

Product datasheet for SC124283

NALP12 (NLRP12) (NM_144687) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NALP12 (NLRP12) (NM_144687) Human Untagged Clone
Tag:	Tag Free
Symbol:	NALP12
Synonyms:	CLR19.3; FCAS2; NALP12; PAN6; PYPAF7; RNO; RNO2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_144687 edited

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CCCCATGCTACGAACCGCAGGCAGGGACGGCCTCTGTGCGCTGTCCACCTACTTGAAGA
ACTCGAGGCTGTGGAAGTGAAGAAGTTCAAGTTATACCTGGGGACCGGACAGAGCTGGG
AGAAGGCAAGATCCCCTGGGGAAGCATGGAGAAGGCCGGTCCCCTGGAAATGGCCAGCT
GCTCATCACCCACTTCGGGCCAGAGGAGCCTGGAGGTTGGCTCTCAGCACCTTTGAGCG
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CACTCCAAGAAAAGATCCCCAGGAAACCTACAGGGACTATGTCCGAGGAAATCCGGCT
CATGGAAGACCGCAATGCGCGCCTAGGGGAATGTGTCAACCTCAGCCACCGGTACACCCG
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AGGCCGGGGACACGCGAGGACCGTGGGACACCAGGCTAGCCCCATCAAGATAGAGACCT
CTTTGAGCCAGACGAGGAGCGCCCCGAGCCACCGCGCACCGTGGTCATGCAAGGCGCGGC
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CAAGCCTTCTTTCCACGATCCTCAGGGACCCTGGTGCCTCTGCTGGGAGGAGAAACGGCC
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TGTGGAGATCCTGGGCTTCTCTGAGGCAGAAAGGAAGGAATACTTCTACAAGTATTTCCA
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CATGTGCTTGGTCCCCCTGGTGTGCTGGGTGGTGTGTACCTGCCTCCAGCAGCAGCTGGA
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ATTCTTTGCAGCTATGTACTATATCCTGGACGAGGGGGAGGGCGGGGAGGCCAGACCA
GGACGTGACCAGGCTGTTGACCGAGTACGCGTTTTCTGAAAGGAGCTTCTGGCACTCAC
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GATCCAGGAGGAGGAGTTTATCCAGCAGGCCCTGAGCCACTTCCAGGTGATCGTGGTCAG
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CGCCAGGTGCTGCACTTGTATGGCGCCACCTACAGCGCGGACGGGGAAGACCGCGCGAG
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GACTCATGCAGATTGAGATCAAAAGTCCCTCTGCTTGGGATCAAATTAATGTTTGACAGA
GCTGGCCAGGCGTGGTGGCTCATGTATGTAATCCTAGCACTTCGAGAGGCCGAGGAGGT
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TAAAAATAAAAAAAATAGCCAGG

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**5' Read Nucleotide
Sequence:**

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>OriGene 5' read for NM_144687 unedited
NGGCAAGTCAAAATTTGTATACGACTCCTATAGCGGCCGCGNATTGCGCACAGCCCCA
TGCTACGAACCGCAGGCAGGGACGGCCTCTGTGCGCTGTCCACCTACTTGAAGAAGTCTG
AGGCTGTGGAAGTGAAGAAGTTCAAGTTATACCTGGGGACCGCGACAGAGCTGGGAGAAG
GCAAGATCCCCTGGGAAGCATGGAGAAGGCCGCTCCCCTGGAATGGCCCAGCTGCTCA
TACCCCACTTCGGGCCAGAGGAGGCCTGGAGGTTGGCTCTCAGCACCTTTGAGCGGATAA
ACAGGAAGGACCTGTGGGAGAGAGGACAGAGAGAGGACCTGGTGAGGGATACCCACCTG
GTGGCCCCGCTCACTTGGGAACCAAGTCAACATGCCTTCTGGAAGTCTCTTGTCACTC
CAAGAAAAGATCCCCAGGAAACCTACAGGGAATGTCCGAGGAAATCCGGCTCATGG
AAGACCGCAATGCGCGCCTAGGGGAATGTGTCAACCTCAGCCACCGGTACACCGGCTCC
TGCTGGTGAAGGAGCACTCAAACCCATGCAGGTCCAGCAGCAGCTTCTGGACACAGGCC
GGGGACACGCGAGGACCGTGGGACACAGGCTAGCCCCATCAAGATAGAGACCTCTTTG
AGCCAGACGAGGAGCGCCCCGAGCCACCGCGCACCGTGGTCATGCAAGGCGCGGACGGGA
TAGGCAAGTCCATGCTGGCACACAANGTATGNCTGACTGGGGCGACGGGAAGCTCTTCC
AGGCAGATTTGATTATTCTCTACATCAACTGCAGGGAGATGAACCAGAGTGCCACGGA
ATGCAGCATGNCAGACCTCATCTTCAGCTGCTGGCCTGAGCCACGCGCC

