

## Product datasheet for **MG210674**

### **Sf3a1 (NM\_026175) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Sf3a1 (NM_026175) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sf3a1
Synonyms:	1200014H24Rik; 5930416L09Rik; A1159724
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG210674 representing NM\_026175  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGAGGCCGACCCGTGCAGGCGGTACCCCGCCGCCAGTAGCCACTGAGTCCAAACAGCCAATTG  
 AAGAAGAAGCATCGTCAAAGGAGGATCCCACCCCTTCCAAGCCAGTGGTCGGCATTATTTACCCTCCCC  
 GGAGGTCAGGAACATCGTCGACAAGACTGCCAGTTTTGTGGCCAGAAATGGGCCTGAATTTGAAGCTAGG  
 ATTCGACAGAATGAGATCAACAACCCCAAGTTCAATTTCTTAAATCCCAATGACCCTTACCATGCCTACT  
 ACCGCCACAAGGTCAGCGAGTTC AAGGAGGGGAAGGCTCAGGAGCCCTCAGCTGCCATCCCCAAGGTTAT  
 GCAGCAGCAGCAAGCTACGCAACAGCAGCTGCCCCAGAAGGTCCAAGCCAGGTGATCCAAGAGACC  
 ATAGTACCGAAGGAGCCCCCTCTGAGTTTGTGATTCATCGCTGATCCCCCTCCATCTCAGCCTTCGACC  
 TGGATGTAGTGAAGCTGACAGCTCAGTTTGTGGCCAGGAATGGGCGTCAGTTTCTGACCCAGCTGATGCA  
 GAAAGAGCAGCGCAACTACCAGTTTGTGATTTCTCCGACCCAGCAGCCTCTTCAACTACTTCACAAAG  
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 GAAGAAGGAAGAAGAGGAGAAAGAGAAGGAGCGAGTAGCTTATGCTCAGATTGACTGGCATGATTTTGTG  
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 CAGGACATGGATGAGGGTTCAGATGATGAAGAAGAAGGGCAGAAAGTGCCTCCACCCCAAGACACCCA  
 TGCTCCACCTCGCCCCCAACACCAGACCAAGTCAATTGTGCGGAAGGACTATGATCCAAAGTTCCTCA  
 GCCCTCCCTCCAGCCCTGCTCCCGATGAGTATCTTGTATCCCCATCACTGGGGAGAAGATTCCTGCC  
 AGCAAAATGCAGGAGCAGATGCGCATTGGGCTTGTGACCCCGCTGGCTGGAGCAGCGGGACCGCTCCA  
 TCCGAGAGAAGCAGAGTATGATGAGGTTTATGCACCAGGTCTGGATATTGAGAGCAGCTTAAAGCAGTT  
 GGCTGAGCGACGTAAGTACTGACATCTTTGGGGTAGAAGAGACAGCCATTGGTAAGAAGATTGGTGAAGAGGAG  
 ATCCAGAAGCCAGAGGAGAAGGTGACTTGGGATGGCCATTGAGGAGCAGTGGCCCGGACCCAGCAGGCTG  
 CCCAGGCCAACATCACCTCCAGGAGCAGATTGAGGCCATCCATAAGGCCAAGGGCTGGTCCGGAAGA  
 TGACACTAAGGAGAAGATTGGCCCCAGCAAGCCCAATGAAATCCCTCAGCAGCCACCACCTCCATCTTCA  
 GCCACCAATATCCCAGCTCAGCACCCCAATTACATCAGTGCCTCGGCCACCCATGGCATCTGTGGTCCGGCTGCC  
 TCCGACCACTGTTGATCTGCAGTACCTGTATGCCTCGGCCACCCATGGCATCTGTGGTCCGGCTGCC  
 CCCAGGCTCAGTATTGCCCCATGCCACCCATCATCCACGCACCCAGGATCAATGTGGTACCTATGCCCT  
 CCTGCAGCACCTCCCATCATGGCGCCCCGCCACCTCCCATGATTGTGCCAACAGCCTTTGTGCCTGCC  
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 GCCTCCATCCAAGAACTAAAGACCAGGACAGTCTCATGCCTGAGGAAGAATCCTGCGCAGGAACAAG  
 GGTCCAGTATCCATCAAAGTGCAGGTACCAACATGCAGGATAAGACGGAATGGAAGCTGAATGGTCAGG  
 GGCTGGTCTTCACTCTCCACTCACAGACCAGGTCTCTGTATCAAAGTGAAGATTATGAAGCCACGGG  
 CATGCCTGCGGGGAAACAGAAACTACAGTATGAAGGCATCTTCAAGGATTCCAACCTCCCTGGCTTAC  
 TACAACATGGCCAGTGGTGTCTCATCCACTTGGCCCTCAAGGAGAGAGCGGCCGGAAGAAG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG210674 representing NM\_026175  
Red=Cloning site Green=Tags(s)

