

## Product datasheet for RC219649

### SAP155 (SF3B1) (NM\_001005526) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SAP155 (SF3B1) (NM\_001005526) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** SF3B1  
**Synonyms:** Hsh155; MDS; PRP10; PRPF10; SAP155; SF3b155  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC219649 representing NM\_001005526  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCGAAGATCGCCAAGACTCACGAAGATATTGAAGCACAGATTCGAGAAATTC AAGGCAAGAAGGCAG  
CTCTTGATGAAGCTCAAGGAGTGGCCTCGATTCTACAGTTATTATGACCAGGAAATTTATGGTGAAG  
TGACAGCAGATTTGCTGGATACGTGACATCAATTGCTGCAACTGAACTTGAAGATGATGACGATGACTAT  
TCATCATCTACGAGTTTGCCTGGTCAGAAGAAGCCAGGATATCATGCCCTGTGGCATTGCTTAATGATA  
TACCACAGTCAACAGAACAGTATGATCCATTTGCTGAGCACAGACCTCCAAGATTGCAGACCGGGAAGA  
TGAATACAAAAGCATAGGCGGACCATGATAATTTCCCGAGCGCTTGTATCCTTTGCAGATGGCTTC  
TATTCTGTCTGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC219649 representing NM\_001005526  
Red=Cloning site Green=Tags(s)

MAKIAKTHEDIEAQIREIQGKKAALDEAQVGLDSTGYDQEIYGGSDSRFAGYVTSIAATELEDDDDDD  
SSSTSLLGQKPGYHAPVALLNDIPQSTEQYDPFAEHRPPKIADREDEYKHRRTMIISPERLDPFADGF  
YSA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg3302\\_e05.zip](https://cdn.origene.com/chromatograms/mg3302_e05.zip)

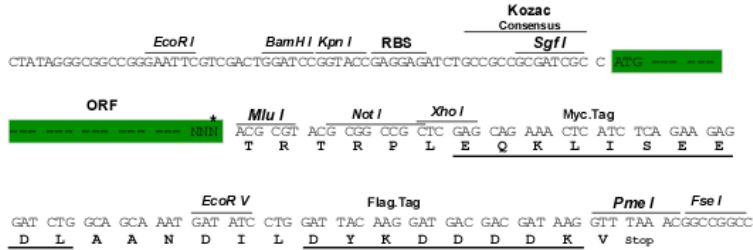
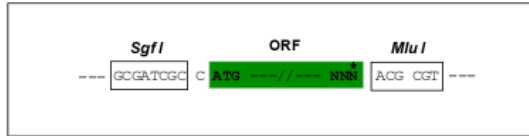
**Restriction Sites:** SgfI-MluI



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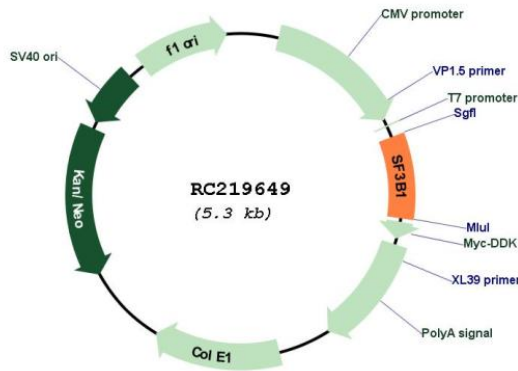
Cloning Scheme:

Cloning sites used for ORF Shuttling:



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

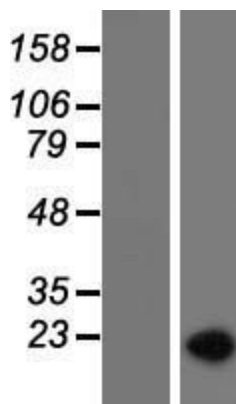
Plasmid Map:



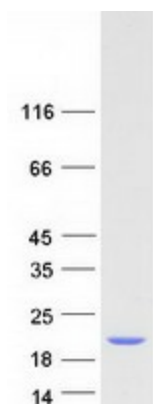
ACCN: NM\_001005526  
 ORF Size: 432 bp

|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | <p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p> |
| <b>OTI Annotation:</b>        | <p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>  |
| <b>Components:</b>            | <p>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).</p>  |
| <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>                | <p><a href="#">NM_001005526.2</a>, <a href="#">NP_001005526.1</a></p>  |
| <b>RefSeq Size:</b>           | <p>647 bp</p>  |
| <b>RefSeq ORF:</b>            | <p>435 bp</p>  |
| <b>Locus ID:</b>              | <p>23451</p>   |
| <b>Cytogenetics:</b>          | <p>2q33.1</p>  |
| <b>Protein Pathways:</b>      | <p>Spliceosome</p>   |
| <b>MW:</b>                    | <p>15.8 kDa</p>  |
| <b>Gene Summary:</b>          | <p>This gene encodes subunit 1 of the splicing factor 3b protein complex. Splicing factor 3b, together with splicing factor 3a and a 12S RNA unit, forms the U2 small nuclear ribonucleoproteins complex (U2 snRNP). The splicing factor 3b/3a complex binds pre-mRNA upstream of the intron's branch site in a sequence independent manner and may anchor the U2 snRNP to the pre-mRNA. Splicing factor 3b is also a component of the minor U12-type spliceosome. The carboxy-terminal two-thirds of subunit 1 have 22 non-identical, tandem HEAT repeats that form rod-like, helical structures. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]</p>  |

## Product images:



Western blot validation of overexpression lysate (Cat# [LY423624]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219649 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SF3B1 protein (Cat# [TP319649]). The protein was produced from HEK293T cells transfected with SF3B1 cDNA clone (Cat# RC219649) using MegaTran 2.0 (Cat# [TT210002]).