

## Product datasheet for **RC209509**

### SF3B3 (NM\_012426) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SF3B3 (NM_012426) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SF3B3
Synonyms:	RSE1; SAP130; SF3b130; STAF130
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209509 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

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**Protein Sequence:** >RC209509 protein sequence  
Red=Cloning site Green=Tags(s)

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```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6262\\_h03.zip](https://cdn.origene.com/chromatograms/mk6262_h03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

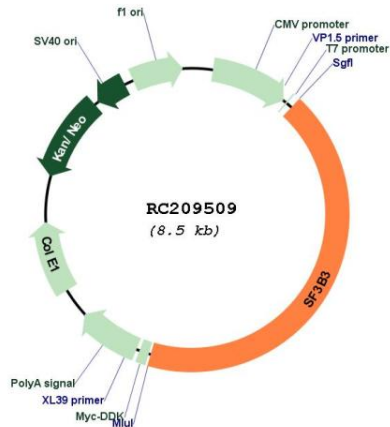


**ACCN:** NM\_012426

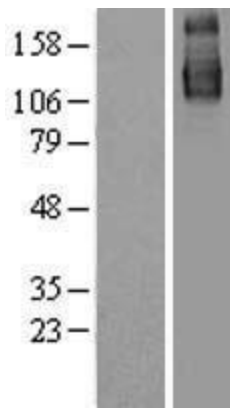
**ORF Size:** 3651 bp

<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<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 Size:</b>	9736 bp
<b>RefSeq ORF:</b>	3654 bp
<b>Locus ID:</b>	23450
<b>UniProt ID:</b>	<a href="#">Q15393</a>
<b>Cytogenetics:</b>	16q22.1
<b>Domains:</b>	CPSF_A
<b>Protein Pathways:</b>	Spliceosome
<b>MW:</b>	135.5 kDa
<b>Gene Summary:</b>	This gene encodes subunit 3 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. Subunit 3 has also been identified as a component of the STAGA (SPT3-TAF(II)31-GCN5L acetylase) transcription coactivator-HAT (histone acetyltransferase) complex, and the TFTC (TATA-binding-protein-free TAF(II)-containing complex). These complexes may function in chromatin modification, transcription, splicing, and DNA repair. [provided by RefSeq, Jul 2008]

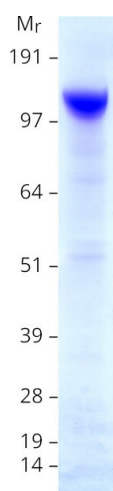
Product images:



Circular map for RC209509



Western blot validation of overexpression lysate (Cat# [LY415767]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209509 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SF3B3 protein (Cat# [TP309509]). The protein was produced from HEK293T cells transfected with SF3B3 cDNA clone (Cat# RC209509) using MegaTran 2.0 (Cat# [TT210002]).