

Product datasheet for **RN215287**

Nabp1 (NM_001014216) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nabp1 (NM_001014216) Rat Untagged Clone
Tag: Tag Free
Symbol: Nabp1
Synonyms: Obfc2a; RGD1306658
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN215287 representing NM_001014216
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCATGGGGTCAACGACCCTCCTCTTTTTATAAAAGACATTAAGGCCGGACTGAAAACTTAAATGTCC
TCTTTATTGTCTGGAGATAGGACGAGTGACCAAAACCAAGACGGCCATGAAGTGAGATCTGCAAAGT
AGCTGATAGAACGGGAAGCATCACTATTTCTGTGTGGGATGAGATCGGAGGGCTCATAACAGACAGGGGAT
ATTATTGATTGACCAGAGGATATGCATCAATGTGGAAAGGATGCCTGACACTTTATACTGGAAGAGGTG
GTGAACCTCAAAAAATTGGAGAATTTGTATGGTGTATTCAGAAGTGCCAAATTTCACTGAGCCAAACCC
AGATTATAGAGGACAGCAGAACAGAGTGGTACAAAATGAACAGAAGGATAAAATGAACACCAGTATATTC
GGGACAGTGGGAAATGGTGTTCAGACTGGCCCTGAATCTAGGGGATATCCTCTTCAATATGGCAGAAGCA
ATGGCCCAGGACCCATCAGTCCACAGCTACCAGGAGAACCTAGTAATCAAACAGTCAGGACCACAATAAG
TAATGCCAGAGATCCGAGGAGAGCCTTTAAAGATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001014216
Insert Size: 597 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).



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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_001014216.1, NP_001014238.1</u>
RefSeq Size:	2321 bp
RefSeq ORF:	597 bp
Locus ID:	363227
UniProt ID:	<u>Q5FVP2</u>
Cytogenetics:	9q22
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]