

Product datasheet for RC206533

Carbohydrate sulfotransferase 4 (CHST4) (NM_005769) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carbohydrate sulfotransferase 4 (CHST4) (NM_005769) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Carbohydrate sulfotransferase 4
Synonyms:	GlcNAc6ST2; GST3; HECGLCNAC6ST; LSST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206533 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCATCTTGGCTCTATTCTTCCACATGTACAGCCACAACATCAGCTCCCTGTCTATGAAGGCACAGC
CCGAGCGCATGCACGTGCTGGTTCTGTCTTCTGGCGCTCTGGCTCTCTTTTGTGGGCAGCTTTTGG
GCAGCACCCAGATGTTTTCTACCTGATGGAGCCCGCTGGCACGTGTGGATGACCTTCAAGCAGAGCACC
GCCTGGATGCTGCACATGGCTGTGCGGGATCTGATACGGCCGTCTTCTGTGCGACATGAGCGTCTTTG
ATGCCTACATGGAACCTGGTCCCGGAGACAGTCCAGCCTCTTTCAGTGGGAGAACAGCCGGGCCCTGTG
TTCTGCACCTGCCTGTGACATCATCCACAAAGATGAAATCATCCCCGGGCTCACTGCAGGCTCCTGTGC
AGTCAACAGCCCTTTGAGGTGGTGGAGAAGGCCTGCCGCTCTACAGCCACGTGGTGTCTCAAGGAGGTGC
GCTTCTTCAACCTGCAGTCCCTCTACCCGCTGCTGAAAGACCCCTCCCTCAACCTGCATATCGTGCACCT
GGTCCGGGACCCCGGGCCGTGTCCGTTCCCGAGAACGCACAAAGGGAGATCTCATGATTGACAGTCGC
ATTGTGATGGGGCAGCATGAGCAAAAATCAAGAAGGAGGACCAACCCTACTATGTGATGCAAGTCACT
GCCAAAGCCAGCTGGAGATCTACAAGACCATCCAGTCTTGCCTAAGGCCCTGCAGGAACGCTACCTGCT
TGTGCGCTATGAGGACCTGGCTCGAGCCCTGTGGCCAGACTTCCCGAATGTATGAATTCGTGGGATTG
GAATTCCTGCCCCATCTTACAGCTGGTGCATAACATCACCCAGGCAAGGGCATGGTGACCAGCTT
TCCACACAAATGCCAGGGATGCCCTTAATGTCTCCAGGCTTGGCGCTGGTCTTTGCCCTATGAAAAGGT
TTCTCGACTTCAGAAAGCCTGTGGCGATGCCATGAATTTGCTGGGCTACCGCCACGTCAGATCTGAACAA
GAACAGAGAAACCTGTTGCTGGATCTTCTGTCTACCTGGACTGTCCCTGAGCAAATCCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206533 protein sequence
 Red=Cloning site Green=Tags(s)

MAILALFFHMYSHNISSLSMKAQPERMHVLVLSWRSGSSFVQQLFGQHPDVFYLMPEAWHVWMTFKQST
 AWMLHMAVRDLIRAVFLCDMSVFDAYMEPGRRQSSLFQWENSRALCSAPACDIIPQDEIIPRAHCRLLC
 SQQPFVEVEKACRSYSHVVLKEVRFNQLSLYPLLKDPNLNLHI VHLVRDPRAVFRSRERTKGDLMIDSR
 IVMGQHEQKLKEDQPYVYMQVICQSLEIYKTIQSLPKALQERYLLVRYEDLARAPVAQTSRMYEFVGL
 EFLPHLQTWVHNI TRKGMGDHAFHTNARDALNVSQAWRWSLPYEKVSRLQKACGDAMNLLGYRHRVSEQ
 EQRNLLLDLLSTWVPEQIH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_005769

ORF Size: 1110 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_005769.2](#)

RefSeq Size: 2145 bp

RefSeq ORF: 1161 bp

Locus ID: 10164

UniProt ID: [Q8NCG5](#)

Cytogenetics: 16q22.2

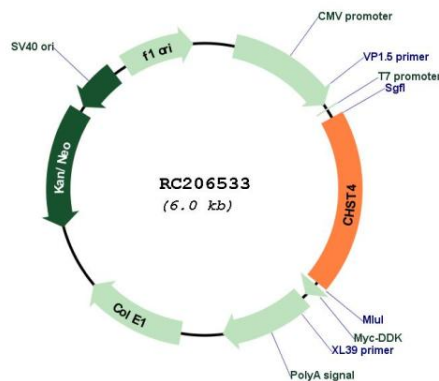
Protein Families: Transmembrane

Protein Pathways: Keratan sulfate biosynthesis, Metabolic pathways

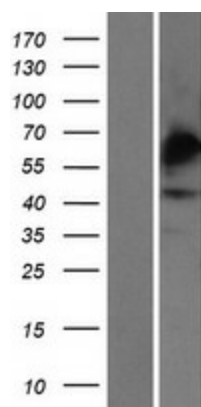
MW: 43.2 kDa

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 RC206533



Western blot validation of overexpression lysate (Cat# [LY417060]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206533 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).