

Product datasheet for **RC206489**

CHST15 (NM_015892) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHST15 (NM_015892) 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:

>RC206489 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGGCACTGCATTAATTGCTGCATACAGCTGTTACCCGACGGCGCACACAAGCAGCAGGTCAACTGCC
 AAGGGGGCCCCATCACGGTCACCAGGCGTGCCACAGTGCAAAGGAGAAAACAAAATTCTGTTTCGTGT
 GGACAGTAAGCAGATGAAGTCTGTTGCTGTTCTCGAAGTGAGGACTGAAGGGAACGAAAAGTGGGGTGGG
 TTTTTCGCTTCAAAAAGGGGAAGCGATGTAGCCTCGTTTTTGGACTGATAATAATGACCTTGGTAAATGG
 CTTCTTACATCCTTCTGGGGCCACCAAGAGCTTCTGATCTCATCACCTTCCATTACGGAGGCTTCCC
 CAGCAACCCAGCTTGTGGACAGCGAAAACCAAGTGACACAAAGGAGCATCACCAATCCTCTGTA
 AATAATATTTATACATGAAGGACTATCCAAGCATTAAATTAATTATCAACAGCATCACAAGTAGGATTG
 AGTTCACGACCAGACAGCTCCAGACTTAGAAGACCTTAAGAAGCAGGAGTTGCATATGTTTTAGTCAT
 CCCCACAAAATCCTTCCAAACAGTAAGAGCCCTGTTGGTACGAGGAGTTCTCGGGGCAGAACACCACC
 GACCCCTACCTACCAACTCCTACGTGCTCTACTCCAAGCGCTTCGCTCCACCTTCGACGCCCTGCGCA
 AGGCCTTCTGGGGCCACCTGGCGCACGCGCACGGGAAGCACTTCCGCCTGCGCTGCCTGCCGCACTTCTA
 CATCATAGGGCAGCCCAAGTGCGGGACACAGACCTCTATGACCGCTGCGGCTGCACCTGAGGTCAAG
 TTCTCCGCCATCAAGGAGCCACACTGGTGGACCCGGAAGCGCTTGGAAATCGTCCGCCTAAGAGATGGGC
 TGCGAGACCGCTATCCCGTGAAGATTATCTGGACCTCTTTGACCTGGCCGACACCAGATCCATCAAGG
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 ACGATGTGGGATAATAATGCCTGGACGTTCTTCTACGACAACAGCAGCGGATGGCGAGCCACCGTTTCTGA
 CGCAGGACTTCAATCCACGCTTTCAGCCAAATGCCAGACTGATTGTATGCTCAGGACCCTGTGGAGAG
 GTTGTACTCAGACTATCTACTTTGCAAGTTCGAATAAATCCGCGGACGACTTCCATGAGAAAAGTGACA
 GAAGCACTGCAGCTGTTTAAAATTGCATGCTTATTACTGCGCGCTGCGTCTACAACAACACC
 TCAACAACGCCATGCCTGTGAGGCTCCAGGTTGGGCTCTATGCTGTGTACCTTCTGGACTGGCTCAGCGT
 TTTTGACAAGCAACAGTTTCTCATTCTTCGCTGGAAGATCATGCATCCAACGTCAAGTACACCATGCAC
 AAGGTCTTCCAGTTTCTGAACCTAGGGCCCTTAAGTGAGAAGCAGGAGGCTTTGATGACCAAGAGCCCCG
 CATCCAATGCACGGCGTCCCGAGGACCGGAACCTGGGGCCATGTGGCCATCACACAGAAGATTCTGCG
 GGATTTCTACAGGCCCTCAACGCTAGGCTGGCGCAGGCTCTCGCGGATGAGGCGTTTTCGTGGAAGACG
 ACG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206489 protein sequence
 Red=Cloning site Green=Tags(s)

MRHCINCCIQLLPDGAHKQQVNCQGGPHHGHQACPTCKGENKILFRVDSKQMNLLAVLEVRTEGNENWGG
 FLRFKKGKRCSLVFGLIIMTLVMASYILSGAHQELLISSPFHYGGFSPNPSLMDSENPSDTKEHHHQSSV
 NNISYMKDYPSIKLIINSITTRIEFTTRQLPDLEDLKKQELHMFVSVIPNKFPLNSKSPCWYEEFSGQNTT
 DPYLTNSYVLYSKRFRSTFDALRKAFWGHLAHAHGKHFRLRCLPHFYIIGQPKCGTTDLYDRLRLHPEVK
 FSAIKEPHWWTRKRFIVRLRDGLRDRYPVEDYLDLFDLAAHQIHQGLQASSAKEQSKMNTIIIGEASAS
 TMWDNNAWTFYDNSTDGEPFLTQDFIHAFQPNARLIVMLRDPVERLYSDYLYFASSNKSADDFHEKVT
 EALQLFENCMLDYSLRACYNNTLNNAMPVRLQVGLYAVYLLDWL SVFDKQQLILRLEDHASNVKVTMH
 KVFQFLNLGPLSEKQALMTKSPASNARRPEDRNLGPMWPITQKILRDFYRPFNARLAQVLADEAFAWKT
 T

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

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

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_015892

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_015892.5](#)

RefSeq Size: 4813 bp

RefSeq ORF: 1686 bp

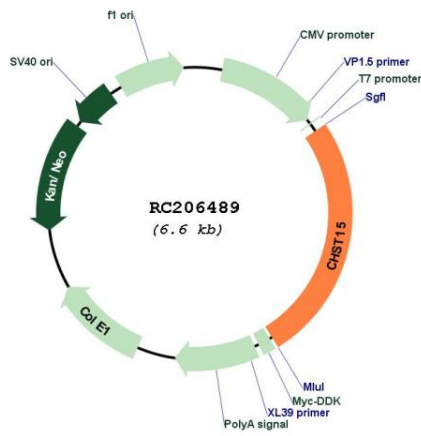
Locus ID: 51363

UniProt ID: [Q7LFX5](#)

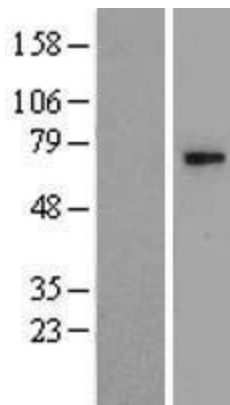
Cytogenetics: 10q26.13

Domains:	Sulfotransfer
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 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]

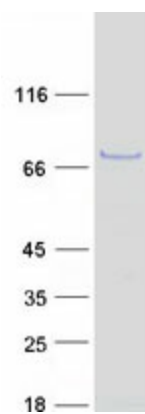
Product images:



Circular map for RC206489



Western blot validation of overexpression lysate (Cat# [LY414286]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206489 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CHST15 protein (Cat# [TP306489]). The protein was produced from HEK293T cells transfected with CHST15 cDNA clone (Cat# RC206489) using MegaTran 2.0 (Cat# [TT210002]).