

## Product datasheet for MR211816

### Sf3b3 (NM\_133953) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sf3b3 (NM_133953) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sf3b3
Synonyms:	1810061H24Rik; 5730409A01Rik; AA409318; D8Ertd633e; mKIAA0017; RSE1; SAP130
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211816 representing NM_133953 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGTTTCTGTACAACCTGACCTTACAGCGGGCCACTGGCATCAGCTTTGCCATCCATGGCAACTTCTCTG  
GAACCAAGCAACAGGAAATTGTTGTTTCCCGTGGGAAGATTTGGAGTTACTACGCCAGACCCTAACAC  
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ACAGGTGGCACCAAAGACTACATTGTAGTTGGCAGTGACTCAGGCCGGATTGTTATCTTGAATACCAGC  
CATCAAAGAATATGTTTGAGAAAATTCACCAAGAACTTTGGCAAAGCGGATGTCGCCGTATTGTTCC  
TGGCCAGTTCCTAGCTGTGGATCCCAAAGGAAGAGCTGTTATGATTAGTGAATTGAGAAGCAGAAATTG  
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ACACTCTGGTGTATCACGTGGTTGGCGTAGACGTGGGATTTGAGAATCCTATGTTTGCTGTCTGGAAT  
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TCCTTATTACAGTTCCTGGAGGGTCAGATGGTCCAAGTGGAGTGCTAATCTGCTCTGAGAATTATATCAC  
CTACAAGAATTTGGTGACCAGCCAGACATCCGATGTCCAATCCAGGAGACGGAATGACCTGGATGAC  
CCTGAACGAGGAATGATTTTGTGTTGCTCTGCCACCCATAAGACCAAGTCCATGTTCTTTCTGGCCC  
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TCAGAATTTGAAATCATTACTTGTATCAAATGCCATCTCGGAGATGATGATGAAGAACCTGAGTTTT  
CGTCTGCCATGCCTCTAGAAGAAGGAGACACATCTTCTTTTCAGCCGAGACCACTCAAAAATCTCGTGCT  
GGTGGATGAACCTGGACAGCCTCTCCTATTCTGTTTTGCCAGATAGCTGATTTGGCCAATGAAGACACC  
CCACAGCTGTATGTAGCCTGTGGTAGGGACCCCGGTCTCCCTGAGAGTCTTAAGGCATGGACTTGAGG  
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TTTCCCTGTTAAGAATGTGATTGATGGAGACCTTTGTGAGCAGTTCAACTCCATGGAACCAACAAGCAG  
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GCTATGCCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR211816 representing NM\_133953  
 Red=Cloning site Green=Tags(s)

MFLYNLTLQRATGISFAIHGNFSGTKQQEIVVSRGKILELLRPDPNTGKVHTLLTVEVFGVIRSLMAFRL  
 TGGTKDYIVVGSDSGRIVILEYQPSKNMFEKIHQETFSGKSGCRRIVPGQFLAVDPKGRAVMISAIEKQKL  
 VYILNRDAAARLTISSPLEAHKANTLVYHVVGVDVGFENPMFACLEMDYEEADNDPTGEAAANTQQTLTTF  
 YELDLGLNHVVRKYSEPLEEHGNFLITVPGSDGPGSVGLICSENYITYKNFGDQPDIRCPIPRRRNDLDD  
 PERGMIFVCSATHKTKSMFFLAQTEQGDIFKITLETDEDMVTEIRLKYFDTVPVAAAMCVLKTGFLFVA  
 SEFGNHLYQIAHLGDDDEEPEFSSAMPLEEGDTFFFQPRPLKNLVLVDELDLSPILFCQIADLANEDT  
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 VEEVTDSGFLGTTPTLSCSLLGDDALVQYVPDGIHRIRADKRVNEWKTPGKKTIVKCAVNQRQVVIALTG  
 GELVYFEMDPSGQLNEYTERKEMSADVCMANVPPGEQRSFLAVGLVDNTRVRIISLDPSDCLQPLSM  
 QALPAQPESLCIVEMGGTEKQDELGERGSI GFLYLNIGLQNGVLLRTVLDPVTGDLSDTRTRYLGSRPVK  
 LFRVRMQGQEAVLAMSSRSWLSYSYQSRFHLTPLSYETLEFASGFASEQCPEGIVAISTNTRLRLALEKL  
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 AFLNENLPESIFGAPKAGNGQWASVIRVMNPIQGNLTLVQLEQNEAAFVAVCRFSNTGEDWYVLVGV  
 KDLILSPRSVAGGFVYTYKLVNNGEKLEFLHKTPVEEVPAAIAPFQGRVLIIGVKLLRVYDLGKKLLRK  
 CENKHIANYISGIQTIGHRVIVSDVQESFIWVRYKRNEQLIIFADDTYPRWTTASLLDYDTVAGADKF  
 GNICVVRLPPNTNDEVEDPTGNKALWDRGLLNGASQKAEVIMNYHVGETVLSLQKTTLIPGGSSELVYT  
 TLSGGIGILVPFTSHEDHDFQHVEMHLRSEHPPLCGRDHL SFRSYFFPVKNVIDGDLCEQFNSMEPNKQ  
 KNVSEELDRTPPEVSKLEDIRTRYAF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9039\\_f10.zip](https://cdn.origene.com/chromatograms/mm9039_f10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

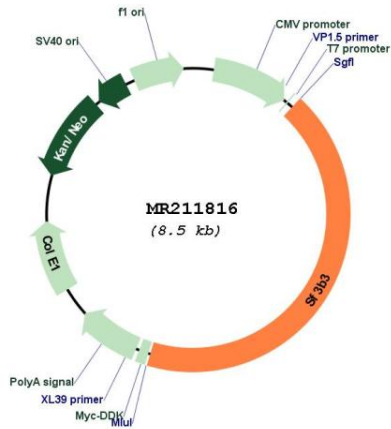


**ACCN:** NM\_133953

**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:</b>	<a href="#">NM_133953.2</a> , <a href="#">NP_598714.1</a>
<b>RefSeq Size:</b>	4299 bp
<b>RefSeq ORF:</b>	3654 bp
<b>Locus ID:</b>	101943
<b>UniProt ID:</b>	<a href="#">Q921M3</a>
<b>Cytogenetics:</b>	8 57.73 cM
<b>MW:</b>	136 kDa
<b>Gene Summary:</b>	Involved in pre-mRNA splicing as a component of the splicing factor SF3B complex, a constituent of the spliceosome. 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. May also be involved in the assembly of the 'E' complex. Belongs also to the minor U12-dependent spliceosome, which is involved in the splicing of rare class of nuclear pre-mRNA intron.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211816