

Product datasheet for **RG207045**

NALP12 (NLRP12) (NM_144687) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NALP12 (NLRP12) (NM_144687) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NALP12
Synonyms:	CLR19.3; FCAS2; NALP12; PAN6; PYPAF7; RNO; RNO2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207045 representing NM_144687 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTACGAACCGCAGGCAGGGACGGCCTCTGTCGCCTGTCCACCTACTTGAAGAAGCTCGAGGCTGTGG
AACTGAAGAAGTTCAAGTTATACCTGGGGACCGGACAGAGCTGGGAGAAGGCAAGATCCCTGGGGAAAG
CATGGAGAAGGCCGGTCCCCTGGAAATGGCCAGCTGCTCATCACCCTTCGGGCCAGAGGAGGCCTGG
AGGTTGGCTCTCAGCACCTTTGAGCGGATAAACAGGAAGGACCTGTGGGAGAGAGGACAGAGAGAGGACC
TGGTGAGGGATACCCACCTGGTGGCCCGTCTCACTTGGGAACCAAGTCAACATGCCTTCTGGAAGTCTC
TCTTGTCACCTCAAGAAAAGATCCCCAGGAAACCTACAGGGACTATGTCCGAGGAAATCCGGCTCATG
GAAGACCGCAATGCGCGCCTAGGGGAATGTGTCAACCTCAGCCACCGGTACACCCGGCTCCTGCTGGTGA
AGGAGCACTCAAACCCCATGCAGGTCCAGCAGCAGCTTCTGGACACAGGCCGGGGACACGCGAGGACCGT
GGGACACCAGGCTAGCCCATCAAGATAGAGACCCTCTTTGAGCCAGACGAGGAGCGCCCGAGCCACCG
CGCACCGTGGTCATGCAAGGCGCGCAGGGATAGGCAAGTCCATGCTGGCACACAAGGTGATGCTGGACT
GGGCGGACGGGAAGCTCTTCAAGGCAGATTTGATTATCTCTTACATCAACTGCAGGGAGATGAACCA
GAGTGCCACGGAATGCAGCATGCAAGACCTCATCTTTCAGCTGCTGGCCTGAGCCAGCGCCCTCTCCAG
GAGCTCATCCGAGTTCGAGCGCCTCTTTTCATCATCGACGGCTTCGATGAGCTCAAGCCTTCTTTCC
ACGATCCTCAGGGACCCTGGTGCCTCTGCTGGGAGGAGAAACGGCCACGGAGCTGCTTCTTAACAGCTT
AATTTCGGAAGAAGCTGCTCCCTGAGCTATCTTTGCTCATCACCACACGGCCACGGCTTTGGAGAAGCTC
CACCGTCTGCTGGAGCACCCAGGCATGTGGAGATCCTGGGCTTCTCTGAGGCAGAAAGGAAGAACTACT
TCTACAAGTATTTCCACAATGCAGAGCAGGCGGGCCAAGTCTTCAATTACGTGAGGGACAACGAGCCTCT
CTTACCATGTGCTTCGTCCTTGGTGTGCTGGGTGGTGTACCTGCCTCCAGCAGCAGCTGGAGGGT
GGGGGGCTGTTGAGACAGACGTCCAGGACCACCACTGCAGTGTACATGCTCTACCTGCTGAGTCTGATGC
AACCAAGCCGGGGCCCGCCTCCAGCCCCACCAACCAGAGAGGGTTGTGCTCCTGGCGGCAGA
TGGGCTCTGGAATCAGAAAATCCTATTTGAGGAGCAGGACCTCCGGAAGCACGGCTAGACGGGGAAGAC



