

## Product datasheet for **SC319103**

### CHST12 (NM\_018641) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHST12 (NM_018641) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHST12
Synonyms:	C4S-2; C4ST-2; C4ST2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_018641.3  
 GGCAACGAGGGGCTGCCTCTGGGGGTCCGCTAGTCGCGGGGCGGCGGGCGGCTGCGG  
 GCGCGAGGTTCCAGCAGGATGCCCCGGCTCTGCAGGAAGCTGAAGTGAGAGGCCCGGAG  
 AGGGCCAGCCCGCCGGGCGAGGATGACCAAGGCCCGGCTGTTCCGGCTGTGGCTGGTG  
 CTGGGGTCCGGTGTTCATGATCCTGCTGATCATCGTGTACTGGACAGCGCAGGCGCCGCG  
 CACTTCTACTTGCACACGTCCTTCTTAGGCCGCACACGGGGCCCGCTGCCACGCC  
 GGGCCGACAGGGACAGGAGCTCACGGCCGACTCCGATGTCGACGAGTTTCTGGACAAG  
 TTTCTCAGTGCTGGCGTGAAGCAGAGCGACCTTCCAGAAAGGAGACGGAGCAGCCGCCT  
 GCGCCGGGAGCATGGAGGAGAGCGTGAGAGGCTACGACTGGTCCCGCGCGACGCCCGG  
 CGCAGCCAGACCAGGGCCGCGCAGGCGGAGCGGAGGAGCGTGCTGCGGGGCTTCTGC  
 GCCAACTCCAGCCTGGCCTTCCCACCAAGGAGCGCGCATTGACGACATCCCCAACTCG  
 GAGCTGAGCCACCTGATCGTGGACGACCGGCACGGGGCCATCTACTGCTACGTGCCAAAG  
 GTGGCTGCACCAACTGGAAGCGCGTGATGATCGTGTGAGCGGAAGCCTGCTGCACCGC  
 GGTGCGCCCTACCGCGACCCGCTGCGCATCCCGCGGAGCAGTGCACAACGCCAGCGCG  
 CACTGACCTTCAACAAGTTCTGGCGCCGCTACGGGAAGCTCTCCCGCCACTCATGAAG  
 GTCAAGCTCAAGAAGTACACCAAGTTCTTCTTCTGTCGCGACCCCTTCGTGCGCCTGATC  
 TCCGCCTTCCGCGACAAGTTCGAGCTGGAGAACGAGGAGTTTACCGCAAGTTCGCCGTG  
 CCCATGCTGCGGCTGTACGCCAACCACACCAGCCTGCCCGCTCGGCGCGGAGGCCCTT  
 CGCGCTGGCCTCAAGGTGTCTTCGCCAACTTCATCCAGTACCTGCTGGACCCGCGACAG  
 GAGAAGCTGGCGCCCTTCAACGAGCACTGGCGGAGGTGTACCGCCTCTGCCACCCGTGC  
 CAGATCGACTACGACTTCGTGGGAAGCTGGAGACTCTGGACGAGGACCGCGCGCAGCTG  
 CTGCAGTACTCCAGGTGACCGGCAGCTCCGCTTCCCCCGAGCTACCGGAACAGGACC  
 GCCAGCAGCTGGGAGGAGGACTGGTTCGCCAAGATCCCCCTGGCCTGGAGGCAGCAGCTG  
 TATAAACTCTACGAGGCCGACTTTGTTCTCTTCGGCTACCCCAAGCCGAAAACCTCCTC  
 CGAGACTGAAAGCTTTCGCGTTGCTTTTTCTCGCGTGCCTGGAACCTGACGCACGCGCAC  
 TCCAGTTTTTTATGACCTACGATTTTGAATCTGGGCTTCTTGTTCACTCCACTGCCTC  
 TATCCATTGAGTACTGTATCGATATTGTTTTTAAAGTAAATATTTTCAGGTATTTAAT  
 ACGAAATGTGGAAGGGAATGCTGGAGTAAATATCCCCTCTCCCCCGCCCGCCGCC  
 GCCCGCCGCTCGCCCGCCCGCCGCTCGCCCGCTCCTGTGGTTTTCTGAGCGTGCGGG  
 CTCCGGGAGGGGATGCTGAGGCTGATGGAGCTGCCTCCAGGGCTAGGGCCACTCACCGGA  
 GGAGGGCGGGGCTGCACCTGAAGTCAGGCCGCACCTGTCTGTTTTTGAAGGGTAGCCG  
 ACAAACTCTCCAGAGGAAAGTCTTTGTTTAAAGTGTGTACTTGAAGGTAATCTT  
 CAGGGTCTCTGTTTGAAGTCAAGTCAGAGGTAACCGGTGAGTTACAGAAGCAGGATTT  
 CTAGGATTTCTAACTCCAGCTGTTCCATACTGTCTAGTTTAAATTATGGCTGTTAAGGC  
 CGGGCGGGTGACTCAGGCAGGTAATCCCAGAACTTTGGGAGGCCAGACAGAAGGATCGC  
 TTGAGGTCAGGAATTTGAGACCTGGCCAACATGGTGAAACCTGTCTCTACTAAAAAAA  
 AAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_018641

**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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_018641.3</a></u> , <u><a href="#">NP_061111.1</a></u>
<b>RefSeq Size:</b>	2093 bp
<b>RefSeq ORF:</b>	1245 bp
<b>Locus ID:</b>	55501
<b>UniProt ID:</b>	<u><a href="#">Q9NRB3</a></u>
<b>Cytogenetics:</b>	7p22.3
<b>Domains:</b>	Sulfotransfer2
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Chondroitin sulfate biosynthesis, Sulfur metabolism
<b>Gene Summary:</b>	<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 and desulfated dermatan sulfate. Chondroitin sulfate constitutes the predominant proteoglycan present in cartilage, and is distributed on the surfaces of many cells and extracellular matrices. Alternatively spliced transcript variants differing only in their 5' UTRs have been found for this gene. [provided by RefSeq, Aug 2011]</p> <p>Transcript Variant: This variant (3) uses an alternate donor splice site at the 5' terminal non-coding exon, hence has a slightly longer 5' UTR compared to variant 1. Variants 1-3 encode the same protein.</p>