

Product datasheet for **RC206401**

CHST9 (NM_031422) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHST9 (NM_031422) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CHST9
Synonyms:	GALNAC4ST-2; GalNAc4ST2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC206401 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTCATGAACCCCAACAAGTCTTCCTCTGTGCTGATATTTGGAGTAGCTGGGCTACTCCTTTCA
TGTATTTGCAAGTCTGGATTGAAGAACAACATACAGGGAGAGTGGAGAAGAGAAGAGAACAAAAAGTAAC
TTCAGGATGGGGACCAGTGAAGTACTTGCAGCCTGTACCCAGAATCATGAGTACAGAAAAATCCAGGAA
CATATACCAACCAAGACCCCAAGTTTACATGCCTGAGGATGTACGAGAAAAAAGGAAAAATCTTCTAC
TCAATTCTGAGAGATCTACTAGGCTCTTAACAAAGACCAGTCAATCACAAGGAGGGGATCAAGCTTTAAG
TAAGTCCACAGGGTCACCAACAGAGAAGTTGATTGAAAAACGTCAAGGAGCTAAGACTGTTTTTAACAAG
TTCAGCAACATGAATTGGCCAGTGGACATTCACCTTTAAACAAAAGTTTAGTCAAAGATAATAATGGA
AGAAAAGTGGAGACCAAGAGAAACGAAGTCTTTCCCTTCAGGAGTTTGAAGAAATACGGTGGGGT
GAGTCATCATCAGTCACATCTTTTTCATACAGTATCCAGAATCTATGTAGAAGATAAACACAAAATCTTA
TATTGTGAGGTACCTAAGGCTGGCTGTTCCAATTGGAAAAAGAAATCTGATGGTACTAAATGGATTGGCTT
CCTCTGCATACAACATCTCCACAAATGCTGCCACTACGGGAAGCATTTGAAGAAGCTAGATAGCTTTGA
CCTAAAAGGGATATATACCCGCTTAAATACTTACACCAAAGCTGTGTTTGTTCGTGATCCCATGGAAAGA
TTAGTATCAGCCTTTAGGGACAAATTTGAACACCCCAATAGTTATTACCATCCAGTATTCGGAAAGGCAA
TTATCAAGAAATATCGACCAATGCCTGTGAAGAAGCATTAAATTAATGGATCTGGAGTCAAGTTCAAAGA
GTTTATCCACTACTTGTGGATTCCCACCGTCCAGTAGGAATGGACATTCAGTGGGAAAAGGTGAGCAAA
CTCTGCTATCCGTGTTTGTCAACTATGATTTTGTAGGAAATTTGAGACTTTGGAAGAAGATGCCAATT
ACTTTTTACAGATGATCGGTGCTCAAAGGAGCTGAAATTTCCCAACTTTAAGGATAGGCCTCTCCGA
TGAAAGAACCAATGCTCAAGTCGTGAGACAGTATTTAAAGGATCTGACTAGAAGTGAAGACAATTAATC
TATGACTTTTATTACTTGGACTATTTAATGTTTAATTATACAACCTCCATTTTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206401 protein sequence
Red=Cloning site Green=Tags(s)

MVMNPKQVFLSVLIFGVAGLLL FMYLQVWIEEQHTGRVEKRREQKVTSGWGPVKYLRPVPRIMSTEKIQE
HITNQPKFHMPEDVREKKENLLLNSERSTRLLTKTSHSQGGDQALSKSTGSPTEKLEIKRQGAKTVFNK
FSNMNWPVDIHLNLSL VKDNKWKKTEETQEKRFSFLQEFCKKYGGVSHHQSHL FHTVSR IYVEDKHKIL
YCEVPKAGCSNWKRI LMVNLGLASSAYNISHNAVHYGKHLKLD SFDLKG IYTRLNTYTKAVFVRDPMER
LVSAFRDKFEHPNSYYHPVFGKAI IKKYRPNACEEALINGSGVKFKEFIHYLLDSHRPVGMDIHWKVKSK
LCYPCLIN YDFVGFETLEEDANYFLQ MIGAPKELKFPNFKDRHSSDERTNAQVVRQYLKDLTRTERQLI
YDFYYLDYLMFN YTPFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6328_d08.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_031422

ORF Size: 1314 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_031422.1](#), [NP_113610.1](#)

RefSeq Size: 2280 bp

RefSeq ORF: 1332 bp

Locus ID: 83539

UniProt ID: [Q7L1S5](#)

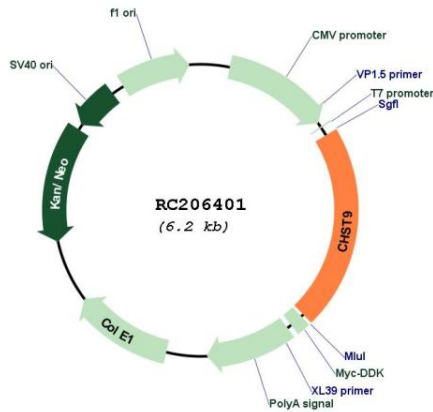
Cytogenetics: 18q11.2

Protein Families: Transmembrane

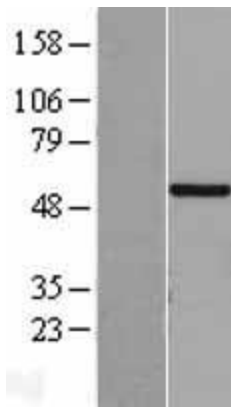
MW: 51.5 kDa

Gene Summary: The protein encoded by this gene belongs to the sulfotransferase 2 family. It is localized to the golgi membrane, and catalyzes the transfer of sulfate to position 4 of non-reducing N-acetylgalactosamine (GalNAc) residues in both N-glycans and O-glycans. Sulfate groups on carbohydrates confer highly specific functions to glycoproteins, glycolipids, and proteoglycans, and are critical for cell-cell interaction, signal transduction, and embryonic development. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RC206401



Western blot validation of overexpression lysate (Cat# [LY410533]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206401 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).