

Product datasheet for **RG200977**

SF3B5 (NM_031287) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SF3B5 (NM_031287) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SF3B5
Synonyms: SF3b10; Ysf3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200977 representing NM_031287
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTGACCGCTACACCATCCATAGCCAGCTGGAGCACCTGCAGTCCAAGTACATCGGCACGGGCCACG
CCGACACCACCAAGTGGGAGTGGCTGGTGAACCAACCCGCGACTCGTACTGCTCCTACATGGGCCACTT
CGACCTTCTCACTACTTCGCCATTGCGGAGAATGAGAGCAAAGCGGAGTCCGCTTCAACTTGATGGAA
AAGATGCTTCAGCCTTGTGGACCGCCAGCCGACAAGCCCGAGGAGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200977 representing NM_031287
Red=Cloning site Green=Tags(s)
MTDRYTIHSQLEHLQSKYIGTGHADTTKWEVLVNQHRDSYCSYMGHFDLLNYFAIAENESKARVRFNLME
KMLQPCGPPADKPEEN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_031287

ORF Size: 258 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:

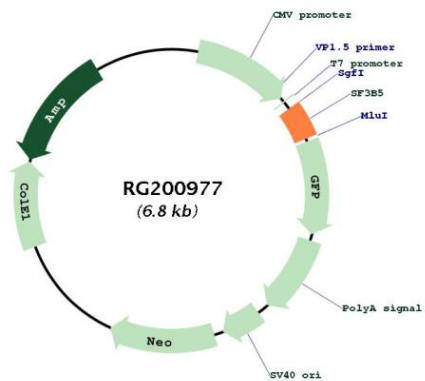
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_031287.3](#)

RefSeq Size: 786 bp

RefSeq ORF:	261 bp
Locus ID:	83443
UniProt ID:	Q9BWJ5
Cytogenetics:	6q24.2
Protein Pathways:	Spliceosome
Gene Summary:	Involved in pre-mRNA splicing as a component of the splicing factor SF3B complex, a constituent of the spliceosome (PubMed:27720643, PubMed:28781166). 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 (PubMed:12234937).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG200977