

Product datasheet for SC113500

CHST11 (NM_018413) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHST11 (NM_018413) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHST11
Synonyms:	C4ST; C4ST-1; C4ST1; HSA269537; OCBMD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113500 sequence for NM_018413 edited (data generated by NextGen Sequencing)

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ATGAAGCCAGCGCTGCTGGAAGTGTGAGGATGAACAGAATCTGCCGGATGGTGTCTGCC
ACTTGCTTGGGATCCTTTATCCTGGTCATCTTCTATTTCCAAAGTATGTTGCACCCAGTC
ATGCGGAGGAATCCCTTTGGTGTGGACATCTGCTGCCGGAAGGGTCCCGAAGCCCTG
CAGGAACTCTACAACCAATCCAGCTGGAGCTCTCAAACACTGTCTGCCTGCACCAGATG
CGGCGGGACCAGGTGACAGACACGTGCCGAGCCAACAGCGCCACAAGCCGTAAGCGGAGG
GTGCTGACCCCAACGACCTGAAGCACTGGTGGTGGATGAGGACCACGAGCTCATCTAC
TGCTACGTGCCAAGGTGGCCTGCACCAACTGGAAGCGGCTCATGATGGTCTGACCGGG
CGGGGGAAGTACAGCGACCCATGGAGATCCCGGCCAACGAGGCACACGTCTCCGCCAAC
CTGAAGACCTGAACCAGTACAGCATCCCAGAAATCAACCACCGCTTGAAAAGCTACATG
AAGTTCTGTTTGTCCGGAGCCCTTCGAGAGGCTAGTGTCCGCCTACCGCAACAAGTTC
ACCCAGAAGTACAACATCTCCTTCCACAAGCGGTACGGCACCAAGATCATCAAACGCCAG
CGGAAGAACGCCACCCAGGAGGCCCTGCGCAAAGGGGACGATGTCAAATTCGAGGAGTTT
GTGGCCTATCTCATCGACCCACACACCCAGCGGGAGGAGCCTTTCAACGAACACTGGCAA
ACCGTCTACTCACTCTGCCATCCCTGCCACATCCAATGACCTCGTGGGCAAGTACGAG
ACACTGGAAGAGGATTCTAATTACGTCTGCAGCTGGCAGGAGTGGGCAAGTACCTGAAG
TTCCCCACCTATGCAAAGTCTACGAGAACTACTGATGAAATGACCACAGAATTCTCCAG
AACATCAGCTCAGAGCACCAAACGCAGCTGTACGAAGTCTACAAACTCGATTTTTTAATG
TTCAATTACTCAGTGCCAAGCTACCTGAAATTGGAATAA

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Clone variation with respect to NM_018413.5



