OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC229973

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:	Myc-DDK
Symbol:	CHST4
Synonyms:	GlcNAc6ST2; GST3; HECGLCNAC6ST; LSST
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC229973 representing NM_001166395 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTACTGCCTAAAAAAATGAAGCTCCTGCTGTTTCTGGTTTCCCAGATGGCCATCTTGGCTCTATTCT
TCCACATGTACAGCCACAACATCAGCTCCCTGTCTATGAAGGCACAGCCCGAGCGCATGCACGTGCTGGT
TCTGTCTTCCTGGCGCTCTGGCTCTTCTTTTGTGGGGCAGCTTTTTGGGCAGCACCCAGATGTTTTCTAC
CTGATGGAGCCCGCCTGGCACGTGTGGATGACCTTCAAGCAGAGCACCGCCTGGATGCTGCACATGGCTG
TGCGGGATCTGATACGGGCCGTCTTCTTGTGCGACATGAGCGTCTTTGATGCCTACATGGAACCTGGTCC
CCGGAGACAGTCCAGCCTCTTTCAGTGGGAGAACAGCCGGGCCCTGTGTTCTGCACCTGCCTGTGACATC
ATCCCACAAGATGAAATCATCCCCCGGGCTCACTGCAGGCTCCTGTGCAGTCAACAGCCCTTTGAGGTGG
TGGAGAAGGCCTGCCGCTCCTACAGCCACGTGGTGCTCAAGGAGGTGCGCTTCTTCAACCTGCAGTCCCT
CTACCCGCTGCTGAAAGACCCCTCCCTCAACCTGCATATCGTGCACCTGGTCCGGGACCCCCGGGCCGTG
TTCCGTTCCCGAGAACGCACAAAGGGAGATCTCATGATTGACAGTCGCATTGTGATGGGGCAGCATGAGC
AAAAACTCAAGAAGGAGGACCAACCCTACTATGTGATGCAGGTCATCTGCCAAAGCCAGCTGGAGATCTA
CAAGACCATCCAGTCCTTGCCCAAGGCCCTGCAGGAACGCTACCTGCTTGTGCGCTATGAGGACCTGGCT
CGAGCCCCTGTGGCCCAGACTTCCCGAATGTATGAATTCGTGGGATTGGAATTCTTGCCCCATCTTCAGA
CCTGGGTGCATAACATCACCCGAGGCAAGGGCATGGGTGACCACGCTTTCCACACAAATGCCAGGGATGC
CCTTAATGTCTCCCAGGCTTGGCGCTGGTCTTTGCCCTATGAAAAGGTTTCTCGACTTCAGAAAGCCTGT
GGCGATGCCATGAATTTGCTGGGCTACCGCCACGTCAGATCTGAACAAGAACAGAGAAACCTGTTGCTGG
ATCTTCTGTCTACCTGGACTGTCCCTGAGCAAATCCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

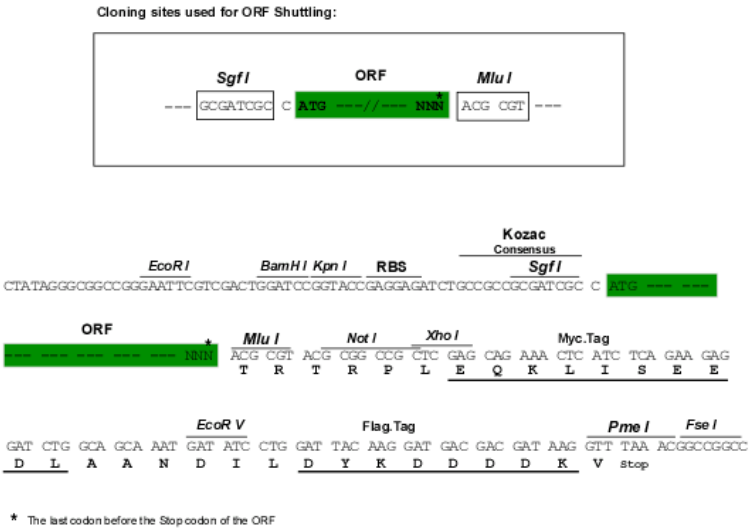
>RC229973 representing NM_001166395
Red=Cloning site Green=Tags(s)

MLLPKKMKLLLFLVSQMAILALFFHMYSHNISSLSMKAQPERMHVLVLSSWRSGSSFVGQLFGQHPDVFY
LMEPAWHVWMTFKQSTAWMLHMAVRDLIRAVFLCDMSVFDAYMEPGPRRQSSLFQWENSRALCSAPACDI
IPQDEIIPRAHCRLLCSQQPFEVVEKACRSYSHVVLKEVRFFNLQSLYPLLKDPSLNLHIVHLVRDPRAV
FRSRERTKGDLMIDSRIVMGQHEQKLKKEDQPYYVMQVICQSQLEIYKTIQSLPKALQERYLLVRYEDLA
RAPVAQTSRMYEFVGLEFLPHLQTWVHNITRGKGMGDHAFHTNARDALNVSQAWRWSLPYEKVSRLQKAC
GDAMNLLGYRHVRSEQEQRNLLLDLLSTWTVPEQIH

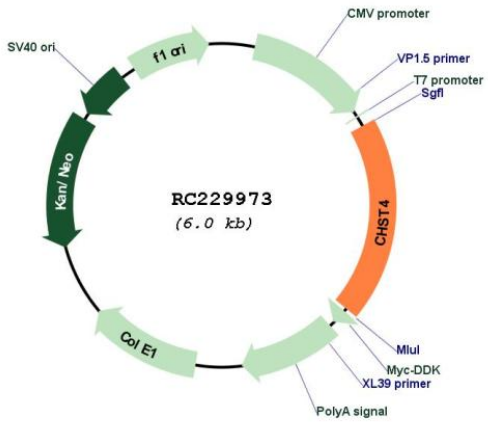
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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
MW:	45.1 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]