

## Product datasheet for **RG206856**

### **SNRPA1 (NM\_003090) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SNRPA1 (NM_003090) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SNRPA1
Synonyms:	Lea1; U2A'
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206856 representing NM_003090 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTCAAGCTGACGGCGGAGCTGATCGAGCAGGCGGCGCAGTACACCAACGCGGTGCGCGACCGGGAGC  
TGGACCTCCGGGGGTATAAAATCCCGTCATTGAAAATCTAGGTGCTACGTTAGACCAGTTTGATGCTAT  
TGATTTTCTGACAATGAGATCAGGAACTGGATGGTTTTCTTTGTTGAGAAGACTGAAAACATTGTTA  
GTGAACAACAACAGAATATGCCGTATAGGTGAGGACTTGATCAGGCTCTGCCCTGTCTGACAGAACTCA  
TTCTACCAATAATAGTCTCGTGAAGTGGGTGATCTGGACCCTCTGGCATCTCTCAAATCGCTGACTTA  
CCTAAGTATCCTAAGAAATCCGTAACCAATAAGAAGCATTACAGATTGTATGTGATTTATAAAGTTCCG  
CAAGTCAGAGTACTGGATTTCCAGAAAGTAAAAGAGCGTCAGGAAGCAGAGAAAATGTTCAAGG  
GCAAACGGGGTGACAGCTTGCAAAGGATATTGCCAGGAGAAGCAAACTTTTAATCCAGGTGCTGGTTT  
GCCAACTGACAAAAGAAAGGTGGGCCATCTCCAGGGGATGTAGAAGCAATCAAGAATGCCATAGCAAAT  
GCTTCAACTCTGGCTGAAGTGGAGAGGCTGAAGGGTTGCTGCAGTCTGGTCAGATCCCTGGCAGAGAAC  
GCAGATCAGGGCCCACTGATGATGGTGAAGAAGAGATGGAAGAAGACACAGTCACAAAACGGGTCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206856 representing NM\_003090  
 Red=Cloning site Green=Tags(s)

MVKLTAE LIEQAAYTNAV RDRELDLRGYKIPV IENLGATLDQFD AIDFSDNEIRKLDGFLLRRLK TLL  
 VNNNRICRIGEGLDQALPCL TELILTNNSLVELGDLDPLASL KSLTYLSILRNPVTNKKHYRL YVIYKVP  
 QVRV LDFQKVKLKERQEAEKMFKGKRG AQLAKDIARRSKTFNPGAGLPTDKKKGGPSPGDVEAIKNAIAN  
 ASTLAEVERLKGLLQSGQIPGRERRSGPTDDGEEEMEEDTVTNGS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_003090

**ORF Size:** 765 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\\_003090.4](#)

**RefSeq Size:** 1068 bp

**RefSeq ORF:** 768 bp

**Locus ID:** 6627

**UniProt ID:** [P09661](#)

**Cytogenetics:** 15q26.3

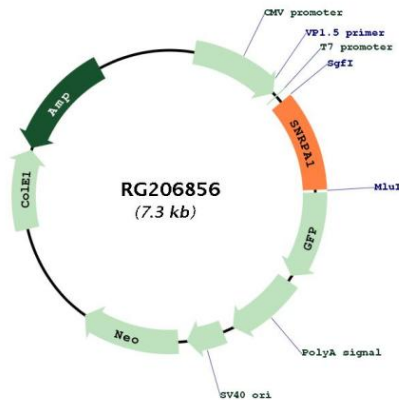
**Domains:** LRR, LRRcap

**Protein Families:** Druggable Genome

**Protein Pathways:** Spliceosome

**Gene Summary:** Involved in pre-mRNA splicing as component of the spliceosome (PubMed:11991638, PubMed:28502770, PubMed:28781166, PubMed:28076346, PubMed:27035939). Associated with sn-RNP U2, where it contributes to the binding of stem loop IV of U2 snRNA (PubMed:9716128, PubMed:27035939).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG206856