

## Product datasheet for **RC202758**

### **SSX4 (SSX4B) (NM\_001034832) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SSX4 (SSX4B) (NM\_001034832) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** SSX4  
**Synonyms:** CT5.4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC202758 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACGGAGACGACGCCTTTGCAAGGAGACCCAGGGATGATGCTCAAATATCAGAGAAGTTACGAAAGG  
CCTTCGATGATATTGCCAAATACTTCTCTAAGAAAGAGTGGGAAAAGATGAAATCCTCGGAGAAAATCGT  
CTATGTGTATATGAAGCTAAACTATGAGGTCATGACTAACTAGGTTTCAAGGTCACCCCTCCACCTTTT  
ATGCGTAGTAAACGGGCTGCAGACTTCCACGGGAATGATTTTGGTAACGATCGAAACCACAGGAATCAGG  
TTGAACGTCCTCAGATGACTTTTCGGCAGCCTCCAGAGAATCTTCCGAAGATCATGCCAAGAAGCCAGC  
AGAGGAAGAAAATGGTTTGAAGGAAGTCCAGAGGCATCTGGCCCAAAAATGATGGGAAACAGCTGTGC  
CCCCCGGAAATCCAAGTACCTTGAGAAGATCAACAAGACATCTGGACCCAAAAGGGGGAAACATGCCT  
GGACCCACAGACTGCGTGAGAGAAAAGCAGCTGGTGGTTTATGAAGAGATCAGCGACCCTGAGGAAGATGA  
CGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC202758 protein sequence  
**Red=Cloning site Green=Tags(s)**

MNGDDAFARRPRDDAQISEKLRKAFDDIAKYFSKKEWEKMKSSSEIVVYVMKLNVEVMTKLGFKVTLPPF  
MRSKRAADFHGNDGNDNRNHRNQVERPQMTFGSLQRIFFPKIMPKKPAEEENGLKEVPEASGPQNDGKQLC  
PPGNPSTLEKINKTSGPKRKGHAWTHRLRERKQLVYVEEISDPEEDDE

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

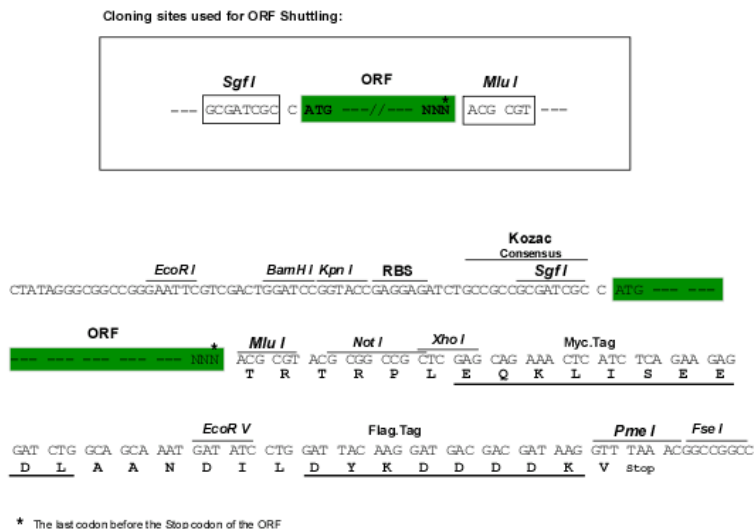


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**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6415\\_f09.zip](https://cdn.origene.com/chromatograms/mk6415_f09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001034832

**ORF Size:** 564 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\\_001034832.3](#), [NP\\_001030004.1](#)

**RefSeq Size:** 1244 bp

**RefSeq ORF:** 567 bp

**Locus ID:** 548313

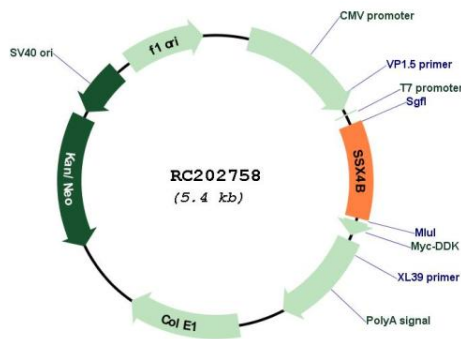
UniProt ID: [O60224](#)

Cytogenetics: Xp11.23

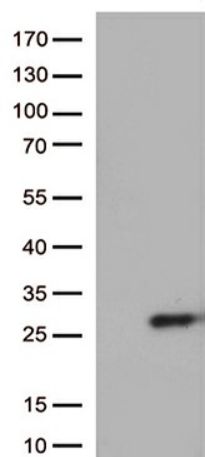
MW: 21.9 kDa

**Gene Summary:** The product of this gene belongs to the family of highly homologous synovial sarcoma X (SSX) breakpoint proteins. These proteins may function as transcriptional repressors. They are also capable of eliciting spontaneously humoral and cellular immune responses in cancer patients, and are potentially useful targets in cancer vaccine-based immunotherapy. SSX1, SSX2 and SSX4 genes have been involved in the t(X;18) translocation characteristically found in all synovial sarcomas. This translocation results in the fusion of the synovial sarcoma translocation gene on chromosome 18 to one of the SSX genes on chromosome X. Chromosome Xp11 contains a segmental duplication resulting in two identical copies of synovial sarcoma, X breakpoint 4, SSX4 and SSX4B, in tail-to-tail orientation. This gene, SSX4B, represents the more centromeric copy. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC202758



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SSX4B (Cat# RC202758, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SSX4B (Cat# [TA812589])(1:500).