

Product datasheet for **RC218372**

SF3A1 (NM_001005409) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SF3A1 (NM_001005409) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SF3A1
Synonyms:	PRP21; PRPF21; SAP114; SF3A120
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC218372 representing NM_001005409
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGCCGACCCGTGCAGGCGGTGCCCCGCCGCCCGTCCACGGAGCCAAACAGCCCACAG
 AAGAAGAAGCATCTTCAAAGGAGGATTCTGCACCTTCTAAGCCAGTTGTGGGGATTATTTACCCTCCTCC
 AGAGGTACAGAAATATTGTTGACAAGACTGCCAGCTTTGTGGCCAGAAAACGGGCTGAATTTGAAGCTAGG
 ATCCGACAGAACGAGATCAACAACCCCAAGTTCAACTTTCTGAACCCCAATGACCCTTACCATGCCTACT
 ACCGCCACAAGGTCAGCGAGTTCAAGGAAGGGAAGGCTCAGTTTGTGGCCAGGAATGGGCGCCAGTTTCT
 GACCCAGCTGATGCAGAAAGAGCAGCGCAACTACCAGTTTGACTTTCTCCGCCACAGCAGCCTCTTC
 AACTACTTCACGAAGCTAGTGGAACAGTACACCAAGATCTTGATTCCACCCAAAGGTTTATTTTCAAAGC
 TCAAGAAAGAGGCTGAAAACCCCGAGAAGTTTGGATCAGGTGTGTACCGAGTGAATGGGCCAAATT
 CCAGGAACGTGAGAGGAAGAAGGAAGAAGAGGAGAAGGAGCGGGTGGCCTATGCTCAGATCGAC
 TGGCATGATTTTGTGGTGGTGGAAACAGTGGACTTCCAACCCAATGAGCAAGGGAATTCCTCCCCCA
 CCACGCCAGAGGAGCTGGGGGCCGAATCCTCATTGAGGAGCGCTATGAAAAGTTTGGGGAGAGTGAGGA
 AGTTGAGATGGAGGTCGAGTCTGATGAGGAGGATGACAAAACAGGAGAAGGCGGAGGAGCCTCCTCCAG
 CTGGACCAGGACACCCAAGTACAAGATATGGATGAGGGTTCAGATGATGAAGAAGAAGGGCAGAAAGTGC
 CCCCACCCAGAGACACCCATGCCTCCACCTCTGCCCAACTCCAGACCAAGTCATTGTCCGCAAGGA
 TTATGATCCCAAAGCCTCCAAGCCTTGCTCCAGCCCTGCTCCAGATGAGTATCTTGTGTCCCCATT
 ACTGGGGAGAAGATCCCCGCCAGCAAAATGCAGGAACACATGCGCATTGGACTTCTGACCCTCGCTGGC
 TGGAGCAGCGGGATCGTCCATCCGTGAGAAGCAGAGCGATGATGAGGTGTACGCACCAGGCTCGGAT
 TGAGAGCAGCTTGAAGCAGTTGGCTGAGCGGCGTACTGACATCTTCGGTGTAGAGGAAACAGCCATTGGT
 AAGAAGATCGGTGAGGAGGAGATCCAGAAGCCAGAGGAAAAGGTGACCTGGGATGGCCACTCAGGCAGCA
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 CAAAGGCCTGGTGCCAGAGGATGACACTAAAGAGAAGATTGGCCCAGCAAGCCCAATGAAATCCCTCAA
 CAGCCACCGCCACCATCTCAGCCACCAACATCCCAGCTCGGCTCCACCCATCACTTCAGTGCCCCGAC
 CACCCACAATGCCACCTCCAGTTCGTAACAGTTGTCTCCGAGTACCCGTCATGCCCGGCCCCCAAT
 GGCATCTGTGGTCCGGCTGCCCCAGGCTCAGTGATCGCCCCATGCCGCCATCATCCACGCGCCAGCA
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 CAACAGCCTTTGTGCCTGCTCCACCTGTGGCACCTGTCCAGCTCCAGCCCAATGCCCCCTGTGCATCC
 CCCACCTCCCATGGAAGATGAGCCACCTCCAAAAAAGTGAAGACAGAGGACAGCCTCATGCCAGAGGAG
 GAGTTCCTGCGCAGAAACAAGGGTCCAGTGTCCATCAAAGTCCAGGTGCCCAACATGCAGGATAAGACGG
 AATGGAAGTGAATGGGCAGGTGCTGGTCTTACCCTCCCACTCACGGACCAGGTCTCTGTCAATTAAGGT
 GAAGATTCATGAAGCCACAGGCATGCCTGCAGGGAAACAGAAGCTACAGTATGAGGGTATCTTCATCAA
 GATTCAACTCACTGGCTTACTACAACATGGCCAATGGCGCAGTCATCCACCTGGCCCTCAAGGAGAGAG
 GCGGGAGGAAGAAG

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC218372 representing NM_001005409
Red=Cloning site Green=Tags(s)

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MPAGPVQAVPPPPVPTEPKQPTTEEEASSKEDSAPSKPVVGGIYPPPEVRNIVDKTASFVARNGPEFEAR
IRQNEINNPKFNFLNPNDPYHAYRHKVSEFKEGKAQFVARNGRQFLTQLMQKEQRNYQDFLRPQHSLF
NYFTKLVEQYTKILIPPKGLFSLKKEAENPREVLDQVCYRVEWAKFQERERKKEEEEEKEKERVAYAQID
WHDFVVVEVDFQPNQGNFPPPTTPEELGARILIQERYEKFGESEEVEMEVESEDEEDDKQEKAEEPPSQ
LDQDTQVQDMDEGSDDEEEGQVPPPETPMPPLPPTPDQVIVRKDYDPKASKPLPPAPAPDEYLVSPI
TGEKIPASKMQEHMRIGLLDPRWLEQRDRSIREKQSDDEVYAPGLDIESSLKQLAERTDIFGVEETAIG
KKIGEEEEIQKPEEKVTDGHSGSMARTQQAQANITLQEQIEAIHKAKGLVPEDDTKEKIGPSKPNIEIPQ
QPPPPSSATNIPSSAPPITSVPRPPTMPPVVRTTVVSAVPMRPPMASVVRLLPAGSVIAPMPPPIIAPR
INVVPMPPSAPPIMAPRPPMIVPTAFVPAPPVAPVAPAMPMPVHPPPPMEDEPTSKKLTEDSLMPEE
EFLRRNKGVPVSIKQVPMQDKTEWKLNGQVLFVTLPLTDQVSVIKVKIHEATGMPAGKQKLQYEGIFIK
DSNSLAYYNMANGAVIHLALKERGGRRK
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001005409

ORF Size: 2184 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_001005409.1](#), [NP_001005409.1](#)

RefSeq Size: 4941 bp

RefSeq ORF: 2187 bp

Locus ID: 10291

Cytogenetics: 22q12.2

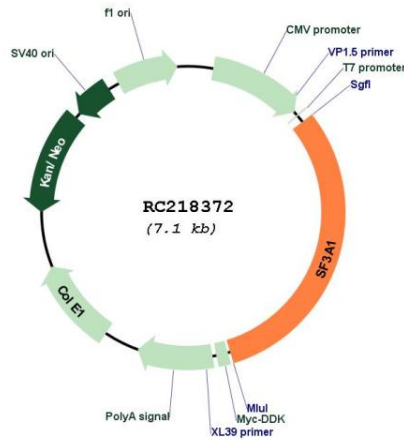
Protein Families: Druggable Genome

Protein Pathways: Spliceosome

MW: 81.5 kDa

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 RC218372