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# Product datasheet for RR206907

## Sf3b4 (NM_001011951) Rat Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Sf3b4 (NM_001011951) Rat Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | Sf3b4 |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **Cell Selection:** | Neomycin |
| **ORF Nucleotide Sequence:** | >RR206907 representing NM_001011951<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGCCGGACCGATCTCCGAACGGAATCAGGATGCCACGGTGTACGTGGGAGGTCTAGACGAGAAAG
TGAGCGAGCCACTGCTATGGGAGCTCTTTCTCCAGGCAGGGCCAGTGGTCAACACCCACATGCCAAAGGA
TAGAGTCACTGGCCAGCACCAAGGCTATGGCTTTGTTGAATTCTTGAGTGAGGAAGATGCTGACTATGCC
ATTAAGATTATGAACATGATCAAACTCTATGGGAAGCCAATACGGGTGAACAAAGCCTCGGCTCACAACA
AAAACCTGGATGTAGGAGCCAACATTTTCATTGGAAATCTGGACCCAGAAATTGATGAGAAGTTGCTTTA
CGATACTTTTAGCGCCTTTGGAGTCATCTTACAGACCCCCAAGATTATGCGGGACCCTGACACAGGCAAC
TCCAAGGGTTACGCCTTCATTAATTTTGCTTCATTTGATGCTTCAGATGCAGCAATTGAGGCCATGAATG
GGCAGTACCTGTGTAACCGCCCTATCACTGTGTCTTATGCCTTCAAGAAGGACTCTAAGGGTGAACGACA
TGGCTCAGCAGCTGAACGACTTCTGGCAGCCCAGAACCCGCTGTCTCAGGCTGACCGCCCTCATCAGCTG
TTTGCCGATGCACCCCCTCCACCCTCTGCCCCCAATCCTGTGGTTTCATCCCTGGGTTCTGGGCTTCCTC
CACCAGGAATGCCACCTCCTGGTTCGTTCCCACCTCCAGTGCCACCTCCTGGGGCCCTTCCTCCTGGGAT
ACCCCCAGCAATGCCCCCACCACCTATGCCACCTGGGGCTGGAGGACATGGTCCCCCAGCAGCAGGAACT
CCAGGGGCTGGACATCCTGGTCATGGACATTCACATCCTCATCCATTCCCACCAGGTGGGATGCCCCATC
CAGGGATGTCCCAGATGCAGCTGGCCCACCATGGCCCCCATGGCCTAGGACACCCCCATGCTGGGCCTCC
AGGCTCTGGAGGGCAGCCACCACCCCGACCACCCCCTGGAATGCCTCATCCTGGACCACCTCCGATGGGC
ATGCCTCCCCGAGGGCCTCCTTTTGGATCTCCCATGGGTCACCCAGGTCCCATGCCTCCACACGGTATGC
GTGGGCCTCCTCCATTGATGCCCCCTCATGGATACACCGGTCCTCCGAGACCCCCTCCCTATGGCTACCA
GCGGGGACCCCTCCCTCCACCCAGACCCACTCCACGGCCCCCAGTTCCTCCTCGTGGTCCACTTCGGGGC
CCACTTCCTCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:**

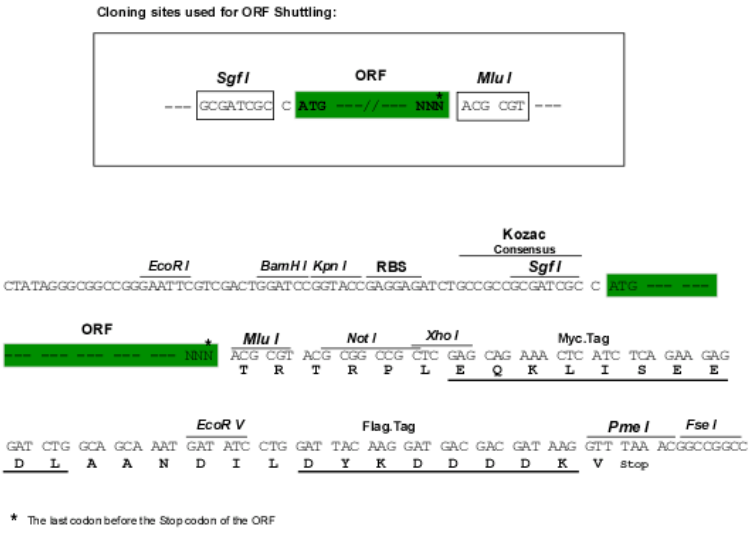
>RR206907 representing NM_001011951
Red=Cloning site Green=Tags(s)

MAAGPISERNQDATVYVGGLDEKVSEPLLWELFLQAGPVVNTHMPKDRVTGQHQGYGFVEFLSEEDADYA
IKIMNMIKLYGKPIRVNKASAHNKNLDVGANIFIGNLDPEIDEKLLYDTFSAFGVILQTPKIMRDPDTGN
SKGYAFINFASFDASDAAIEAMNGQYLCNRPITVSYAFKKDSKGERHGSAAERLLAAQNPLSQADRPHQL
FADAPPPPSAPNPVVSSLGSGLPPPGMPPPGSFPPPVPPPGALPPGIPPAMPPPPMPPGAGGHGPPAAGT
PGAGHPGHGHSHPHPFPPGGMPHPGMSQMQLAHHGPHGLGHPHAGPPGSGGQPPPRPPPGMPHPGPPPMG
MPPRGPPFGSPMGHPGPMPPHGMRGPPPLMPPHGYTGPPRPPPYGYQRGPLPPPRPTPRPPVPPRGPLRG
PLPQ

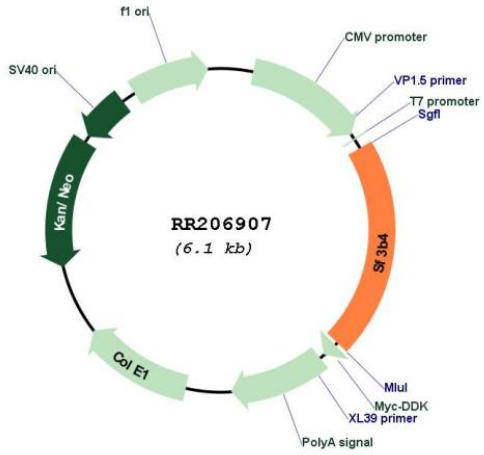
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**Plasmid Map:**



| | |
|---|---|
| **ACCN:** | NM_001011951 |
| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001011951.1, NP_001011951.1 |
| **RefSeq Size:** | 1565 bp |
| **RefSeq ORF:** | 1275 bp |
| **Locus ID:** | 295270 |
| **UniProt ID:** | Q6AYL5 |
| **Cytogenetics:** | 2q34 |
| **MW:** | 44.4 kDa |
| **Gene Summary:** | Involved in pre-mRNA splicing as a component of the splicing factor SF3B complex. 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. SF3B4 has been found in complex 'B' and 'C' as well. 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] |