

Product datasheet for **RC201866**

SF3B14 (SF3B6) (NM_016047) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SF3B14 (SF3B6) (NM_016047) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SF3B14
Synonyms: CGI-110; HSPC175; Ht006; P14; SAP14; SAP14a; SF3B14; SF3B14a
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC201866 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

**ATGGCGATGCAAGCGCCAAGAGGGCGAACATTCGACTCCACCTGAAGTAAATCGGATATTGTATATAA
GAAATTTGCCATACAAAATCACAGCTGAAGAAATGTATGATATATTTGGGAAATATGGACCTATTCGTCA
AATCAGAGTGGGGAACACACCTGAACTAGAGGAACAGCTTATGTGGTCTATGAGGACATCTTTGATGCC
AAGAATGCATGTGATCACCTATCGGGATTCAATGTTTGTAAACAGATACCTTGTGGTTTTGACTATAATG
CCAACAGGGCATTTCAGAAGATGGACACAAAGAAGAAGGAGGAACAGTTGAAGCTTCTCAAGGAGAAATA
TGGCATCAACACAGATCCACAAAA**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence: >RC201866 protein sequence
Red=Cloning site Green=Tags(s)

MAMQAAKRANIRLPPEVNRILYIRNLPYKITAEMEYDIFGKYGPIRQIRVGNTPETRGTAYVVYEDIFDA
KNACDHLSGFNVCNRYLVVLYNANRAFQKMDTKKKEEQKLLKEKYGINTDPPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6309_h03.zip

Restriction Sites: Sgfl-Mlul



[View online »](#)

Cloning Scheme:


ACCN: NM_016047

ORF Size: 375 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_016047.4](#)

RefSeq Size: 783 bp

RefSeq ORF: 378 bp

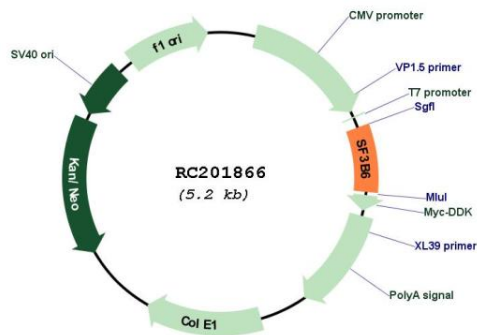
Locus ID: 51639

UniProt ID: [Q9Y3B4](#)

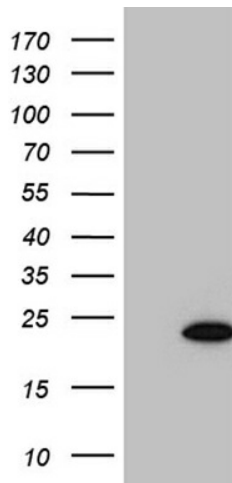
Cytogenetics: 2p23.3
Domains: RRM
Protein Pathways: Spliceosome
MW: 14.6 kDa

Gene Summary: This gene encodes a 14 kDa protein subunit of the splicing factor 3b complex. Splicing factor 3b associates with both the U2 and U11/U12 small nuclear ribonucleoprotein complexes (U2 snRNP) of spliceosomes. This 14 kDa protein interacts directly with subunit 1 of the splicing factor 3b complex. This 14 kDa protein also interacts directly with the adenosine that carries out the first transesterification step of splicing at the pre-mRNA branch site. [provided by RefSeq, Jul 2008]

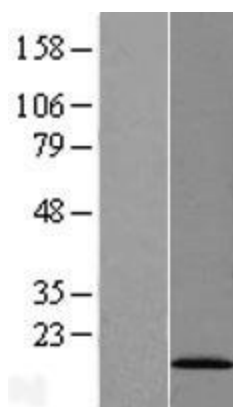
Product images:



Circular map for RC201866



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SF3B14 (Cat# RC201866, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SF3B14 (Cat# [TA811148])(1:2000). Positive lysates [LY414228] (100ug) and [LC414228] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY414228]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201866 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).