

Product datasheet for **SC114577**

CHST15 (NM_015892) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHST15 (NM_015892) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHST15
Synonyms:	BRAG; GALNAC4S-6ST
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC114577 sequence for NM_015892 edited (data generated by NextGen Sequencing)

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ATGAGGCACTGCATTAATTGCTGCATACAGCTGTTACCCGACGGCGCACACAAGCAGCAG
GTCAACTGCCAAGGGGGCCCCATCACGGTCACCAGGCGTGCCCCACGTGCAAAGGAGAA
AACAAAATTCTGTTTCGTGTGGACAGTAAGCAGATGAACCTGCTTGTCTCGAAGTG
AGGACTGAAGGGAACGAAAACGGGGTGGGTTTTGCGCTTCAAAAAGGGGAAGCGATG
AGCCTCGTTTTTGGACTGATAAATAATGACCTTGGTAATGGCTTCTACATCCTTTCTGGG
GCCACCAAGAGCTTCTGATCTCATCACCTTTCCATTACGGAGGCTTCCCCAGCAACCCC
AGCTTGATGGACAGCGAAAACCCCAAGTGACACAAAGGAGCATCACCAACATCCTCTGTA
AATAATATTTTACATACATGAAGGACTATCCAAGCATTAAATTAATTATCAACAGCATCACA
ACTAGGATTGAGTTCACGACCAGACAGCTCCCAGACTTAGAAGACCTTAAGAAGCAGGAG
TTGCATATGTTTTAGTCATCCCAACAAATTCCTTCCAAACAGTAAGAGCCCCTGTTGG
TACGAGGAGTTCTCGGGCAGAACACCACCGACCCCTACCTACCAACTCCTACGTGCTC
TACTCAAAGCGCTCCGCTCCACCTTCGACGCCCTGCGCAAGGCCTTCTGGGGCCACCTG
GCGCACGCGCACGGGAAGCACTTCGCTGCGCTGCTGCGCACTTCTACATCATAGGG
CAGCCCAAGTGCGGGACCACAGACTCTATGACCGCTGCGGCTGCACCCCTGAGGTCAAG
TTCTCCGCCATCAAGGAGCCACACTGGTGGACCCGGAAGCGCTTTGGAATCGTCCGCCTA
AGAGATGGGCTGCGAGACCGCTATCCCCTGGAAGATTATCTGGACCTCTTTGACCTGGCC
GCACACCAGATCCATCAAGGACTGCAGGCCAGCTCTGCAAAGGAGCAGAGCAAGATGAAT
ACAATCATTATCGGGGAGGCCAGTGCCTCCACGATGTGGGATAAATAATGCCTGGACGTTT
TTCTACGACAACAGCAGGATGGCGAGCCACCGTTTCTGACGCAGGACTTCCATCCACGCC
TTTCAGCCAAATGCCAGACTGATTGTGCTCAGGGACCCTGTGGAGAGGTTGTACTCA
GACTACTCTACTTTGCAAGTTGCAATAAATCCGCGGACGACTTCCATGAGAAAAGTGACA
GAAGCACTGCAGCTGTTTGAATAATGATGCTTGATTATTCACTGCGCGCCTGCGTCTAC
AACAAACCCCTCAACAACGCCATGCCTGTGAGGCTCCAGTTGGGCTCTATGCTGTGTAC
CTTCTGGACTGGCTCAGCGTTTTTGAAGCAACAGTTTCTCATTCTTCGCTGGAAGAT
CATGCATCCAACGTCAAGTACACCATGCACAAGGTCTTCCAGTTTCTGAACCTAGGGCCC
TTAAGTGAGAAGCAGGAGGCTTTGATGACCAAGAGCCCCGCATCCAATGCACGGCGTCCC
GAGGACCCGAACCTGGGGCCATGTGGCCATCACACAGAAGATTCTGCGGGATTCTAC
AGGCCCTTCAACGCTAGGCTGGCGCAGGTCTCGCGGATGAGGCGTTTGGTGAAGACG
ACGTGA
    
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Clone variation with respect to NM_015892.3

