

## Product datasheet for **MG202322**

### Nabp2 (NM\_027257) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nabp2 (NM_027257) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nabp2
Synonyms:	2610036N15Rik; Obfc2b; SSB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202322 representing NM_027257 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGACGACCGAGACCTTCGTGAAGGATATCAAGCCCGGGCTCAAGAATCTGAATCTTATCTTCATTGTAC  
 TGGAGACAGGCCGGGTGACCAAGACAAAGGACGGACACGAGGTTTCGGACCTGTAAAGTGGCAGACAAAAC  
 GGGCAGCATCAACATCTCAGTATGGGACGATGTGGCAACCTGATCCAACCTGGGGACATTATCCGACTC  
 ACCAAAGGGTATGCTTCAGTGTCAAAGTTGTCTGACACTGTACACTGGCCGTGGGGCGATCTGCAGA  
 AGATTGGAGAATTCTGTATGGTTTATTCCGAAGTCCCTAATTTTCAGTGAGCCCAATCCAGAGTATAACAC  
 GCAGCAGGCGCCCAACAATCGGTGCAGAACAAATGACAACAGCCCTACTGCCCCACAAGCGACCACGGGA  
 CCCCCTGCTGCCTCTCCAGCTTCCGAGAACCAACGGAATGGACTGAGCACCCAGCTAGGTCCTGTGG  
 GTGGCCCCCATCCTTCTCACACCCCTCACATCCCCCAGCACCCGAATCACTCGAAGTCAACCCAAACCA  
 CACGCCTTCCGGCCCTCCTGGCCCTCCAGCAACCCTGTCAGCAACGGCAAGAAACCCGAAGAAGCAGC  
 AAGAGA

**ACGCGT**ACGCGGCGGCTCGAG - GFP Tag - GTTTAA


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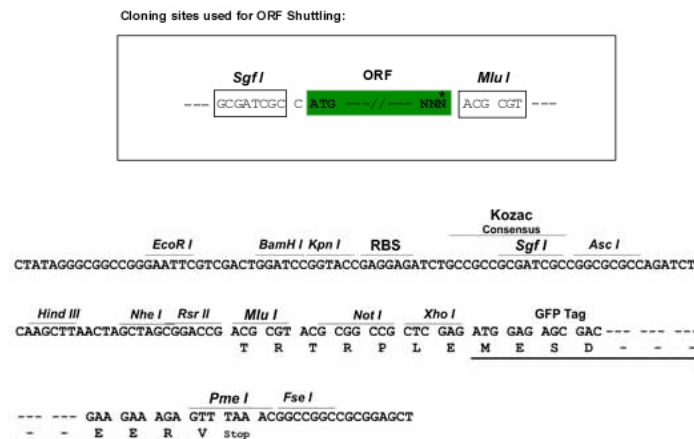
**Protein Sequence:** >MG202322 representing NM\_027257  
 Red=Cloning site Green=Tags(s)

MTTETFVKDIKPLKLNLIIFIVLETGRVTKTKDGHEVRTCKVADKTGSINISVWDDVGNLIQPGDIIRL  
 TKGYASVFKGCLTYTGRGGDLQKIGEFCEVSEVPNFSEPNPEYNTQQAPNKSQVQNDNSPTAPQATTG  
 PPAASPAENQNGNLSTQLGPVGGPHPSHTPSHPPSTRITRSQPNHTPSGPPGPSSNPVSNGKETRRSS  
 KR

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_027257

**ORF Size:** 636 bp

**OTI Disclaimer:** 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_027257.2](#)

**RefSeq Size:** 1106 bp

**RefSeq ORF:** 639 bp

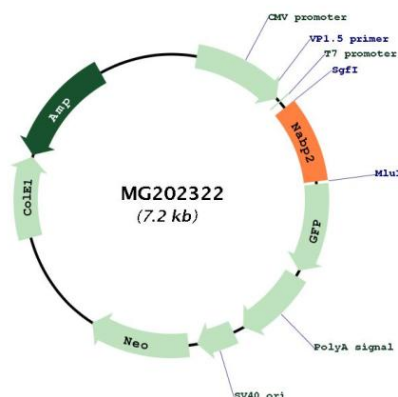
**Locus ID:** 69917

**UniProt ID:** [Q8R2Y9](#)

**Cytogenetics:** 10 D3

**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 MG202322