

Product datasheet for **SC113219**

CHST7 (NM_019886) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHST7 (NM_019886) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHST7
Synonyms:	C6ST-2; GST-5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC113219 sequence for NM_019886 edited (data generated by NextGen Sequencing)

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ATGAAGGGCCGGCGGCGACGCCGAGACTGCAAGTTCGCGCTGCTGTTGGTGTG
TACACGCTGGTGTGTTGCTCGTCCCCTCCGATTGGACGGCGGCGGACGGGGACAAG
GGCGCCGAGCACTGCCCCGGCTGCAGCGCAGCCTGGGAGTGTGGAGCCTGGAGGCGGCG
GCGGCCGGCAACGCGAGCAGGGAGCGGAGGCGGGCCGCCGAGGAAGGGGGCGCAAC
CAGTCTCCTCGTTCCCAAGCAACCTCAGCGGCGCTGTCGGGGAGGCAGTGTCTCGCGAG
AAGCAGCACATCTACGTGCATGCCACCTGGCGCACCGGCTCGTCTTCTGGGCGAACTC
TTTAACCAAGCACCCGGACGTTTTCTACTTGTATGAGCCATGTGGCATCTATGGCAGGCG
CTGTATCCGGGCGACGCCGAGAGCTTGCAGGGCGCGTGCAGGACATGCTGCGTTCGCTC
TTCCGCTGCGACTTCTCCGTGCTGCGGCTGTACGCGCGCGGGGGACCCGCTGCGCGC
GCCCGGACACGGCCAATCTTACCACGGCCGCCCTTCCGCTGGCGGACTAACAAGGTC
ATCTGCTCGCCGCACTGTGCTCGGCGACCCCGTCCCGGGCCGAGGTGGGCTCGTC
GAGGACACCGCTGCGAGCGCAGCTGCCACCCGTGGCGATACGCGCCCTGGAGGCGGAG
TGCCGAAAGTACCCGGTGGTGGTCATCAAGGACGTGCGCTGCTCGATCTGGGCGTGTG
GTGCCCTGTTCGCTGATCCAGGCTCAACCTGAAGGTGGTGCAGCTTTCCGCGACCCG
AGGGCGGTGCACAACCTCGCGCCTCAAGTCTAGGCAGGGACTGCTGCGCGAGAGCATCCAG
GTGCTGCGCACCCGCGAGAGGGGCGACCGCTTCCACCGTGTGCTGCTGGCGCACGGCGTG
GGTGTCTGCCCCGGGGCCAGTCTCGCGCGCTGCCCGCGCGCCGCGCGCGGATTCTTC
CTGACCGGTGCGCTCGAGGTGATCTGCGAAGCCTGGTGCAGCATCTGCTTTTCGCGCGC
GGCGCGCCCGCTGGCTGCGGCGCCGCTACCTGAGGCTGCGCTATGAGGACCTGGTGGG
CAGCCACGCGCCAGCTGCGCCGCTGCTGCGCTTCTCCGGCTACGCGCGCTCGCAGCC
CTCGATGCCTTCGCGCTCAACATGACTCGCGGCGCGGCTACGGCGCCGACCGGCCCTTC
CACCTGTACGCGCGACGCCCGGGAGGCGGTGCACGCTGGCGCGAGCGCTGAGCCGA
GAGCAGGTGCGCCAGGTGAGGGCCGCTGCGCTCCAGCCATGCGTCTGCTGCGCTACCCT
CGCAGCGGAGAGGGGCGACGCGGAGCAGCCAGGGAAGGGGAGACGCCGCTGGAGATG
GATGCCGACGGCGCCACGTAG
    
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Clone variation with respect to NM_019886.2

