

## Product datasheet for **RC200977**

### SF3B5 (NM\_031287) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SF3B5 (NM\_031287) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** SF3B5  
**Synonyms:** SF3b10; Ysf3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC200977 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTGACCGCTACACCATCCATAGCCAGCTGGAGCACCTGCAGTCCAAGTACATCGGCACGGGCCACG  
CCGACACCACCAAGTGGGAGTGGCTGGTGAACCAACACCGCGACTCGTACTGCTCCTACATGGGCCACTT  
CGACCTTCTCACTACTTCGCCATTGCGGAGAATGAGAGCAAAGCGGAGTCCGCTTCAACTTGATGGAA  
AAGATGCTTCAGCCTTGTGGACCGCCAGCCGACAAGCCCGAGGAGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC200977 protein sequence  
Red=Cloning site Green=Tags(s)  
MTDRYTIHSQLEHLQSKYIGTGHADTTKWEVLVNQHRDSYCSYMGHFDLLNYFAIENESKARVRFNLME  
KMLQPCGPPADKPEEN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6388\\_h09.zip](https://cdn.origene.com/chromatograms/mk6388_h09.zip)

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_031287

**ORF Size:** 258 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\\_031287.3](#)

**RefSeq Size:** 786 bp

**RefSeq ORF:** 261 bp

**Locus ID:** 83443

UniProt ID: [Q9BWJ5](#)

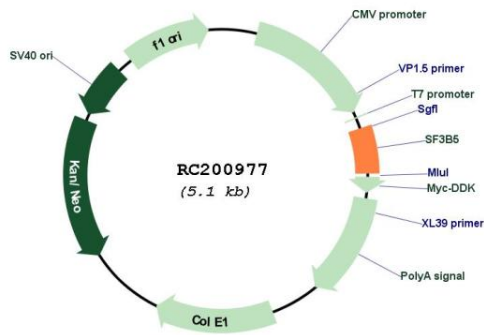
Cytogenetics: 6q24.2

Protein Pathways: Spliceosome

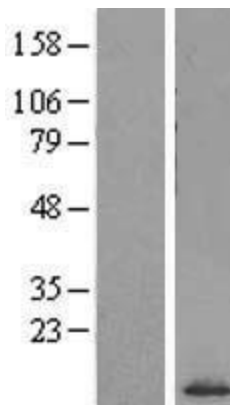
MW: 10.1 kDa

**Gene Summary:** Involved in pre-mRNA splicing as a component of the splicing factor SF3B complex, a constituent of the spliceosome (PubMed:27720643, PubMed:28781166). SF3B complex is required for 'A' complex assembly formed by the stable binding of U2 snRNP to the branchpoint sequence (BPS) in pre-mRNA. Sequence independent binding of SF3A/SF3B complex upstream of the branch site is essential, it may anchor U2 snRNP to the pre-mRNA (PubMed:12234937).[UniProtKB/Swiss-Prot Function]

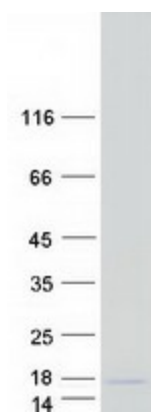
**Product images:**



Circular map for RC200977



Western blot validation of overexpression lysate (Cat# [LY410578]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200977 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SF3B5 protein (Cat# [TP300977]). The protein was produced from HEK293T cells transfected with SF3B5 cDNA clone (Cat# RC200977) using MegaTran 2.0 (Cat# [TT210002]).