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GTCTCTGCCTTCCTCAACATGAACATCTTCCAGAAGGACATCAACTGTGAGAGGTACTACAGCTTCATCC
 ACTTGAGTTTCCAGGAATTTCTTTCAGCTATGTACTATATCCTGGACGAGGGGGAGGGCGGGGCAGGCC
 AGACCAGGACGTGACCAGGCTGTTGACCAGTACGCGTTTTCTGAAAGGAGCTTCTGGCACTCACCAGC
 CGCTTCTGTTTGGACTCCTGAACGAGGAGACCAGGAGCCACCTGGAGAAGAGTCTCTGTGGAAGGTCT
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 GCAGGGCTCCTTGGAGTTCTTCAGCTGCTGTACGAGATCCAGGAGGAGGAGTTTATCCAGCAGCCCTG
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 TGAAGCGCTGCAGGAGCGCCAGGTGCTGCACCTGTATGGCGCCACTACAGCGCGGACGGGAAGACCG
 CGCGAGGTGCTCCGACGAGCGCACACGCTGTTGGTGCAGCTACCAGAGAGGACCGTTCTGCTGGACGCC
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 GAGGCTGAAGAGGTGCCGCATCTCCAGCTCAGCCTGCGAGGACCTCTCTGCAGCTCATAGCCAATAAG
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 CTGTGGTGTCCAGGCCAACCAACCTCCGGGAGCTGGACTTGAGTTTCAACGACCTGGGAGACTGGGG
 CCTGTGGTGTGCTGAGGGGCTGCAACATCCCGCTGCAGACTCCAGAACTGTGGCTGGATAGCTGT
 GGCCTCACAGCCAAGGCTTGTGAGAATCTTTACTTCACCCTGGGGATCAACCAGACCTTGACCGACCTT
 ACCTGACCAACAACGCCCTAGGGGACACAGGTGTCGACTGCTTGAAGCGGCTGAGCCATCTGGCTG
 CAAACTCCGAGTCTCTGTTATTTGGGATGGACCTGAATAAAAATGACCCACAGTAGGTTGGCAGCGCTT
 CGAGTAACAAAACCTTATTTGGACATTGGCTGC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG207045 representing NM_144687
 Red=Cloning site Green=Tags(s)

MLRTAGRDGLCRLSTYLEELEAVELKFKLYLGTATELGEGKIPWGSMEKAGPLEMAQLLITHFPEEAW
 RLALSTFERINRDLWERGQREDLVRDTPPGPSSLGNQSTCLLEVSLVTPRKDPQETYRDYVRRKFRML
 EDNRNARLGEVNLSHRYRLLLVEHSNPMQVQQQLLDTGRGHARTVGHQASPIKIETLFEPDEERPEPP
 RTVVMQGAAGIGKSM LAHKVMLDWADGKLFQGRFDYLFYINCREMNQSATECSMQDLIFSCWPEPSAPLQ
 ELIRVPERLLFIIDGFDELKPSFHDPQGPWCLCWEERKPTTELLNSLIRKLLPELSLLITTRPTALEKL
 HRLLLEHPRHVEILGFSEAERKEYFYKYFHNAEQAGQVFNYYVRDNEPLFTMCFVPLVCWVVTCLQQLEG
 GGLLRQTSRTTAVYMLYLLSLMQPKPGAPRLQPPPNQRGLCSLAADGLWNQKILFEEQDLRKHGLDGED
 VS AFLNMNIFQKDINCERYYSFIHLSFQEFFAAMYIILDEGEGGAGPDQDVTRLLTEYAFSERSFLALTS
 RFLFGLLNEETRSHLEKSLCWKVSPIKMDLLQWIQSKAQSDGSTLQQGSLEFFSCLYEIQEEEFIQQAL
 SHFQVIIVVSNIAKMEHMVSSFCLKRCSRSAQVLHLYGATYSADGEDRARCSAGAHTLLVQLPERTVLLDA
 YSEHLAALCTNPNI IELSLYRNALGSRGVKLLCQGLRHPNCKLQNLRLKRCRISSACEDLSAAL IANK
 NLTRMDLSGNGVGFPGMMLLCEGLRHPQCRLQMIQLRKCQLESGACQEMASVLTNPVHVELDLTGNAL
 DLGLRLLCQGLRHPVCRRLTLWLKICRLTAAACDELASTLSVNQSLRELDLSNELGDLGVLLLCEGLRH
 PTCKLQTLRLGICRLGSAACEGLSVVLQANHNLRDLDFNDLGDWGLWLLAEGHQHPACRLQKLWLDSC
 GLTAKACENLYFTLGINQTLTDLYL TNNALGDTGVRLCKRLSHPGCKLRVWLFGMDLNKMTSRLAAL
 RVTKPYLDIGC

SGPTRRRLE - GFP Tag - V

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:


ACCN: NM_144687

ORF Size: 3183 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:

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_144687.4](#)
RefSeq Size: 3827 bp

RefSeq ORF: 3186 bp

Locus ID: 91662

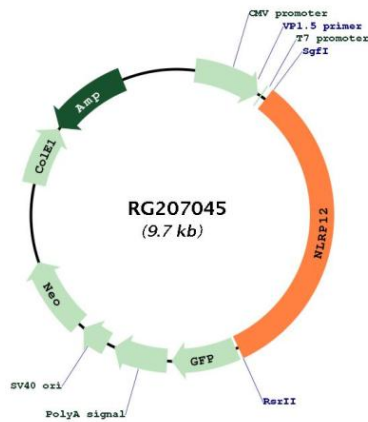
UniProt ID: [P59046](#)

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]

Product images:



Circular map for RG207045