5' Read Nucleotide Sequence: >OriGene 5' read for NM_015892 unedited

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NNNNGGTTTANNATTTGTATACGACTCACTATAGGCGGCCGAATTCGCACGAGGGCTC
TTGTAGAACATGACTCTGGGACATCACTTCTTTTGTGTTTTTTCGGAGCTGAACCAAAG
AATGTGACCCCTCTTCTAGTGCTGTGGTGTCTGCTTATTTTTGTATTTGTGCTTTCC
ATCCATCTTCTGTGATCAACAAGGCAATTCTTAAGTTTTCTAGCACGACTTGCGGACATCC
AGACTCGTGGGGGGCCACCCATGGCTCGGTAAGCCAGCAGCCAGGCACTGGCACTAC
CATGAGGCACTGCATTAATTGCTGCATACAGCTGTTACCCGACGGCGCACACAAGCAGCA
GGTCAACTGCCAAGGGGGCCCCATCACGGTCACCAGGCGTGCCCCACGTGCAAAGGAGA
AAACAAAATTCTGTTTCGTGTGGACAGTAAGCAGATGAACCTGCTTGTCTCGAAGT
GAGGACTGAAGGGAACGAAAACGGGGTGGGTTTTGCGCTTCAAAAAGGGGAAGCGATG
TAGCCTCGTTTTTGGACTGATAAATAATGACCTTGGTAATGGCTTCTACATCCTTTCTGG
GGCCACCAAGAGCTTCTGATCTCATCACCTTTCCATTACGGAGGCTTCCCCAGCAACCC
CAGCTTGATGGACAGCGAAAACCCCAAGTGACACAAAGGAGCATCACCAACATCCTCTGT
AATAATATTTTACATACATGAAGGACTATCCAAGCATTAAATTAATTATCAACAGCATCAC
AACTANGATTGANGTCACGACCAGACAGCTCCCAGACTTANAAGACCTTAAGAAGCANGA
GTTGCATATGTTTTAGTCATTTCCCAAAATNCCTTNCAACAGTAGAGCCCCTGTTGTA
CCAAGATTCTCGG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_015892 unedited TCCTCTTTATTTGTTAAATTTAATAAAGTACAGCGTAACTGCGATTCACTTAACATACCT TACAGGACTAAGGGAGTACAATTTAACACGGTCACAACCTTTTGAGAACAAAAAGGAACTT CAATACCATGTTGTGAGAAATGCTCCAATTTGCTTTGGTTTTGAATGGCAGGCTCGAGAA CCACCGCCCATACGGAACCTATTCTGTCAGCAAGAGCCGGCCCTCGAATGAGAGGAAGC AGAGGCAGCCGAAGTGCCTCTGGAGAGAAAGGCCCTGGAGGGAAAAACCATGTCTGGA TGGCATTGAGTGGCACAGAAGGGATGGGACTGCATATATAAAAAAGATCCGCATAATAAA CCAAATAATATTGGAAATAATACCTTCAGTAATACTTCTGTAAGAAGCAGAATTACACCA CATGTTATTACATGCATAGGAGTGCATAAGAAAAATCCCTTGTGTAATTATGTTGGT GTGGAATAGTAAAATATGTACTGAAAAATGACAAGTTAATTGGCAGAGAAATTAATCTATA AAAGGGTGTGTCCAGAGCGGAGGAGCCTCATTAGCAACTGAACAGAACCCACTCAGAAG ACGCACTACCCACACGTGCGCTACACACACACACGCGCGCACTGTACTGCAAATAA ATATACACACACTGAAGTGATCTCTCCCTAAGCATCCTTGTGCTCATGCCAGATTTCC CTGCTGGCAGCTGCTCCCAGTCCGGCTATAGAGAATGTGGGGACTGTCCCTGCAGTGG GATGTCATGACACACGCTCCTTCAGTAGCATAAACAGCCCTGGCCATTCTGGCGCTCATA GCCCTCTGNACACCTTCGAACGGCTGTGTGTTCTTCTCTGATGGCAGAATGACAACAC AGCAGAAAGACGGCTGAACACTGCAGATCCTNCTACCCCGGAGCCTGTTCTGCTAACACT ACAANTAAAGCTGGGTAACGGTTGCTTGCCTTT
Restriction Sites:	NotI-NotI
ACCN:	NM_015892
Insert Size:	4350 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_015892.2</u> , <u>NP_056976.2</u>
RefSeq Size:	4713 bp
RefSeq ORF:	1686 bp
Locus ID:	51363
UniProt ID:	<u>Q7LFX5</u>
Cytogenetics:	10q26.13
Domains:	Sulfotransfer

Protein Families: Transmembrane

Protein Pathways: Chondroitin sulfate biosynthesis

Gene Summary: Chondroitin sulfate (CS) is a glycosaminoglycan which is an important structural component of the extracellular matrix and which links to proteins to form proteoglycans. Chondroitin sulfate E (CS-E) is an isomer of chondroitin sulfate in which the C-4 and C-6 hydroxyl groups are sulfated. This gene encodes a type II transmembrane glycoprotein that acts as a sulfotransferase to transfer sulfate to the C-6 hydroxal group of chondroitin sulfate. This gene has also been identified as being co-expressed with RAG1 in B-cells and as potentially acting as a B-cell surface signaling receptor. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2012]
Transcript Variant: This variant (1) encodes the longer isoform (1). Variants 1 and 3 encode the same protein.