

## Product datasheet for **RG236404**

### SSX1 (NM\_001278691) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SSX1 (NM\_001278691) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** SSX1  
**Synonyms:** CT5.1; SSRC  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG236404 representing NM\_001278691.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAACGGAGACGACACCTTTGCAAAGAGACCCAGGGATGATGCTAAAGCATCAGAGAAGAGAAGCAAG
GCCTTTGATGATATTGCCACATACTTCTCTAAGAAAGAGTGAAAAAGATGAAATACTCGGAGAAAAATC
AGCTATGTGTATGAAGAGAACTATAAGGCCATGACTAACTAGGTTTCAAAGTACCCTCCCACCT
TTCATGTGTAATAAACAGGCCACAGACTCCAGGGGAATGATTTTGATAATGACCATAACCGCAGGATT
CAGGTTGAACATCCTCAGATGACTTTCGGCAGGCTCCACAGAATCATCCGAAGATCATGCCAAGAAG
CCAGCAGAGGACGAAAAATGATTCGAAGGGAGTGCAGAAGCATCTGGCCACAAAACGATGGGAAACAA
CTGCACCCCCAGGAAAAGCAAATATTTCTGAGAAGATTAATAAGAGATCTGGACCCAAAAGGGGAAA
CATGCCTGGACCCACAGACTGCGTGAGAGAAAAGCAGCTGGTGATTATGAAGAGATCAGCGACCCCTGAG
GAAGATGACGAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG236404  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MNGDDTFAKRPRDDAKASEKRSKAFDDIATYFSKKEWKKMYSEKISYVYMKRNYKAMTKLGFKVTLP
FMCNKQATDFQGNDFDNDHNRRIQVEHPQMTFGRHLHRIIPKIMPKPAEDENDSKGVSEASGPQNDGKQ
LHPPGKANISEKINKRSGPKRGKHAWTHRLRERKQLVIYEEISDPEEDDE
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDLGGYSSVVDSHMHFKSAIHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-MluI

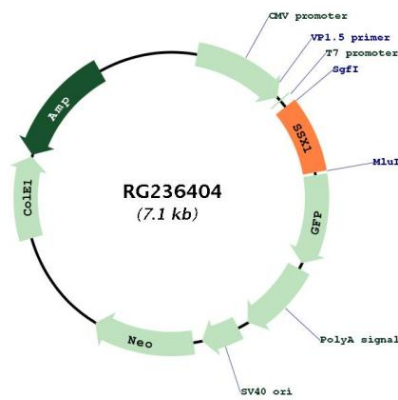


**Cloning Scheme:**


- ACCN:** NM\_001278691
- 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).
- RefSeq:** [NM\\_001278691.1](#), [NP\\_001265620.1](#)
- RefSeq Size:** 1402 bp
- RefSeq ORF:** 567 bp
- Locus ID:** 6756
- UniProt ID:** [Q16384](#)
- Cytogenetics:** Xp11.23
- Protein Families:** Transcription Factors
- 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 spontaneous humoral and cellular immune responses in cancer patients, and are potentially useful targets in cancer vaccine-based immunotherapy. This gene, and also the SSX2 and SSX4 family members, have been involved in t(X;18)(p11.2;q11.2) translocations that are 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. The encoded hybrid proteins are likely responsible for transforming activity. Alternative splicing of this gene results in multiple transcript variants. A related pseudogene has been identified on chromosome X. [provided by RefSeq, Jul 2013]

**Product images:**

Circular map for RG236404