

Product datasheet for **MG202952**

Snrpn (NM_001082962) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Snrpn (NM_001082962) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Snrpn
Synonyms:	2410045I01Rik; HCERN3; Peg; Peg4; Pwc; sm-D; SMN; snRNP-N
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202952 representing NM_001082962 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTGTGGTAAGAGTAGCAAGATGCTGCAGCACATTGACTATAGGATGAGATGTATCCTGCAAGATG
GGAGAATCTTCATTGGCACCTTCAAGGCTTTTGACAAGCATATGAATTTGATCCTCTGTGATTGTGATGA
GTTTCAGGAAGATCAAGCCAAAGAATGCAAACAGCCAGAACGTGAAGAAAAACGGTTTTGGGTCTGGTC
TTGCTACGTGGGAGAATTGGTTCAATGACTGTGGAGGGCCACCTCCTAAAGATACTGGCATTGCTC
GTGTGCCTCTTGCTGGCGCTGCAGGTGGCCCTGGGTTGGAAGAGCAGCTGGCAGAGGAGTGCCAGCAGG
TGTACCTATCCCGAGGCTCCTGCTGGATTAGCAGGCCCTGTAGAGGAGTTGGAGGCCATCCAGCAG
GTCATGACCCACAGGAAGAGGCACTGTTGCAGCTGCTGCTGTTGCTGCTACTGCTAGCATTGCAGGAG
CCCCAACCCAGTACCCGCCAGGACGGGAACTCCACCTCCACCTGTAGGCAGAGCAACCCACCTCCAGG
CATTATGGCTCCTCCACCTGGTATGAGACCACCCATGGGCCACCCATTGGGCTTCCCCCTGCTCGTGGG
ACACCTATAGGCATGCCTCCTCCAGGAATGAGACCCCTCCACCAGGAATTAGAGGCCACCTCCCCAG
GAATGCGCCACCAAGACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202952 representing NM_001082962
 Red=Cloning site Green=Tags(s)

MTVGKSSKMLQHIDYRMCILQDGRIFIGTFKAFDKHMNLI LDCDFR KIKPKNAKQPEREEKRVLGLV
 LLRGENLVSMTVEGPPPKDTGIARVPLAGAAGGPGVGRAAGRGVPAGVPIQAPAGLAGPVRGVGGPSQQ
 VMTPQGRGTAAAAVAATA SIAGAPTQYPPGRGTTPPPVGRATPPPGIMAPPPGMRPPMGPPIGLPPARG
 TPIGMPPPGMRPPPGIRGPPPPGMRPPRP

TRTRPLE - GFP Tag - V

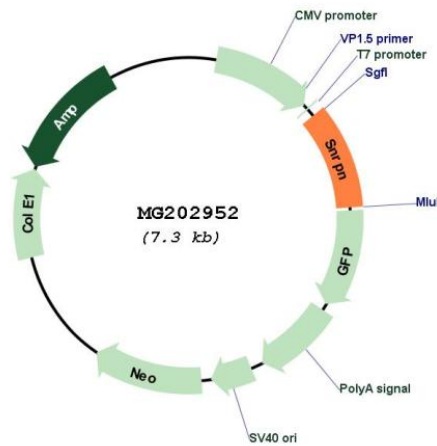
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001082962

ORF Size: 720 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:	<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_001082962.2
RefSeq Size:	2076 bp
RefSeq ORF:	723 bp
Locus ID:	20646
UniProt ID:	P63163
Cytogenetics:	7 34.04 cM
Gene Summary:	This locus represents a paternally-expressed imprinted gene that encodes a component of the small nuclear ribonucleoprotein complex, which functions in pre-mRNA processing. Genomic and genetic changes in this region result in growth defects and lethality; the corresponding region in human is the critical region for Prader-Willi Syndrome. Alternative promoter use and alternative splicing result in a multitude of transcript variants encoding the same protein. Transcript variants may be bicistronic and also encode the SNRPN upstream reading frame protein (Snurf) from an upstream open reading frame. In addition, long spliced transcripts for small nucleolar RNA host gene 14 (Snhg14) may originate from the promoters at this locus and incorporate exons shared with this gene. [provided by RefSeq, Mar 2017]