OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR225900

Nod1 (NM_172729) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nod1 (NM_172729) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nod1
Synonyms:	C230079P11; Card4; F830007N14Rik; Nlrc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

ORF Nucleotide Sequence:

>MR225900 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGAACACGGCCATCATGAGATGGAAGGCACCCCATTGGGTTGTCACTCCCACATTAAACTGCTGA
AGATCAACAGGGAACATCTGGTCACCAACATTCGGAACACTCAGTGTCTGGTGGACAACTTGCTGGAGAA
TGGCTACTTCTCAGCCGAAGATGCAGAGATTGTGTGTGCCTGTCCCACCAAGCCTGACAAGGTCCGAAAG
ATCCTTGACCTGGTGCAGAGCAAAGGCGAGGAGGTGTCTGAGTTCTTCCTCTACGTGCTGCAGCAGCTGG
AGGATGCTTACGTGGACCTCAGGCTGTGGCTCTCAGAAATTGGCTTCTCCCCTTCCCAGCTCATTCGGAC
CAAAACTATCGTCAATACTGACCCAGTAAGCAGGTATACCCAACAGCTGCGACACCAACTGGGCCGCGAC
TCCAAGTTCATGCTGTGCTACGCCCAGAAGGAGGACCTGCTGCTGGAGGAGACCTATATGGACACACTCA
TGGAGCTGGTAGGCTTCAACAATGAAAACCTGGGCAGCCTAGGAGGCCTGGATTGCCTGCTGGACCACAG
TACGGGCGTCCTCAACGAGCATGGCGAGACTGTCTTCGTGTTCGGGGACGCGGGAGTGGGCAAGTCCATG
CTGCTGCAGAGGTTGCAGAGCCTCTGGGCGTCAGGCAGGTTGACCTCCACAGCCAAATTCTTCTTCCACT
TCCGCTGCCGCATGTTCAGCTGCTTCAAGGAGAGCGACATGCTGAGTCTGCAGGACCTGCTCTTCAAGCA
TTTCTGCTACCCGGAGCAGGACCCCGAGGAGGTGTTCTCCTTCTTGCTGCGCTTTCCCCACACAGCGCTC
TTCACTTTTGACGGCCTGGATGAGCTGCACTCAGACTTCGACCTGAGCCGCGTGCCGGATAGCTGCTGCC
CCTGGGAGCCGGCTCACCCTCTGGTCCTGCTGGCTAACCTCCTAAGTGGGAGGCTGCTCAAGGGTGCCGG
CAAATTGCTCACTGCTCGCACAGGCGTGGAGGTCCCCCGCCAGCTCCTGCGCAAAAAGGTGCTGCTCCGG
GGCTTCTCCCCAAGTCACCTGCGCGCCTATGCCCGCCGGATGTTCCCCGAGCGCACAGCGCAGGAGCATC
TGCTGCAGCAGCTGGATGCCAACCCCAACCTCTGCAGCCTGTGCGGGGTGCCGCTCTTCTGTTGGATCAT
CTTCCGTTGTTTCCAGCACTTCCAGACGGTCTTCGAGGGCTCCTCTTCACAGTTGCCGGACTGTGCTGTG
ACCCTGACCGATGTCTTTCTGCTGGTCACTGAGGTGCATCTGAACAGGCCGCAGCCCAGCAGCCTGGTGC
AGCGCAACACGCGCAGCCCGGCGGAAACCCTACGTGCAGGCTGGCGCACGCTGCATGCGCTGGGAGAGGT
GGCTCACCGAGGCACCGACAAGAGCCTCTTTGTGTTTGGCCAGGAGGAGGTGCAGGCGTCGAAGCTGCAG
GAAGGAGATCTGCAGCTGGGCTTCCTGCGGGCTTTGCCCGATGTGGGCCCTGAGCAGGGCCAGTCTTACG
AATTTTTCCACCTTACGCTCCAGGCCTTCTTCACCGCCTTCTTCCTGGTAGCAGATGACAAAGTGAGCAC
CCGGGAGTTGCTGAGGTTCTTTCGAGAATGGACGTCTCCTGGAGAGGCAACAAGCTCGTCCTGCCATTCT
TCCTTCTTCTCCTTCCAGTGCCTGGGCGGCAGAAGCCGGTTGGGCCCTGATCCTTTCAGGAACAAAGATC
ACTTCCAGTTCACCAACCTCTTCCTGTGCGGGCTACTGGCCAAAGCCCGACAGAAACTCCTTCGGCAGCT
GGTGCCCAAGGCTATCCTGAGGAGGAAGCGCAAGGCCCTGTGGGCTCACCTGTTTGCTAGCCTGCGCTCC
TACTTGAAGAGCCTACCTCGGGTCCAGTCTGGAGGCTTTAACCAGGTGCATGCCATGCCCACATTCCTGT
GGATGCTGCGCTGCATCTATGAGACGCAGAGCCAGAAGGTGGGGCGCCTCGCCGCCAGGGGCATCAGTGC
GGACTACCTCAAGCTGGCCTTTTGCAACGCTTGCTCTGCGGACTGCAGCGCCCTGTCCTTCGTCCTGCAT
CACTTCCACAGGCAGCTGGCCCTAGACCTGGACAACAACAACCTCAATGACTATGGCGTGCAGGAGCTGC
AGCCTTGCTTTAGCCGTCTCACGGTTATCAGACTCAGCGTCAACCAGATCACCGACACGGGGGTGAAGGT
GCTATGTGAGGAACTGACCAAGTATAAGATCGTGACGTTCCTGGGTTTATACAACAACCAGATAACTGAT
ATCGGAGCCAGGTATGTGGCCCAAATCCTGGATGAATGCAGAGGCCTCAAGCACCTTAAACTAGGGAAAA
ACAGAATAACAAGTGAGGGCGGGAAGTGTGTGGCTTTGGCTGTGAAGAACAGCACCTCCATCGTTGATGT
TGGGATGTGGGGTAATCAGATTGGAGACGAAGGGGCAAAGGCCTTCGCAGAGGCATTGAAGGACCACCCC
AGCCTGACCACTCTCAGTCTTGCATTCAATGGCATCTCTCCGGAGGGAGGGAAGAGCCTTGCGCAGGCCC
TGAAGCAGAACACCACACTGACAGTAATCTGGCTGACCAAAAATGAACTTAATGATGAGTCTGCAGAGTG
CTTCGCTGAGATGCTGAGAGTGAACCAGACGCTACGGCATTTATGGCTGATCCAGAATCGCATCACAGCC
AAGGGGACAGCGCAGCTGGCGAGGGCACTGCAGAAGAACACAGCCATAACAGAGATTTGTCTCAATGGAA
ACTTGATTAAGCCCGAGGAGGCCAAAGTCTTCGAGAATGAGAAGAGAATCATCTGCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Protein Sequence:

