

Product datasheet for **RG201098**

SF3A1 (NM_005877) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SF3A1 (NM_005877) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SF3A1
Synonyms:	PRP21; PRPF21; SAP114; SF3A120
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG201098 representing NM_005877
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGCCGACCCGTGCAGGCGGTGCCCGCCGCGCCCGTGCACGGAGCCAAACAGCCCACAG
 AAGAAGAAGCATCTTCAAAGGAGGATTCTGCACCTTCTAAGCCAGTTGTGGGGATTATTTACCCTCCTCC
 AGAGGTACAGAAATATTGTTGACAAGACTGCCAGCTTTGTGGCCAGAAAACGGGCTGAATTTGAAGCTAGG
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 ACCGCCACAAGGTCAGCGAGTTCAAGGAAGGGAAGGCTCAGGAGCCGTCCGCCGCATCCCCAAGGTCAT
 GCAGCAGCAGCAGACCACCCAGCAGCAGCTGCCCCAGAAGGTCCAAGCCCAAGTAATCCAAGAGACC
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 TGGATGTGGTGAAGCTGACGGCTCAGTTTGTGGCCAGGAATGGGCGCCAGTTTCTGACCCAGCTGATGCA
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 CACAGGCATGCCTGCAGGAAACAGAAGCTACAGTATGAGGGTATCTTCATCAAAGATTTCAACTCACTG
 GCTTACTACAACATGGCCAATGGCGCAGTCATCCACCTGGCCCTCAAGGAGAGAGCGGGGAGGAAGAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG201098 representing NM_005877
Red=Cloning site Green=Tags(s)

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MPAGPVQAVPPPPVPTEPKQPTTEEEASSKEDSAPSKPVVGGIIYPPPEVRNIVDKTASFVARNGPEFEAR
IRQNEINNPKFNFLNPNDPYHAYRHKVSEFKEGKAQEPSAAIPKVMQQQQTTQQQLPQKVQAQVIQET
IVPKEPPPEFEFIADPPSISAFDLDVVKLTAQFVARNGRQFLTQLMQKEQRNYQDFLDPQHSLFNYFTK
LVEQYTKILIPPKGLF SKLKKAEANPREVLDQVCYRVWAKFQERERKKEEEEKEKERVAYAQIDWHDFV
VVE TVDFQPN EQGNFPPTTPEELGARILIQERYEKFGESEEVEMEVESEDEEDDKQEKAEEPPSQLDQDT
QVQDMDEGSDDEEEGQKVP PPEPTMPPPLPPTPDQVIVRKDYDPKASKPLPPAPAPDEYLVSPITGEKI
PASKMQEHMRIGLLDPRWLEQRDRSIREKQSDDEVYAPGLDIESSLKQLAERRTDIFGVEETAIGKKIGE
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SSATNIPSSAPPITSVPRPPTMPPPVRTTVVSAVPVMPRPPMASVVRLP P GSVIAMPPII HAPRIN VVP
MPPSAPPIMAPRPPMI VPTAFVPAPPVAPVAPAMP P P V H P P P P M E D E P T S K K L K T E D S L M P E E E F L R R
NKG P V S I K V Q P N M Q D K T E W K L N G Q V L V F T L P L T D Q V S V I K V K I H E A T G M P A G K Q K L Q Y E G I F I K D S N S L
A Y Y N M A N G A V I H L A L K E R G G R K K
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005877

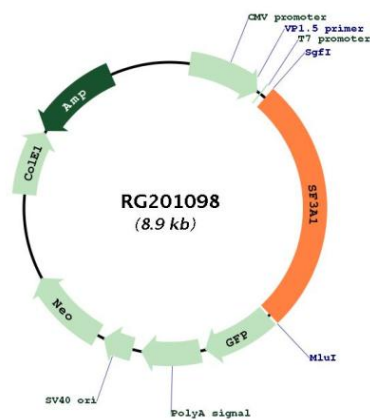
ORF Size: 2379 bp

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:	<ol style="list-style-type: none"> 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:	<u>NM_005877.6</u>
RefSeq Size:	5136 bp
RefSeq ORF:	2382 bp
Locus ID:	10291
UniProt ID:	<u>Q15459</u>
Cytogenetics:	22q12.2
Domains:	Surp, UBQ
Protein Families:	Druggable Genome
Protein Pathways:	Spliceosome
Gene Summary:	This gene encodes a subunit of the splicing factor 3a protein complex. The splicing factor 3a heterotrimer is a component of the mature U2 small nuclear ribonucleoprotein particle (snRNP). U2 small nuclear ribonucleoproteins play a critical role in spliceosome assembly and pre-mRNA splicing. [provided by RefSeq, Aug 2014]

Product images:



Circular map for RG201098