGGACCGCGGGCCGCAATCTAGGGTCGAGTTTTTTTTTTTTTTTTTTTCATTGTG GAATGCTCTCACCTTTATTTCTCTCAATATACCCGTGATACAGATATTTTCATATGTAACA AAGATAAGGATGTGTGCAGGTATAAACAGAGGCAGAATCATGGCTAAAACATCTAGCCC AGCAATGAACTCATTATCCCTGAGGGTAGGGGCCGGGGAGGAGAGGAGTACAGGCAGT TCACCAACACCTGAAAAATCGATGACTTCATGGAGAATGAATGACTCGGGGGGATTCAGA TCATGAAGTCATGAGAAGAAGGCCTTTCTGCCAGGGATGATGTTTCTCAGTATCAATAA TCAGTTGGGGTTTTTTTTCTTCTATTTCTTCCAGCAGCTTATTGAGTTCATCATTAAAGT CATCTATTTTCAACCTGAGTGTCCGGAGGGTGCCACTGGAACATGTCAAGTTTTCAACA GCATCTTCACTCCACTAGACCCCAAGGGATTCTGACCCAGGTCCAGAGTGACGAGGCTCT GGTTGCAGCTGAGGGCAGAGCAGAGGTCTTCACAACTGAACGGAGGGATGGAACATCCCC ACAACCACAGACATCTCAAGTTGCACAGTGTTTCTCAAAGCCTCACACAGGAACCTTCA TTCCCTTAACTCCTATGTGATTCAGCCCCAGATCCAAACACAACAGGCTTGATTTTTCTT GGAGAAGCTTTGTGAGATCGCAGCAGCCATCGCTAGTTATGTGCGAGTTCAAAGCACCA AGGTCTGCAGTTTAACTCGGGTACCTCAAGCCCTCCACAGAACTTCACCCCTGTATTN CAATGGGGNTNCTGGNCCAAAGCACAGTGTGNTCAGCTCCCGGCTGACAACCAACACAGC AGCAGGTCTTGAATGNNCTTCTGTANGGTGACAGNNTTCAACGACAACCTTT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_017852
<b>Insert Size:</b>	3700 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_017852.1</a> , <a href="#">NP_060322.1</a>
<b>RefSeq Size:</b>	3531 bp
<b>RefSeq ORF:</b>	3189 bp
<b>Locus ID:</b>	55655
<b>UniProt ID:</b>	<a href="#">Q9NX02</a>
<b>Cytogenetics:</b>	19q13.42
<b>Domains:</b>	LRR, LRR_RI

**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 (1) encodes the longest isoform (1). Both variants 1 and 2 encode the same isoform (1).