SS18 cDNA Clone – Synovial Sarcoma Translocation, Chromosome 18 (Human)

PRODUCT OVERVIEW

Product Name	SS18, cDNA Clone
Full Product Name	SS18 cDNA Clone
Product Gene Name	SS18 cdna clone
Sequence	ATGTCTGTGG CTTTCGCGGC CCCGAGGCAG CGAGGCAAGG GGGAGATCAC TCCCGCTGCG ATTCAGAAGA TGTTGGATGA CAATAACCAT CTTATTCAGT GTATAATGGA CTCTCAGAAT AAAGGAAAGA CCTCAGAGTG TTCTCAGTAT CAGCAGATGT TGCACACAAA CTTGGTATAC CTTGCTACAA TAGCAGATTC TAATCAAAAT ATGCAGTCTC TTTTACCAGC ACCACCCATA CAGAATATGC CTATGGGTCC TGGAGGGATG AATCAGAGCG GCCCTCCCCC ACCTCCACGC TCTCACAACA TGCCTTCAGA TGGAATGGTA GGTGGGGGTC CTCCTGCACC GCACATGCAG AACCAGATGA ACGGCCAGAT GCCTGGGCCT AACCATATGC CTATGCAGGG ACCTGGACCC AATCAACTCA ATATGACAAA CAGTTCCATG AATATGCCTT CAAGTAGCCA TGGATCCATG GGAGGTTACA ACCATTCTGT GCCATCATCA CAGAGCATGC CAGTACAGAA TCAGATGACA ATGAGTCAGG GACAACCAAT GGGAAACTAT GGTCCCAGAC CAAATATGAG TATGCAGCCA AACCAAGGTC CAATGATGCA TCAGCAGCCT CCTTCTCAGC AATACAATAT GCCACAGGGA GGCGGACAGC ATTACCAAGG ACAGCAGCCA CCTATGGGAA TGATGGGTCA AGTTAACCAA GGCAATCATA TGATGGGTCA GAGACAGATT CCTCCCTATA GACCTCCTCA ACAGGGCCCA CCACAGCAGT ACTCAGGCCA GGAAGACTAT TACGGGGACC AATACAGTCA TGGTGGACAA GGTCCTCCAG AAGGCATGAA CCAGCAATAT TACCCTGATG GTCATAATGA TTACGGTTAT CAGCAACCGT CGTATCCTGA ACAAGGCTAC GATAGGCCTT ATGAGGATTC CTCACAACAT TACTACGAAG GAGGAAATTC ACAGTATGGC CAACAGCAAG ATGCATACCA GGGACCACCT CCACAACAGG GATATCCACC CCAGCAGCAG CAGTACCCAG GGCAGCAAGG TTACCCAGGA CAGCAGCAGG GCTACGGTCC TTCACAGGGT GGTCCAGGTC CTCAGTATCC TAACTACCCA CAGGGACAAG GTCAGCAGTA TGGAGGATAT AGACCAACAC AGCCTGGACC ACCACAGCCA CCCCAGCAGA GGCCTTATGG ATATGACCAG GGACAGTATG GAAATTACCA GCAGTGA
Molecular Weight	42,216 Da
OMIM	600192
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SS18 cdna clone	MBS1272168 is a cDNA clone targeting SS18.
Other Notes	Small volumes of SS18 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SS18. It may not necessarily be applicable to this product.

NCBI GI #	64654775
NCBI GeneID	6760
NCBI Accession #	BC096222
UniProt Secondary Accession #	Q16404; Q4VAX1; Q9BXC6; B0YJ95
UniProt Related Accession #	Q15532
NCBI Official Full Name	Homo sapiens synovial sarcoma translocation, chromosome 18, mRNA

NCBI Official Synonym Full Names	SS18, nBAF chromatin remodeling complex subunit
NCBI Official Symbol	SS18
NCBI Official Synonym Symbols	SYT; SSXT
UniProt Protein Name	Protein SSXT
UniProt Synonym Protein Names	Protein SYT; Synovial sarcoma translocated to X chromosome protein
Protein Family	Protein
UniProt Gene Name	SS18
UniProt Synonym Gene Names	SSXT; SYT
UniProt Entry Name	SSXT_HUMAN
NCBI Protein Information	protein SSXT
UniProt Comments for SS18	SS18: Appears to function synergistically with RBM14 as a transcriptional coactivator. Isoform 1 and isoform 2 function in nuclear receptor coactivation. Isoform 1 and isoform 2 function in general transcriptional coactivation. A chromosomal aberration involving SS18 may be a cause of synovial sarcoma. Translocation t(X;18)(p11.2;q11.2). The translocation is specifically found in more than 80% of synovial sarcoma. The fusion products SSXT-SSX1 or SSXT-SSX2 are probably responsible for transforming activity. Heterogeneity in the position of the breakpoint can occur (low frequency). Belongs to the SS18 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Oncoprotein; Nuclear receptor co-regulator; Transcription, coactivator/corepressor Chromosomal Location of Human Ortholog: 18q11.2 Cellular Component: nucleus Molecular Function: ligand-dependent nuclear receptor transcription coactivator activity; protein binding Biological Process: positive regulation of transcription from RNA polymerase II promoter
Research Articles on SS18	**1.** a rare variant of the SS18-SSX1 fusion transcript, which could not be identified by routine procedures for genetic diagnosis, was detected. In addition, 8 missense mutations of cancer-related genes were confirmed
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