

Product datasheet for RC203793

CHST10 (NM_004854) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHST10 (NM_004854) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CHST10
Synonyms:	HNK-1ST; HNK1ST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203793 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCACCACCAAGTGGCTTCTGCTGGCCGCATGCTTTGGGTGATTTTCATGTTTCATGGTGGCTAGCAAGT
TCATCACGTTGACCTTTAAAGACCCAGATGTGTACAGTGCCAAACAGGAGTTTCTGTTCTGACAACCAT
GCCGGAAGTGAGGAAGTTGCCAGAAGAGAAGCACATTCTGAGGAACTGAAGCCAACTGGGAAGGAGCTT
CCAGACAGCCAGCTCGTTCAGCCCCTGGTCTACATGGAGCGCCTGGAACATCAGAAACGTCTGCAGGG
ATGATGCCCTGAAGAATCTCTCGCACACTCCTGTCTCCAAGTTTGTCTGGACCGAATATTTGTCTGTGA
CAAGCACAAAGATTCTTTTCTGCCAGACTCCCAAAGTGGGCAACACCCAGTGAAGAAAGTCTGATTGTT
CTAAATGGAGCATTTTCTTCCATTGAGGAGATCCCGAAAACGTGGTGCACGACCACGAGAAGAACGGCC
TTCTCGGCTCTCTTCTTCAAGTATGCAGAAATTCAGAAAGCGATTGAAAACATACTTCAAGTTTTTAT
TGTAAGAGATCCCTTCGAAAGACTTATTTCTGCATTTAAGGATAAATTTGTTTCAATCCCCGGTTTGAG
CCTTGGTACAGGCATGAGATTGCTCCTGGCATCATCAGAAAATACAGGAGGAACCGGACAGAGACGCGGG
GGATCCAGTTTGAAGATTTCTGTCGCTACCTCGGCGATCCGAACACAGATGGCTAGACCTTCAGTTTGG
GGACCACATCATTCACTGGGTGACGTATGTAGAGCTCTGTCTCCCTGTGAGATAATGTACAGTGTGATT
GGACACCAGAGACCCTGGAGGACGATGCCCATACATCTTAAAGAGGCTGGCATTGACCACCTGGTGT
CATACCGACTATCCCTCCGGGCATTACCGTGTATAACAGAACCAAGGTGGAGCACTATTTCTGGGCAT
CAGCAAACGAGACATCCGACGCTGTATGCCCGTTTCGAAGGGGACTTTAAGCTCTTTGGTACCAGAAA
CCAGACTTTTTGCTAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC203793 protein sequence
Red=Cloning site Green=Tags(s)

MHHQWLLLAACFWVIFMFMVASKFITLTFKDPDVYSAKQEFLFLTTMPEVRKLPEEKHIPEELKPTGKEL
 PDSQLVQPLVYMERLELIRNVCRDDALKNLSHTPVSKFVLDRIFCQTPKVGNTQWKKVLIV
 LNGAFSSIEEIPENVVHDHEKNGLPRLSSFDAEIQKRLKTYKFFIVRDPFERLISAFKDKFVHNPRFE
 PWYRHEIAPGIIRKYRRNRTETRGIQFEDFVRYLGDPNHRWLDLQFGDHIHVVTVYVELCAPCEIMYSVI
 GHHETLEDDAPYILKEAGIDHLVSYPTIPPGITYVNRKVEHYFLGISKRDIRRLYARFEGDFKLFYQK
 PDFLLN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6302_h06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004854

ORF Size: 1068 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_004854.2](#)

RefSeq Size: 2872 bp

RefSeq ORF: 1071 bp

Locus ID: 9486

UniProt ID: [O43529](#)

Cytogenetics: 2q11.2

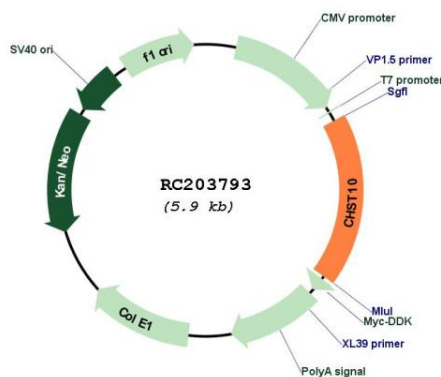
Domains: Sulfotransfer2

Protein Families: Transmembrane

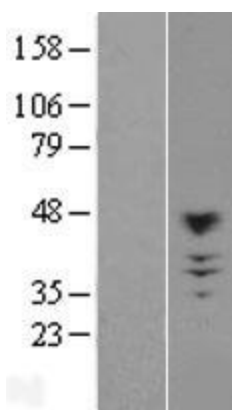
MW: 42.2 kDa

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]

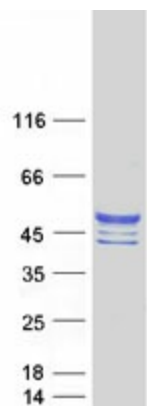
Product images:



Circular map for RC203793



Western blot validation of overexpression lysate (Cat# [LY417701]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203793 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CHST10 protein (Cat# [TP303793]). The protein was produced from HEK293T cells transfected with CHST10 cDNA clone (Cat# RC203793) using MegaTran 2.0 (Cat# [TT210002]).