

Product datasheet for **MC224389**

Naip5 (NM_010870) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Naip5 (NM_010870) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Naip5
Synonyms:	Birc1e; Lgn1; Naip-rs3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224389 representing NM_010870 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCTGAGCATGGGGAGTCTCCGAGGATCGGATTTCTGAGATTGATTATGAATTTCTCCCGAGCTCT
CTGCTCTTCTCGGGTGGATGCATTTCAAGTGGCAAAGAGCCAAGAAGAAGAGCATAAAGAACGGAT
GAAATGAAGAAAGGTTTAACTCACAGATGCGCAGTGAAGCCAAACGACTAAAGACCTTTGAGACCTAT
GACACGTTGAGTATGAGCGCCACAGGAGATGGCAGCTGCTGGGTTTACCACACAGGGGTGAGACTTG
GCGTTGAGTCTTTGCTGTAGCTTGATCTCTTTGGTAACAGCCTCAGGAAGCTTCCCATAGAGAGACA
CAAGAAATTACGTCCGGAATGTGAGTTCCTTCAGGGCAAAGATGTTGGTAACATTGGCAAGTATGACATC
CGGGTGAAGAGGCCAGAGAAGATGCTGAGAGGTGGCAAAGCCAGGTACCATGAAGAGGAGGCCAGACTGG
AGTCTTTGAGGACTGGCCATTTTATGCCCATGGGACATCACCACGTGTACTCTCAGCAGCTGGCTTTGT
CTTTACAGGTAAGGGGACACTGTGAGTGTCTTCTGTGGCGGAAGCTTGGGCAACTGGGAAGAAGGA
GATGACCCCTGGAAGGAGCATGCCAAGTGGTCCCAATGTGAATTTCTTCAAAGTAAGAAATCCTCAG
AGGAAATTGCCAGTATATCAAAGCTACGAGGGATTTGTTATGTAACGGGAGAACATTTGTGAAGTC
CTGGGTGAGAAGAGAATTACCTATGGTATCAGCTTACTGCAATGACAGTGTCTTCGCTAATGAAGAACTA
AGGATGGACATGTTAAGGACTGGCCCCAAGAATCACCTGTGGGTGTTGAAGCTCTAGTCAGAGCAGGCT
TTTTCTACACTGGCAAAAAGGACATTGTCGGTGTCTTCTGTGGAGGATGTTTGGAAAAGTGGGCAGA
AGGTGACGACCCAATGGAAGATCACATCAAGTTTTTCCGAATGTGATTTCTTCAAACCTTGAAGTCC
TCTGCAGAAGTAATCCAACCTTCAGAGCCAATATGCACTTCCAGAAGCCACGGAACACACGTGAAA
GCAACCATGGTATGCAGCAGCAGTTCATTCTACAGTGGTGGACTTGGGTAGGAGTGAAGCCAGTGGTT
TCAAGAGGCCAGGAGTCTGAGTGAGCAGCTAAGAGACAACACTAAAGCCACTTCCGCCACATGAAC
TTGCCAGAAGTGTGCTCCAGCCTTGGCACTGACCACTTGTCTCAGCTGCGATGTGTCCATCATTTCAAAGC
ACATCAGCCAGCCTGTGCAAGAGGCCCTGACGATCCCCGAGGTCTTCTCAATCTCAACTCTGTCATGTG
TGTGGAGGGGAACTGGCAGTGGAAGACAACCTTCTGAAGAGGATAGCTTTTCTCTGGGCATCAGGA



