

Product datasheet for **RG234311**

CHST15 (NM_001270765) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHST15 (NM_001270765) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHST15
Synonyms:	BRAG; GALNAC4S-6ST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234311 representing NM_001270765
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGGCACTGCATTAATTGCTGCATACAGCTGTTACCCGACGGCGCACACAAGCAGCAGGTCAACTGCC
 AAGGGGGCCCCATCACGGTCACCAGGCGTCCCCACGTGCAAAGGAGAAAAACAAATTCGTTTTCGTGT
 GGACAGTAAGCAGATGAACCTGCTTGTCTCGAAGTGAGGACTGAAGGGAACGAAAACCTGGGGTGGG
 TTTTTGCGCTTCAAAAAGGGGAAGCGATGTAGCCTCGTTTTGGACTGATAATAATGACCTTGGTAAATGG
 CTTCTTACATCCTTTCTGGGGCCACCAAGAGCTTCTGATCTCATCACCTTCCATTACGGAGGCTTCCC
 CAGCAACCCAGCTTGATGGACAGCGAAAACCAAGTGACACAAAGGAGCATCACCACCAATCCTCTGTA
 AATAATATTTATACATGAAGGACTATCCAAGCATTAAATTAATTATCAACAGCATCACAACCTAGGATTG
 AGTTCACGACCAGACAGCTCCAGACTTAGAAGACCTTAAGAAGCAGGAGTTGCATATGTTTTAGTCAT
 CCCCACAAATTCCTTCCAAACAGTAAGAGCCCTGTTGGTACGAGGAGTTCTCGGGGCAGAACACCACC
 GACCCCTACCTACCAACTCCTACGTGCTCTACTCCAAGCGCTTCGCTCCACCTTCGACGCCCTGCGCA
 AGGCCTTCTGGGGCCACCTGGCGCACGCGCACGGGAAGCACTTCCGCCTGCGCTGCCTGCCGCACTTCTA
 CATCATAGGGCAGCCCAAGTGCGGGACCACAGACCTCTATGACCGCTGCGGCTGCACCCCTGAGGTCAAG
 TTCTCCGCCATCAAGGAGCCACACTGGTGGACCCGGAAGCGCTTTGGAATCGTCCGCCTAAGAGATGGGC
 TGCGAGACCGCTATCCCGTGAAGATTATCTGGACCTCTTTGACCTGGCCGCACACCAGATCCATCAAGG
 ACTGCAGGCCAGCTCTGCAAAGGAGCAGAGCAAGATGAATACAATCATTATCGGGGAGGCCAGTGCCTCC
 ACGATGTGGGATAATAATGCCTGGACGTTCTTCTACGACAACAGCACGGATGGCGAGCCACCGTTTCTGA
 CGCAGGACTTCATCCACGCCTTTCAGCCAAATGCCAGACTGATTGTGCATGCTCAGGGACCTGTGGAGAG
 GTTGTACTCAGACTATCTCTACTTTGCAAGTTCGAATAAATCCGCGGACGACTTCCATGAGAAAGTGACA
 GAAGCACTGCAGCTGTTTAAAATTGCATGCTTGATTATCACTGCGCGCCTGCGTCTACAACAACACC
 TCAACAACGCCATGCCTGTGTGTACCCCCCCCCCGTACCCCCGAGCTGGCCCTGGCAGAAGGAGCT
 GGTGTTGTGTTATTATGCAAGCGGCATTGTGGTTTGCCTTTCAGCATAGGAACAGAGAGAAGCGTTTTTA
 ATGTGCAAATGCTGTTCCCATATTTCATGGATGTAAGCTGAAAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234311 representing NM_001270765
 Red=Cloning site Green=Tags(s)

MRHCINCCIQLLPDGAHKQVNCQGGPHHGHQACPTCKGENKILFRVDSKQMNLLAVLEVRTEGNENWGG
 FLRFKKGKRCSLVFGLIIMTLVMASYILSGAHQELLISSPFHYGGFSPNSPLMDSENPSDTKEHHHQSSV
 NNI SYMKDYPSIKLIINSITTRIEFTTRQLPDLEDLKKQELHMF SVIPNKFLPNSKSPCWYEEFSGQNTT
 DPYLTNSYVLYSKRFRSTFDALRKAFWGHLAHAHGKHFRLRCLPHFYIIGQPKCGTTDLYDRLRLHPEVK
 FSAIKEPHWWTRKRFVIRLRDGLRDYRYPVEDYLDLFDLAAHQIHQGLQASSAKEQSKMNTIIGEASAS
 TMWDNNAWTFYDNSTDGEPFLTQDFIHAFQPNARLIVMLRDPVERLYSDLYFASSNKSADDFHEKVT
 EALQLFENCMLDYSLRACVYNNLNNAMPVCTPPRTPRAGPWQKELVCCYYASGIVGLRFSIGTERSVL
 MCKCCSPLFMDVKAEN

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001270765

ORF Size: 1518 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_001270765.2](#)

RefSeq Size: 3618 bp

RefSeq ORF: 1521 bp

Locus ID: 51363

UniProt ID: [Q7LFX5](#)

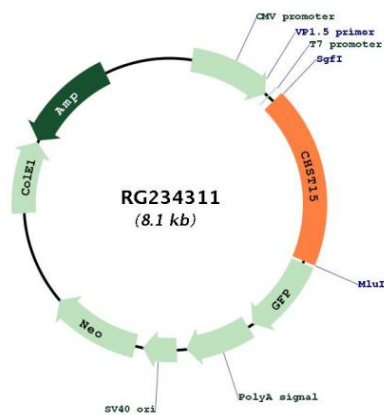
Cytogenetics: 10q26.13

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]

Product images:



Circular map for RG234311