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Product datasheet for SC117840

Carbohydrate sulfotransferase 1 (CHST1) (NM_003654) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carbohydrate sulfotransferase 1 (CHST1) (NM_003654) Human Untagged Clone
Tag:	Tag Free
Symbol:	Carbohydrate sulfotransferase 1
Synonyms:	C6ST; GST-1; KS6ST; KSGal6ST; KSST
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_003654, the custom clone sequence may differ by one or more nucleotides

ATGCAATGTTCCTGGAAGGCCGTCCTCCTCCTTGCCCTGGCCTCCATTGCCATCCAGTACACGGCCATCC
GCACCTTCACCGCCAAGTCCTTTCACACCTGCCCCGGGCTGGCAGAGGCCGGGCTGGCCGAGCGACTGTG
CGAGGAGAGCCCCACCTTCGCCTACAACCTCTCCCGCAAGACCCACATCCTCATCCTGGCCACCACGCGC
AGTGGCTCCTCCTTCGTGGGCCAGCTCTTCAACCAGCACCTGGACGTCTTCTACCTGTTTGAGCCCCTCT
ACCACGTCCAGAACACGCTCATCCCCCGCTTCACCCAGGGCAAGAGCCCGGCCGACCGGCGGGTCATGCT
AGGCGCCAGCCGCGACCTCCTGCGGAGCCTCTACGACTGCGACCTCTACTTCCTGGAGAACTACATCAAG
CCGCCGCCGGTCAACCACACCACCGACAGGATCTTCCGCCGCGGGGCCAGCCGGGTCCTCTGCTCCCGGC
CTGTGTGCGACCCTCCGGGGCCAGCCGACCTGGTCCTGGAGGAGGGGGACTGTGTGCGCAAGTGCGGGCT
ACTCAACCTGACCGTGGCGGCCGAGGCGTGCCGCGAGCGCAGCCACGTGGCCATCAAGACGGTGCGCGTG
CCCGAGGTGAACGACCTGCGCGCCCTGGTGGAAGACCCGCGATTAAACCTCAAGGTCATCCAGCTGGTCC
GAGACCCCCGCGGCATTCTGGCTTCGCGCAGCGAGACCTTCCGCGACACGTACCGGCTCTGGCGGCTCTG
GTACGGCACCGGGAGGAAACCCTACAACCTGGACGTGACGCAGCTGACCACGGTGTGCGAGGACTTCTCC
AACTCCGTGTCCACCGGCCTCATGCGGCCCCCGTGGCTCAAGGGCAAGTACATGTTGGTGCGCTACGAGG
ACCTGGCTCGGAACCCTATGAAGAAGACCGAGGAGATCTACGGGTTCCTGGGCATCCCGCTGGACAGCCA
CGTGGCCCGCTGGATCCAGAACAACACGCGGGGCGACCCCACCCTGGGCAAGCACAAATACGGCACCGTG
CGAAACTCGGCGGCCACGGCCGAGAAGTGGCGCTTCCGCCTCTCCTACGACATCGTGGCCTTTGCCCAGA
ACGCCTGCCAGCAGGTGCTGGCCCAGCTGGGCTACAAGATCGCCGCCTCGGAGGAGGAGCTGAAGAACCC
CTCGGTCAGCCTGGTGGAGGAGCGGGACTTCCGCCCCTTCTCGTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003654 unedited
CAGAATTTGTATACGACTTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGGCGCGCGC
GGAGTCGGAGGAAGAGGAGGGAGGAGGGAGGCCGAGGAGGAGGGCGCGGGAGGCGGAGGA
TGCCGCCGCGGCTGCTGCCGCCGCCGCCACCCGCGGGTCCCCGGCGACCCTGACTCCAGA
CCCGAGGATGGAGCCGGCGCTGGGCGCTGCAGCTGCTCCCGGCGCGTCCCCGACCAGGTA
GCTGGTGTCACTTCGGTGTGGTTGGAAGAAGACTTTCTCCCCAGCTGCATTCCCGGAGGC
GCCCTTTCGACCTGGAGGCCGGGTCTGCTGGCCACAGGGCTGCCGCACTGGCTGGGACTG
CCAGCTGGGCCTGGAGACGCTGGTGGCTGTGGACTCCCCAGCTTGGAGCAGTCCCTCTTT