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TGCTGCCCCCTGTTGTACAGGTTCCAGCTGGTCTTCTATCTCTCCCTTAGTTCCATCACACCAGATCAGG
 GACTGGCCAACATCATCTGTGCCAACTCCTAGGGGAGGAGGTTGCATTAGTGAAGTGTGTCTGAGCAG
 CAGCATCCAGCAGTTACAACACCAGGTGCTGTTCTGTTGGATGACTACAGTGGGCTGGCCTCACTCCCC
 CAAGCCCTACACACACTGATTACAAAACTACTTGTACGGACCTGCTTATTGATCGTGTGCATACAA
 ACAGGGTCAGAGACATCCGCCTATACCTAGGTACAAGTCTAGAGATCCAAGAGTTTCCCTTCTATAATAC
 TGTCTCTGTATTACGGAAGTTTTTTCACATGACATAATCTGTGTGAAAAAGCTTATAATTTACTTTATT
 GATAATAAAGATTTACAGGGAGTTTACAAGACCCTCTCTTTGTAGCAGCAGTATGTACTGACTGGATT
 AAAATGCATCTGCCAGGATAAAATTTCAAGATGTGACACTTTTCCAGTCTACATGCAATACCTGTCCTT
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 CTTTTCTCATCATGCTTTGAGTTCAATAGTGATGACCTGGCAGAGGCAGGAGTTGATGAAGATGAAAAGC
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 GTTCCAGGAGTTTCTGCTGCCGTGAGGTTGACTGAACTCCTGAGTTCAGATAGGCAGGAAGACCAAGAT
 CTTGGACTTTATTATTTGAGACAAATCGACTCACCTCTGAAGGCAATAAACTCCTTAAACATATTTTTGT
 ATTATGTCTCCAGCCACTCTTCTCAAAGGCAGCGCCAACAGTTGTATCTCATTTGCTTCAGTTGGTGGA
 TGAGAAAGAGTCACTGGAGAACATGTCTGAAAATGAGGATTACATGAAGCTCCATCCACAACTTTTCTA
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 TATTGCGCCTTGCTCTAATCTTTGCTTATGAAAGCAACACAGTTGCTGAATGCTCTCCATTTATTTTGCA
 ATTCCTTCGAGGAAAAACACTGGCTTTAAGAGTACTGAATTTACAGTACTTTAGGGACCACCCAGAAAGC
 CTGTTACTGTTGAGGAGCTTAAAGGTTTCCATAAATGGAATAAAATGTCATCTTATGTAGATTATTCAT
 TCAAGACATATTTTAAAACTTACAGCCACCAGCTATAGATGAGGAGTATACATCTGCCTTTGAGCATAT
 AAGTGAATGGAGGAGAAATTTTGTCTCAAGATGAGGAGATCATAAAACTATGAAATATCCGACCCAGA
 GCCCTACCAGACATCAGTGAAGGTTACTGGAACTGTCCCCAAGCCATGCAAGATCCCCAAGCTGGAAG
 TTCAAGTGAACAACACGGATGCAGCAGATCAAGCACTGCTCCAGGTCTCATGGAAGTCTTCTCAGCTTC
 ACAGAGTATTGAGTTCCGTTTATTCAACAGCAGTGGCTTCTTGAAGCATCTGCCAGCTCTGGAGCTG
 AGTAAGGCCTCTGTACCAAGTGTTCATGTCCAGGCTGGAGCTCAGCAGAGCAGAACAGGAGCTGCTTC
 TCACCCTGCCTGCCCTGCAGTCTCTCGAGGTCTCAGAGACAAACCAGTTACCAGAACAGCTCTTCATAA
 CTTGCACAAGTTCTGGGCTGAAAGAACTGTGTGTGAGACTAGATGGCAAACCGAATGTGCTCTCAGTC
 CTTCTAGAGAGTTCCCAAACCTCCTTCACATGGAGAAGTTATCCATCCAAACCTCCACGGAGTCTGACC
 TCTCCAACTAGTTAAATTCATCCAGAACTTTCCAAATCTCATGTTTTCCATCTGAAATGTGATTTCT
 TTCAAATGTGAGTCTCTCATGGCTGTGCTTGCTTCTGCAAGAACTCAGAGAGATTGAGTTTTCTGGA
 CGATGCTTTGAAGCCATGACCTTTGTCAACATTTTGCCAAATTTGTTTTCTGAAAGATACTGAATCTTA
 AAGATCAACAATTTCCAGATAAGGAAACGTCAGAAAAGTTTGCCAGGCTCTGGGTTCTCTCAGGAACCT
 GGAGGAACTGCTCGTTCCCACTGGGGACGGGATTACCAAGTGGCCAACTGATTGTCCGGCAGTGTCTG
 CAGCTTCCGTGCCTCCGAGTTCTCACCTTTACGACATCTTGACGATGACAGTGTGATTGAAATTGCCA
 GGGCGGCAACCACTGGAGGTTTCCAGAACTTGAGAACTTAGATATTTCCATGAATCACAAAGATTACCGA
 GGAAGGATATAGAAATTTCTTCAAGCCCTGGACAACCTTGCCAAACCTACAAGAGCTGAACATCTGCAGG
 AATATCCAGGACGCATTCAAGTTCAGGCCACCACTGTCAAGGCTCTGGGTCAATGTGTGTCGGGACTGC
 CCAGCCTCATCAGACTGCACATGCTCAGTTGGCTCCTGGATGAAGAGGACATGAAAGTGATTAATGATGT
 GAAGGAAAGACATCCCCAGTCTAAACGCTTGATTATCTTCTGAAATTGATAGTCCCATTTCTCTCTGTT
 ATCCTGGAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_010870
 Insert Size: 4212 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_010870.2</u> , <u>NP_035000.2</u>
RefSeq Size:	5368 bp
RefSeq ORF:	4212 bp
Locus ID:	17951
UniProt ID:	<u>Q9R016</u>
Cytogenetics:	13 53.05 cM
Gene Summary:	Sensor component of the NLRC4 inflammasome that specifically recognizes and binds flagellin from pathogenic bacteria such as Legionella or Salmonella (PubMed:12526741, PubMed:21874021, PubMed:21918512, PubMed:29146805, PubMed:29182158). 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 (PubMed:21874021, PubMed:21918512, PubMed:29146805, PubMed:29182158). 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 L.pneumophila and P.aeruginosa, enteric pathogens S.typhimurium (Salmonella) and S.flexneri (PubMed:21874021, PubMed:21918512, PubMed:29146805, PubMed:29182158). May contribute to prevent motor-neuron apoptosis induced by a variety of signals (By similarity).[UniProtKB/Swiss-Prot Function]