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Product datasheet for RC230848

CHST15 (NM_014863) Human Tagged ORF Clone

Product data:

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

ORF Nucleotide Sequence:

>RC230848 representing NM_014863
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGCACTGCATTAATTGCTGCATACAGCTGTTACCCGACGGCGCACACAAGCAGCAGGTCAACTGCC
AAGGGGGCCCCCATCACGGTCACCAGGCGTGCCCCACGTGCAAAGGAGAAAACAAAATTCTGTTTCGTGT
GGACAGTAAGCAGATGAACTTGCTTGCTGTTCTCGAAGTGAGGACTGAAGGGAACGAAAACTGGGGTGGG
TTTTTGCGCTTCAAAAAGGGGAAGCGATGTAGCCTCGTTTTTGGACTGATAATAATGACCTTGGTAATGG
CTTCTTACATCCTTTCTGGGGCCCACCAAGAGCTTCTGATCTCATCACCTTTCCATTACGGAGGCTTCCC
CAGCAACCCCAGCTTGATGGACAGCGAAAACCCAAGTGACACAAAGGAGCATCACCACCAATCCTCTGTA
AATAATATTTCATACATGAAGGACTATCCAAGCATTAAATTAATTATCAACAGCATCACAACTAGGATTG
AGTTCACGACCAGACAGCTCCCAGACTTAGAAGACCTTAAGAAGCAGGAGTTGCATATGTTTTCAGTCAT
CCCCAACAAATTCCTTCCAAACAGTAAGAGCCCCTGTTGGTACGAGGAGTTCTCGGGGCAGAACACCACC
GACCCCTACCTCACCAACTCCTACGTGCTCTACTCCAAGCGCTTCCGCTCCACCTTCGACGCCCTGCGCA
AGGCCTTCTGGGGCCACCTGGCGCACGCGCACGGGAAGCACTTCCGCCTGCGCTGCCTGCCGCACTTCTA
CATCATAGGGCAGCCCAAGTGCGGGACCACAGACCTCTATGACCGCCTGCGGCTGCACCCTGAGGTCAAG
TTCTCCGCCATCAAGGAGCCACACTGGTGGACCCGGAAGCGCTTTGGAATCGTCCGCCTAAGAGATGGGC
TGCGAGACCGCTATCCCGTGGAAGATTATCTGGACCTCTTTGACCTGGCCGCACACCAGATCCATCAAGG
ACTGCAGGCCAGCTCTGCAAAGGAGCAGAGCAAGATGAATACAATCATTATCGGGGAGGCCAGTGCCTCC
ACGATGTGGGATAATAATGCCTGGACGTTCTTCTACGACAACAGCACGGATGGCGAGCCACCGTTTCTGA
CGCAGGACTTCATCCACGCCTTTCAGCCAAATGCCAGACTGATTGTCATGCTCAGGGACCCTGTGGAGAG
GTTGTACTCAGACTATCTCTACTTTGCAAGTTCGAATAAATCCGCGGACGACTTCCATGAGAAAGTGACA
GAAGCACTGCAGCTGTTTGAAAATTGCATGCTTGATTATTCACTGCGCGCCTGCGTCTACAACAACACCC
TCAACAACGCCATGCCTGTGTGTACCCCCCCCCCCCGTACCCCCCGAGCTGGCCCCTGGCAGAAGGAGCT
GGTTTGTTGTTATTATGCAAGCGGCATTGTGGGTTTGCGTTTCAGCATAGGAACAGAGAGAAGCGTTTTA
ATGTGCAAATGCTGTTCCCCATTATTCATGGATGTAAAAGCTGAAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

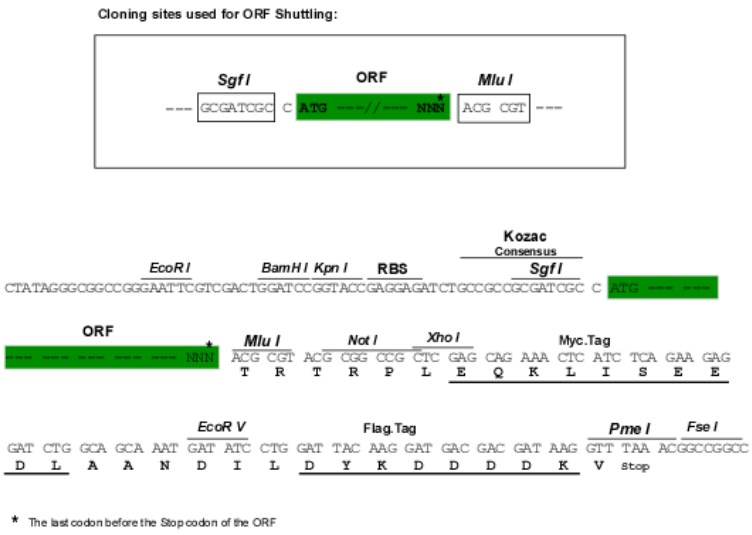
>RC230848 representing NM_014863
Red=Cloning site Green=Tags(s)

MRHCINCCIQLLPDGAHKQQVNCQGGPHHGHQACPTCKGENKILFRVDSKQMNLLAVLEVRTEGNENWGG
FLRFKKGKRCSLVFGLIIMTLVMASYILSGAHQELLISSPFHYGGFPSNPSLMDSENPSDTKEHHHQSSV
NNISYMKDYPSIKLIINSITTRIEFTTRQLPDLEDLKKQELHMFSVIPNKFLPNSKSPCWYEEFSGQNTT
DPYLTNSYVLYSKRFRSTFDALRKAFWGHLAHAHGKHFRLRCLPHFYIIGQPKCGTTDLYDRLRLHPEVK
FSAIKEPHWWTRKRFGIVRLRDGLRDRYPVEDYLDLFDLAAHQIHQGLQASSAKEQSKMNTIIIGEASAS
TMWDNNAWTFFYDNSTDGEPPFLTQDFIHAFQPNARLIVMLRDPVERLYSDYLYFASSNKSADDFHEKVT
EALQLFENCMLDYSLRACVYNNTLNNAMPVCTPPPRTPRAGPWQKELVCCYYASGIVGLRFSIGTERSVL
MCKCCSPLFMDVKAEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

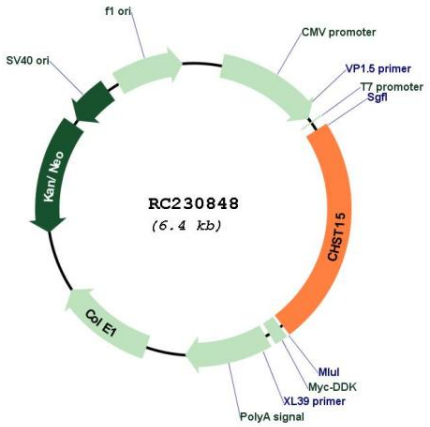
Protein Families: Transmembrane

Protein Pathways: Chondroitin sulfate biosynthesis

MW: 58.1 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 RC230848