

Product datasheet for MR216094

Naip2 (NM_010872) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Naip2 (NM_010872) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Naip2
Synonyms: Birc1b; Naip-rs6
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR216094 representing NM_010872
 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >MR216094 representing NM_010872
 Red=Cloning site Green=Tags(s)

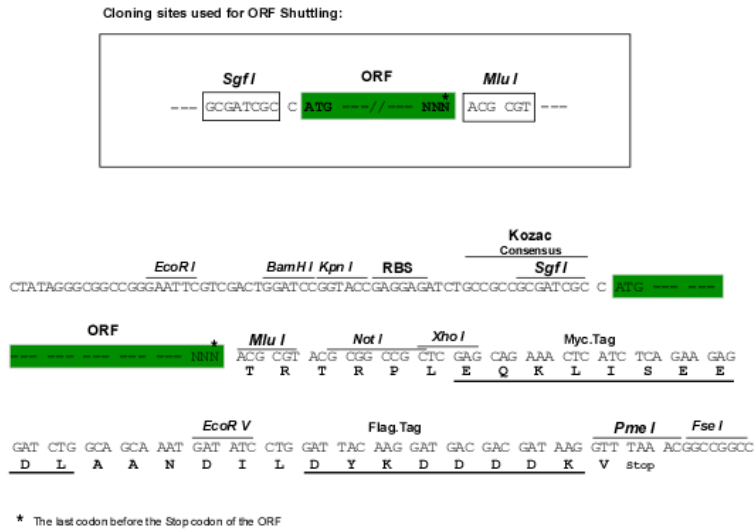
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Chromatograms: https://cdn.origene.com/chromatograms/mm9105_c06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

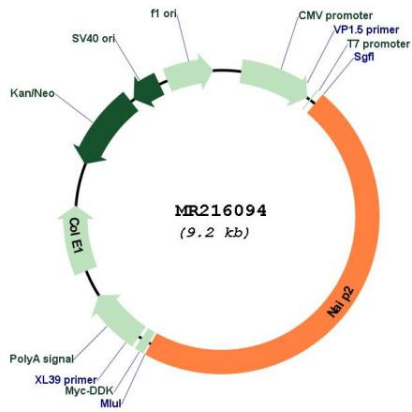


ACCN: NM_010872

ORF Size: 4341 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:	<ol style="list-style-type: none">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_010872.3 , NP_035002.2
RefSeq Size:	4853 bp
RefSeq ORF:	4344 bp
Locus ID:	17948
UniProt ID:	Q9QUK4
Cytogenetics:	13 53.01 cM
MW:	164.1 kDa
Gene Summary:	Sensor component of the NLRC4 inflammasome that specifically recognizes and binds type III secretion system (T3SS) rod proteins such as <i>S.typhimurium</i> (Salmonella) PrgJ and <i>B.thailandensis</i> BsaK from pathogenic bacteria. Association of pathogenic bacteria proteins drives in turn drive assembly and activation of the NLRC4 inflammasome, promoting caspase-1 activation, cytokine production and macrophage pyroptosis. The NLRC4 inflammasome is activated as part of the innate immune response to a range of intracellular bacteria. The NLRC4 inflammasome senses Gram-negative bacteria such as <i>L.pneumophila</i> and <i>P.aeruginosa</i> , enteric pathogens <i>S.typhimurium</i> (Salmonella) and <i>S.flexneri</i> . Prevents motor-neuron apoptosis induced by a variety of signals.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216094