

Product datasheet for MR201986

Nabp1 (NM_028696) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nabp1 (NM_028696) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Nabp1
Synonyms: 4930434H03Rik; 4930442A21Rik; 4930488J04Rik; 4933440J18Rik; 5830411E10Rik; AI852561
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201986 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCACGGGGTCAACGACCCTCCACTTTTTATAAAAGACATTAAGGCCGGACTGAAAACTTAAATGTCG
 TCTTTATTGTCCTGGAGATAGGACGAGTGACCAAAACCAAGACGGCCATGAAGTGAGATCTGCAAAGT
 AGCTGATAGAACGGGAAGCATCACTATTTCTGTGTGGGATGAGATCGGAGGGCTCATACAGACAGGGGAT
 ATTATTCGGTTGACCAGAGGGTATGCATCAATGTGAAAGGATGCCTGACACTTTATACTGGAAGAGGTG
 GTGAACCTCAAAAAATTGGAGAATTTGTATGGTGTATTGAGAAGTGCCAAATTTCAAGTGAACCAACCC
 AGATTATAGAGGACAGCAGAATAGAGGGGTACAAAATGAACAGAAGGATAAACTGAGCACCAATACATTT
 GGACCAGTGGGAAATGGTATCAGACTGGCCCTGAATCTAGGGGATATCATCTTCCATATGGCAGAAGCA
 ATGGTCCGGGACCTATCAGTCCACAGCTACCAGGAACACCTAGTAGTCAAACAGTCAGGACCACAATAAG
 TAACGCCAGAGATCCGAGGAGAGCCTTTAAAAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201986 protein sequence
 Red=Cloning site Green=Tags(s)

MHGVNDPPLFIKDIKAGLKNLNVFIVLEIGRVTKTKDGHEVRSCKVADRTGSITISVWDEIGGLIQTGD
 IIRLTRGYASMWKGLTLYTGRGGELQKIGEFMYYSEVPNFSEPNPDYRGOQNRGVQNEQKDKLSTNTF
 GPVGNQDQTPESRGYHLPYGRSNGPGPISPQLPGTPSSQTVRTTISNARDPRAFKR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_028696

ORF Size: 597 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_028696.3](#), [NP_082972.2](#)

RefSeq Size: 2838 bp

RefSeq ORF: 597 bp

Locus ID: 109019

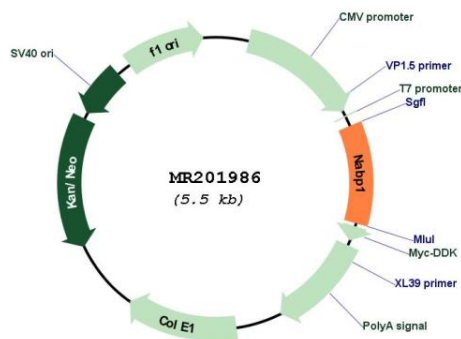
UniProt ID: [Q8BGW5](#)

Cytogenetics: 1 C1.1

MW: 21.7 kDa

Gene Summary: Component of the SOSS complex, a multiprotein complex that functions downstream of the MRN complex to promote DNA repair and G2/M checkpoint. In the SOSS complex, acts as a sensor of single-stranded DNA that binds to single-stranded DNA, in particular to polypyrimidines. The SOSS complex associates with DNA lesions and influences diverse endpoints in the cellular DNA damage response including cell-cycle checkpoint activation, recombinational repair and maintenance of genomic stability. Required for efficient homologous recombination-dependent repair of double-strand breaks (DSBs) and ATM-dependent signaling pathways (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201986