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Product datasheet for RC216481

NALP1 (NLRP1) (NM_033004) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NALP1 (NLRP1) (NM_033004) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NALP1
Synonyms:	AIADK; CARD7; CIDED; CLR17.1; DEFCAP; DEFCAP-L/S; JRRP; MSPC; NAC; NALP1; PP1044; SLEV1; VAMAS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC216481 representing NM_033004
Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC216481 representing NM_033004
Red=Cloning site Green=Tags(s)

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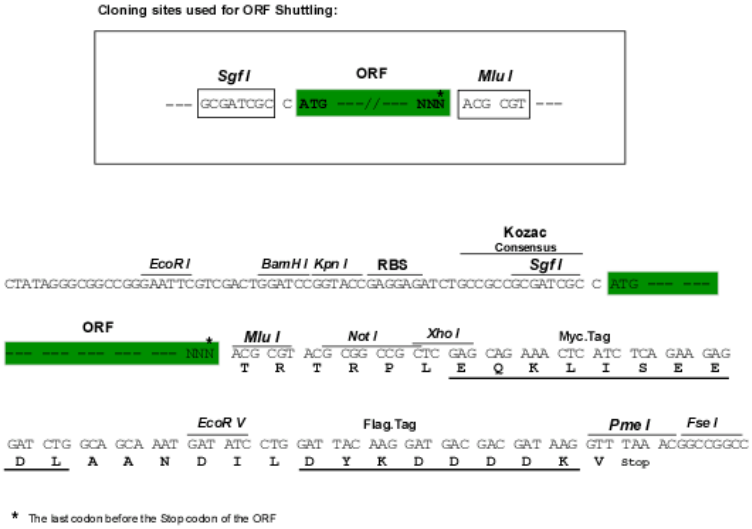
Chromatograms: https://cdn.origene.com/chromatograms/mk6224_d01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033004

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ORF Size:	4419 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_033004.4
RefSeq Size:	5617 bp
RefSeq ORF:	4422 bp
Locus ID:	22861
UniProt ID:	Q9C000
Cytogenetics:	17p13.2
Protein Families:	Druggable Genome
Protein Pathways:	NOD-like receptor signaling pathway
MW:	165.7 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]

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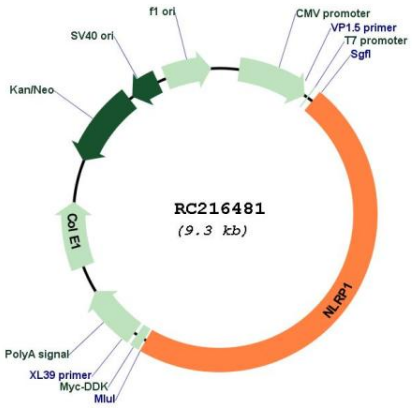
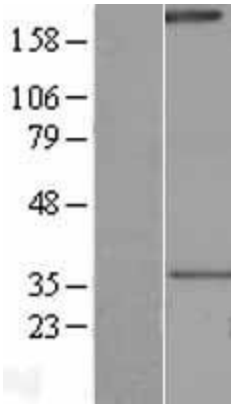
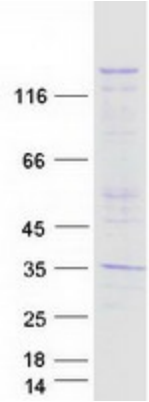
Product images:



Circular map for RC216481



Western blot validation of overexpression lysate (Cat# [LY409802]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216481 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NLRP1 protein (Cat# [TP316481]). The protein was produced from HEK293T cells transfected with NLRP1 cDNA clone (Cat# RC216481) using MegaTran 2.0 (Cat# [TT210002]).

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