

Datasheet for ABIN4945585

Human NLRP8 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	NALP8 (NLRP8)
Species:	Human
Fusion tag:	DYKDDDDK Tag
Insert:	ORF
Vector:	Mammalian Expression Vector
Application:	Protein Expression (PExp)

Product Details

Purpose:	Expression/transfection ready cDNA ORF clone of Human NLRP8 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	3147 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGAGTGACG TGAATCCACC CTCTGACACC CCCATTCCCT TTTCATCCTC CTCCACTCAC AGTTCTCATA TTCCGCCCTG GACATTCTCT TGCTACCCCG GCTCCCCATG TGAAAATGGG GTCATGCTGT ACATGAGAAA CGTGAGCCAT GAGGAGCTAC AACGGTTCAA GCAGCTCTTA CTGACTGAGC TCAGTACTGG CACCATGCCC ATCACCTGGG ACCAGGTCGA GACAGCCAGC TGGGCAGAGG TGGTTCATCT CTTGATAGAG CGTTTCCCTG GACGACGCGC TTGGGATGTG

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ACTTCGAACA TCTTTGCCAT TATGAACTGT GATAAAATGT GTGTTGTAGT CCGCAGAGAG
ATAAATGCCA TTCTGCCTAC CTTGGAACCA GAGGACTTGA ATGTGGGAGA AACACAGGTG
AATCTGGAGG AAGGAGAATC TGGTAAAATA CGGCGGTATA AATCGAATGT GATGGAAAAG
TTTTTCCCCA TATGGGACAT TACGACTTGG CCTGGAAACC AGAGGGACTT CTTCTACCAA
GGTGACACA GGCACGAGGA GTAATTACCA TGTCTGCTTC TGCCCCAAAG ACCCCAGGGT
AGACAGCCCC AGACCGTGGC CATACAGGGA GCTCCTGGGA TCGGAAAAAC AATCCTGGCC
AAAAAGGTGA TGTTTGAGTG GGCCAGAAAC AAGTTCTACG CCCACAAGCG CTGGTGTGCT
TTCTACTTCC ATTGCCAAGA GGTGAACCAG ACGACAGACC AGAGCTTCTC CGAGCTGATT
GAGCAAAAAGT GGCCTGGATC TCAGGACCTC GTGTCAAAGA TTATGTCCAA ACCCGACCAA
CTTCTGCTGC TCTTGATGG CTTTGAGGAG CTCACATCTA CCCTCATTGA CAGACTGGAG
GACCTGAGTG AAGACTGGAG GCAGAAATTG CCTGGGTCTG TCCTACTGAG CAGTTTGCTG
AGCAAAACGA TGCTTCCAGA GGCCACGCTA CTGATCATGA TAAGATTTAC CTCTTGGCAG
ACATGCAAGC CTTTGCTGAA ATGTCCCTCT CTCGTAACCC TTCCGGGGTT TAATACGATG
GAAAAAATCA AGTATTTCCA GATGTATTTT GGACACACAG AGGAGGGAGA CCAAGTCTTG
AGTTTCGCCA TGGAACAC CATTCTCTTC TCCATGTGCC GGGTCCCTGT GGTTCGCTGG
ATGGTCTGCT CTGGTCTGAA ACAGCAAATG GAGAGAGGAA ACAATCTCAC ACAGTCATGT
CCAAATGCCA CCTCTGTGTT CGTCCGGTAT ATTTCTAGCT TGTTTCCAC CAGAGCTGAG
AACTTTTCCA GAAAGATCCA CCAAGCACAA CTGGAAGGTC TGTGTCACTT GGCCGCAGAC
AGCATGTGGC ACAGGAAATG GGTGTTAGGT AAAGAAGATC TTGAGGAAGC CAAGCTGGAT
CAGACGGGAG TCACCGCCTT CCTTGGCATG AGTATTCTTC GGAGAATTGC AGGTGAGGAA
GACCACTATG TCTTTACCCT CGTGACTTTT CAGGAATTTT TTGCGGCCTT GTTTTATGTT
CTCTGTTTCC CACAAAGACT CAAAAATTTT CATGTGTTGA GCCACGTGAA TATCCAGCGC
CTGATAGCGA GTCCCAGAGG AAGCAAAAGC TATCTCTCTC ACATGGGACT TTTCTTATTC
GGTTTTCTGA ACGAGGCCTG CGCTTCGGCC GTGGAACAGT CATTCCAATG CAAGGTGTCT
TTCGGTAATA AGAGGAAACT GCTGAAAGTC ATACCTCTGT TGCATAAATG TGACCCACCT
TCTCCGGGCA GTGGGGTCCC GCAGTTATTC TACTGTCTGC ATGAAATCCG GGAGGAAGCC
TTTGTAAGCC AAGCCCTAAA TGATTATCAT AAAGTTGTCT TGAGAATTGG CAACAACAAA
GAAGTTCAAG TGTCTGCTTT TTGCCTGAAG CGGTGTCAAT ATTTGCATGA GGTGGAAGT
ACCGTCACCC TGAATTCAT GAACGTGTGG AAGCTCAGCT CCAGCTCCCA TCCTGGCTCT
GAAGCGCCAG AGAGCAATGG GCTGCATCGT TGGTGGCAAG ACTTATGCTC TGTGTTTGCA
ACGAATGATA AGCTGGAAGT CCTGACTATG ACCAACAGTG TTTTGGGGCC TCCTTTTTTG
AAGGCTCTCG CGGCCGCACT GAGGCACCCT CAGTGCAAAC TGCAAAAGCT ACTCCTAAGG
CGTGTGAATA GCACCATGTT GAACCAGGAC TTAATCGGTG TTTTGACGGG GAACCAGCAT
CTGAGATACT TGAAATACA ACATGTGGAA GTGGAGTCCA AAGCTGTGAA GCTTCTATGC
AGGGTGCTGA GATCCCCCG GTGCCGTCTG CAGTGTCTCA GGTTGGAAGA CTGCTTGGCC
ACCCCTAGAA TTTGGACTGA TCTTGCAAT AATCTTCAAG GTAACGGGCA TCTAAAGACT

