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Product datasheet for RG201214

SSX2 (NM_003147) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SSX2 (NM_003147) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SSX2
Synonyms:	CT5.2; CT5.2A; HD21; HOM-MEL-40; SSX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG201214 representing NM_003147
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACGGAGACGACGCCTTTGCAAGGAGACCCACGGTTGGTGCTCAAATACCAGAGAAGATCCAAAAGG
CCTTCGATGATATTGCCAAATACTTCTCTAAGGAAGAGTGGGAAAAGATGAAAGCCTCGGAGAAAATCTT
CTATGTGTATATGAAGAGAAAGTATGAGGCTATGACTAAACTAGGTTTCAAGGCCACCCTCCCACCTTTC
ATGTGTAATAAACGGGCCGAAGACTTCCAGGGGAATGATTTGGATAATGACCCTAACCGTGGGAATCAGG
TTGAACGTCCTCAGATGACTTTCGGCAGGCTCCAGGGAATCTCCCCGAAGATCATGCCCAAGAAGCCAGC
AGAGGAAGGAAATGATTCGGAGGAAGTGCCAGAAGCATCTGGCCCACAAAATGATGGGAAAGAGCTGTGC
CCCCCGGGAAAACCAACTACCTCTGAGAAGATTCACGAGAGATCTGGAAATAGGGAGGCCCAAGAAAAGG
AAGAGAGACGCGGAACAGCTCATCGGTGGAGCAGTCAGAACACACACAACATTGGTCGATTCAGTTTGTC
AACTTCTATGGGTGCAGTTCATGGTACCCCCAAAACAATTACACACAACAGGGACCCAAAAGGGGGGAAC
ATGCCTGGACCCACAGACTGCGTGAGAGAAAACAGCTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

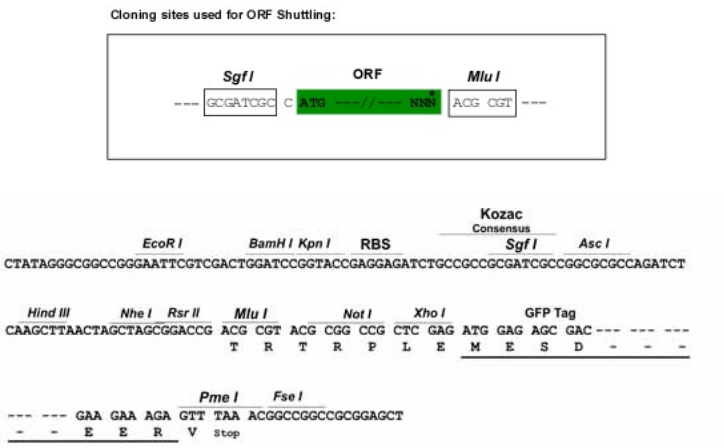
>RG201214 representing NM_003147
Red=Cloning site Green=Tags(s)

MNGDDAFARRPTVGAQIPEKIQKAFDDIAKYFSKEEWEKMKASEKIFYVYMKRKYEAMTKLGFKATLPPF
MCNKRAEDFQGNDLDNDPNRGNQVERPQMTFGRLQGISPKIMPKKPAEEGNDSEEVPEASGPQNDGKELC
PPGKPTTSEKIHERSGNREAQEKEERRGTAHRWSSQNTHNIGRFSLSTSMGAVHGTPKTITHNRDPKGGN
MPGPTDCVRENSW

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003147

ORF Size: 669 bp

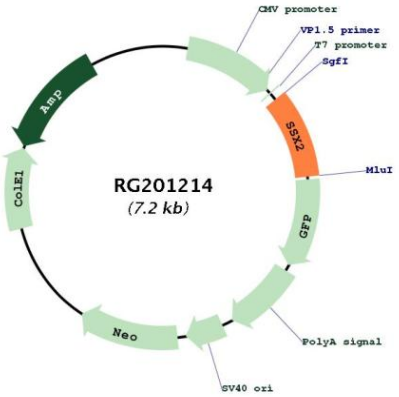
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	NM_003147.5
RefSeq Size:	1466 bp
RefSeq ORF:	672 bp
Locus ID:	6757
UniProt ID:	Q16385
Cytogenetics:	Xp11.22
Protein Families:	Druggable Genome, Transcription Factors
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 RG201214