

## Product datasheet for RC238170

### 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:	Myc-DDK
Symbol:	SNRNP70
Synonyms:	RNPU1Z; RPU1; Snp1; SNRP70; U1-70K; U1AP; U1RNP; U170K
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC238170 representing NM_001301069 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCCAGTTCCTGCCGCCAACCTTCTGGCCCTCTTGCCCCCGTGACCCTATTCCATACCTGCCAC  
CCCTGGAGAACTGCCACATGAAAAACACCACAATCAACCTTATTGTGGCATTGCGCCGTACATTCGAGA  
GTTTGAGGACCTCGAGATGCCCTCCTCCAACCTCGTGCTGAAACCCGAGAGGAGCGCATGGAGAGGAAA  
AGACGGGAAAAGATTGAGCGGCGACAGCAAGAAGTGGAGACAGAGCTTAAATGTGGACCTCACAAATG  
ATCCCAATGCTCAGGGGGATGCCTTCAAGACTCTCTTCTGGCGAGAGTGAATTATGACACAACAGAATC  
CAAGCTCCGGAGAGAGTTTGAGGTGTACGGACCTATCAAAGAATACACATGGTCTACAGTAAGCGGTCA  
GGAAAGCCCCGTGGCTATGCCTTCATCGAGTACGAACACGAGCGAGACATGCACTCCGCTTACAAACACG  
CAGATGGCAAGAAGATTGATGGCAGGAGGGTCTTGTGGACGTGGAGAGGGGCCGAACCGTGAAGGGCTG  
GAGGCCCGGGCGGCTAGGAGGAGGCCTCGGTGGTACCAGAAGAGGAGGGGCTGATGTGAACATCCGGCAT  
TCAGGCCCGGATGACACCTCCCGCTACGATGAGAGGGACCGGACCGGGACCGTGAAGCGGAGCGCAGAG  
AGCGGAGCCGGGAGCGAGACAAGGAGCGAGAACGGCGACGCTCCCGCTCCCGGGACCGGGAGGCGCTC  
ACGGAGTCGCGACAAGGAGGAGCGGAGGCGCTCCAGGGAGCGGAGCAAGGACAAGGACCGGGACCGGAAG  
CGGCGAAGCAGCCGGAGTCCGGGAGCGGGCCCGGGGAGCGGGAGCGCAAGGAGGAGCTGCGTGGCGGCG  
GTGGCGACATGGCGGAGCCCTCCGAGGCGGGTACGCGCCCCCTGATGATGGGCTCCAGGGGAGCTCGG  
GCCTGACGGCCCTGACGGTCCAGAGGAAAAGGGCCGGGATCGTGACCGGGAGCGACGGCGGAGCCCGG  
AGCGAGCGGAGCGGCGCCGGGACCGGGATCGTGACCGTGACCGTGACCGCGAGCACAACGGGGGAGC  
GGGGCAGTGAGCGGGGAGGGATGAGGCCCGAGGTGGGGCGGTGGCCAGGACAACGGGCTGGAGGGTCT  
GGGCAACGACAGCCGAGACATGTACATGGAGTCTGAGGGCGCGACGGCTACCTGGCTCCGAGAATGGG  
TATTTGATGGAGGCTGCGCCGGAG

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC238170 representing NM\_001301069  
Red=Cloning site Green=Tags(s)

MTQFLPPNLLALFAPRDPYLPPLPEKLPHEKHHNQPYCGIAPYIREFEDPRDAPPPTRAETREERMERK  
 RREKIERRQQEVETELKMWDPHNDPNAQGDFAKTLFVARVNYDTTESKLREFEVYGPVKRIHMVYSKRS  
 GKPRGYAFIEYEHERDMHSAYKHADGKKIDGRRVLDVERGRTVKGWRPRRLGGGLGTRRGADVNIRH  
 SGRDDTSRYDERDRDRERERRERSRERDKERERRRSRSDRRRRRSRSDKEERRRSRERSKDKDRDRK  
 RRSRSRERARRERKEELRGGGDMAEPSEAGDAPPDGPPELGPDPGPEEKGRDRDRERRRSHR  
 SERERRDRDRDRDREHKGREGSERGRDEARGGGGQDNGLEGLGNDSRDMYMESEGGDGYLAPENG  
 YLMEAAPE

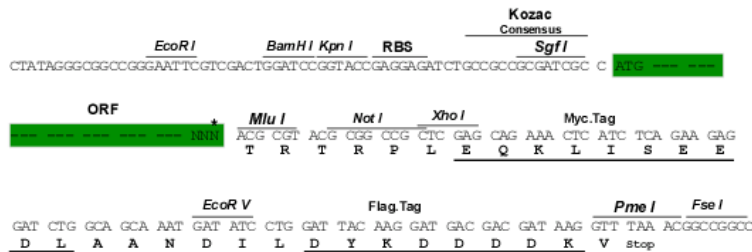
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

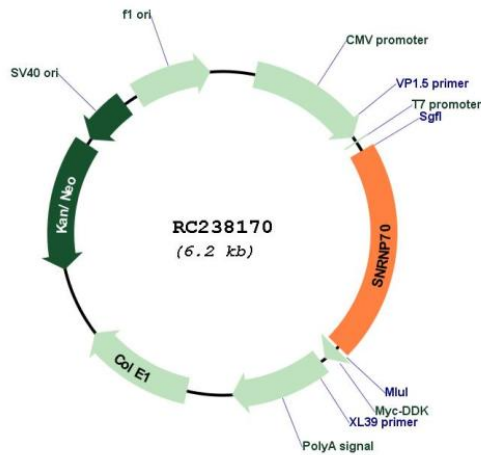
**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**



**ACCN:**

NM\_001301069

<b>ORF Size:</b>	1284 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="#">NM_001301069.2</a>
<b>RefSeq Size:</b>	1981 bp
<b>RefSeq ORF:</b>	1287 bp
<b>Locus ID:</b>	6625
<b>UniProt ID:</b>	<a href="#">P08621</a>
<b>Cytogenetics:</b>	19q13.33
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Spliceosome
<b>MW:</b>	51.1 kDa
<b>Gene Summary:</b>	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]