

Product datasheet for SC117100

CHST10 (NM_004854) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHST10 (NM_004854) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHST10
Synonyms:	HNK-1ST; HNK1ST
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117100 sequence for NM_004854 edited (data generated by NextGen Sequencing)

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ATGCACCACCACTGGCTTCTGCTGGCCGATGCTTTTGGGTGATTTTCATGTTTCATGGTG
GCTAGCAAGTTTCATCACGTTGACCTTTAAAGACCCAGATGTGTACAGTGCCAAACAGGAG
TTTCTGTTCTGACAACCATGCCGGAAGTGAGGAAGTTGCCAGAAGAGAAGCACATTCCT
GAGGAACTGAAGCCAACCTGGGAAGGAGCTTCCAGACAGCCAGCTCGTTCAGCCCCTGGTC
TACATGGAGCGCCTGGAACCTCATCAGAAACGTCTGCAGGGATGATGCCCTGAAGAATCTC
TCGCACACTCCTGTCTCCAAGTTTGTCTGGACCGAATATTTGTCTGTGACAAGCACAAG
ATTCTTTTCTGCCAGACTCCCAAAGTGGGCAACACCCAGTGAAGAAAGTCTGATTGTT
CTAAATGGAGCATTTTCTCCATTGAGGAGATCCCGAAAACGTGGTGCACGACCACGAG
AAGAACCGCCTTCTCGGCTCTCTTCTTCAGTGATGCAGAAATTCAGAAGCGATTGAAA
ACATACTCAAGTTTTTTATTGTAAGAGATCCCTTCGAAAGACTTATTTCTGCATTTAAG
GATAAATTTGTTCAATCCCGGTTTTGAGCCTTGGTACAGGCATGAGATTGCTCCTGGC
ATCATCAGAAAATACAGGAGGAACCGGACAGAGACCCGGGGGATCCAGTTTGAAGATTT
GTGCGCTACCTCGGCGATCCGAACCACAGATGGCTAGACCTTCAGTTTGGGGACCACATC
ATCACTGGGTGACGTATGTAGAGCTCTGTGCTCCCTGTGAGATAATGTACAGTGTGATT
GGACACCACGAGACCCTGGAGGACGATGCCCCATACATCTTAAAAGAGGCTGGCATTGAC
CACCTGGTGTACATCCCGACTATCCCTCCGGGCATTACCGTGTATAACAGAACCAAGGTG
GAGCACTATTTCTGGGCATCAGCAAACGAGACATCCGACGCCTGTATGCCCGTTTCGAA
GGGGACTTAAAGTCTTTGGGTACCAGAAACAGACTTTTTGCTAAACTAA

