

Product datasheet for **SC327386**

SSX2 (SSX2B) (NM_001164417) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SSX2 (SSX2B) (NM_001164417) Human Untagged Clone
Tag:	Tag Free
Symbol:	SSX2
Synonyms:	CT5.2; CT5.2b; HOM-MEL-40; SSX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC327386 representing NM_001164417. Blue =Insert sequence Red =Cloning site Green =Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAACGGAGACGACGCCTTTGCAAGGAGACCCACGGTTGGTGCTCAAATACCAGAGAAGATCCAAAAG
GCCTTCGATGATATTGCCAAATACTTCTCTAAGGAAGAGTGGGAAAAGATGAAAGCCTCGGAGAAAAATC
TTCTATGTGTATATGAAGAGAAAGTATGAGGCTATGACTAACTAGGTTTCAAGGCCACCCTCCACCT
TTCATGTGTATAAACGGGCCGAAGACTTCCAGGGGAATGATTTGGATAATGACCCTAACCGTGGGAAT
CAGGTTGAACGTCTCAGATGACTTTCGGCAGGCTCCAGGGAATCTCCCCGAAGATCATGCCAAGAAG
CCAGCAGAGGAAGGAAATGATTCGAGGAAGTGCCAGAAGCATCTGGCCACAAAATGATGGGAAAGAG
CTGTGCCCCCGGAAAACCACTACCTCTGAGAAGATTACGAGAGATCTGGACCCAAAAGGGGGAA
CATGCCTGGACCCACAGACTGCGTGAGAGAAAACAGCTGGTGATTATGAAGAGATCAGCGACCCTGAG
GAAGATGACGAGTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001164417
Insert Size:	567 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).


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OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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:	<u>NM_001164417.2</u>
RefSeq Size:	1347 bp
RefSeq ORF:	567 bp
Locus ID:	727837
UniProt ID:	<u>Q16385</u>
Cytogenetics:	Xp11.22
MW:	21.6 kDa
Gene Summary:	<p>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 SSX1 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. This gene also has an identical duplicate, GeneID: 6757, located about 45 kb upstream in the opposite orientation on chromosome X. [provided by RefSeq, Jul 2013]</p> <p>Transcript Variant: This variant (2) lacks an alternate exon which results in a frameshift in the 3' coding region, compared to variant 1. The encoded isoform (b) contains a shorter and distinct C-terminus, compared to isoform a.</p>