

Product datasheet for **MG201986**

Nabp1 (NM_028696) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nabp1 (NM_028696) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Nabp1
Synonyms: 4930434H03Rik; 4930442A21Rik; 4930488J04Rik; 4933440J18Rik; 5830411E10Rik; AI852561
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201986 representing NM_028696
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCACGGGGTCAACGACCCTCCACTTTTTATAAAAGACATTAAGGCCGGACTGAAAACTTAAATGTCG
TCTTTATTGTCCTGGAGATAGGACGAGTGACCAAAACCAAGACGGCCATGAAGTGAGATCTGCAAAGT
AGCTGATAGAACGGGAAGCATCACTATTTCTGTGTGGGATGAGATCGGAGGGCTCATACAGACAGGGGAT
ATTATTCGGTTGACCAGAGGGTATGCATCAATGTGAAAGGATGCCTGACACTTTATACTGGAAGAGGTG
GTGAACCTCAAAAAATTGGAGAATTTGTATGGTGTATTCAGAAGTGCCAAATTCAGTGAGCCAAACCC
AGATTATAGAGGACAGCAGAATAGAGGGGTACAAAATGAACAGAAGGATAAACTGAGCACAATACATTT
GGACCAGTGGGAAATGGTATCAGACTGGCCCTGAATCTAGGGGATATCATCTTCCATATGGCAGAAGCA
ATGGTCCGGGACCTATCAGTCCACAGCTACCAGGAACACCTAGTAGTCAAACAGTCAGGACCACAATAAG
TAACGCCAGAGATCCGAGGAGAGCCTTTAAAAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201986 representing NM_028696
Red=Cloning site Green=Tags(s)

MHGVDNPLFIKDIKAGLKNLNVFIVLEIGRVTKTKDGHEVRSCKVADRTGSITISVWDEIGGLIQTGD
IIRLTRGYASMWKGCLTYTGRGGELQKIGFCMVYSEVPNFSEPNPDYRGQQRGVQNEQKDKLSTNTF
GPVGNQDQTGPESRGYHLPYGRSNGPGPISPQLPGTPSSQTVRRTTISNARDPRAFKR

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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:	2839 bp
RefSeq ORF:	597 bp
Locus ID:	109019
UniProt ID:	Q8BGW5
Cytogenetics:	1 C1.1
Gene Summary:	<p>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]</p>