

## Product datasheet for **RG210352**

### SF3B4 (NM\_005850) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SF3B4 (NM_005850) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SF3B4
Synonyms:	AFD1; Hsh49; SAP49; SF3b49
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210352 representing NM_005850 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGCCGGGCCGATCTCCGAGCGGAATCAGGATGCCACTGTGTACGTGGGGGCTGGATGAGAAGG  
TTAGTGAACCGCTGCTGTGGAACTGTTTCTCCAGGCTGGACCAGTAGTCAACACCCACATGCCAAAGGA  
TAGAGTCACTGGCCAGCACCAAGGCTATGGCTTTGTGGAATTCCTGAGTGAGGAAGATGCTGACTATGCC  
ATTAAGATCATGAACATGATCAAATCTATGGGAAGCCAATACGGGTGAACAAAGCATCAGCTCACAAACA  
AAAACCTGGATGTAGGGCCAACATTTTCATTGGGAACCTGGACCCTGAGATTGATGAGAAGTTGCTTTA  
TGATACTTTCAGCGCCTTTGGGGTCATCTTACAAACCCCAAAATATGCGGGACCTGACACAGGCAAC  
TCCAAAGGTTATGCCTTTATTAATTTTGCCTTCATTTGATGCTTCGGATGCAGCAATTGAAGCCATGAATG  
GGCAGTACCTCTGTAACCGTCTATCACCGTATCTTATGCCTTCAAGAAGGACTCCAAGGGTGAGCGCCA  
TGGCTCAGCAGCCGAACGACTTCTGGCAGCTCAGAACCCGCTCTCCAGGCTGATCGCCCTCATCAGCTG  
TTTGCAGATGCACCTCCTCCACCCTCTGCTCCCAATCCTGTGGTATCATCATTGGGGTCTGGGCTTCTCT  
CACCAGGCATGCCTCCTCCTGGCTCCTCCACCCCAAGTCCACCTCCTGGAGCCCTCCACCTGGGAT  
ACCCCAAGCCATGCCCAACACCTATGCCTCCTGGGGCTGCAGGACATGGCCCCCATCGGCAGGAACC  
CCAGGGGCAGGACATCCTGGTCATGGACACTCACATCCTCACCCATTCCACCCGGTGGGATGCCCATC  
CAGGGATGTCTCAGATGCAGCTTGCACACCATGGCCCTCATGGCTTAGGACATCCCACGCTGGACCCCC  
AGGCTCTGGGGCCAGCCACCGCCCGACCACCACTGGAATGCCTCATCCTGGACCTCCTCCAATGGGC  
ATGCCCAAGGAGGGCTCCATTCGGATCTCCATGGGTACCCAGGTCCTATGCCTCCGCATGGTATGC  
GTGGACCTCCTCCACTGATGCCCAACATGGATACACTGGCCCTCCACGACCCCAACCTATGGCTACCA  
GCGGGGGCTCTCCTCCACCCAGACCCACTCCCCGCCACCAAGTCCCCCTCGAGGCCCACTTCGAGGC  
CCTCTCCCTCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG210352 representing NM\_005850  
 Red=Cloning site Green=Tags(s)

MAAGPISERNQDATVYVGGLEKDVSEPLLWELFLQAGPVVNTHMPKDRVTGQHQQYGVFEFLSEEDADYA  
 IKIMNMIKLYGKPIRVNKASAHNKNLDVGANIFIGNLDPEIDEKLLYDTFSAFGVILQTPKIMRDPDTGN  
 SKGYAFINFASFDASDAAIEAMNGQYLCNRPITVSYAFKKDSKGERHGSAAERLLAAQNPLSQADRPQL  
 FADAPPPPSAPNPVVSSLGSLPPPGMPPPGSFPPPVPPPGALPPGIPPAMPPPPMPGAAGHGPPSAGT  
 PGAGHPGHGSHPHFPFPPGMPHPGMSQMLAHHGPHGLGHPHAGPPGSGGQPPRPPPGMHPGPPPMG  
 MPPRGPFFGSPMGHPGMPHPGMRGPPPLMPPHGYTGPPRPPPYGYQRGLPPPRPTPRPPVPRGRLRG  
 PLPQ

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005850

**ORF Size:** 1272 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\\_005850.5](#)

**RefSeq Size:** 2001 bp

**RefSeq ORF:** 1275 bp

**Locus ID:** 10262

**UniProt ID:** [Q15427](#)

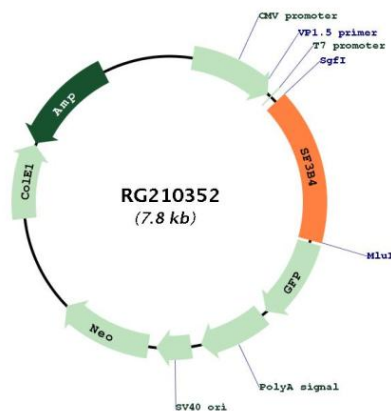
**Cytogenetics:** 1q21.2

**Domains:** RRM

**Protein Pathways:** Spliceosome

**Gene Summary:** This gene encodes one of four subunits of the splicing factor 3B. The protein encoded by this gene cross-links to a region in the pre-mRNA immediately upstream of the branchpoint sequence in pre-mRNA in the prespliceosomal complex A. It also may be involved in the assembly of the B, C and E spliceosomal complexes. In addition to RNA-binding activity, this protein interacts directly and highly specifically with subunit 2 of the splicing factor 3B. This protein contains two N-terminal RNA-recognition motifs (RRMs), consistent with the observation that it binds directly to pre-mRNA. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG210352