

Product datasheet for RC201214

SSX2 (NM 003147) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: SSX2 (NM_003147) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: SSX2

Synonyms: CT5.2; CT5.2A; HD21; HOM-MEL-40; SSX

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC201214 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201214 protein sequence

Red=Cloning site Green=Tags(s)

MNGDDAFARRPTVGAQIPEKIQKAFDDIAKYFSKEEWEKMKASEKIFYVYMKRKYEAMTKLGFKATLPPF MCNKRAEDFQGNDLDNDPNRGNQVERPQMTFGRLQGISPKIMPKKPAEEGNDSEEVPEASGPQNDGKELC PPGKPTTSEKIHERSGNREAQEKEERRGTAHRWSSQNTHNIGRFSLSTSMGAVHGTPKTITHNRDPKGGN MPGPTDCVRENSW

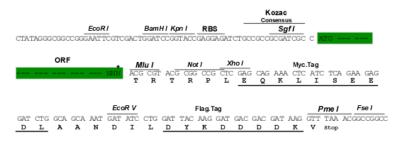
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6389 b05.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_003147

ORF Size: 669 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: <u>NM 003147.5</u>

RefSeq Size: 1494 bp RefSeq ORF: 672 bp Locus ID: 6757

UniProt ID: Q16385
Cytogenetics: Xp11.22

Protein Families: Druggable Genome, Transcription Factors

MW: 25.2 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

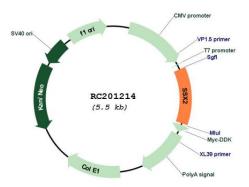
also the SSX1 and SSX4 family members, have been involved in t(X;18)(p11.2;q11.2) translocations that are characteristically found in all synovial sarcomas. This translocation results in the fusion of the synovial sarcoma translocation gene on chromosome 18 to one of

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: 727837, located about 45 kb downstream in

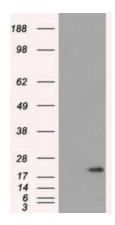
the opposite orientation on chromosome X. [provided by RefSeq, Jul 2013]



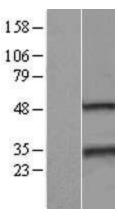
Product images:

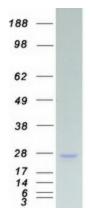


Circular map for RC201214



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SSX2 (Cat# RC201214, 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-SSX2(Cat# [TA500620]). Positive lysates [LY418870] (100ug) and [LC418870] (20ug) can be purchased separately from OriGene.





Western blot validation of overexpression lysate (Cat# [LY418870]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201214 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified SSX2 protein (Cat# [TP301214]). The protein was produced from HEK293T cells transfected with SSX2 cDNA clone (Cat# RC201214) using MegaTran 2.0 (Cat# [TT210002]).