

## Product datasheet for **SC332044**

### CHST12 (NM\_001243795) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CHST12 (NM\_001243795) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** CHST12  
**Synonyms:** C4S-2; C4ST-2; C4ST2  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC332044 representing NM\_001243795.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGACCAAGGCCCGCTGTTCCGGCTGTGGCTGGTCTGGGGTCGGTGTTTCATGATCCTGCTGATCATC
GTGTACTGGGACAGCGCAGGCGCCGCGCACTTCTACTTGACACAGTCCTTCTCTAGGCCGCACACGGGG
CCGCCGCTGCCACGCCCGGGCCGGACAGGGACAGGGAGCTCACGGCCGACTCCGATGTCGACGAGTTT
CTGGACAAGTTTCTCAGTGCTGGCGTGAAGCAGAGCGACCTTCCCAGAAAGGAGACGGAGCAGCCGCT
GCGCCGGGGAGCATGGAGGAGAGCGTGAGAGGCTACGACTGGTCCCCGCGGACGCCCGGCGAGCCCA
GACCAGGGCCGGCAGCAGGCGGAGCGGAGAGCGTGCTGCGGGGTTCTGCGCCAACCTCCAGCCTGGCC
TTCCCCACCAAGGAGCGGCATTTCGACGACATCCCAACTCGGAGCTGAGCCACCTGATCGTGGACGAC
CGGCACGGGGCCATCTACTGCTACGTGCCCAAGGTGGCCTGCACCAACTGGAAGCGCGTGATGATCGTG
CTGAGCGGAAGCCTGCTGCACCGCGGTGCGCCCTACCGCGACCCGCTGCGCATCCCGCGCGAGCAGGTG
CACAACGCCAGCGCGCACCTGACCTTCAACAAGTTCTGGCGCCGTACGGGAAGCTCTCCCGCCACCTC
ATGAAGTCAAGCTCAAGAAGTACACCAAGTTCTTTCGTGCGCGACCCCTTCGTGCGCCTGATCTCC
GCCTTCCGAGCAAGTTCGAGCTGGAGAACGAGGAGTTTACCGCAAGTTCGCGGTGCCATGCTGCGG
CTGTACGCCAACCACACCAGCTGCCCGCTCGCGCGCGAGGCCTTCGCGCTGGCCTCAAGGTGTCC
TTCGCCAATTCATCCAGTACCTGCTGGACCCGACACCGGAGAAGCTGGCGCCCTCAACGAGCACTGG
CGGCAGGTGTACCGCCTTGCCACCCGTGCCAGATCGACTACGACTTCGTGGGGAAGCTGGAGACTCTG
GACGAGGACGCCGCGCAGCTGCTGCAGCTACTCCAGGTGGACCGGACGCTCCGCTTCCCCCGAGCTAC
CGGAACAGGACCGCCAGCAGCTGGGAGGAGACTGGTTCGCCAAGATCCCCTGGCTGGAGGCAGCAG
CTGTATAAACTCTACGAGGCCGACTTTGTTCTCTTCGGCTACCCCAAGCCGAAAACCTCTCCGAGAC
TGA
  
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**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001243795  
**Insert Size:** 1245 bp



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<b>OTI Disclaimer:</b>	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).
<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>	<a href="#">NM_001243795.1</a>
<b>RefSeq Size:</b>	2145 bp
<b>RefSeq ORF:</b>	1245 bp
<b>Locus ID:</b>	55501
<b>UniProt ID:</b>	<a href="#">Q9NRB3</a>
<b>Cytogenetics:</b>	7p22.3
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Chondroitin sulfate biosynthesis, Sulfur metabolism
<b>MW:</b>	48.4 kDa
<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 (2) 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>