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Clone variation with respect to NM_004854.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004854 unedited
 TGTTGNCATTTGTATACGACTACTATAGGGCGGCCGGAATTCGCACGAGGCGAGCTCC
 CAGGACCCCGCGCTTCGCCACGGCCCGGCGAAGCCCGACCCGCGCGGCCCCAGG
 GCCAGGGGAGGAGCCTAAGGACCCGGACGAGCGCCGCTCCAGTAGGTGACAAGAGGAACC
 AAGAACCTCAGTTCAGGGGAAACACAGCAAGGAAATGTGAGCCCCAGGCTGCAGAAGGAA
 GAGTCAGTGAATGGCTGCGGTGTGACAACATGCACCACCAGTGGCTTCTGCTGGCCGAT
 GCTTTTGGGTGATTTTCATGTTTCATGGTGGCTAGCAAGTTCATCACGTTGACCTTTAAAG
 ACCCAGATGTGTACAGTGCCAAACAGGAGTTTCTGTTCCCTGACAACCATGCCGGAAGTGA
 GGAAGTTGCCAGAAGAGAAGCACATTCCCTGAGGAACTGAAGCCTGGAAGGAGCTTC
 CAGACAGCCAGCTCGTTCAGCCCCTGGTCTACATGGAGCGCTGGAATCATCAGAAAACG
 TCTGCAGGGATGATGCCCTGAAGAATCTCTCGCACACTCCTGTCTCCAAGTTTGTCTGG
 ACCGAATATTTGTCTGTGACAAGCACAAAGATTCTTTTCTGCCAGACTCCCAAAGTGGCA
 ACACCCAGTGAAGAAAGTGTGATTGTTCTAAATGGAGCATTTTCTCCATTGAGGAGA
 TCCCCGAAAACGTGGTGCACGACCACGAGAAGAACGGCCTTCCCTGGCTCTCTTCTTCA
 GTGATGCAGAAATTCAGAAGCGATTGAAAACACTTCAAGNTTTTATTGAANGAAGACC
 CCTTCGAAGACTATTTCTGCATTTAAGGATAAATTTGTTACATCCCCCGNTTGACCCT
 TGGTACGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004854 unedited
 GCCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTTTGGCACATAAATTTTATTTAAC
 TTTTACATTGACACAATCAGGAAACCATTCTGAGAAAAGGTAGAGGCCGCTTGAAGCGA
 AGCCTGGCTCCCTCCACCCCGGCTCGGCGGCACCATGCAGGCTCAGGCTGGCACTC
 ATCCCAGGAAACTGTCCCAGTTCTCAGCGTCTGGCTGTGGACGGTATCTGAAATGGTC
 GCTGCGGCTTGCCTGCACCAGGCTACCTTGTGCCAGGAAGCCGACTGCTGGAGGC
 TACCTGGGCGCTGGTTTTATTGCTGGTGAACCTGGTTACCCACCTTCCAGTCACATGGT
 CCAGGATGGTGGTGTGATCAGAAATGGCTCTGGCAGTGCCATTTTGTGAGATGAAAGG
 AATCGAAATGTATAAACTACACTGAATCTGTGATGCTGGCAGTTGCCCTGCTCGTCT
 TCAGCCCCAACATGGGAGCTCCCTGGAGAAGACAGGTGGAGATTCAGTGTGCCACCCA
 GGTAAGGCAAGTCAGAACTGATGCGCCGGATCCACAGCAGCCTGAGCTCCAAGCCCAAC
 CAGCGCCCCCATTCCTGGGCCATGGTCTTTTAAGGCCCTCAAAGACACTCCCCTTCTCA
 GGTAGAAAAGCCTNCCCTCCCTACCTTCTAAATCGTATGTCTTGTGCTGAATGAATAN
 GCGCCTGGCAGACACAGGTTTCAAGAAGCATGGACCAGCATTACACAGGCATGGATTCTGGA
 AGATAGACCCCTGGACACACACCACCTCTGCCATCGCTGACTGTCTACAGGAACAATAG
 TCCAGAAAGATGGCTTGNCTCCACATGTCGCACACCAAAATGGGCCANNAGTGCCGTTTA
 CTCCTAGATCTGAGCTGCAAAGCTCTGGGATTAACAGCCCTTGTCTTGTCTCTCTCAA
 GTCTGGGGGCTGTCTGCACCACACGGATGGGAAACC

Restriction Sites:

NotI-NotI

ACCN:

NM_004854

Insert Size:

2800 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_004854.3](#), [NP_004845.1](#)

RefSeq Size: 2815 bp

RefSeq ORF: 1071 bp

Locus ID: 9486

UniProt ID: [O43529](#)

Cytogenetics: 2q11.2

Domains: Sulfotransfer2

Protein Families: Transmembrane

Gene Summary: This protein encoded by this gene transfers sulfate to the C-3 hydroxyl of terminal glucuronic acid of protein- and lipid-linked oligosaccharides. This protein was first identified as a sulfotransferase that acts on the human natural killer-1 (HNK-1) glycan; HNK-1 is a carbohydrate involved in neurodevelopment and synaptic plasticity.[provided by RefSeq, Feb 2011]