

## Product datasheet for **MR220394**

### **Snrnp70 (NM\_009224) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Snrnp70 (NM_009224) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Snrnp70
Synonyms:	2700022N21Rik; 3200002N22Rik; AI325098; R74807; Rnu; Rnu1p70; Rnulp70; Sn; Snrnp70; Sr; Snrnp70; U1-70; U1-70K
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR220394 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACACAGTTTCTGCCTCCCAACCTTCTGGCCCTTTTTGCACCCCGAGATCCCATCCCATACCTGCCAC  
 CCCTGGAAAAGCTGCCACATGAAAAACACCATAACCAACCTTACTGTGGCATTGCACCATACATCCGAGA  
 GTTTGAGGACCTCGAGATGCTCCTCCTCCAACAAGAGCAGAAACCCGGGAAGAAGCATGGAGAGAAAAG  
 AGACGGGAAAAAATTGAACGGCGACAGCAGGAAGTGGAGACAGAGCTGAAAATGTGGGACCTCACAATG  
 ATCCCAATGCTCAGGGCGATGCCTTCAAGACTCTGTTCTGGCTAGAGTGAACATGACACAACAGAATC  
 TAAGCTTCGGAGAGATTTGAGGTGTATGGACCCATCAAAGAATCCACATGGTATACAGTAAACGCTCT  
 GGGAAACCCCGTGTTATGCCTTCATCGAGTATGAGCATGAACGAGACATGCACTCCGCTTACAAGCAG  
 CAGATGGCAAGAAGATAGATGGCAGGAGGTCTCGTGGATGTGGAGAGGGGCCGGACTGTGAAGGGCTG  
 GAGGCCCGCGCCTAGGAGGTGGCCTTGGTGGTACCAGAAGAGGTGGGGCAGATGTGAATATCAGGCAT  
 TCGGGCCGAGATGACACTTCCCGATATGATGAGAGGCCGGGCCCTCCCGCTTCCACACAGAGACCGGG  
 ACCGGGACCGCGAGCGGGAGCGCAGAGAAAAGCCGAGAACGAGACAAGGAGAGAGAAAGGAGACGCTC  
 CCGCTCTCGGGACCGGAGGAGCGCTCCCGAGTCCGAGACAAGGATGAGCGGCGACGGTCCAGGGAGCGT  
 AGCAAGGACAAGGACCGAGACCGAAAGCGACGAAGCAGTCGGAGCCGGGAGCGAGCACGCAGGGAACGGG  
 AGCGAAAAGAGGAGCTTCGAGGTGGAGGAGGTGGTGGCGGTGGTGGCAGTGGTGGTGGCGGGCGCA  
 CATGGCTGAACCTCTGAAGCTGGTGTATGGAGCTCCTGATGATGGGCCTCCTGGAGACTTGGCCCTGAA  
 GGCCCTGATGGCCAGAGGAGAAGGGCCGGATCGAGACCGGGAGAGGCGACGTAGTCACCGAGTGAGA  
 GGAACGTCGTCGGGACCGAGACCGTATCGGGATCGAGACACAAGCGTGGGGAGCGGGCAGTGAGCG  
 GGGCAGGGATGAGGCCCGGGGTGGGGTGGCAGCGGTTCAGGACAATGGGCTGGAAGGGCTAGGTAGTGAT  
 GGTGAGACATGTACATGGAGGCAGAGGTGGTGTATGGGTACATGGCCCCAGAGAATGGATATCTGATGG  
 AGGCAGCGCCGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR220394 protein sequence  
 Red=Cloning site Green=Tags(s)

MTQFLPPLLALFAPRDPYLPPELEKLPHEKHNNQPYCGIAPYIREFEDPRDAPPPTRAETREERMERK  
 RREKIERRQEQEVELKMWDPHNDPNAQGFATLFFVARVNYDTTESKLRREFEVYGPVKRIHMYVSKRS  
 GKPRGYAFIEYEHERDMHSAYKHADGKKIDGRRVLDVVERGRVTKGWRPRLGGGLGGTRRGADVNIH  
 SGRDDTSRYDERPGSPPLPHRDRDRDRERERRERSRERDKERERRRSRSDRRRRSRSDKERRRSRER  
 SKDKDRDRKRSSRSRERARRERERKEELRGGGGGGGGSGGGGGDMAEPSEAGDGAPDDGPPGELGPE  
 GPDGPEEKGRDRDRRRRSHRSEERRRRDRDRDRDREHKRGERGSRGRDEARGGGGSGQDNGLEGLGSD  
 GRDMYEAEGDGYMAPENGYLMEAAPE

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



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

**ACCN:** NM\_009224

**ORF Size:** 1347 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\\_009224.5](#), [NP\\_033250.3](#)
**RefSeq Size:** 1639 bp

**RefSeq ORF:** 1347 bp

**Locus ID:** 20637

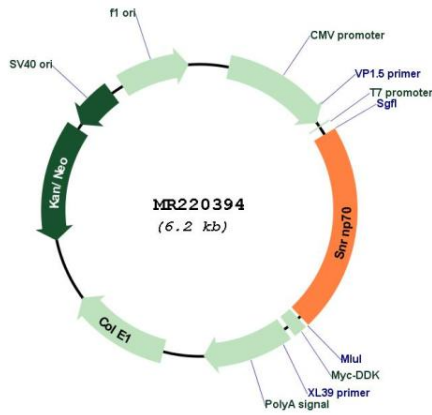
**UniProt ID:** [Q62376](#)

**Cytogenetics:** 7 29.28 cM

**MW:** 52 kDa

**Gene Summary:** This gene encodes a subunit of the U1 snRNP (small nuclear ribonucleic particle), one of at least five snRNPs to comprise the spliceosome, which functions in processing of pre-mRNAs. The U1 snRNP has been shown to be important in defining the 5' splice site. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]

**Product images:**



Circular map for MR220394