

## Product datasheet for **RG206533**

### 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:	TurboGFP
Symbol:	CHST4
Synonyms:	GlcNAc6ST2; GST3; HECGLCNAC6ST; LSST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206533 representing NM_005769 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTACTGCCTAAAAAATGAAGCTCCTGCTGTTTCTGGTTTCCCAGATGGCCATCTTGGCTCTATTCT  
TCCACATGTACAGCCACAACATCAGCTCCCTGTCTATGAAGGCACAGCCCAGCGCATGCACGTGCTGGT  
TCTGTCTTCTGGCGCTCTGGCTCTTCTTTGTGGGCAGCTTTTGGGCAGCACCCAGATGTTTTCTAC  
CTGATGGAGCCCCTGGCAGTGTGGATGACCTCAAGCAGAGCACCGCCTGGATGCTGCACATGGCTG  
TGCGGGATCTGATACGGGCGTCTTCTTGTGCGACATGAGCGTCTTTGATGCCTACATGGAACCTGGTCC  
CCGGAGACAGTCCAGCCTCTTTCAGTGGGAGAACAGCCGGGCCCTGTGTTCTGCACCTGCCTGTGACATC  
ATCCCACAAGATGAAATCATCCCCGGGCTCACTGCAGGCTCCTGTGCAGTCAACAGCCCTTTGAGGTGG  
TGGAGAAGGCCTGCCGCTCCTACAGCCAGTGGTCTCAAGGAGGTGCGCTTCTTCAACCTGCAGTCCCT  
CTACCCGCTGCTGAAAGACCCCTCCCTCAACCTGCATATCGTGCACCTGGTCCGGGACCCCGGGCCGTG  
TTCCGTTCCCGAGAACGCACAAAGGGAGATCTCATGATTGACAGTCGCATTGTGATGGGGCAGCATGAGC  
AGAAACTCAAGAAGGAGGACCAACCCTACTATGTGATGCAGGTCTCTGCCAAAGCCAGCTGGAGATCTA  
CAAGACCATCCAGTCTTGCCAAGGCCCTGCAGGAACGCTACCTGCTTGTGCGCTATGAGGACCTGGCT  
CGAGCCCCTGTGGCCAGACTTCCGAAATGTATGAATTCGTGGGATTGGAATTCCTGCCCATCTTCAGA  
CCTGGGTGCATAACATCACCCGAGGCAAGGGCATGGGTGACCACGCTTTCCACACAAATGCCAGGGATGC  
CCTTAATGTCTCCAGGCTTGGCGCTGGTCTTGGCCATGAAAAGGTTTCTCGACTTCAGAAAGCCTGT  
GGCGATGCCATGAATTTGCTGGGCTACCGCCAGTCTGAGTCTGAACAAGAACAGAGAAACCTGTTGCTGG  
ATCTTCTGTCTACCTGGACTGTCCCTGAGCAAATCCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206533 representing NM\_005769  
 Red=Cloning site Green=Tags(s)

MLLPKKMKLLFLVSQLAILALFFHMYSHNISSLSMKAQPERMHVLVLSWRSGSSFVQQLFGQHPDVFY  
 LMEPAWHVWMTFKQSTAWMLHMAVRDLIRAVFLCDMSVFDAYMEPGPRRQSSLFQWENSRALCSAPACDI  
 IPQDEIIPRAHCRLLCSQQPFVEVKACRSYSHVVLKEVRFNQLSLYPLLKDPNLNHLIHLVRDPRAV  
 FRSRERTKGDLMIDSRIVMGQHEQKLKEDQPYVVMQVICQSQLEIYKTIQSLPKALQERYLLVRYEDLA  
 RAPVAQTSRMYEFVGLFLPHLQTWVHNI TRKGMDHAFHTNARDALNVSQAWRWSLPYEKVSRLQKAC  
 GDAMNLLGYRHRVSEQEQRNLLDLLSTWTVPEQIH

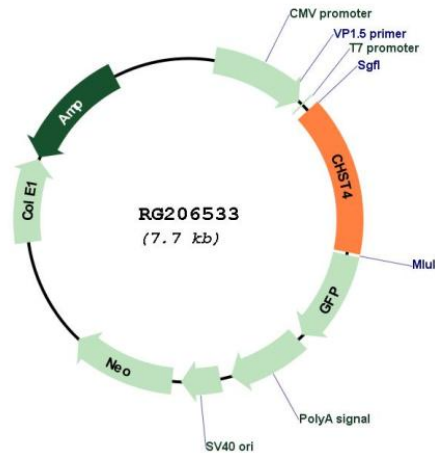
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_005769

<b>ORF Size:</b>	1158 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_005769.1</a> , <a href="#">NP_005760.1</a>
<b>RefSeq Size:</b>	2032 bp
<b>RefSeq ORF:</b>	1161 bp
<b>Locus ID:</b>	10164
<b>UniProt ID:</b>	<a href="#">Q8NCG5</a>
<b>Cytogenetics:</b>	16q22.2
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Keratan sulfate biosynthesis, Metabolic pathways
<b>Gene Summary:</b>	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]