

Product datasheet for **RC232972**

CHST15 (NM_001270764) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHST15 (NM_001270764) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CHST15
Synonyms:	BRAG; GALNAC4S-6ST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC232972 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGCACTGCATTAATTGCTGCATACAGCTGTTACCCGACGGCGCACACAAGCAGCAGGTCAACTGCC
 AAGGGGGCCCCATCACGGTCACCAGGCGTGCCACGTGCAAAGGAGAAAACAAAATTCTGTTTCTGTG
 GGACAGTAAGCAGATGAAGTTGCTGTTCTCGAAGTGAGGACTGAAGGGAACGAAAACCTGGGGTGGG
 TTTTGGCGCTTCAAAAAGGGGAAGCGATGTAGCCTCGTTTTGGACTGATAATAATGACCTTGGTAAATGG
 CTTCTTACATCCTTTCTGGGGCCACCAAGAGCTTCTGATCTCATCACCTTTCCATTACGGAGGCTTCCC
 CAGCAACCCAGCTTGATGGACAGCGAAAACCAAGTGACACAAAGGAGCATCACCAATCCTCTGTA
 AATAATATTTATACATGAAGGACTATCCAAGCATTAAATTAATTATCAACAGCATCACAACCTAGGATTG
 AGTTCACGACCAGACAGCTCCAGACTTAGAAGACCTTAAGAAGCAGGAGTTGCATATGTTTTAGTCAT
 CCCCACAAAATCCTTCCAAACAGTAAGAGCCCTGTTGGTACGAGGAGTTCTCGGGGCAGAACACCACC
 GACCCCTACCTACCAACTCCTACGTGCTACTCCAAGCGCTTCGCTCCACCTTCGACGCCCTGCGCA
 AGGCCTTCTGGGGCCACCTGGCGCACGCGCACGGGAAGCACTTCCGCCTGCGCTGCCTGCCGCACTTCTA
 CATCATAGGGCAGCCCAAGTGCGGGACCACAGACCTCTATGACCGCTGCGGCTGCACCTGAGGTCAAG
 TTCTCCGCCATCAAGGAGCCACACTGGTGGACCCGGAAGCGCTTTGGAATCGTCCGCCTAAGAGATGGGC
 TGCGAGACCGCTATCCCGTGAAGATTATCTGGACCTTTGACCTGGCCGACACCAGATCCATCAAGG
 ACTGCAGGCCAGCTCTGCAAAGGAGCAGAGCAAGATGAATAACAATCATTATCGGGGAGGCCAGTGCCTCC
 ACGATGTGGGATAATAATGCCTGGACGTTCTTCTACGACAACAGCAGCGATGGCGAGCCACCGTTTCTGA
 CGCAGGACTTCAATCCACGCTTTCAGCCAAATGCCAGACTGATTGTGCTCAGGACCCTGTGGAGAG
 GTTGTACTCAGACTATCTACTTTGCAAGTTCGAATAAATCCGCGGACGACTTCCATGAGAAAAGTGACA
 GAAGCACTGCAGCTGTTTAAAATTGCATGCTTATTACTGCGCGCTGCGTCTACAACAACACC
 TCAACAACGCCATGCCTGTGAGGCTCCAGGTTGGGCTCTATGCTGTGTACCTTCTGGACTGGCTCAGCGT
 TTTTGACAAGCAACAGTTTCTCATTCTTCGCTGGAAGATCATGCATCCAACGTCAAGTACACCATGCAC
 AAGGTCTTCCAGTTTCTGAACCTAGGGCCCTTAAGTGAGAAGCAGGAGGCTTTGATGACCAAGAGCCCCG
 CATCCAATGCACGGCGTCCCGAGGACCGGAACCTGGGGCCATGTGGCCATCACACAGAAGATTCTGCG
 GGATTTCTACAGGCCCTCAACGCTAGGCTGGCGCAGGCTCTCGCGGATGAGGCGTTTTCGTTGGAAGACG
 ACG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232972 protein sequence
 Red=Cloning site Green=Tags(s)

MRHCINCCIQLLPDGAHKQQVNCQGGPHHGHQACPTCKGENKILFRVDSKQMNLLAVLEVRTEGNENWGG
 FLRFKKGKRCSLVFGLIIMTLVMASYILSGAHQELLISSPFHYGGFSPNPSLMDSENPSDTKEHHHQSSV
 NNISYMKDYPSIKLIINSITTRIEFTTRQLPDLEDLKKQELHMFVSVIPNKFPLNSKSPCWYEEFSGQNTT
 DPYLTNSYVLYSKRFRSTFDALRKAFWGHLAHAHGKHFRLRCLPHFYIIGQPKCGTTDLYDRLRLHPEVK
 FSAIKEPHWWTRKRFIVRLRDGLRDRYPVEDYLDLFDLAAHQIHQGLQASSAKEQSKMNTIIIGEASAS
 TMWDNNAWTFYDNSTDGEPFLTQDFIHAFQPNARLIVMLRDPVERLYSDYLYFASSNKSADDFHEKVT
 EALQLFENCMLDYSLRACYNNTLNNAMPVRLQVGLYAVYLLDWL SVFDKQQLILRLEDHASNVKYTMH
 KVFQFLNLGPLSEKQALMTKSPASNARRPEDRNLGPMWPITQKILRDFYRPFNARLAQVLADEAFAWKT
 T

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6344_d03.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001270764

ORF Size: 1683 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:**
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_001270764.2](#)

RefSeq Size: 4851 bp

RefSeq ORF: 1686 bp

Locus ID: 51363

UniProt ID: [Q7LFX5](#)

Cytogenetics: 10q26.13

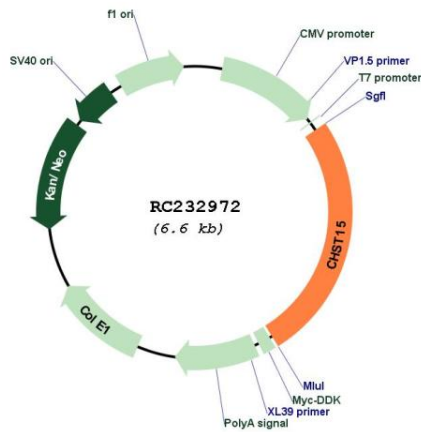
Protein Families: Transmembrane

Protein Pathways: Chondroitin sulfate biosynthesis

MW: 64.9 kDa

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 hydroxyl 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]

Product images:



Circular map for RC232972