

Product datasheet for **RG232972**

CHST15 (NM_001270764) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHST15 (NM_001270764) 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:

>RG232972 representing NM_001270764
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGGCACTGCATTAATTGCTGCATACAGCTGTTACCCGACGGCGCACACAAGCAGCAGGTCAACTGCC
 AAGGGGGCCCCATCACGGTCACCAGGCGTGCCACAGTGCAAAGGAGAAAAAATAATTCTGTTTCTGTG
 GGACAGTAAGCAGATGAAGTTGCTGTTCTCGAAGTGAGGACTGAAGGGAACGAAAACTGGGGTGGG
 TTTTGGCCTTCAAAAAGGGGAAGCGATGTAGCCTCGTTTTGGACTGATAATAATGACCTTGGTAAATGG
 CTTCTTACATCCTTCTGGGGCCACCAAGAGCTTCTGATCTCATCACCTTCCATTACGGAGGCTTCCC
 CAGCAACCCAGCTTGATGGACAGCGAAAAACCAAGTGACACAAAGGAGCATCACCAATCCTCTGTA
 AATAATATTTATACATGAAGGACTATCCAAGCATTAAATTAATTATCAACAGCATCACAACCTAGGATTG
 AGTTCACGACCAGACAGCTCCAGACTTAGAAGACCTTAAGAAGCAGGAGTTGCATATGTTTTAGTCAT
 CCCCACAAAATCCTTCCAAACAGTAAGAGCCCTGTTGGTACGAGGAGTTCTCGGGGCAGAACACCACC
 GACCCCTACCTACCAACTCCTACGTGCTCTACTCCAAGCGCTTCGCTCCACCTTCGACGCCCTGCGCA
 AGGCCTTCTGGGGCCACCTGGCGCACGCGCACGGGAAGCACTTCCGCCTGCGCTGCCTGCCGCACTTCTA
 CATCATAGGGCAGCCCAAGTGCGGGACACAGACCTCTATGACCGCTGCGGCTGCACCTGAGGTCAAG
 TTCTCCGCCATCAAGGAGCCACACTGGTGGACCCGGAAGCGCTTTGGAATCGTCCGCCTAAGAGATGGGC
 TGCGAGACCGCTATCCCGTGAAGATTATCTGGACCTTTGACCTGGCCGACACCAGATCCATCAAGG
 ACTGCAGGCCAGCTCTGCAAAGGAGCAGAGCAAGATGAATAACAATCATTATCGGGGAGGCCAGTGCCTCC
 ACGATGTGGGATAATAATGCCTGGACGTTCTTCTACGACAACAGCACGGATGGCGAGCCACCGTTTCTGA
 CGCAGGACTTCAATCCACGCTTTCAGCCAAATGCCAGACTGATTGTGCTCAGGGACCGCTGTGGAGAG
 GTTGTACTCAGACTATCTCTACTTTGCAAGTTCGAATAAATCCGCGGACGACTTCCATGAGAAAGTGACA
 GAAGCACTGCAGCTGTTTAAAATTGCATGCTTATTACTGCGCGCTGCGTCTACAACAACACC
 TCAACAACGCCATGCCTGTGAGGCTCCAGGTTGGGCTCTATGCTGTGTACCTTCTGGACTGGCTCAGCGT
 TTTTGACAAGCAACAGTTTCTCATTCTTCGCTGGAAGATCATGCATCCAACGTCAAGTACACCATGCAC
 AAGGTCTTCCAGTTTCTGAACCTAGGGCCCTTAAGTGAGAAGCAGGAGGCTTTGATGACCAAGAGCCCCG
 CATCCAATGCACGGCGTCCCGAGGACCGGAACCTGGGGCCATGTGGCCATCACACAGAAGATTCTGCG
 GGATTTCTACAGGCCCTCAACGCTAGGCTGGCGCAGGCTCCTCGCGGATGAGGCGTTTGCCTGGAAGACG
 ACG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG232972 representing NM_001270764
 Red=Cloning site Green=Tags(s)

MRHCINCCIQLLPDGAHKQVNCQGGPHHGHQACPTCKGENKILFRVDSKQMNLLAVLEVRTEGNNWGG
 FLRFKKGKRCSLVFGLIIMTLVMASYILSGAHQELLISSPFHYGGFSPNSLMDSENPSDKHEHHQSSV
 NNISYMKDYPSIKLIINSITTRIEFTTRQLPDLEDLKKQELHMFVSVIPNKFLPNSKSPCWYEEFSGQNTT
 DPYLTNSYVLYSKRFRSTFDALRKAFWGHLAHAGKHFRRLRCLPHFYIIGQPKCGTTDLYDRLRLHPEVK
 FSAIKEPHWWTRKRFIVRLRDGLRDRYPVEDYLDLFDLAAHQIHQGLQASSAKEQSKMNTIIIGEASAS
 TMWDNNAWTFYDNSTDGEPFLTQDFIHAFQPNARLIVMLRDPVERLYSDYL YFASSNKSADDFHEKVT
 EALQLFENCMLDYSLRACVYNNLNNAMPVRLQVGLYAVYLLDWL SVFDKQQLILRLEDHASNVKYTMH
 KVFQFLNLGPLSEKQEALMTKSPASNARRPEDRNLGPMWPITQKILRDFYRPFNARLAQVLADEAFWK
 T

TRTRPLE – GFP Tag – V

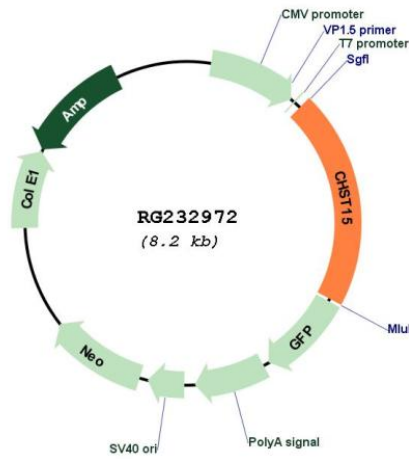
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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:	<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:	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
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]