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MQAGPVQAVPPPPPVATESKQPIEEEASSKEDPTSPKPVVGGIYPPPEVRNIVDKTASFVARNGPEFEAR
IRQNEINNPKFNFLNPNDPYHAYRHKVSEFKEGKAQEPSAAIPKVMQQQQATQQQLPQKVQAQVIQET
IVPKEPPPEFEFIADPPSISAFDLDVVKLTAQFVARNGRQFLTQLMQKEQRNYQFDFLRPQHSLFNYFTK
LVEQYTKILIPPKGLFSKLLKKEAENPREVLDQVCYRVWAKFQERERKKEEEEKEKERVAYAQIDWHDFV
VVETVDFQPNEQGNFPPTTPEELGARILIQERYEKFGESEEVEMEVESDEEDQEKAEETPSQLDQDTQV
QDMDEGSDDEEEGQKVPPPPETPMPPPLPPTPDQVIVRKDYDPKASKPLPPAPAPDEYLVSPITGKIPAK
SKMQEHMRIGLLDPRWLEQRDRSIREKQSDDEVYAPGLDIESSLKQLAERRTDIFGVEETAIGKKIGEEE
IQKPEEKVTWDGHSMSMARTQQAQANITLQEIEAIHKAKGLVPEDDTKEKIGPSKPNIPQPPPPSS
ATNIPSSAPPITSVPRPPAMPPVVRTTVSAVPMRPPMASVVRLLPQSVIAPMPPIIHAPRINVVMP
PAAPPIMAPRPPMIVPTAFVPAPPVAPVAPAPMPPVHPPPPMEDEPPSKLKTEDSLMPEEEFLRRNK
GPVSIKVQVPMQDKTEWKLNGQGLVFTLPLTDQVSVIKVKIHEATGMPAGKQKLQYEGIFIKDSNSLAY
YNMAGAVIHLALKERGGRKK
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_026175

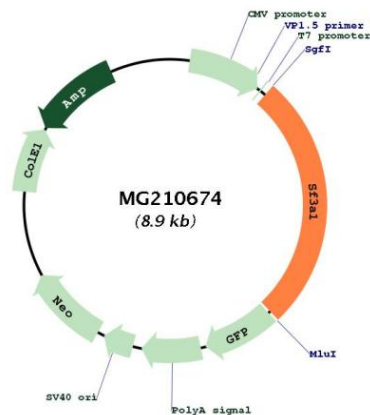
**ORF Size:** 2373 bp

**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.

<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_026175.5</a> , <a href="#">NP_080451.4</a>
<b>RefSeq Size:</b>	4916 bp
<b>RefSeq ORF:</b>	2376 bp
<b>Locus ID:</b>	67465
<b>UniProt ID:</b>	<a href="#">Q8K4Z5</a>
<b>Cytogenetics:</b>	11 A1
<b>Gene Summary:</b>	Involved in pre-mRNA splicing as a component of the splicing factor SF3A complex that contributes to the assembly of the 17S U2 snRNP, and the subsequent assembly of the pre-spliceosome 'E' complex and the pre-catalytic spliceosome 'A' complex. Involved in pre-mRNA splicing as a component of pre-catalytic spliceosome 'B' complexes.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG210674