

Product datasheet for **MG219082**

Snrpb (NM_009225) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Snrpb (NM_009225) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Snrpb
Synonyms: AL024368; AU018828; SM-B; SM11; SMB; SNRNP-B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG219082 representing NM_009225
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACGGTGGGCAAGAGCAGCAAGATGCTGCAGCACATTGACTACAGGATGAGGTGCATCCTGCAGGACG
 GCCGCATCTTCATCGGGACCTTCAAAGCCTTTGACAAGCACATGAACTTGATCCTGTGTGACTGTGATGA
 GTTCAGGAAGATCAAGCCAAAGAAGCTCAAACAAGCAGAAAGGGAAGAGAAGCGAGTCCTTGGTCTGGTG
 TTGCTTCGAGGGGAGAACCTGGTCTCCATGACAGTAGAAGGACCTCTCCAAAGATACTGGCATTGCC
 GAGTGCCACTTGCTGGAGCTGCTGGGGGCCAGGCATCGGCAGGGCTGCTGGCAGAGGAATCCCGGCTGG
 TGTTCCTATGCCCCAGGCTCCTGCAGGACTTGCTGGGCCAGTCCGAGGTGTTGGAGGGCCATCCCAACAG
 GTGATGACCCACAAGGAAGAGGCACTGTTGCAGCTGCTGCCGCTGCAGCCACAGCCAGTATTGCAGGAG
 CCCCAACTCAGTACCCACCTGGTCGTGGGGTCTCCTCCACCTATGGGCCGAGGAGCCCCTCCTCCAGG
 TATGATGGGCCACCTCCTGGCATGCGGCCTCCATGGGTCCCCAATGGGGCTCCCTCCTGGCCGAGGA
 ACTCCAATGGGCATGCCCTCCTGGCATGCGGCCTCCTCCTCCAGGCATGCGAGGTCTGCTT

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG219082 representing NM_009225
 Red=Cloning site Green=Tags(s)

MTVGKSSKMLQHIDYRMRCLQDGRIFIGTFKAFDKHMNLLCDCDEFKRIKPKNSKQAEREKRVLGLV
 LLRGENLVSMTVEGPPPKDTGIARVPLAGAAGGPGIGRAAGRGIPAGVMPQAPAGLAGPVRGVGGPSQQ
 VMTPQGRGTVAATAAASIAAGAPTQYPPGRGGPPPMGRGAPPPGMMGPPPMGRPPMGPMPGLPPGRG
 TPMGMPPPMRPPPPGMRGLL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009225

ORF Size: 693 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.

RefSeq: [NM_009225.2](#), [NP_033251.1](#)

RefSeq Size: 1121 bp

RefSeq ORF: 696 bp

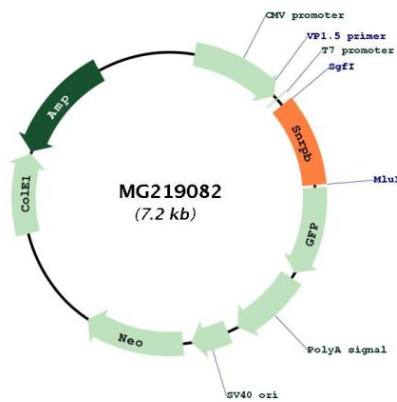
Locus ID: 20638

UniProt ID: [P27048](#)

Cytogenetics: 2 63.19 cM

Gene Summary: Plays role in pre-mRNA splicing as core component of the SMN-Sm complex that mediates spliceosomal snRNP assembly and as component of the spliceosomal U1, U2, U4 and U5 small nuclear ribonucleoproteins (snRNPs), the building blocks of the spliceosome. Component of both the pre-catalytic spliceosome B complex and activated spliceosome C complexes. Is also a component of the minor U12 spliceosome (By similarity). As part of the U7 snRNP it is involved in histone pre-mRNA 3'-end processing (PubMed:19470752). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG219082