

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: SAP155
Synonyms: Hsh155; MDS; PRP10; PRPF10; SAP155; SF3b155
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC219649 representing NM_001005526
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGAAGATCGCCAAGACTCACGAAGATATTGAAGCACAGATTCGAGAAATCAAGGCAAGAAGGCAG
 CTCTTGATGAAGCTCAAGGAGTGGGCTCGATTCTACAGGTTATTATGACCAGGAAATTTATGGTGAAG
 TGACAGCAGATTTGCTGGATACGTGACATCAATTGCTGCAACTGAACTTGAAGATGATGACGATGACTAT
 TCATCATCTACGAGTTTGCTTGGTCAGAAGAAGCCAGGATATCATGCCCTGTGGCATTGCTTAATGATA
 TACCACAGTCAACAGAACAGTATGATCCATTTGCTGAGCACAGACCTCCAAAGATTGCAGACCGGGAAGA
 TGAATACAAAAGCATAGGCGGACCATGATAATTTCCCAGAGCGTCTTGATCCTTTGCAGATGGCTTC
 TATTCTGCTGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC219649 representing NM_001005526
 Red=Cloning site Green=Tags(s)
 MAKIAKTHEDIAEQIREIQGKKAALDEAQGVGLDSTGYDDQEIYGGSDSRFAGYVTSIAATELEDDDDDDY
 SSSTSLLGQKKPGYHAPVALLNDIPQSTEQYDPFAEHRPPKIADREDEYKKHRTMIISPERLDPFADGF
 YSAA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

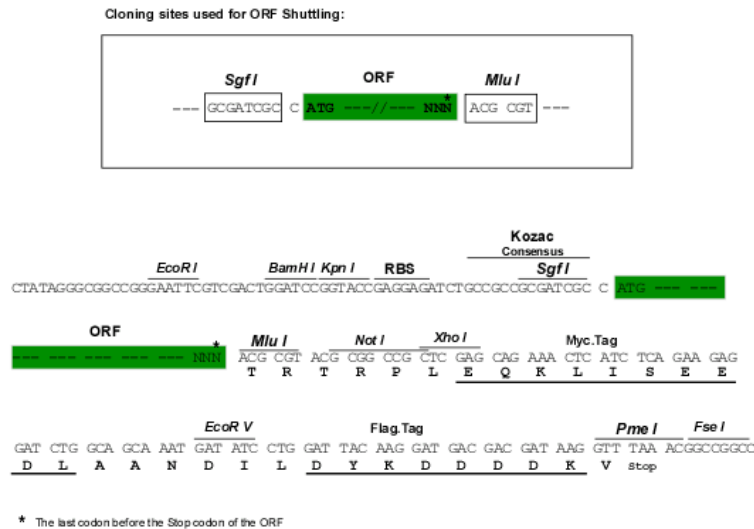
Chromatograms: https://cdn.origene.com/chromatograms/mg3302_e05.zip



View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001005526

ORF Size: 432 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001005526.2](#), [NP_001005526.1](#)

RefSeq Size: 647 bp

RefSeq ORF: 435 bp

Locus ID: 23451

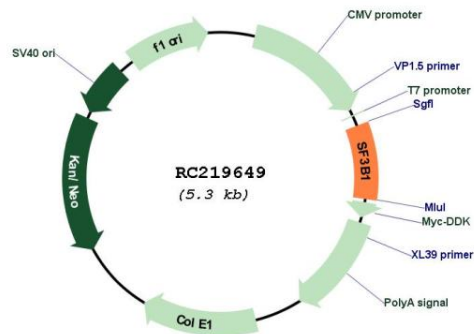
Cytogenetics: 2q33.1

Protein Pathways: Spliceosome

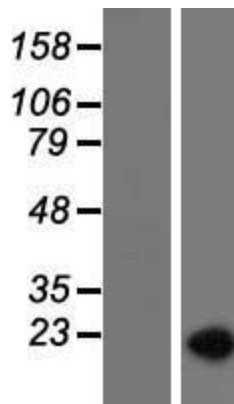
MW: 15.8 kDa

Gene Summary: 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]

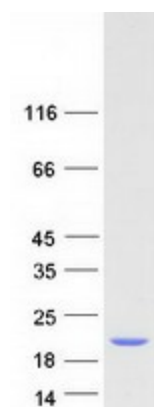
Product images:



Circular map for RC219649



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]).