

Product datasheet for MC224481

Naip2 (NM_010872) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Naip2 (NM_010872) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Naip2
Synonyms:	Birc1b; Naip-rs6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224481 representing NM_010872 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCAGCCCAGGGAGAAGCCGTTGAGGAGATAATTTGTGAGTTTGATGACGACTTGGTCTCTGAGCTCT
CTACTCTTCTCAGAGTGGATGCACTTTTCAGTCTTGAAGAGACAACAAGAAGACCATAAAACACGAAT
GAAAATGAAGAAAGGTTTTAACTCACAGATGCGCAGTGAAGCCAAACGACTAAAGACTTTTGAGACCTAT
GACAAGTTCAGATCATGGACGCCACAGGAGATGGCAGCTGCTGGGTTTTACCACACAGGGGTGAAACTTG
GGGTTTCAGTGCTTTTGTGTAGCTTGATCCTCTTTTCCACCAGACTCAGGAACTTCCCATAGAGAACCA
CAAGAAATTACGACCAGAATGTGAGTTCCTTCTGGGCAAAGATGTTGGTAACATTGGCAAGTATGACATC
CGGGTTAAGAGTCCAGAGAAGATGCTGAGAGGTGACAAAGCAAGGTACCATGAAGAGGAGGCAAGACTGG
AGTCCTTTGAGGACTGGCCATTTTATGCCCATGGGACATCACCACGTGTACTCTCAGCAGCTGGCTTTGT
CTTTACAGGTAAGAGGACACTGTGCAGTGTCTCCTGTGGTGGATGCTTGGGCAACTGGGAAGAAGGA
GATGATCCCTGGAAGGAGCATGCCAAGTGGTCCCAAATGTGAATTTCTTCAAAGTAAGAAGTCCCCAG
AGGAAATTACCAATATGTACAAAGCTATGAAGGATTTCTCATGTAACGGGAGAACATTTTGTGAATTC
CTGGGTCAGAAGAGAATTACCTATGGTATCAGCTTACTGCAATGACAGCGTCTTCGCTAATGAAGAACTA
AGGATGGACACGTTTAAGGACTGGCCCCACGAATCACCCGGGGCTGTTGAAGCTCTGGTCAAAGCAGGCC
TTTTCTACACAGGCAAAAGGGACATTGTCCAGTGTCTTCTGTGGAGGATGTATGGAGAAGTGGGCAGA
AGGTGACAACCAATAGAAGATCACACCAAGTTTTTCCCAACTGTGTTTTCTCAAACCTGAAGTCC
TCTGCAGAAGTGATTCAGCCCTTCAGAGCCACTGTGCACTTCCAGAAGCCATGGAACCAAGTGAAA
GCAACCATGATGATGCAGCAGCAGTTTATTCTACAGTGGTGGATGTTTCTCAAAGTGAAGCCAGGAACT
TGAACCTGCATCCAGCTTGGTGTCTGTTCTCTGTAGAGACCAGGACCACAGTGAAGCCCAAGGGCGTGGA
TGTGCATCCAGTGGGACCTATCTCCCTCCACAGACTTGGGTGAGTGAAGCCCAAGTGGCTTCAAGAGG
CCAGGAGTCTGAGTGAGCAGCTGAGAGACCTACACCAAGCTACTTTCCGCCACATGAAGTGGCAGA
AGTGTACTCCAGCTCGGCACTGACCATTGCTCAGCTGCGATGTGTCCATCTTCAAAGCACATCAGC



[View online »](#)