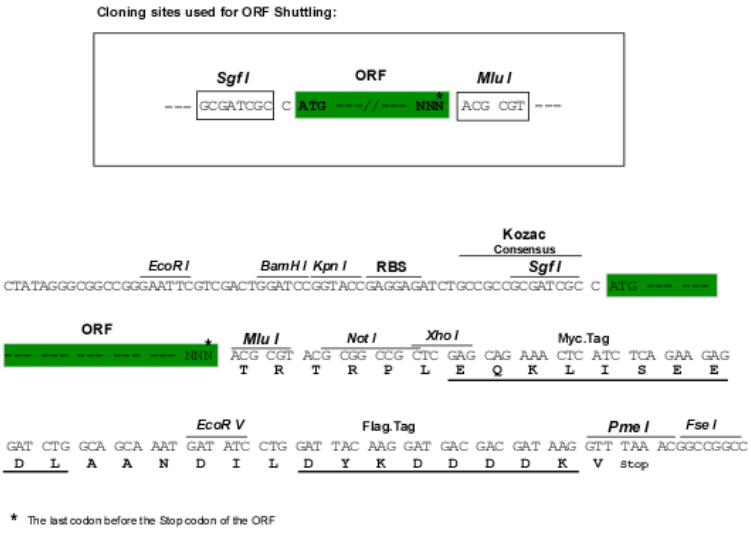
>MR225900 protein sequence
Red=Cloning site Green=Tags(s)

