

Product datasheet for **MG211816**

Sf3b3 (NM_133953) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sf3b3 (NM_133953) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sf3b3
Synonyms:	1810061H24Rik; 5730409A01Rik; AA409318; D8Ertd633e; mKIAA0017; RSE1; SAP130
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211816 representing NM_133953 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTCTGTACAACCTGACCTTACAGCGGGCCACTGGCATCAGCTTTGCCATCCATGGCAACTTCTCTG
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TGGCAAAGTACATACCCTCCTCACTGTTGAAGTATTTGGTGTATCCGGTCACTTATGGCGTTTAGGCTA
ACAGGTGGCACCAAAGACTACATTGTAGTTGGCAGTGACTCAGGCCGGATTGTTATCTTGAATACCAGC
CATCAAAGAATATGTTTGAGAAAATTCACCAAGAACTTTGGCAAAGCGGATGTCGCCGTATTGTTCC
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ACACTCTGGTGTATCACGTGGTTGGCGTAGACGTGGGATTTGAGAATCCTATGTTTGCTGTCTGGAAT
GGATTATGAGGAGGCAGACAATGATCCAACAGGGGAAGCAGCAGCCAATACCCAGCAGACACTTACTTTC
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TCCTTATTACAGTTCCTGGAGGGTCAGATGGTCCAAGTGGAGTGTAAATCTGCTCTGAGAATTATACAC
CTACAAGAACTTTGGTGACCAGCCAGACATCCGATGTCCAATCCAGGAGACGGAATGACCTGGATGAC
CCTGAACGAGGAATGATTTTGTGTTGCTCTGCCACCATAAGACCAAGTCCATGTTCTTTCTGGCCC
AAACGGAGCAGGGAGATATCTTTAAGATCACTTTAGAGACAGATGAAGATATGGTAACCGAGATCCGCCT
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TTTCCCTGTTAAGAATGTGATTGATGGAGACCTTTGTGAGCAGTTCAACTCCATGGAACCAACAAGCAG
AAGAACGTCTCTGAGGAGCTGGACCGAACCCACCTGAAGTGTCCAAGAAGCTTGGAGACATTAGGACCC
GCTATGCCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211816 representing NM_133953
 Red=Cloning site Green=Tags(s)

MFLYNLTLQRATGISFAIHGNFSGTKQQEIVVSRGKILELLRPDPNTGKVHTLLTVEVFGVIRSLMAFRL
 TGGTKDYIVVGSDSGRIVILEYQPSKNMFEKIHQETFSGKSGCRRIVPGQFLAVDPKGRAVMISAIEKQKL
 VYILNRDAAARLTISSPLEAHKANTLVYHVGVGVDFENPMFACLEMDYEEADNDPTGEEAANTQQTLTF
 YELDLGLNHVVRKYSEPLEEHGNFLITVPGSDGPGSVLICSENYITYKNFGDQPDIRCPIPRRRNDLDD
 PERGMIFVCSATHKTKSMFFLAQTEQGDIFKITLETDEDMVTEIRLKYFDTVPVAAAMCVLKTGFLFVA
 SEFGNHLYQIAHLGDDDEEPEFSSAMPLEEGDTFFFQPRPLKNLVLVDELDLSPILFCQIADLANEDT
 PQLYVACGRGPRSSLRVLRHGLEVSEMAVSELPGNPNVWTVRRHIEDEFDAYIIVSFVNATLVLSIGET
 VEEVTDSGFLGTTPTLSCSLLGDDALVQVYPDGIRHIRADKRVNEWKTPGKKTIVKCAVNQRQVVIALTG
 GELVYFEMDPGQLNEYTERKEMSADVCMANVPPGEQRSFLAVGLVDNTRVRIISLDPDCLQPLSM
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 LFRVRMQQEAVLAMSSRSWLSYSYQSRFHLTPLSYETLEFASGFASEQCPEGIVAISTNTRLRLALEKL
 GAVFNQVAFPLQYTPRFVIHPESNNLIIETDHNAYTEATKAQRKQMAEEMVEAAGEDERELAAEMAA
 AFLNENLPESIFGAPKAGNGQWASVIRVMNPIQGNLTLVQLEQNEAAFVAVCRFSNTGEDWYVLVGVA
 KDLILSPRSVAGGFVYTYKLVNNGEKLEFLHKTPVEEVPAAIAPFQGRVLIQVGVKLLRVYDLGKKLLRK
 CENKHIANYISGIQTIGHRVIVSDVQESFIWVRYKRNEQLIIFADDTYPRWTTASLLDYDTVAGADKF
 GNICVVRLLPPNTNDEVEDPTGNKALWDRGLLNGASQKAEVIMNYHVGETVLSLQKTTLIPGGSSELVYT
 TLSGGIGILVPFTSHEDHDFQHVEMHLRSEHPPLCGRDHL SFRSYFFPVKNVIDGDLCEQFNSMEPNKQ
 KNVSEELDRTPPEVSKKLEDIRTRYAF

TRTRPLE - GFP Tag - V

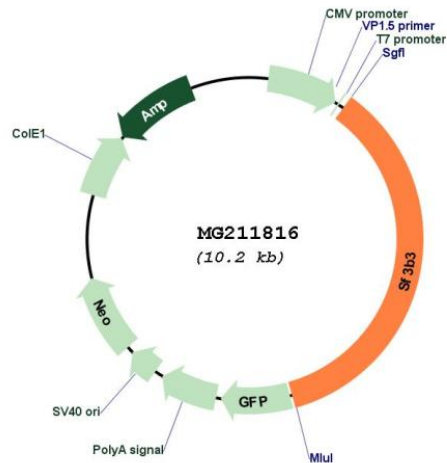
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_133953

ORF Size: 3651 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_133953.2](#), [NP_598714.1](#)

RefSeq Size: 4299 bp

RefSeq ORF: 3654 bp

Locus ID: 101943

UniProt ID: [Q921M3](#)

Cytogenetics: 8 57.73 cM

Gene Summary:

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]