

Product datasheet for **MC224482**

Naip2 (NM_001126182) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Naip2 (NM_001126182) 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:	>MC224482 representing NM_001126182 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCAGCCCAGGGAGAAGCCGTTGAGGAGATAATTTGTGAGTTTGATGACGACTTGGTCTCTGAGCTCT
CTACTCTTCTCAGAGTGGATGCACTTTTCAGTCTTGAAGAGACAACAAGAAGAAGACCATAAAACACGAAT
GAAAATGAAGAAAGGTTTTAACTCACAGATGCGCAGTGAAGCCAAACGACTAAAGACTTTTGAGACCTAT
GACAAGTTCAGATCATGGACGCCACAGGAGATGGCAGCTGCTGGGTTTTACCACACAGGGGTGAAACTTG
GGGTTTCAGTGCTTTTGCTGTAGCTTGATCCTCTTTCCACCAGACTCAGGAACTTCCCATAGAGAACCA
CAAGAAATTACGACCAGAATGTGAGTTCCTTCTGGGCAAAGATGTTGGTAACATTGGCAAGTATGACATC
CGGGTTAAGAGTCCAGAGAAGATGCTGAGAGGTGACAAAGCAAGGTACCATGAAGAGGAGGCAAGACTGG
AGTCCTTTGAGGACTGGCCATTTTATGCCCATGGGACATCACCACGTGTACTCTCAGCAGCTGGCTTTGT
CTTTACAGGTAAGAGGACACTGTGCAGTGTTTCTCCTGTGGTGGATGCTTGGGCAACTGGGAAGAAGGA
GATGATCCCTGGAAGGAGCATGCCAAGTGGTCCCAATGTGAATTTCTTCAAAGTAAGAAGTCCCCAG
AGGAAATTACCAATATGTACAAAGCTATGAAGATTTCTCATGTAACGGGAGAACATTTTGTGAATTC
CTGGGTCAGAAGAGAATTACCTATGGTATCAGCTTACTGCAATGACAGCGTCTTCGCTAATGAAGAACTA
AGGATGGACACGTTTAAGGACTGGCCCCACGAATCACCCGGGGCTGTTGAAGCTCTGGTCAAAGCAGGCC
TTTTCTACACAGGCAAAAGGGACATTGTCCAGTGTTTTCTGTGGAGGATGTATGGAGAAGTGGGCAGA
AGGTGACAACCAATAGAAGATCACACCAAGTTTTTCCCAACTGTGTTTTCTCAAACCTGAAGTCC
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GCAACCATGATGATGCAGCAGCAGTTTATTCTACAGTGGTGGATGTTTCTCAAAGTGAAGCCAGGAACT
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TGTGCATCCAGTGGGACCTATCTCCCTCCACAGACTTGGGTGAGTGAAGCCCAAGTGGCTTCAAGAGG
CCAGGAGTCTGAGTGAGCAGCTGAGAGACCTACACCAAGCTACTTTCCGCCACATGAAGTGGCAGA
AGTGTACTCCAGCTCGGCACTGACCATTGCTCAGCTGCGATGTGTCCATCATTTCAAAGCACATCAGC



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CAGCCAGTGCAAGGGTCCCTGACGATCCCTGAGGTCTTCTCCAATCTCAACTCTGTCATGTGTGTGGAGG
 GGGAGCTGGCAGTGGAAGACAACCTTCTGAAGAGGATAGCTTTTCTCTGGGCATCAGGATGCTGCC
 CCTGTTGTACAGGTTCCAGCTGGTCTTCTACCTCTCCCTAGTTCATCACACCAGGCCAGGAAGTGGCC
 AAAATCATCTGTGCCAACTCCTAGGGGAGGAGGCTGCATTAGTGAAGTGTGTCTGAGCAGCATCATCC
 AGCAGTTACAACACCAGGTGCTGTTCTGTTGGATGACTACAGTGGGCTGGCCTCACTCCCCAAGCCCT
 ACACACACTGATTACAAAACTACTTGTACGGACCTGCTTATTGATCGCTGTGCATACAAACAAGGTC
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 TTCTTGCTGCCGTGAGGTTGACTGAACTCCTGAGTTCAGATAGGCAGGAAGACCAAGATCTGGGACTTTA
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 AGCCACCCCTTCATCAAAGGCAGCGCCAACAGTTGTATCTCATTTGCTTCAGTTGGTGGATGAGAAAGAGT
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 TCTTTTGAAGAGTACAGCCACCAACTATAGATCAGGACTATGCCATTGCCTTTCAACCTATAAATGAAG
 TCCAGAAAAATTTATCTGAAAAGAAACACATAATAAAGAAGTATGAGGATATGAAACACCAGATCCCACT
 AAATATTAGTACTGGCTACTGGAAGCTGTCCCAAGCCATACAAGATCCCAAGCTGGAAGTTCAAGTG
 ACCAACACAGGTCCAGCAGATCAAGCACTGCTCCAGGTCTCATGGAAGTCTTCTCAGCTTCACAGAGTA
 TTGAGTTCCGTTTATCCGACAGCAGTGGCTTCTTGAAGCATCCGCCAGCTCTGGAGCTGAGTAAGGC
 CTCTGTACCAAGTGTTCCATGTCCAGGCTGGAGCTCAGCAGAGAAGATCAGAAGCTGCTTCTACCCTG
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 AGTTCTCGGGCTGAAAGAACTGTGTGTGAGACTAGATAGCAAGCCGGATGTGCTCTCAGTCTTCTCTGG
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 GTGAGCCTCTCATGACTGTGCTTCTCTGCAAGAACTCAGAGAGATTGAGTTTTCTGGACGATGCTT
 TGAAGCCATGACCTTTGTCAACATTTTGCCAAATTTGTTTTCTGAAGATATTGAATCTTAGAGACCAA
 CAATTTCCAGATAAAGAAACATCAGAAAAGTTTGCCAGGCTCTGGGTTCTCTCAGGAACCTGGAGAAAC
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 ATGTCTCCGAGTTCTTGTCTTTGCAGAGACTCTGGATGACGACAGTGTACTGGAAATTGCCAAGGGAGCA
 ACCAGGGGAGGCTTCAAAAACCTTGAGAACTTAGACCTTACACTGAATCACAAGATTACAGAGGAAGGAT
 ACAGAAATTTCTTTCAAGTCTGGACAACCTGCCAAACCTGAAAACTGGACATTTCCAGGCATATCCC
 AGAATGCATTCAAATTCAGGCCATCACTGTCAAGGCTCTGGGTCAGTGTGTGTCCCGACTGCCAGCCTC
 ACCAGGCTCGGGATGCTCAGTTGGCTCCTGGATGAAGAGGACATAAAAGTGATTAAATGATGTGAAGGAAA
 GACACCTCAGTCCAAACGCTTGACTGTTCACTGGAGGTGGGTAGTGCCATTCTCTCTGTCATTACAGAA
 GTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_001126182
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_001126182.2, NP_001119654.1</u>
RefSeq Size:	4782 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 (2) differs in the 5' UTR, compared to variant 1. Both variants 1 and 2 encode the same protein.