

Product datasheet for **RG229973**

Carbohydrate sulfotransferase 4 (CHST4) (NM_001166395) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carbohydrate sulfotransferase 4 (CHST4) (NM_001166395) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Carbohydrate sulfotransferase 4
Synonyms:	GlcNAc6ST2; GST3; HECGLCNAC6ST; LSST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG229973 representing NM_001166395 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTACTGCCTAAAAAATGAAGCTCCTGCTGTTTCTGGTTTCCAGATGGCCATCTTGCTCTATTCT
TCCACATGTACAGCCACAACATCAGCTCCCTGTCTATGAAGGCACAGCCGAGCGCATGCACGTGCTGGT
TCTGTCTTCTGGCGCTCTGGCTCTTCTTTGTGGGCAGCTTTTGGGCAGCACCCAGATGTTTTCTAC
CTGATGGAGCCCGCTGGCAGTGTGGATGACCTCAAGCAGAGCACCGCTGGATGCTGCACATGGCTG
TGCGGGATCTGATACGGGCGTCTTCTTGTGCGACATGAGCGTCTTGTATGCCTACATGGAACCTGGTCC
CCGGAGACAGTCCAGCCTCTTTCAGTGGGAGAACAGCCGGGCCCTGTGTTCTGCACCTGCCTGTGACATC
ATCCCACAAGATGAAATCATCCCCGGGCTCACTGCAGGCTCCTGTGCAGTCAACAGCCCTTTGAGGTGG
TGGAGAAGGCCTGCCGCTCCTACAGCCAGTGGTCTCAAGGAGGTGCGCTTCTTCAACCTGCAGTCCCT
CTACCCGCTGCTGAAAGACCCCTCCCTCAACCTGCATATCGTGCACCTGGTCCGGGACCCCGGGCCGTG
TTCCGTTCCCGAGAACGCACAAAGGGAGATCTCATGATTGACAGTCGCATTGTGATGGGGCAGCATGAGC
AAAACTCAAGAAGGAGGACCAACCTACTATGTGATGCAGGTCACTGCCAAAGCCAGCTGGAGATCTA
CAAGACCATCCAGTCTTGCCTAAGGCCCTGCAGGAACGCTACCTGCTTGTGCGCTATGAGGACCTGGCT
CGAGCCCTGTGGCCAGACTTCCGAAATGTATGAATTCGTGGGATTGGAATTCCTGCCCATCTTCAGA
CCTGGGTGCATAACATCACCCGAGGCAAGGGCATGGGTGACCACGCTTTCCACACAAATGCCAGGGATGC
CCTTAATGTCTCCAGGCTTGGCGCTGCTTTGCCCTATGAAAAGGTTTCTCGACTTCAGAAAGCTGT
GGCGATGCCATGAATTTGCTGGGCTACCGCCACGTGAGATCTGAACAAGAACAGAGAAACCTGTTGCTGG
ATCTTCTGTCTACCTGGACTGTCCCTGAGCAAATCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229973 representing NM_001166395
 Red=Cloning site Green=Tags(s)

MLLPKKMKLLFLVSMAILALFFHMYSHNISSLSMKAQPERMHVLVLSWRSGSSFVQQLFGQHPDVFY
 LMEPAWHVWMTFKQSTAWMLHMAVRDLIRAVFLCDMSVFDAYMEPGPRRQSSLFQWENSRALCSAPACDI
 IPQDEIIPRAHCRLLCSQQPFVEVKACRSYSHVVLKEVRFNQLSLYPLLKDPNLNHI VHLVRDPRAV
 FRSRERTKGDLMIDSRIVMGQHEQKLKEDQPYVVMQVICQSQLEIYKTIQSLPKALQERYLLVRYEDLA
 RAPVAQTSRMYEFVGLFPLHLQTWVHNI TRGKMGDHFHTNARDALNVSQAWRWSLPYEKVSRLQKAC
 GDAMNLLGYRHVRSEQEQRNLLDLLSTWTVPEQIH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001166395

ORF Size: 1158 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_001166395.2](#)

RefSeq Size: 2197 bp

RefSeq ORF: 1161 bp

Locus ID: 10164

UniProt ID: [Q8NCG5](#)

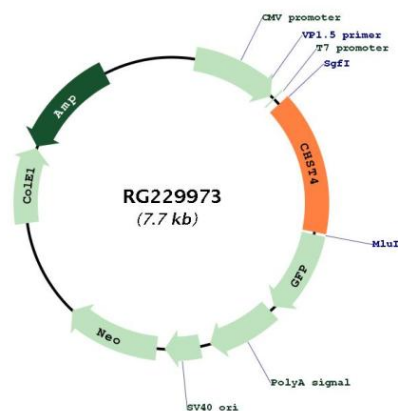
Cytogenetics: 16q22.2

Protein Families: Transmembrane

Protein Pathways: Keratan sulfate biosynthesis, Metabolic pathways

Gene Summary: This gene encodes an N-acetylglucosamine 6-O sulfotransferase. The encoded enzyme transfers sulfate from 3'phosphoadenosine 5'phospho-sulfate to the 6-hydroxyl group of N-acetylglucosamine on glycoproteins. This protein is localized to the Golgi and is involved in the modification of glycan structures on ligands of the lymphocyte homing receptor L-selectin. Alternate splicing in the 5' UTR results in multiple transcript variants that encode the same protein. [provided by RefSeq, Oct 2009]

Product images:



Circular map for RG229973