

## Product datasheet for **RG238170**

### SNRP70 (SNRNP70) (NM\_001301069) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SNRP70 (SNRNP70) (NM_001301069) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SNRNP70
Synonyms:	RNPU1Z; RPU1; Snp1; SNRP70; U1-70K; U1AP; U1RNP; U170K
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238170 representing NM_001301069. Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG  
GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**  
ATGACCCAGTTCTGCGCCCAACCTTCTGGCCCTCTTTGCCCCCGTGACCCTATTCCATACCTGCCA  
CCCCTGGAGAACTGCCACATGAAAAACACCACAATCAACCTTATTGTGGCATTGCGCGTACATTGCA  
GAGTTTGAGGACCCTCGAGATGCCCTCCTCAACTCGTGCTGAAACCCGAGAGGAGCGCATGGAGAGG  
AAAAGACGGGAAAAGATTGAGCGGCGACAGCAAGAAGTGAGACAGAGCTTAAATGTGGGACCCTCAC  
AATGATCCCAATGCTCAGGGGGATGCCTTCAAGACTCTTTCGTGGCGAGAGTGAATTATGACACAACA  
GAATCCAAGCTCCGAGAGAGTTTGAAGGTGTACGGACCTATCAAAGAATACACATGGTCTACAGTAAG  
CGGTACAGGAAAGCCCGTGGCTATGCCTTCATCGAGTACGAACACGAGCGAGACATGCACTCCGCTTAC  
AAACACGCAGATGGCAAGAAGATTGATGGCAGGAGGGTCTTGTGGACGTGGAGAGGGGCGAACCGTG  
AAGGGCTGGAGGCCCCGGCGGCTAGGAGGAGGCCTCGGTGGTACCAGAAGAGGAGGGGCTGATGTGAAC  
ATCCGGCATTACAGGCCGCGATGACACCTCCCGCTACGATGAGAGGGACCGGGACCGGTGAGCGG  
GAGCGCAGAGAGCGGAGCCGGGAGCGAGACAAGGAGCGAGAACGGCGACGCTCCCGCTCCCGGGACCGG  
CGGAGGCGCTCACGGAGTCGCGACAAGGAGGAGCGGAGGCGCTCCAGGGAGCGGAGCAAGGACAAGGAC  
CGGGACCGGAAGCGGCGAAGCAGCCGAGTCGGGAGCGGGCCCGCGGGAGCGGGAGCGCAAGGAGGAG  
CTGCGTGGCGGCGGTGGCGACATGGCGGAGCCCTCCGAGGCGGGTGACGCGCCCTGATGATGGGCCT  
CCAGGGGAGCTCGGGCCTGACGGCCTGACGGTCCAGAGGAAAAGGGCCGGGATCGTGACCGGGAGCGA  
CGGCGGAGCCACCGAGCGAGCGGAGCGGCGCGGGACCGGGATCGTGACCGTGACCGTGACCGCGAG  
CACAAACGGGGGAGCGGGGAGTGAGCGGGGAGGGATGAGGCCGAGGTGGGGCGGTGGCCAGGAC  
AACGGGCTGGAGGGTCTGGGCAACGACAGCCGAGACATGTACATGGAGTCTGAGGCGGCGACGGCTAC  
CTGGCTCCGGAGAATGGGTATTTGATGGAGGCTGCGCCGGAG  
**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC



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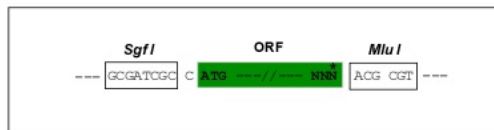
Protein Sequence: >Peptide sequence encoded by RG238170  
Blue=ORF Red=Cloning site Green=Tag(s)

MTQFLPPNLLALFAPRDPPIPYLPPEKLPEKHNNQPYCGIAPYIREFEDPRDAPPPTRAETREERMER  
KRREKIERRQQEVETELKMWDPHNDPNAQGDFAKTLFVARVNYDTTESKLRRFEVYGPICKRIHMYYSK  
RSGKPRGYAFIEYEHERDMHSAYKHADGKKIDGRRVLVDVERGRTVKGWRPRLGGGLGGTRRGADVN  
IRHSGRDDTSRYDERDRDRDRERERRERSRERDKERERRRSRSDRRRRRSRSDKEERRRSRERSKDKD  
RDRKRRSSRSRERARRERERKEELRGGGDMAPSEAGDAPPDDGPPGELGPDGPDGPEEKGRDRDRER  
RRSHRSERERRDRDRDRDRDREHKRGERGSEGRDEARGGGGGQDNGLEGLGNDSRDMYMESEGGDGY  
LAPENGYLMEAAPE  
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
MGYGFYHFGTYPGYPENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
SVIFTDKIIRSNTATVEHLHPMGDNDLDGSFTRTSLRDGGYYSSVDSHMHFKSAIHPSILQNGGPMFA  
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:

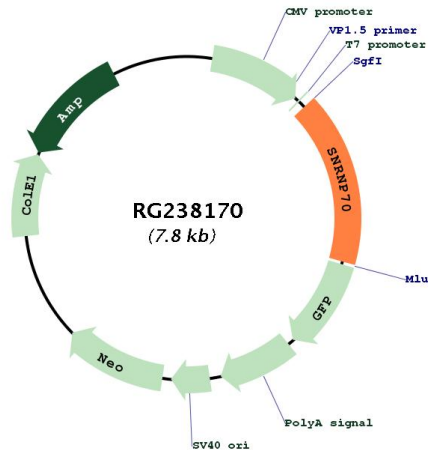
Cloning sites used for ORF Shutting:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI  
CTATAGGGCGCGCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGCGCGCCAGATCT

HindIII NheI RsrII MluI NotI XhoI GFP Tag  
CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---  
T R T R P L E M E S D - - -

PmeI FseI  
--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT  
- - E E R V Stop

**Plasmid Map:**


**ACCN:** NM\_001301069

**ORF Size:** 1284 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).

**RefSeq:** [NM\\_001301069.2](#)

**RefSeq Size:** 1981 bp

**RefSeq ORF:** 1287 bp

**Locus ID:** 6625

**UniProt ID:** [P08621](#)

**Cytogenetics:** 19q13.33

**Protein Families:** Druggable Genome

**Protein Pathways:** Spliceosome

**MW:** 51.1 kDa

**Gene Summary:**

Component of the spliceosomal U1 snRNP, which is essential for recognition of the pre-mRNA 5' splice-site and the subsequent assembly of the spliceosome (PubMed:19325628, PubMed:25555158). SNRNP70 binds to the loop I region of U1-snRNA (PubMed:2467746, PubMed:19325628, PubMed:25555158).[UniProtKB/Swiss-Prot Function]