

## Product datasheet for **RR208102**

### **Sf3a2 (NM\_001011986) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Sf3a2 (NM_001011986) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sf3a2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR208102 representing NM\_001011986  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACTTTCAGCACCGACTGGAGGCAAACCTGGGAGTGGGGCGTGGCCTCCTCCTCAGAGAGCAACC  
 GGGATCGAAGAGAGCGCCTGCGCAACTGGCCCTGGAAACCATCGACATCAATAAGGACCCGTATTTTCAT  
 GAAGAACCACCTGGGATCCTATGAGTGCAAACCTGCTTGACTCTGCATAACAATGAGGGGAGCTACCTG  
 GCCCATACCCAAGGGAAGAAACATCAGACTAATTGGCCCGGCGAGCTGCCAAGGAGGCCAAAGAAGCCC  
 CCGCCAGCCTGCACCAGAGAAGGTCAAGTGGAGGTGAAGAAGTTTGTGAAGATTGGCCGCCCTGGCTA  
 CAAAGTGACCAAGCAGAGGGACACAGAGATGGCCAGCAGAGCCTACTGTTCCAGATTGACTACCCTGAG  
 ATTGCAGAGGGTGTATGCCCGCCACCGCTTCATGTCTGCCTATGAGCAGAGGATCGAGCCCCGGACC  
 GCCGCTGGCAGTACCTCCTCATGGCTGTGAGCCCTATGAGACCATCGCCTTCAAGGTGCCGAGCCGCGA  
 GATCGACAAGGCTGAGGGCAAGTTTTGGACCCACTGGAACCGAGAGACCAAGCAGTTTTTTCTTCAGTTC  
 CACTTTAAGATGGAGAAGCCCCAGCCCCCTCCAGCCTCCAGCAGGACCCCAAGCGGTCAAAGCGCCCC  
 CGCCCCACTCATGAACGGACTACCTCCTCGCCACCCTCCCTGATGCCTTGCCCCACCTCCACCTGG  
 TGGCCTGCCTCTTCTCCTATGCCCCCACTGGCCTGTCCCTCTGGGCCCCCTGGACCTCCCCAGATG  
 CCCCCACCAGCTCCTGGGTACACCCCCAGCCCCAGTAGTACACCCACCAACATCTGGGGTCCATCCCC  
 CAGCTCCTGGGGTGCACCCCCAGCCCCAGTGGTTCATCCACCAACATCTGGGGTCCATCCCCAGCTCC  
 TGGGGTCCATCCTCCAGCCCCGGAGTGCACCTCCAGCCCCGGAGTGCACCCACCAGCCCCGGGGTGC  
 CACCCCCAGCTCCAGGGGTCCACCCCCAGCTCCAGGGGTCCACCCCCAGCTCCAGGGGTCCACCCCC  
 CAGCTCCAGGGGTCCACCTCCTCCATCAGTGGAGTTCATCCTCAGGCTCCAGGGGTGCATCCACCTGC  
 TCCTGCAGTCCACCTCAAGCCCCTGGTGTACACCCCCAGCTCCTGGGATCCACCTCAGGCACCAAGG  
 GTGCACCCCCAGCCTCCTCCTGGAGTCCACCTGTGCCCCAGGGGTCCATCCTCAGCCTCCAGGGGTTC  
 ACCCTACTCCTATGCCCCCATGCTAAGGCCCCCCCTTCCCTCGGATGGCCCTGGGAACATGCCTCCGCC  
 TCCCCAGGCAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR208102 representing NM\_001011986  
 Red=Cloning site Green=Tags(s)

MDFQHRPGGKTGSGGVASSESNRDRRERLRQLALETIDINKDPYFMKNHLGSYECKLCLTLHNNEGSYL  
 AHTQGGKHQTNLARAAKEAKEAPAQPAPEKVKVEVKKFVKIGRPGYKVTQRDTEMGQQSLLFQIDYPE  
 IAEVMPRHRFMSAYEQRIEPPDRRWQYLLMAAEPYETIAFKVPSREIDKAEGKFWTHWNRETKQFFLQF  
 HFKMEKPPAPPSPAGPPGVKRPPLMNGLPPRPPLPDALPPPPPGGLPLPMPPTGPAPSGPPGPPQM  
 PPPAPGVHPPAPVVHPPTSGVHPPAPGVHPPAPVVHPPTSGVHPPAPGVHPPAPGVHPPAPGVHPPAPGV  
 HPPAPGVHPPAPGVHPPAPGVHPPAPGVHPPPSAGVHPQAPGVHPPAPAVHPQAPGVHPPAPGIHPQAPG  
 VHPQPPPGVHPAAGVHPQPPGVHPTMPMPLRPPLPSDGPNGMPPPPPGN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

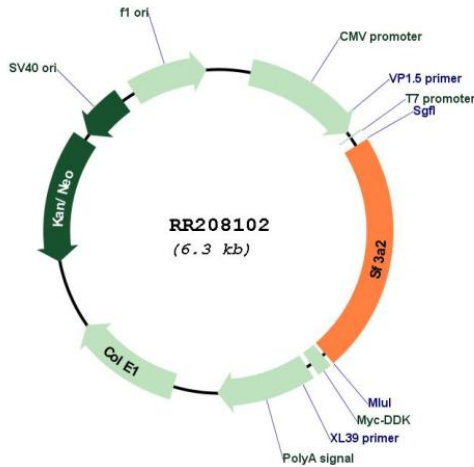
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001011986

ORF Size: 1413 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\\_001011986.1](#), [NP\\_001011986.1](#)

**RefSeq Size:** 1633 bp

**RefSeq ORF:** 1416 bp

**Locus ID:** 299620

**UniProt ID:** [Q6AXT8](#)

**Cytogenetics:** 7q11

**MW:** 49.9 kDa

**Gene Summary:** Involved in pre-mRNA splicing as a component of the splicing factor SF3A complex that contributes to the assembly of the 17S U2 snRNP, and the subsequent assembly of the pre-spliceosome 'E' complex and the pre-catalytic spliceosome 'A' complex. Involved in pre-mRNA splicing as a component of pre-catalytic spliceosome 'B' complexes, including the Bact complex. Interacts directly with the duplex formed by U2 snRNA and the intron. [UniProtKB/Swiss-Prot Function]