# SS18L1 cDNA Clone – Synovial Sarcoma Translocation Gene on Chromosome 18-Like 1 (Human)

## PRODUCT OVERVIEW

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| **Product Name** | SS18L1, cDNA Clone |
| **Full Product Name** | SS18L1 cDNA Clone |
| **Product Gene Name** | SS18L1 cdna clone |
| **Sequence** | atgcagagtc taagcacaga ggccagatac gtcccaagag tcccccagca cagagatcag ataagtccca ggagtcccca gcacggaggc cagatatgtc ccaggagtcc cctgcacaga ggccagatat gtcccaggag tcccccagca cggaggtacc agcagatcct gcaccggaac ctggtatacc tggccacgat cgcagactcc aaccagaaca tgcagtccct gcttcctgcc ccgcccacgc agaacatgaa cctgggccct ggagccctga ctcagagcgg ctccagccag ggcctgcact ctcagggcag cctgagtgac gccatcagca cgggcctgcc accctcctcc ctcctgcagg gccagattgg caacgggccg agccacgtgt ccatgcagca gacggcgcct aacacgctgc ccaccacctc catgagcatc tctgggcccg gctacagcca cgcgggaccc gcctcgcagg gcgtccccat gcaggggcaa ggcaccatcg gcaactacgt gtctcggacc aacatcaaca tgcagtccaa cccagtctcc atgatgcagc agcaggcggc cacgtcgcac tacagctcgg cgcagggcgg cagccagcac taccagggcc agtcgtccat cgccatgatg gggcagggca gccaggggag cagcatgatg gggcagcggc ccatggcgcc ctaccggccc tcccagcaag gctcttccca gcagtacctg ggccaggagg agtactatgg cgagcagtac agccacagcc agggcgccgc ggagcccatg ggccagcagt actaccccga cggccatggc gattacgcct accagcagtc atcctacacg gagcagagct acgaccggtc cttcgaggag tccacgcagc actactatga ggggggaaac tcccagtaca gccagcagca ggccgggtac cagcagggtg ccgcgcagca gcagacgtac tcccagcagc agtaccccag ccagcagagc taccccgggc agcagcaggg ctacgggtct gcccagggag ccccgtcaca gtaccccggc taccagcaag gccaaggcca gcagtacgga agctaccgag caccgcagac agcgccgtct gcccagcagc agcggcccta cggctatgaa cagggccagt atggaaatta ccagcagtaa |
| **Molecular Weight** | 43,408 Da |
| **OMIM** | 606472 |
| **Vector** | pENTR223.1 |
| **Clone Sequence Report** | Provided with product shipment |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for SS18L1 cdna clone** | MBS1266247 is a cDNA clone targeting SS18L1. |
| **Other Notes** | Small volumes of SS18L1 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 SS18L1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 46362566 |
| **NCBI GeneID** | 26039 |
| **NCBI Accession #** | BC068993 |
| **UniProt Secondary Accession #** | Q5JXJ3; Q6MZV9; Q6NTH3; Q6XYD9; Q8NE69; Q9BR55; Q9H4K6; A6NNE3; A8K620; B3KWR8; E1P5H7 |
| **UniProt Related Accession #** | O75177 |
| **NCBI Official Full Name** | Homo sapiens synovial sarcoma translocation gene on chromosome 18-like 1, mRNA |
| **NCBI Official Synonym Full Names** | SS18L1, nBAF chromatin remodeling complex subunit |
| **NCBI Official Symbol** | SS18L1 |

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| **NCBI Official Synonym Symbols** | CREST; LP2261 |
| **UniProt Protein Name** | Calcium-responsive transactivator |
| **UniProt Synonym Protein Names** | SS18-like protein 1; SYT homolog 1 |
| **Protein Family** | Calcium-responsive transactivator |
| **UniProt Gene Name** | SS18L1 |
| **UniProt Synonym Gene Names** | CREST; KIAA0693 |
| **UniProt Entry Name** | CREST_HUMAN |
| **NCBI Protein Information** | calcium-responsive transactivator |
| **NCBI Summary for SS18L1** | This gene encodes a calcium-responsive transactivator which is an essential subunit of a neuron-specific chromatin-remodeling complex. The structure of this gene is similar to that of the SS18 gene. Mutations in this gene are involved in amyotrophic lateral sclerosis (ALS). Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2014] |
| **UniProt Comments for SS18L1** | SS18L1: Transcriptional activator which is required for calcium- dependent dendritic growth and branching in cortical neurons. Recruits CREB-binding protein (CREBBP) to nuclear bodies. Component of the CREST-BRG1 complex, a multiprotein complex that regulates promoter activation by orchestrating a calcium-dependent release of a repressor complex and a recruitment of an activator complex. In resting neurons, transcription of the c-FOS promoter is inhibited by BRG1-dependent recruitment of a phospho-RB1-HDAC1 repressor complex. Upon calcium influx, RB1 is dephosphorylated by calcineurin, which leads to release of the repressor complex. At the same time, there is increased recruitment of CREBBP to the promoter by a CREST-dependent mechanism, which leads to transcriptional activation. The CREST-BRG1 complex also binds to the NR2B promoter, and activity-dependent induction of NR2B expression involves a release of HDAC1 and recruitment of CREBBP. Belongs to the SS18 family. 5 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Transcription, coactivator/corepressor<br><br>Chromosomal Location of Human Ortholog: 20q13.3<br><br>Cellular Component: kinetochore; nucleus<br><br>Molecular Function: protein binding<br><br>Biological Process: positive regulation of transcription, DNA-dependent |
| **Research Articles on SS18L1** | **1.** calcium-responsive transactivator and certain other amyotrophic lateral sclerosis-linked proteins share several features implicated in amyotrophic lateral sclerosis pathogenesis |
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