CAGCCAGTGCAAGGGTCCCTGACGATCCCTGAGGTCTTCTCCAATCTCAACTCTGTCATGTGTGTGGAGG
 GGGAGCTGGCAGTGGAAGACAACCTTCTGAAGAGGATAGCTTTTCTCTGGGCATCAGGATGCTGCC
 CCTGTTGTACAGGTTCCAGCTGGTCTTCTACCTCTCCCTAGTTCATCACACCAGGCCAGGAACCTGGCC
 AAAATCATCTGTGCCAACTCCTAGGGGAGGAGGCTGCATTAGTGAAGTGTGTCTGAGCAGCATCATCC
 AGCAGTTACAACACCAGGTGCTGTTCTGTTGGATGACTACAGTGGGCTGGCCTCACTCCCCAAGCCCT
 ACACACACTGATTACAAAACTACTTGTACGGACCTGCTTATTGATCGCTGTGCATACAAACAAGGTC
 AGGGGCATCCGCCATACCTAGATACGAGTCTAGAGATCAAAGAGTTTCCCTTCTATAACTGTCTCTG
 TGTACGGAAGCTTTTTTACATGACATAATGCGTGTACGAAAAATTTATAAATTACTTTGGATTTCATGA
 AGAGTTGCAGGAATTACAAGACACCCCTCTTCTGGCAGCAGTATGTACTGACTGGTTTAAAAATCCA
 TCTGACCAGCCCTTTCAGGATGTGGCACTTTTCAAGGCCTATATGCAATACTTGTCTTAAAGCACAAAG
 GTGCAGCTAAGCCTCTCCAGGCCACAGTGTCTCATGTGGGCAGCTGGCCTTGACAGGGCTTTTCTCATC
 GTGCTTTGAGTTCAATAGTGATAACCTGGCAGAGGCAGGAGTTGATGAAGATGAAGAGCTCACCACCTGC
 TTGATGAGCAAATTCACCGCCAGAGACTGAGGCCAGTCTACCGGTTTTAGGTCCTCTGTTCCAGGAGT
 TTCTTGCTGCCGTGAGGTTGACTGAACTCCTGAGTTCAGATAGGCAGGAAGACCAAGATCTGGGACTTTA
 TTATTTGAGACAAATTAACCTCACTCTAAAGGCTATGAGCATCTACCACACTTTTTTGAATATGTCTCC
 AGCCACCCCTTCATCAAAGGCAGCGCCAACAGTTGTATCTCATTTGCTTCAGTTGGTGGATGAGAAAGAGT
 CACTGGAGAACATGTCTGAAAATGAGGATTACATGAAGCTCCATCCAGAAGCTTTGCTGTGGATTGAGTG
 TCTTAGAGGATTGTGGCAGCTGTCTCCTGAATCTTTTCTTTGTTTTCATTTAGAAAACTTATTGCGCATT
 TGTCTAACTTTGCTCATGAAAGCAACACAGTTGCTGCATGTTCTCCAGTTATTTTGAGTTCTTTCGAG
 GGAGAACACTGGATTGAAAAGTTTGTAGTTTACAGTACTTTTGGGACCATCCAGAAACCTTGTGTTATT
 GAAGAGTATTAAGATCTCATTAAATGGAATAACTGGGTACAGAGAATCGATTTTCACTCATAGAAAAA
 TCTTTTGAAGAGTACAGCCACCAACTATAGATCAGGACTATGCCATTGCCTTTCAACCTATAAATGAAG
 TCCAGAAAAATTTATCTGAAAAGAAACACATAATAAAGAAGTATGAGGATATGAAACACCAGATCCCACT
 AAATATTAGTACTGGCTACTGGAAGCTGTCCCAAGCCATACAAGATCCCAAGCTGGAAGTTCAAGTG
 ACCAACACAGGTCCAGCAGATCAAGCACTGCTCCAGGTCTCATGGAAGTCTTCTCAGCTTCACAGAGTA
 TTGAGTTCCGTTTATCCGACAGCAGTGGCTTCTTGAAGCATCCGCCAGCTCTGGAGCTGAGTAAGGC
 CTCTGTACCAAGTGTTCCATGTCCAGGCTGGAGCTCAGCAGAGAAGATCAGAAGCTGCTTCTACCCTG
 CCTACCCTGCAGTCTCTCGAGGTCTCAGAGACAAACAGTTACCAGATCAGCTCTTCCATAAATTGCACA
 AGTTCTCGGGCTGAAAGAACTGTGTGTGAGACTAGATAGCAAGCCGGATGTGCTCTCAGTCTTCTCTGG
 AGAGTTCCCAACCTCCATCACATGGAGAAGTTATCCATCAGAACCTCCACGGAGTCTGACCTCTCCAAA
 CTAGTTAAGTTGATTGAGAACTCTCAAATCTCCATGTTTCCATCTGAAGTGTAATTTCTTTTGAATT
 GTGAGCCTCTCATGACTGTGCTTCTCTGCAAGAACTCAGAGAGATTGAGTTTTCTGGACGATGCTT
 TGAAGCCATGACCTTTGTCAACATTTTGCCAAATTTGTTTTCTGAAGATATTGAATCTTAGAGACCAA
 CAATTTCCAGATAAAGAAACATCAGAAAAGTTTGCCAGGCTCTGGGTTCTCTCAGGAACCTGGAGAAAC
 TGTTCTGTTCCCACTGGGGACGGGATTACCAAGTGGCCAACTGATTGTCCGGCAGTGTCTGCAGCTCCC
 ATGTCTCCGAGTTCTTGTCTTTGCAGAGACTCTGGATGACGACAGTGTACTGGAAATTGCCAAGGGAGCA
 ACCAGGGGAGGCTTCAAAAACCTTGAGAACTTAGACCTTACACTGAATCACAAGATTACAGAGGAAGGAT
 ACAGAAATTTCTTCAAGTCTGGACAACCTGCCAAACCTGAAAACTGGACATTTCCAGGCATATCCC
 AGAATGCATTCAAATTCAGGCCATCACTGTCAAGGCTCTGGGTCAGTGTGTGTCCCGACTGCCAGCCTC
 ACCAGGCTCGGGATGCTCAGTTGGCTCCTGGATGAAGAGGACATAAAAGTGATTAAATGATGTGAAGGAAA
 GACACCCTCAGTCCAAACGCTTGACTGTTCACTGGAGGTGGGTAGTGCCATTCTCTCTGTCATTACAGAA
 GTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_010872
Insert Size: 4344 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_010872.3</u> , <u>NP_035002.2</u>
RefSeq Size:	4853 bp
RefSeq ORF:	4344 bp
Locus ID:	17948
UniProt ID:	<u>Q9QUK4</u>
Cytogenetics:	13 53.01 cM
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) PrgI 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] Transcript Variant: This variant (1) represents the longest transcript. Both variants 1 and 2 encode the same protein.