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Product datasheet for RC216538

NALP1 (NLRP1) (NM_014922) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NALP1 (NLRP1) (NM_014922) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NLRP1
Synonyms:	AIADK; CARD7; CIDED; CLR17.1; DEFCAP; DEFCAP-L/S; JRRP; MSPC; NAC; NALP1; PP1044; SLEV1; VAMAS1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC216538 representing NM_014922 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCTGGCGGAGCCTGGGGCCGCCTGGCCTGTTACTTGGAGTTCCTGAAGAAGGAGGAGCTGAAGGAGT TCCAGCTTCTGCTCGCCAATAAAGCGCACTCCAGGAGCTCTTCGGGTGAGACACCCGCTCAGCCAGAGAA GACGAGTGGCATGGAGGTGGCCTCGTACCTGGTGGCTCAGTATGGGGAGCAGCGGGCCTGGGACCTAGCC CTCCATACCTGGGAGCAGATGGGGCTGAGGTCACTGTGCGCCCAAGCCCAGGAAGGGGCAGGCCACTCTC CCTCATTCCCCTACAGCCCAAGTGAACCCCACCTGGGGTCTCCCAGCCAACCCACCTCCACCGCAGTGCT AATGCCCTGGATCCATGAATTGCCGGCGGGGTGCACCCAGGGCTCAGAGAGAAGGGTTTTGAGACAGCTG CCTGACACATCTGGACGCCGCTGGAGAGAAATCTCTGCCTCACTCCTCTACCAAGCTCTTCCAAGCTCCC CAGACCATGAGTCTCCAAGCCAGGAGTCACCCAACGCCCCCACATCCACAGCAGTGCTGGGGAGCTGGGG ATCCCCACCTCAGCCCAGCCTAGCACCCAGAGAGCAGGAGGCTCCTGGGACCCAATGGCCTCTGGATGAA ACGTCAGGAATTTACTACACAGAAATCAGAGAAAGAGAGAGAGAGAAATCAGAGAAAGGCAGGCCCCCAT GGGCAGCGGTGGTAGGAACGCCCCCACAGGCGCACACCAGCCTACAGCCCCACCACCACCCATGGGAGCC TTCTGTGAGAGAGAGCCTCTGTTCCACATGGCCCTGGAAAAATGAGGATTTTAACCAAAAATTCACACAG CTGCTACTTCTACAAAGACCTCACCCCAGAAGCCAAGATCCCCTGGTCAAGAGAAGCTGGCCTGATTATG TGGAGGAGAATCGAGGACATTTAATTGAGATCAGAGACTTATTTGGCCCAGGCCTGGATACCCAAGAACC TCGCATAGTCATACTGCAGGGGGCTGCTGGAATTGGGAAGTCAACACTGGCCAGGCAGGTGAAGGAAGCC TGGGGGAGAGGCCAGCTGTATGGGGACCGCTTCCAGCATGTCTTCTACTTCAGCTGCAGAGAGCTGGCCC AGTCCAAGGTGGTGAGTCTCGCTGAGCTCATCGGAAAAGATGGGACAGCCACTCCGGCTCCCATTAGACA GATCCTGTCTAGGCCAGAGCGGCTGCTCTTCATCCTCGATGGTGTAGATGAGCCAGGATGGGTCTTGCAG GAGCCGAGTTCTGAGCTCTGTCTGCACTGGAGCCAGCCACAGCCGGCGGATGCACTGCTGGGCAGTTTGC TGGGGAAAACTATACTTCCCGAGGCATCCTTCCTGATCACGGCTCGGACCACAGCTCTGCAGAACCTCAT TCCTTCTTTGGAGCAGGCACGTTGGGTAGAGGTCCTGGGGTTCTCTGAGTCCAGCAGGAAGGAATATTTC

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Protein Sequence:

>RC216538 representing NM_014922
Red=Cloning site Green=Tags(s)

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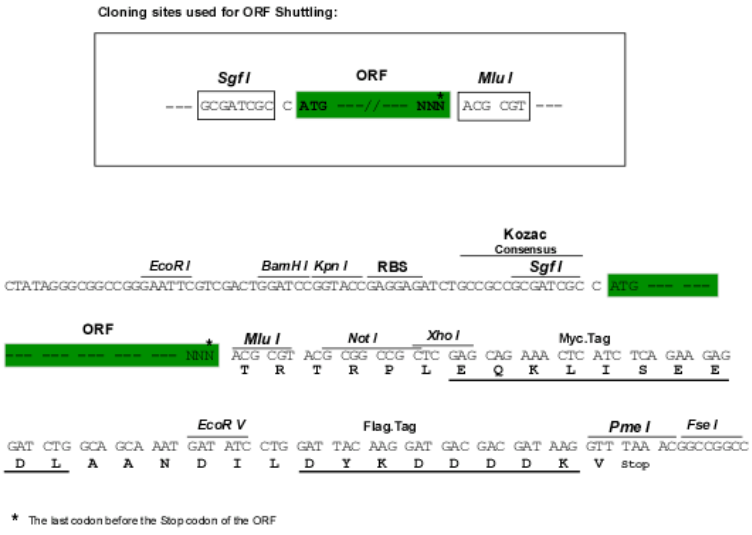
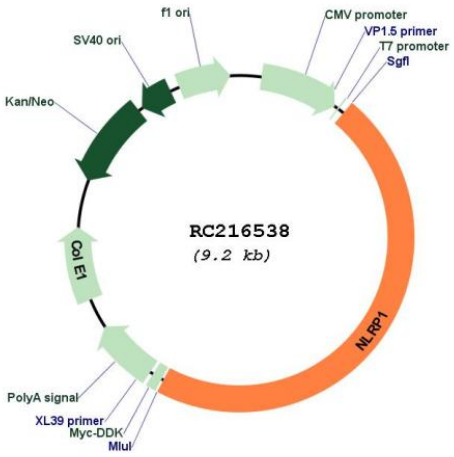
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_014922
ORF Size:	4287 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_014922.5
RefSeq Size:	5491 bp
RefSeq ORF:	4290 bp
Locus ID:	22861
UniProt ID:	Q9C000
Cytogenetics:	17p13.2
Domains:	LRR, LRR_RI, PAAD_DAPIN
Protein Families:	Druggable Genome
Protein Pathways:	NOD-like receptor signaling pathway
MW:	160.9 kDa
Gene Summary:	This gene encodes a member of the Ced-4 family of apoptosis proteins. Ced-family members contain a caspase recruitment domain (CARD) and are known to be key mediators of programmed cell death. The encoded protein contains a distinct N-terminal pyrin-like motif, which is possibly involved in protein-protein interactions. This protein interacts strongly with caspase 2 and weakly with caspase 9. Overexpression of this gene was demonstrated to induce apoptosis in cells. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene, but the biological validity of some variants has not been determined. [provided by RefSeq, Jul 2008]