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_019886 unedited
CGGTTTCAATTTTGTATACGACTCACTTATAGGGCGGCCGCAATTCGCACCAGGTTTC
CCCTTGTGGATGCGCGGCCCCGCGGCTCTGCTCCTCCCGGCGCAGAGGGGCCGGAGAGG
CCACAGGAGCGGACCTGGCACGGGATTTCTGAGGAACGGGAGAAGACTGGCGCCGACCC
GCTCTGGAGGGTGGTGAACGATGAAGGGCCGGCGGCGGACGCGGAGAGTACTGCAAG
TTCGCGCTGCTGTTGGTGTGTACACGCTGGTGTGTTGCTCGTCCCCTCCGATTGGAC
GGCGGCCGCGAGGGGACAAGGGCGCCGAGCACTGCCCGGCTGCAGCGCAGCCTGGGA
GTGTGGAGCCTGGAGGCGGCGGCGCGCAACGCGAGCAGGGAGCGGAGGCGCGGGCC
GCCGAGGAAGGGGCGCAACCAGTCTCCTCGGTTCCCAAGCAACCTCAGCGGCGTGTG
GGGAGGCAAGTGTCTCGCGAGAAGCAGCACATCTACGTGCATGCCACCTGGCGACCCGGC
TCGTCCTTCTGGGCGAACTCTTTAACCAGCACCCGGACGTTNTCTACTTGTATGAGCC
ATGTGGCATCTATGGCAGGCGTGTATCCGGGCGACGCCGAGAGCTTGCAGGGCGCGCTG
CGCGACATGCTGCGTTCGCTCTTTCGCTGCGACTTCTCCGTGCTGCGGCTGTCCCGCGG
CCGGGGGACCCCGCTGCGCGCGCCCGGACACGGCCAATCTTACCACGGCCGCCCTTTT
CGCTGGCGGACTAACCAAGTCATCTGCTGCGCCCACTGGTGTCTTGGCGACCCCGTGC
CCGGCCCCGAGGTTGGGCCCTGGTGCAGGACACCGCTGCGAGCGCAGCTGCCACCGTG
CGCATCGCGCCCTGTAGGCCGAGGCCGAGTCCCCGGGGGTGCATC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_019886 unedited CCCCAATTGCGTGTGNACCGCGGCCGCTTCTACGAGCGAGNTTTTTTTTTTTTTTTTTT ATTATTTAATAATATTATTAAGTAATTTAATCAAGACAGGACTGCACTTGGCCCTTATTC ACATTGATGTTTTTCGTCCAGACACCTGCTGGTGTGAAATGGTACCAAATCACATCTTTC TTTGTTGTGAGGATGCCTTGTGAAATGGCTCCAGCAGTGGCAGGTTGAGCCTGGGAAT AAAGCTCTTCCTATTTTACAGCCATAAAATCCACATTGCACTGCACTTCCTTACTGGA AACTTCATCTCAACCAATGCGTCCGTCATTATTGAACAGCTCATGATATTCCTGCTCAGC AGAATTGCACAGCAGTTGTTGGTAGCAAGTCAAGTCCCAGACTCTGAGAGTGTGACAGAT TGCCCCACAGCGCTGCTTCTCCAGTGCTGGGGCAGCATGCCAGTGCCCTGTTCTGCTGG TGACTGACCCGGATCCGTGCCGGGGACAGGGATGGGAGGCTACGTGGCGCCGTCGGCATC CATCTCCAGCGCGTCTCCCTTCCCTGGGCTGCTCCGCGTCGCCCTCCTCTCCGCTGCG AGGGTAGGCGAGCAGACGCATGGCTGGAGCGCAGGCGGCCTCCACCTGGCGCACCTGCTC TCGGCTCAGGCGCTCGCGCCAGGCGTGCACCGCCTCCGGGCGTCGCGCGCTGACAGGTG GAAGGGCCTGTCGGCGCCGTAGGCCGCGCCGCGAGTCATGTTGAGCGCTGAGGCATCGAG CGCTGCGAGCGCGTAGCCCGTAGAGCGCAGCAGCCGGCGCAGCTGGCCGCGTGGCTGC CCCACCCAGTCTTTAAGCCCAACCTTAGGAAAGCGGGCCCCACCC
Restriction Sites:	NotI-NotI
ACCN:	NM_019886
Insert Size:	2500 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:	NM_019886.2 , NP_063939.2
RefSeq Size:	2330 bp
RefSeq ORF:	1461 bp
Locus ID:	56548
UniProt ID:	Q9NS84
Cytogenetics:	Xp11.3
Domains:	Sulfotransfer
Protein Families:	Transmembrane

Protein Pathways: Chondroitin sulfate biosynthesis

Gene Summary: This gene is a member of the Gal/GalNAc/GlcNAc (galactose/N-acetylgalactosamine/N-acetylglucosamine) 6-O-sulfotransferase (GST) family. Members of this family encode enzymes that catalyze the specific addition of sulfate groups to distinct hydroxyl and amino groups of carbohydrates. The encoded protein catalyzes the sulfation of 6-hydroxyl group of GalNAc in chondroitin. [provided by RefSeq, Aug 2013]