

## Product datasheet for **RC201713**

### **SNRP70 (SNRNP70) (NM\_003089) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SNRP70 (SNRNP70) (NM_003089) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SNRP70
Synonyms:	RNPU1Z; RPU1; Snp1; SNRP70; U1-70K; U1AP; U1RNP; U170K
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC201713 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACCCAGTTCCTGCCGCCAACCTTCTGGCCCTCTTTGCCCCCGTGACCCTATTCCATACCTGCCAC  
 CCCTGGAGAACTGCCACATGAAAAACACCACAATCAACCTTATTGTGGCATTGCCCGTACATTGAGAG  
 GTTTGAGGACCCTCGAGATGCCCTCCTCCAACCTCGTGCTGAAACCCGAGAGGAGCGCATGGAGAGGAAA  
 AGACGGGAAAAGATTGAGCGGCACAGCAAGAAGTGGAGACAGAGCTTAAATGTGGGACCCTCACAATG  
 ATCCCAATGCTCAGGGGATGCCTTCAAGACTCTCTTCGTGGCGAGAGTGAATTATGACACAACAGAATC  
 CAAGCTCCGGAGAGATTTGAGGTGTACGGACCTATCAAAGAATACACATGGTCTACAGTAAGCGGTCA  
 GGAAGCCCCGTGGCTATGCCTTCATCGAGTACGAACACGAGCGAGACATGCACTCCGCTTACAACACG  
 CAGATGGCAAGAAGATTGATGGCAGGAGGTCTTGTGGACGTGGAGAGGGGCCGAACCGTGAAGGGCTG  
 GAGGCCCGCGGCTAGGAGGAGCCTCGGTGGTACCAGAAGAGGAGGGGCTGATGTGAACATCCGGCAT  
 TCAGGCCCGCATGACACCTCCCGCTACGATGAGAGGCCCGGCCCTCCCGCTTCCGCACAGGGACCGGG  
 ACCGGGACCGTGAGCGGGAGCGCAGAGAGCGGAGCCGGGAGCGAGACAAGGAGCGAGAACGGCGACGCTC  
 CCGCTCCCGGGACCGGGGAGGGCGCTCACGGAGTCGCGACAAGGAGGAGCGGAGGGCGCTCCAGGGAGCGG  
 AGCAAGGACAAGGACCGGGACCGGAAGCGGCAAGCAGCCGGAGTCGGGAGCGGGCCCGGGAGCGGG  
 AGCGCAAGGAGGAGTGCCTGGTGGCGGTGGCGACATGGCGGAGCCCTCCGAGCGGGGTACCGGCCCC  
 TGATGATGGGCCCTCCAGGGGAGCTCGGGCTGACGGCCCTGACGGTCCAGAGGAAAAGGGCCGGGATCGT  
 GACCGGGAGCGACGGCGGAGCCACCGGAGCGAGCGGAGCGCGCCGGGACCGGGATCGTACCGTGACC  
 GTGACCGGAGCACAAACGGGGGAGCGGGCAGTGGCGGGCAGGGATGAGGCCCGAGGTGGGGCGG  
 TGCCAGGACAACGGGCTGGAGGTCTGGGCAACGACGAGCCGAGACATGTACATGGAGTCTGAGGGCGG  
 GACGGCTACCTGGCTCCGAGAATGGGTATTTGATGGAGGCTGCGCCGGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC201713 protein sequence  
 Red=Cloning site Green=Tags(s)

MTQFLPPLLALFAPRDPYPLPLEKLPHEKHHNQPYCGIAPYIREFEDPRDAPPPTRAETREERMERK  
 RREKIERRQQEVELKMWDPHNDPNAQGFKTLFVARVNYDTTESKLRREFEYVYGIKRIHMVYSKRS  
 GKPRGYAFIEYEHERDMHSAYKHADGKKIDGRRVLVDVERGRTVKGWRPRLGGGLGTRRGADVNIH  
 SGRDDTSRYDERPGPSPLPHRDRDRDRERERRERSRERDKERERRRSRSDRRRRRSRSDKEERRRSRER  
 SKDKDRDRKRRSSRSRERARRERERKEELRGGGDMAEPSEAGDAPPDDGPPGELGPDGPDGPEEKGRDR  
 DRERRRSHRSEERRRRDRDRDRDRERHKGERSERGRDEARGGGGQDNGLEGLGNSRDMYMESEGG  
 DGYLAPENGYLMEAAPE

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6087\\_c09.zip](https://cdn.origene.com/chromatograms/mk6087_c09.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_003089

**ORF Size:** 1311 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_003089.3](#)

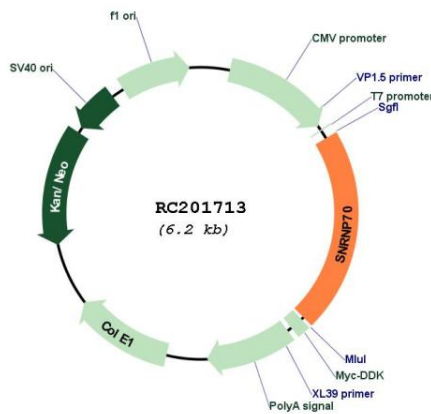
**RefSeq Size:** 2008 bp

**RefSeq ORF:** 1314 bp

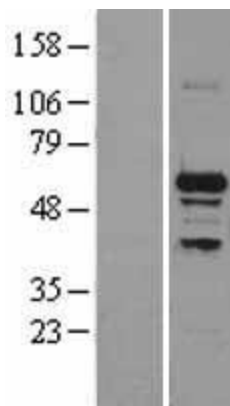
**Locus ID:** 6625

**UniProt ID:** [P08621](#)  
**Cytogenetics:** 19q13.33  
**Protein Families:** Druggable Genome  
**Protein Pathways:** Spliceosome  
**MW:** 51.6 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]

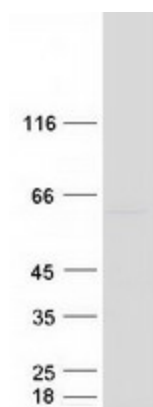
**Product images:**



Circular map for RC201713



Western blot validation of overexpression lysate (Cat# [LY401077]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201713 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SNRNP70 protein (Cat# [TP301713]). The protein was produced from HEK293T cells transfected with SNRNP70 cDNA clone (Cat# RC201713) using MegaTran 2.0 (Cat# [TT210002]).