

Product datasheet for **RN216054**

Nabp2 (NM_001244819) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nabp2 (NM_001244819) Rat Untagged Clone
Tag: Tag Free
Symbol: Nabp2
Synonyms: Obfc2b; RGD1308158
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >RN216054 representing NM_001244819
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGACCGAGACCTTCGTGAAGGATATCAAGCCGGGCTCAAGAATCTGAACCTTATCTTCATTGTAC
TGGAGACAGGTCGGGTGACCAAGACAAAGGATGGGCACGAGGTTTCGGACTTGAAAGTGGCAGACAAAAC
GGGCAGCATCAACATCTCAGTGTGGGACGATGTGGCAACCTAATCCAACCCGGGGACATTATCCGACTC
ACCAAAGGGTACGCCTCAGTGTCAAAGTTGTCTGACACTATACACTGGCCGTGGGGCGATCTGCAA
AGATTGGAGAATTCTGCATGGTTTATTCTGAAGTTCCTAATTTTCAGCGAGCCCAATCCAGAGTATAACAC
CCAGCAGGCATCCAACAATCGGTGCAGAATGACAGCAGCCCTACTGCCCCACAAGCTACCACAGGACCC
CCTGCCGCTCTCCAGCTTCCGAGAGCCAGAACGGGAATGGACTGAGCAGCCAGCCAGGTCTGTTGGTG
GCCCCATCCCTCTCACGCCCTCACATCCCCCAGCACCCGAATCACTCGAAGCCAGCCCAACACAC
GCCTTCTGGCCCTCTGGCCCTCCAGCAGCCCTGTCAGCAACGGCAAAGAAACCCGAGGAGCAGCAAG
AGATAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001244819
Insert Size: 636 bp



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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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001244819.1</u> , <u>NP_001231748.1</u>
RefSeq Size:	1111 bp
RefSeq ORF:	636 bp
Locus ID:	362813
UniProt ID:	<u>Q3SWT1</u>
Cytogenetics:	7q11
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> <p>Transcript Variant: This variant (2) contains different sequence for its 5' end, which results in the use of a downstream start codon, compared to variant 1. The resulting protein (isoform 2) is shorter when it is compared to isoform 1.</p>