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018413 unedited
 GCATTTTGTATACGACTACTATAGGCGGCNCGGATTCGGCACAGAGGCTCCCTCGCCGG
 GGGCCGCGAGTTGCATTTGGTAAAACCCAGCCCCGAATATATAGATCGTTGGAGCGCAA
 TGAAGTAGCCTTTGGAGAGAAGGGAGAGGGCCCGTCCGACAGCCACAGCGGCCAGCGCAG
 CGGCAGCGGGCGGCACCACCATCACCCTCGCACCCAGCCCGCCGGCCCGCAGCCAG
 GCAGCGGCGGCCCGGGCGGATCGGAGGAGGCGGGAGCGGCGAGGAGGAGGAGCAGG
 AGCGCGCAGCCAGCGGGTCCACGCATCTCAGCACTTCCAGACCAACTCCGGCACCTTCCA
 CACCCCTGCCCGGCTGGGGCTCCGAGAGCGGCCGGAAGCGACTCCGATCCTCCTCT
 GAGCCTTGCTCAGCTCTGCCCGCGCTCCCGGGCTCCGGTCCGCGCGGGGGTCCCTG
 CTCTGCGCCCGGGCGCGCTTCCCGGACACCCGGTCCCGCAGCCAGGACAAAGCCAT
 GAAGCCAGCGCTGCTGGAAGTATGAGGATGAACAGAATCTGCCGGATGGTGTGCCAC
 TTGCTTGGGATCCTTTATCCTGGTCATCTTCTATTTCCAAAGTATGTTGCACCCAGTCAT
 GCGGAGGAATCCCTTTGGTGTGGACATCTGCTGCCGGAAGGGTCCCGAAGCCCCCTGCA
 GGAAGCTCTNACACCAATCCAGCTGGAGCTCTCAAACACTGCTGTCTGCACAGATGCNG
 CGGNACCAGGTGACAGACACGTGCCGAGCCACAGCGCCACAGCCGTAGCGGAGGTGCTGA
 CCCACGACTGAGCACTTGTGGTGTGATGAGACAGGAGCTATTACTGTTCTGCCAGGTGC
 CTGCACACTGGAGCGCTCTGATGTCCTGACNGCGGGGAGTC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018413 unedited
 AGCTTTGGACCGCGGGCCGCATNCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTAAAAAACTATAAATAATATTAATTAATAATTTAGGGAAGGC
 CCAATTCATGGAATTCACCAAAACACAAAAACCTTTGAAACAGGGTTGCAGTATTCCT
 TTTACAGACAAGGACGACCCATCTATTTCCCTGCAAAAACAGGTGTCCTTCCCTACAA
 AGGATTTTAAAAAATTCCTACTATGCGGCTCGCAGAATCATCCCCAAAAAATATTAATT
 TACAAAATAACCAATATCCATATAATTTTTTTGACAAATAAAAAATTTAAATAAAAAG
 CATGATTTTTCCCTTTCCACCCCTTTTATTCCAATTTAGGTAGCTGGGCCCTGAGT
 AATTGAACATTAATAATCGAGTTTGAACACTTCGAACAGCTGCGTTGGGGGCTCTGAGC
 TGATGTTCTGGAAAAATCTGGGGCCATTTTCATCAGAAGTTCTCGAAAATTTGCATAGG
 GGGGAACTTCAGGTAGCTGCCACTCTGCCAGCTGCAGGACGTAATTAATAATCCTCTT
 CCAGGGTCTCGTACTTGCCACGAGGTTCATAGGGGATGTGGCAGGGATGGCAAAGTGAGT
 AAACGGTTTGCCAGTGTTCGTTGAAAGGCTCCTCCCGCTGGGTGTGGGTTCGATGAAA
 TAGGCCACAAACTCCTCGATTTGACATCGCCCCCTGTGCGCAGGGCCTCCTGGTNGGGT
 CCTCCGCTGGCGTTTGGATCTGGGCGCGAACCGTTGTGAAAGAAATGTGAACTTTTGG
 AGAACTGGTGGTAAGGGGACATACCCTTTCAAGGGCTCCGGAACAAGAACTTAAGGAG
 CTTTTAAGGGGGTTATTCTGGGAAGCGACTGGTT

Restriction Sites:

NotI-NotI

ACCN:

NM_018413

Insert Size:

1640 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).

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_018413.2</u> , <u>NP_060883.1</u>
RefSeq Size:	1687 bp
RefSeq ORF:	1059 bp
Locus ID:	50515
UniProt ID:	<u>Q9NPF2</u>
Cytogenetics:	12q23.3
Domains:	Sulfotransfer2
Protein Families:	Transmembrane
Protein Pathways:	Chondroitin sulfate biosynthesis, Sulfur metabolism
Gene Summary:	<p>The protein encoded by this gene belongs to the sulfotransferase 2 family. It is localized to the golgi membrane, and catalyzes the transfer of sulfate to position 4 of the N-acetylgalactosamine (GalNAc) residue of chondroitin. Chondroitin sulfate constitutes the predominant proteoglycan present in cartilage, and is distributed on the surfaces of many cells and extracellular matrices. A chromosomal translocation involving this gene and IgH, t(12;14)(q23;q32), has been reported in a patient with B-cell chronic lymphocytic leukemia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>