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Product datasheet for RG206401

CHST9 (NM_031422) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHST9 (NM_031422) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHST9
Synonyms:	GALNAC4ST-2; GalNAc4ST2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG206401 representing NM_031422
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTCATGAACCCCAAACAAGTCTTCCTCTCTGTGCTGATATTTGGAGTAGCTGGGCTACTCCTCTTCA
TGTATTTGCAAGTCTGGATTGAAGAACAACATACAGGGAGAGTGGAGAAGAGAAGAGAACAAAAAGTAAC
TTCAGGATGGGGACCAGTGAAGTACTTGCGGCCTGTACCCAGAATCATGAGTACAGAAAAAATCCAGGAA
CATATCACCAACCAGAACCCCAAGTTTCACATGCCTGAGGATGTACGAGAAAAAAAGGAAAATCTTCTAC
TCAATTCTGAGAGATCTACTAGGCTCTTAACAAAGACCAGTCATTCACAAGGAGGGGATCAAGCTTTAAG
TAAGTCCACAGGGTCACCAACAGAGAAGTTGATTGAAAAACGTCAAGGAGCTAAGACTGTTTTTAACAAG
TTCAGCAACATGAATTGGCCAGTGGACATTCACCCTTTAAACAAAAGTTTAGTCAAAGATAATAAATGGA
AGAAAACTGAGGAGACCCAAGAGAAACGAAGGTCTTTCCTTCAGGAGTTTTGCAAGAAATACGGTGGGGT
GAGTCATCATCAGTCACATCTTTTTCATACAGTATCCAGAATCTATGTAGAAGATAAACACAAAATCTTA
TATTGTGAGGTACCTAAGGCTGGCTGTTCCAATTGGAAAAGAATTCTGATGGTACTAAATGGATTGGCTT
CCTCTGCATACAACATCTCCCACAATGCTGTCCACTACGGGAAGCATTTGAAGAAGCTAGATAGCTTTGA
CCTAAAAGGGATATATACCCGCTTAAATACTTACACCAAAGCTGTGTTTGTTCGTGATCCCATGGAAAGA
TTAGTATCAGCCTTTAGGGACAAATTTGAACACCCCAATAGTTATTACCATCCAGTATTCGGAAAGGCAA
TTATCAAGAAATATCGACCAAATGCCTGTGAAGAAGCATTAATTAATGGATCTGGAGTCAAGTTCAAAGA
GTTTATCCACTACTTGCTGGATTCCCACCGTCCAGTAGGAATGGACATTCACTGGGAAAAGGTCAGCAAA
CTCTGCTATCCGTGTTTGATCAACTATGATTTTGTAGGGAAATTTGAGACTTTGGAAGAAGATGCCAATT
ACTTTTTACAGATGATCGGTGCTCCAAAGGAGCTGAAATTTCCCAACTTTAAGGATAGGCACTCTTCCGA
TGAAAGAACCAATGCTCAAGTCGTGAGACAGTATTTAAAGGATCTGACTAGAACTGAGAGACAATTAATC
TATGACTTTTATTACTTGGACTATTTAATGTTTAATTATACAACTCCATTTTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

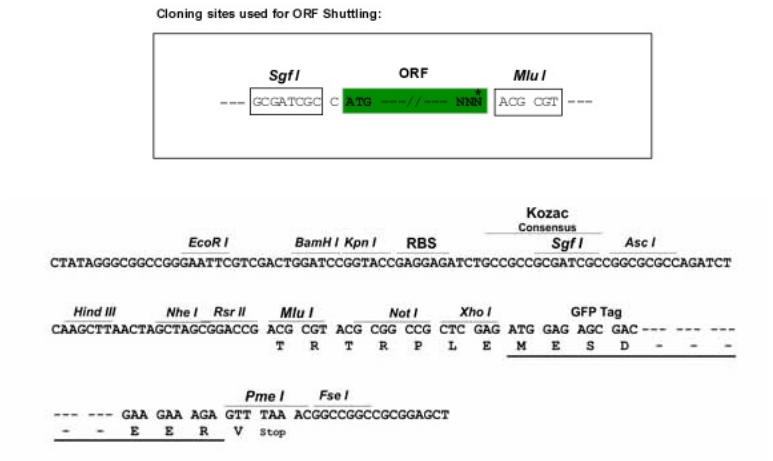
>RG206401 representing NM_031422
Red=Cloning site Green=Tags(s)

MVMNPKQVFLSVLIFGVAGLLLFMYLQVWIEEQHTGRVEKRREQKVTSGWGPVKYLRPVPRIMSTEKIQE
HITNQNPKFHMPEDVREKKENLLLNSERSTRLLTKTSHSQGGDQALSKSTGSPTEKLIEKRQGAKTVFNK
FSNMNWPVDIHPLNKSLVKDNKWKKTEETQEKRRSFLQEFCKKYGGVSHHQSHLFHTVSRIYVEDKHKIL
YCEVPKAGCSNWKRILMVLNGLASSAYNISHNAVHYGKHLKKLDSFDLKGIYTRLNTYTKAVFVRDPMER
LVSAFRDKFEHPNSYYHPVFGKAIIKKYRPNACEEALINGSGVKFKEFIHYLLDSHRPVGMDIHWEKVSK
LCYPCLINYDFVGKFETLEEDANYFLQMIGAPKELKFPNFKDRHSSDERTNAQVVRQYLKDLTRTERQLI
YDFYYLDYLMFNYTTPFL

TRTRPLE - GFP Tag - V

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).

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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_031422.2, NP_113610.2

RefSeq Size: 2219 bp

RefSeq ORF: 1332 bp

Locus ID: 83539

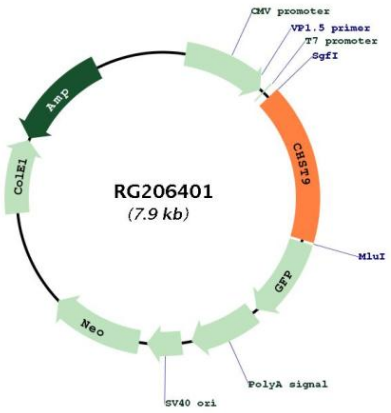
UniProt ID: Q7L1S5

Cytogenetics: 18q11.2

Protein Families: Transmembrane

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 RG206401

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