MEEHGHHEMEGTPLGCHSHIKLLKINREHLVTNIRNTQCLVDNLLENGYFSAEDAEIVCACPTKPDKVRK
ILDLVQSKGEEVSEFFLYVLQQLEDAYVDLRLWLSEIGFSPSQLIRTKTIVNTDPVSRYTQQLRHQLGRD
SKFMLCYAQKEDLLLEETYMDTLMELVGFNNENLGSLGGLDCLLDHSTGVLNEHGETVFVFGDAGVGKSM
LLQRLQSLWASGRLTSTAKFFFHFRCRMFSCFKESDMLSLQDLLFKHFCYPEQDPEEVFSFLLRFPHTAL
FTFDGLDELHSDFDLSRVPDSCCPWEPAHPLVLLANLLSGRLLKGAGKLLTARTGVEVPRQLLRKKVLLR
GFSPSHLRAYARRMFPERTAQEHLLQQLDANPNLCSLCGVPLFCWIIFRCFQHFQTVFEGSSSQLPDCAV
TLTDVFLLVTEVHLNRPQPSSLVQRNTRSPAETLRAGWRTLHALGEVAHRGTDKSLFVFGQEEVQASKLQ
EGDLQLGFLRALPDVGPEQGQSYEFFHLTLQAFFTAFFLVADDKVSTRELLRFFREWTSPGEATSSSCHS
SFFSFQCLGGRSRLGPDPFRNKDHFQFTNLFLCGLLAKARQKLLRQLVPKAILRRKRKALWAHLFASLRS
YLKSLPRVQSGGFNQVHAMPTFLWMLRCIYETQSQKVGRLAARGISADYLKLAFCNACSADCSALSFVLH
HFHRQLALDLDNNNLNDYGVQELQPCFSRLTVIRLSVNQITDTGVKVLCEELTKYKIVTFLGLYNNQITD
IGARYVAQILDECRGLKHLKLGKNRITSEGGKCVALAVKNSTSIVDVGMWGNQIGDEGAKAFAEALKDHP
SLTTLSLAFNGISPEGGKSLAQALKQNTTLTVIWLTKNELNDESAECFAEMLRVNQTLRHLWLIQNRITA
KGTAQLARALQKNTAITEICLNGNLIKPEEAKVFENEKRIICF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172729

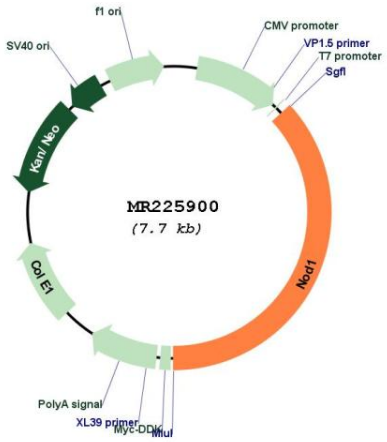
ORF Size: 2862 bp

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

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_172729.3, NP_766317.1
RefSeq Size:	4327 bp
RefSeq ORF:	2862 bp
Locus ID:	107607
UniProt ID:	Q8BHB0
Cytogenetics:	6 B3
MW:	107.7 kDa
Gene Summary:	Enhances caspase-9-mediated apoptosis. Induces NF-kappa-B activity via RIPK2 and IKK-gamma. Confers responsiveness to intracellular bacterial lipopolysaccharides (LPS). Forms an intracellular sensing system along with ARHGEF2 for the detection of microbial effectors during cell invasion by pathogens. Recruits NLRP10 to the cell membrane following bacterial infection (By similarity).[UniProtKB/Swiss-Prot Function]

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Product images:



Circular map for MR225900

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US