

## Product datasheet for **MG202962**

### **Snrpn (BC019589) Mouse Tagged ORF Clone**

#### **Product data:**

**Product Type:** Expression Plasmids  
**Product Name:** Snrpn (BC019589) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Snrpn  
**Synonyms:** Peg4, SMN, HCERN3, MGC18604, MGC30325  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG202962 representing BC019589  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTGTGGTAAGAGTAGCAAGATGCTGCAGCACATTGACTATAGGATGAGATGTATCCTGCAAGATG  
GGAGAATCTTCATTGGCACCTTCAAGGCTTTTGACAAGCATATGAATTTGATCCTCTGTGATTGTGATGA  
GTTGAGGAAGATCAAGCCAAAGAATGCAAACAGCCAGAACGTGAAGAAAAACGGTTTTGGGTCTGGTC  
TTGCTACGTGGGAGAATTGGTTTCAATGACTGTGGAGGGCCACCTCCTAAAGATACTGGCATTGCTC  
GTGTGCCTCTTGCTGGCGCTGCAGGTGGCCCTGGGTTGGAAGAGCAGCTGGCAGAGGAGTGCCAGCAGG  
TGTACCTATCCCGAGGCTCCTGCTGGATTAGCAGGCCCTGTGAGGAGTTGGAGGCCATCCAGCAG  
GTCATGACCCACAGGAAGAGGCACTGTTGCAGCTGCTGCTGTTGCTGCTACTGCTAGCATTGCAGGAG  
CCCCAACCCAGTACCCGCCAGGACGGGAACTCCACCTCCACCTGTAGGCAGAGCAACCCACCTCCAGG  
CATTATGGCTCCTCCACCTGGTATGAGACCACCCATGGGCCACCCATTGGGCTTCCCCCTGCTCGTGGG  
ACACCTATAGGCATGCCTCCTCCAGGAATGAGACCCCTCCACCAGGAATTAGAGGCCACCTCCCCAG  
GAATGCGCCACCAAGACCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG202962 representing BC019589  
Red=Cloning site Green=Tags(s)

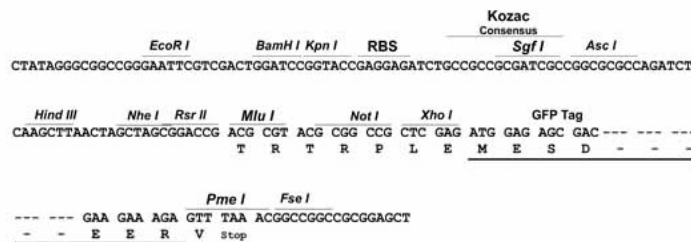
MTVGKSSKMLQHIDYRMCILQDGRIFIGTFKAFDKHMNLILCDCDEFKRIKPKNAKQPEREEKRVLGLV  
 LLRGENLVSMTVEGPPPKDTGIARVPLAGAAGGPGVGRAAGRGVPAGVPIQAPAGLAGPVRGVGGPSQQ  
 VMTPQGRGTAAAAVAATAASIAGAPTQYPPGRGTTPPPVGRATPPPGIMAPPPGMRPPMGPPPIGLPPARG  
 TPIGMPPPGMRPPPGIRGPPPPGMRPPRP

TRTRPLE - GFP Tag - V

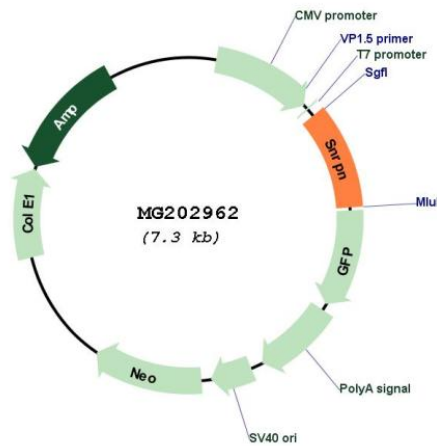
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** BC019589

**ORF Size:** 722 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC019589</a> , <a href="#">AAH19589</a>
<b>RefSeq Size:</b>	1319 bp
<b>RefSeq ORF:</b>	722 bp
<b>Locus ID:</b>	20646
<b>Cytogenetics:</b>	7 34.04 cM
<b>Gene Summary:</b>	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]