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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_144687 unedited <pre> CCCTCGTGGAGTGATGTTCTTCTTTCTTAGTAAANACAGGGTTTCACCATCTTGTGCCAG CTAATCTCAAACCTCTGACCTCGTGATCCACCTGCCTCGGCCTCTCGAAGTGCTAGGATT ACATACATGAGCCACCACGCCTGGCCAGCTCTGTCAAACATTAATTTGATCCCAAGCAGA GGGACTTTTGATCTCAATCTGCATGAGTCAGTCTCTAGGAAGGAGGCTGATCATTATGCT GGGGGGGTGATGAGCACCTCCCATCTTCTCTGTCCAGATCTCAGGGGAGAGCCAGCAG ATAGGACCATTTCAGCAGCCAATGTCCAAATAAGGTTTTGTTACTCGAAGCGCTGCCAACC TACTGTGGGTCATTTTATTCAGGTCCATCCCAAATAACCAGAGGACTCGGAGTTTGCAGC CAGGATGGCTCAACCGCTTGCAAAGCAGTCGGACACCTGTGTCCCTAGGGCGTTGTTGG TCAGGTAAGGTCCGACAAGGTCTGTTGGTCCCCAGGGTGAAGTAAAGATTCTCACAAG CCTTGGCTGTGAGGGCACAGCTTCCAGCCCTAGGGTCTGGACCTTGACCGTGGGATGC CCTGAGCCCTCACACAGCAGCAGCGCCCCAGAGTTCCCCCAAATCAATCAAGGCTCAGG TCCCGCTCTCTTAGGCTCTGGTTCACCCTTGAGTTTGAGTGCCCGACCGGTTCCAAG CGAGCAGGCAGTGAGGCTGCCTCCCTTCTCCCCAAAAGTCTCCCTGTGTGGAGACCCGA GTGCCCTATATTCCTCGTACTAGAAACCCGAGGAGCCAATTACTTCAGTGATATTATC TGTGAGGGGCACCTAAACCACATAGTGGTTGGACGCCTCACACATAACCTACTACCTAG ATGGACCGTTCTATAATGTACCTTGTCAGAGAGATATCATCGACCCACACATGCGT AATGGCTTGAAN </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_144687
Insert Size:	4000 bp
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.
RefSeq:	<u>NM_144687.1, NP_653288.1</u>
RefSeq Size:	3827 bp
RefSeq ORF:	3186 bp
Locus ID:	91662
UniProt ID:	<u>P59046</u>
Cytogenetics:	19q13.42
Domains:	LRR, PAAD_DAPIN

Gene Summary:

This gene encodes a member of the CATERPILLER family of cytoplasmic proteins. The encoded protein, which contains an N-terminal pyrin domain, a NACHT domain, a NACHT-associated domain, and a C-terminus leucine-rich repeat region, functions as an attenuating factor of inflammation by suppressing inflammatory responses in activated monocytes. Mutations in this gene cause familial cold autoinflammatory syndrome type 2. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2013]

Transcript Variant: This variant (2) uses an alternate splice site in the central coding region, compared to variant 3, resulting in an isoform (2) that is 1 aa shorter than isoform 3.