GACCTCACCCCTTGGAGAAGCAGCCCCATGAAGGTGCCCAGCCATGCAATGTTCCTGGAA
GGCCGTCCTCCTCCTTGCCCTGGCCTCCATTGCCATCCAGTACACGGCCATCCGCACCTT
CACCGCCAAGTCCTTTCACACCTGCCCCGGGCTGGCAGAGGCCGGGCTGGCCGAGCGACT
GTGCGAGGAGAGCCCCACCTTCGCCTACAACCTCTCCCGCAAGACCCACATCCTCATCCT
GGCCACCACGCGCAGTGGCTCCTCCTTCGTGGGCCAGCTCTTCAACCAGCACCTGGACGT
CTTCTACCTGTTTGAGCCCCTCTACCACGTNCAGAACACGCTCATCCCCCGCTTCACCCA
GGGCAAGAGCCCGGCCGACCGGCGGGTCATGCTANGCGCCAGCCGCGACCTCCTGCGGAG
CCTCTACGACTGCGACCTCTACTTCCTGGAGAACTACATCAAGCCGNCGNCGGGTCACCA
CACCACCGACAGGATCTTNCGNCGCGGGGCCAGCCGGGTCTCTGCTCCGGCCTGGTGCGA
CCCTCGGGCACAGCTGTNNNTTTNGTGGAGGAGGGGACTGTGGCCN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003654 unedited
TGCTTTTTATTACAGNAAACACAGNTAAAGCATTTCAATTTCAATGTTCATTTAGCAAAC
TGATCCACTCTTTTTTTTTCTTTTTGGCACAAAGAAATATCACAGATGGACCCCGAGATC
AATCAGAAGCTCATAAGATTCATCAGTCATCACTGGTCCAGGGGCGGCCACGAGACTCAG
ACAGACAGACAGCATCACCACAGACTGGAAACAGAAACAGGTCCACGTTCACCTCACAGT
AAAAACCTGCCTCACCGACAGGCAAGGGCGGGCAGGAGGGGGCAGTTTCGCTGCTCTAAG
GGGGGAAATGGGCGTCAGGGGCAGGAGGCAGGGATGGGGAAAGGATGGACACCATTCATA
AATTAGAGACAAGTGGTCCTCTTGTTTGTATCCTCTTACCTTGAATAGTAAGACAGTGCA
AAAACTAGATACCCGACCACTCACCCATTCAAAAGCTTGAGAAGTCGCCTCGCGAGTGCC
CGTGTGCGTGTGTGGATGTGTAAATGTGGTGCTTGTAAACATTGTCACCGTCCGCACAGA
GACCCAACATCCATGTGTCTGAATGGGGTGGGGGGGGGCGGGACCCTACTTCAGGCGCCC
TCTGCCCCAGTGATTCCCGTCCAAGACGTAGTGCAAATTTCAGAGACAAAAAAGGGGCAN
AAGGGAGTGGGGTGAGCTGGGGGCAGGAAGGACACGAAGATGATGTGGGAGAGGGAGGGG
TTAATAAGGCAACAGTTAAAAACGGTCCATTTTATCAAAACCCGACACTTGCGCCNTCCG
NCCNCACCCGNACCGNCCGGGTCACGAGAAGGGGCGGNAGTNCCGCTCCTCCACCAGCTG
ACCGAGGGGTTCTTCAGCTCCTCCTCCGAAGCGGCGATCTTGTAGCCCANTTGGCCCGCA
CCTGCTGGCAGGCGTCTTGGCAAAGCCACATGTCGAGGAGAGGCGGAGCGCCATTTTCGG
CGTGGCCGCGAGTTTCACGGGCCGCATTGGCTGCCCAGGTGGG

Restriction Sites: NotI-NotI

ACCN: NM_003654

Insert Size: 2660 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_003654.2, NP_003645.1
RefSeq Size:	2734 bp
RefSeq ORF:	1236 bp
Locus ID:	8534
UniProt ID:	O43916
Cytogenetics:	11p11.2
Domains:	Sulfotransfer
Protein Families:	Transmembrane
Protein Pathways:	Keratan sulfate biosynthesis, Metabolic pathways
Gene Summary:	This locus encodes a member of the keratin sulfotransferase family of proteins. The encoded enzyme catalyzes the sulfation of the proteoglycan keratin. [provided by RefSeq, Aug 2011]