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Product Details

CTCATACTAA GAAAAAACTC CCTGGAGAAC TGTGGGGCGT ATTACCTGTC TGTGGCCCAG
CTGGAGAGGC TGTCGATAGA GAACTGCAAC CTTACACAGC TTACTTGTGA AAGCCTTGCC
TCCTGTCTCA GGCAGAGTAA GATGCTGACC CACCTGAGCT TGGCAGAAAA CGCCTTGAAA
GATGAAGGGG CCAAGCATAT TTGGAATGCC CTGCCACACC TGAGATGTCC TCTGCAGAGG
CTGGTACTGA GAAAGTGTGA CTTGACCTTT AATTGCTGTC AGGATATGAT CTCTGCGCTC
TGTA AAAATA AAACCCTGAA AAGTCTTGAC CTAAGTTTTA ATAGCCTGAA GGATGATGGG
GTGATCCTGC TGTGTGAGGC CCTGAAGAAC CCTGACTGTA CATTACAGAT CCTGGAGCTG
GAAAACTGCC GTTTCACCTC CATCTGCTGC CAGGCCATGG CTTCCATGCT CCGCAAAAAC
CAACATCTGA GACATCTGGA CTTGAGCAAG AATGCGATTG GAGTCTATGG TATTCTGACC
TTGTGCGAGG CCTTCTCAAG CCAAAAGAAG AGAGAAGAGG TCATTTTCTG TATTCCTGCC
TGGACTCGAA TAACTAGCTT CTCCCCAACT CCTCACCCAC CCGACTTCAC GGGAAAAAGT
GACTGCCTAT CCCAGATTAA TCCTTAG

Specificity:	ORF Insert Method: CloneEZ® Seamless cloning technology, recombination-based cloning technology
Characteristics:	Gene cDNA ORF clone sequences were retrieved from the NCBI Reference Sequence Database (RefSeq). These sequences represent the protein coding region of the gene cDNA ORF which is encoded by the open reading frame (ORF) sequence.
Sequencing Primer:	• Forward primer: 5'-TAATACGACTCACTATAGGG-3' • Reverse primer: 5'-CCTCGACTGTGCCTTCTA-3'
Grade:	End-sequenced
Components:	The GenEZ ORF clone is delivered as 10 µg of lyophilized plasmid DNA in a vial.

Target Details

Gene:	NALP8 (NLRP8)
Alternative Name:	NLRP8 (NLRP8 Products)
Background:	NALPs are cytoplasmic proteins that form a subfamily within the larger CATERPILLER protein family. Most short NALPs, such as NALP8, have an N-terminal pyrin (MEFV, MIM 608107) domain (PYD), followed by a NACHT domain, a NACHT-associated domain (NAD), and a C-terminal leucine-rich repeat (LRR) region. The long NALP, NALP1 (MIM 606636), also has a C-terminal extension containing a function to find domain (FIIND) and a caspase recruitment domain (CARD). NALPs are implicated in the activation of proinflammatory caspases (e.g., CASP1, MIM 147678) via their involvement in multiprotein complexes called inflammasomes (Tschopp et al., 2003 [PubMed 12563287]).[supplied by OMIM, Mar 2008].

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Target Details

Gene ID: 126205

NCBI Accession: [NM_176811](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Storage: RT/-20 °C

Storage Comment:

- Keep the vial sealed and store at -20°C for long-term storage.
- Before use, centrifuge the vial at 6,000 g x g for 1 minute at 4°C.
- Open the lid and add 100 µl (or other volume depending on your desired final concentration) of distilled water (or TE buffer) to dissolve the DNA.
- If necessary, heat the solution at 50°C for 15 minutes to dissolve the DNA.
- Close the lid and vortex the vial for 1 minute.
- Aliquot the dissolved plasmid DNA and store in small aliquots at -20°C.

Expiry Date: 12 months

Publications

Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)