

Product datasheet for **RG230848**

CHST15 (NM_014863) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHST15 (NM_014863) 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:

>RG230848 representing NM_014863
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGCACTGCATTAATTGCTGCATACAGCTGTTACCCGACGGCGCACACAAGCAGCAGGTCAACTGCC
 AAGGGGGCCCCATCACGGTCACCAGGCGTGCCCCACGTGCAAAGGAGAAAAACAAATTCGTTTTCGTGT
 GGACAGTAAGCAGATGAAGTCTGCTGTTCTCGAAGTGAGGACTGAAGGGAACGAAAACCTGGGGTGGG
 TTTTTCGCTTCAAAAAGGGGAAGCGATGTAGCCTCGTTTTTGGACTGATAATAATGACCTTGGTAAATGG
 CTTCTTACATCCTTTCTGGGGCCACCAAGAGCTTCTGATCTCATCACCTTTCCATTACGGAGGCTTCCC
 CAGCAACCCAGCTTGATGGACAGCGAAAACCAAGTGACACAAAGGAGCATCACCAATCCTCTGTA
 AATAATATTTATACATGAAGGACTATCCAAGCATTAAATTAATTATCAACAGCATCACAACCTAGGATTG
 AGTTCACGACCAGACAGCTCCAGACTTAGAAGACCTTAAGAAGCAGGAGTTGCATATGTTTTTCAGTCAT
 CCCCACAAATTCCTTCCAAACAGTAAGAGCCCTGTTGGTACGAGGAGTTCTCGGGGCAGAACACCACC
 GACCCCTACCTACCAACTCCTACGTGCTACTCCAAGCGCTTCGCTCCACCTTCGACGCCCTGCGCA
 AGGCCTTCTGGGGCCACCTGGCGCACGCGCACGGGAAGCACTTCCGCCTGCGCTGCCTGCCGCACTTCTA
 CATCATAGGGCAGCCCAAGTGCGGGACACAGACCTCTATGACCGCTGCGGCTGCACCTGAGGTCAAG
 TTCTCCGCCATCAAGGAGCCACACTGGTGGACCCGGAAGCGCTTTGGAATCGTCCGCCTAAGAGATGGGC
 TGCGAGACCGCTATCCCGTGAAGATTATCTGGACCTTTGACCTGGCCGCACACCAGATCCATCAAGG
 ACTGCAGGCCAGCTCTGCAAAGGAGCAGAGCAAGATGAATACAATCATTATCGGGGAGGCCAGTGCCTCC
 ACGATGTGGGATAATAATGCCTGGACGTTCTTCTACGACAACAGCACGGATGGCGAGCCACCGTTTCTGA
 CGCAGGACTTATCCACGCTTTCAGCCAAATGCCAGACTGATTGTATGCTCAGGACCCCTGTGGAGAG
 GTTGTACTCAGACTATCTACTTTGCAAGTTCGAATAAATCCGCGGACGACTTCCATGAGAAAGTGACA
 GAAGCACTGCAGCTGTTTAAAATTGCATGCTTATTACTGCGCGCTGCGCTACAACAACACCC
 TCAACAACGCCATGCCTGTGTGTACCCCCCCCCCGTACCCCCGAGCTGGCCCTGGCAGAAGGAGCT
 GGTGTGTGTTATTATGCAAGCGGCATTGTGGTTTGCCTTTCAGCATAGGAACAGAGAGAAGCGTTTTTA
 ATGTGCAAATGCTGTTCCCATATTTCATGGATGTAAAAGCTGAAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG230848 representing NM_014863
 Red=Cloning site Green=Tags(s)

MRHCINCCIQLLPDGAHKQVNCQGGPHHGHQACPTCKGENKILFRVDSKQMNLLAVLEVRTEGNEWGG
 FLRFKKGKRCSLVFGLIIMTLVMASYILSGAHQELLISSPFHYGGFSPNSLMDSENPSTKEHHHQSSV
 NNIYSMKDYPSIKLIINSITTRIEFTTRQLPDLEDLKKQELHMFVPIPNKFLPNSKSPCWYEEFSGQNTT
 DPYLTNSYVLYSKRFRSTFDALRKAFWGHLAHAHGKHFRLRCLPHFYIIGQPKCGTTDLYDRLRLHPEVK
 FSAIKEPHWWTRKRFIVRLRDGLRDYRYPVEDYLDLFDLAAHQIHQGLQASSAKEQSKMNTIIGEASAS
 TMWDNNAWTFYDNSTDGEPFLTQDFIHAFQPNARLIVMLRDPVERLYSDYLYFASSNKSADDFHEKVT
 EALQLFENCMLDYSLRACVYNNLNNAMPVCTPPRTPRAGPWQKELVCCYYASGIVGLRF SIGTERSVL
 MCKCCSPLFMDVKAEN

TRTRPLE - GFP Tag - V

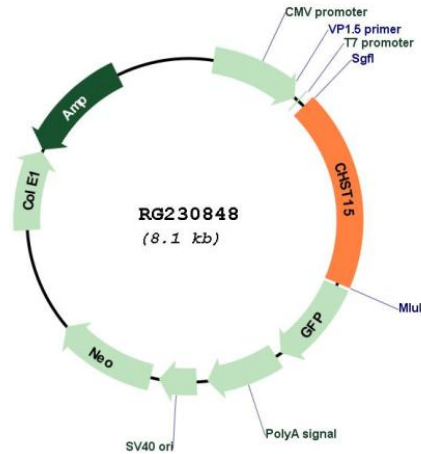
Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_014863

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_014863.4](#)

RefSeq Size: 3580 bp

RefSeq ORF: 1521 bp

Locus ID: 51363

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]