

## Product datasheet for **MG220394**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Snrnp70 (NM_009224) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Snrnp70
Synonyms:	2700022N21Rik; 3200002N22Rik; AI325098; R74807; Rnu; Rnu1p70; Rnulp70; Sn; Snrp70; Sr; Snrp70; U1-70; U1-70K
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG220394 representing NM\_009224  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACACAGTTTCTGCCTCCCAACCTTCTGGCCCTTTTGCACCCCGAGATCCCATCCCATACCTGCCAC  
 CCCTGGAAAAGCTGCCACATGAAAAACACCATAACCAACCTTACTGTGGCATTGCACCATACATCCGAGA  
 GTTTGAGGACCTCGAGATGCTCCTCCTCCAACAAGAGCAGAAACCCGGGAAGAACGCATGGAGAGAAA  
 AGACGGGAAAAAATTGAACGGCGACAGCAGGAAGTGGAGACAGAGCTGAAAATGTGGGACCTCACAATG  
 ATCCCAATGCTCAGGGCGATGCCTCAAGACTCTGTTCTGGCTAGAGTGAACATGACACAACAGAATC  
 TAAGCTTCGGAGAGATTTGAGGTGTATGGACCCATCAAAGAATCCACATGGTATACAGTAAACGCTCT  
 GGGAAACCCCGTGGTTATGCCTTCATCGAGTATGAGCATGAACGAGACATGCACTCCGCTTACAAGCAG  
 CAGATGGCAAGAAGATAGATGGCAGGAGGTCTCGTGGATGTGGAGAGGGGCCGGACTGTGAAGGGCTG  
 GAGGCCCGCGCCTAGGAGGTGGCCTTGGTGGTACCAGAAGAGGTGGGGCAGATGTGAATATCAGGCAT  
 TCGGGCCGAGATGACACTTCCCGATATGATGAGAGGCCGGGCCCTCCCGCTTCCACACAGAGACCGGG  
 ACCGGGACCGCGAGCGGGAGCGCAGAGAAAAGCCGAGAACGAGACAAGGAGAGAGAAAGGAGACGCTC  
 CCGCTCTCGGGACCGGAGGAGCGCTCCCGAGTCCGAGACAAGGATGAGCGGCGACGGTCCAGGGAGCGT  
 AGCAAGGACAAGGACCGAGACCGAAAGCGACGAAGCAGTCGGAGCCGGGAGCGAGCACGCAGGGAACGGG  
 AGCGAAAAGAGGAGCTTCGAGGTGGAGGAGGTGGTGGCGGTGGTGGCAGTGGTGGTGGCGGGCGCA  
 CATGGCTGAACCTCTGAAGCTGGTGTATGGAGCTCCTGATGATGGGCTCCTGGAGAGCTTGGCCCTGAA  
 GGCCCTGATGGCCAGAGGAGAAGGGCCGGGATCGAGACCGGGAGAGGCGACGTAGTCACCGAGTGAGA  
 GGAACGTCGTCGGGACCGAGACCGTGATCGGGATCGAGAGACAAGCGTGGGGAGCGGGGCGAGTGAGCG  
 GGGCAGGGATGAGGCCCGGGGTGGGGTGGCAGCGGTGAGGACAATGGGCTGGAAGGGCTAGGTAGTGAT  
 GGTGAGACATGTACATGGAGGCAGAGGTGGTGTATGGGTACATGGCCCCAGAGAATGGATATCTGATGG  
 AGGCAGCGCCGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG220394 representing NM\_009224  
 Red=Cloning site Green=Tags(s)

MTQFLPPLLALFAPRDPYLPPLPEKLPHEKHHPYCGIAPYIREFEDPRDAPPPTRAETREERMERK  
 RREKIERRQQEVEVELKMWDPHNDPNAQDFAFKTLFVARVNYDTTESKLRREFEVYGPVKRIHMVYSKRS  
 GKPRGYAFIEYEHERDMHSAYKHADGKKIDGRRVLDVVERGRTVKGWRPRRLGGGLGGTRRGADVNIH  
 SGRDDTSRYDERPGSPPLPHRDRDRDRERERRERSRERDKERERRRSRSRDRRRRSRSDKERRRSRER  
 SKDKDRDRKRSSRSRERARRERERKEELRGGGGGGGGSGGGGGDMAEPSEAGDGAPDDGPPGELGPE  
 GPDGPEEKGRDRDRERRRSHRSEERRRDRDRDRDREHKRGERGSRGRDEARGGGSGQDNGLEGLGSD  
 GRDMYEAEGGDGYMAPENGYLMEAAPE

**TRTRPLE** - GFP Tag - V

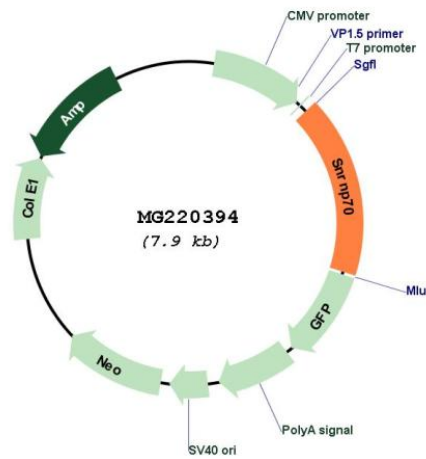
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_009224

**ORF Size:** 1344 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

**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]