

Product datasheet for RC216758

NAIP (NM_004536) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NAIP (NM_004536) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NAIP
Synonyms: BIRC1; NLRB1; psiNAIP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC216758 representing NM_004536
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGCCGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCACCCAGCAGAAAGCCTCTGACGAGAGGATCTCCAGTTTGATCACAATTTGCTGCCAGAGCTGT
 CTGCTCTTCTGGGCTAGATGCAGTTTCAGTTGGCAAAGGAAGTGAAGAAGAGGAGCAGAAGGAGCGAGC
 AAAATGCAGAAAGGCTACAACCTCAAAATGCGCAGTGAAGCAAAAAGGTTAAAGACTTTTGTGACTTAT
 GAGCCGTACAGCTCATGGATACACAGGAGATGGCGGCCGCTGGGTTTTACTTCACTGGGGTAAAATCTG
 GGATTCAGTGCTTCTGCTGTAGCCTAATCTCTTTGGTGGCGCCCTCACGAGACTCCCCATAGAAGACCA
 CAAGAGGTTTCATCCAGATTGTGGGTTCCTTTTGAACAAGGATGTTGGTAACATTGCCAAGTACGACATA
 AGGGTGAAGAATCTGAAGAGCAGGCTGAGAGGAGGTAATAAGAGTACCAAGAAGAGGAGGCTAGACTTG
 CATCCTTCAGAACTGGCCATTTTATGTCCAAGGGATATCCCCTTGTGTGCTCTCAGAGGCTGGCTTTGT
 CTTTACAGGTAACAGGACACGGTACAGTGTTTTTCTGTGGTGGATGTTTAGGAAATGGGAAGAAGGA
 GATGATCCTTGAAGGAACATGCCAAATGGTCCCAATGTGAATTTCTTCGGAGTAAGAAATCCTCAG
 AGGAAATACCCAGTATATCAAAGCTACAAGGATTTGTTGACATAACGGGAGAACATTTTGTGAATTC
 CTGGGTCCAGAGAGAATTACCTATGGCATCAGCTTATTGCAATGACAGCATCTTTGCTTACGAAGAATA
 CGGCTGGACTCTTTAAGGACTGGCCCGGGAATCAGCTGTGGGAGTTGCAGCATGGCCAAAGCAGGTC
 TTTTCTACACAGGTATAAAGGACATCGTCCAGTGCTTTTCTGTGGAGGGTGTGTTAGAGAAATGGCAGGA
 AGGTGATGACCCATTAGACGATCACACCAGATGTTTTCCAATTGTCCATTTCTCCAAAATATGAAGTCC
 TCTGCGGAAGTGACTCCAGACCTTCAGAGCCGTGGTGAATTTGTGAATTAAGGAAACCACAAGTGA
 GCAATCTTGAAGATTCAATAGCAGTTGGTCTATAGTGCCAGAAATGGCACAGGGTGAAGCCAGTGGTT
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 ACATCAGCAAACCTGTGCAAGAACCTCTGGTCTGCCTGAGGTCTTTGGCAACTGAACTCTGTCATGTG
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TGCTGTCCCCTGTAAACAGGTTCCAGCTGGTTTTCTACCTCTCCCTTAGTTCACCAGACCAGACGAGG
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CAAGGCTCATTAGACTGAACATGTTAAGTTGGCTCTTGGATGCAGATGATATTGCATTGCTTAATGTCAT
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ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC216758 representing NM_004536
 Red=Cloning site Green=Tags(s)

MATQQKASDERISQFDHNLPELSALLGLDAVQLAKELEEEEQKERAKMQKGYNSQMRSEAKRLKTFVTY
 EPYSSWIPQEMAAAGFYFTGVKSGIQCFCCSLILFGAGLTRLPIDHKRFHPDCGFLLNKDVGNIAKYDI
 RVKNLKSRLRGGKMRYQEEEARLASFRNWPFFVQGISPCVLSEAGFVFTGKQDTVQCFSCGGCLGNWEEG
 DDPWKEHAKWPKCEFLRSKKSSEEITQYIQSYKGFVDITGEHFVNSWVQRELPMSAYCNDISIFAYEEL
 RLDSFKDWPRESAVGVAALAKAGLFYTGIKDIVQCFSCGGCLEKWQEGDDPLDDHTRCFPNCPFLQNMKS
 SAEVTPDLQSRGELCELLETTSENLEDSIAVGPIVPEMAQGEAQWFQEAKNLNEQLRAAYTSASFRHMS
 LLDISSDLATDHLLGCDLSIASKHISKVPQEPVLPEVFGNLNSVMCVEGEAGSGKTVLLKKAIFLWASG
 CCPLLNRFLVYLSSTRPDEGLASIIDQLEKEGSVTECMRNIIQQLKNQVFLLLDDYKEICCSIP
 QVIGKLIQKNHLSRTCLLIAVRTNRARDIRRYLETILEIKAPFYNTVCILRKLFSHMTRLRKFMVYFG
 KNQSLQIKQKTPLFVAAICAHWFQYFPDPSFDDAVFVFSYMERLSLRNKATAEILKATVSSCGELALKGF
 FSCCFEFDNDLAEAGVDEDEDLTMCLMSKFTAQRLRPFYRFLSPAFQEFLAGMRLIELLSDRQEHQDL
 GLYHLKQINSPMMTVSAYNNFLNYVSSLPSTKAGPKIVSHLLHLVDNKESENISENDDYLKHQPEISLQ
 MQLLRGLWQICPQAYFSMVSEHLLVLALKTAYQSNVAACSPFVLQFLQGRTLTLGALNLQYFFDHPEL
 SLLRSIHFPPIRGKTSAPRAHFSVLETCFDKSQVPTIDQDYASAFEPMNEWERNLAEKEDNVKSYMDMQR
 ASPDLSTGYWKLSPKQYKIPCLEVDVNDIDVVGQDMLEILMTVFSASQRIELHLNHSRGFIESIRPALEL
 SKASVTKCSISKLELSAAEQELLLTLPLESLEVSQDQIFPNLDFLCKELSDVLEGNINVFVSV
 IPEEFPNFHMEKLLIQISAEYDPSKLVKLIQNSPNLHVHFKCNFFSDFGSLMTMLVSCKKLEIKFSD
 SFFQAVPFVASLPNFISLKIINLEGGQFPDEETSEKFAYILGSLNLEELILPTGDGIYRVAKLIIQQCQ
 QLHCLRVL SFFKTLNDDSVVEIAKVAISGGFQKLENLKL SINHKITEEGYRNFFQALDNMPNLQELDISR
 HFTECIKAQATTVKSLSQCVLRPLRLIRLNMLSWLLDADDIALLNVMKERHPQSKYLTI LQKWILPFSPI
 IQK

TRTRPLEQKLISEEDLAANDILDYKDDDDK

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_004536

ORF Size: 4209 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_004536.3](#)

RefSeq Size: 6133 bp

RefSeq ORF: 4212 bp

Locus ID: 4671

UniProt ID: [Q13075](#)

Cytogenetics: 5q13.2

Protein Families: Druggable Genome

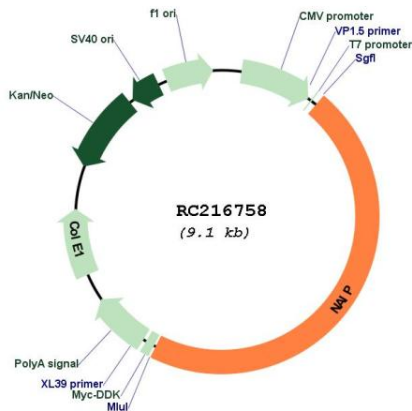
Protein Pathways: NOD-like receptor signaling pathway

MW: 159.4 kDa

Gene Summary:

This gene is part of a 500 kb inverted duplication on chromosome 5q13. This duplicated region contains at least four genes and repetitive elements which make it prone to rearrangements and deletions. The repetitiveness and complexity of the sequence have also caused difficulty in determining the organization of this genomic region. This copy of the gene is full length; additional copies with truncations and internal deletions are also present in this region of chromosome 5q13. It is thought that this gene is a modifier of spinal muscular atrophy caused by mutations in a neighboring gene, SMN1. The protein encoded by this gene contains regions of homology to two baculovirus inhibitor of apoptosis proteins, and it is able to suppress apoptosis induced by various signals. Alternative splicing and the use of alternative promoters results in multiple transcript variants. [provided by RefSeq, Nov 2016]

Product images:



Circular map for RC216758