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Product datasheet for RG203793

CHST10 (NM_004854) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHST10 (NM_004854) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHST10
Synonyms:	HNK-1ST; HNK1ST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG203793 representing NM_004854
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCACCACCAGTGGCTTCTGCTGGCCGCATGCTTTTGGGTGATTTTCATGTTCATGGTGGCTAGCAAGT
TCATCACGTTGACCTTTAAAGACCCAGATGTGTACAGTGCCAAACAGGAGTTTCTGTTCCTGACAACCAT
GCCGGAAGTGAGGAAGTTGCCAGAAGAGAAGCACATTCCTGAGGAACTGAAGCCAACTGGGAAGGAGCTT
CCAGACAGCCAGCTCGTTCAGCCCCTGGTCTACATGGAGCGCCTGGAACTCATCAGAAACGTCTGCAGGG
ATGATGCCCTGAAGAATCTCTCGCACACTCCTGTCTCCAAGTTTGTCCTGGACCGAATATTTGTCTGTGA
CAAGCACAAGATTCTTTTCTGCCAGACTCCCAAAGTGGGCAACACCCAGTGGAAGAAAGTGCTGATTGTT
CTAAATGGAGCATTTTCTTCCATTGAGGAGATCCCCGAAAACGTGGTGCACGACCACGAGAAGAACGGCC
TTCCTCGGCTCTCTTCCTTCAGTGATGCAGAAATTCAGAAGCGATTGAAAACATACTTCAAGTTTTTTAT
TGTAAGAGATCCCTTCGAAAGACTTATTTCTGCATTTAAGGATAAATTTGTTCACAATCCCCGGTTTGAG
CCTTGGTACAGGCATGAGATTGCTCCTGGCATCATCAGAAAATACAGGAGGAACCGGACAGAGACGCGGG
GGATCCAGTTTGAAGATTTCGTGCGCTACCTCGGCGATCCGAACCACAGATGGCTAGACCTTCAGTTTGG
GGACCACATCATTCACTGGGTGACGTATGTAGAGCTCTGTGCTCCCTGTGAGATAATGTACAGTGTGATT
GGACACCACGAGACCCTGGAGGACGATGCCCCATACATCTTAAAAGAGGCTGGCATTGACCACCTGGTGT
CATACCCGACTATCCCTCCGGGCATTACCGTGTATAACAGAACCAAGGTGGAGCACTATTTCCTGGGCAT
CAGCAAACGAGACATCCGACGCCTGTATGCCCGTTTCGAAGGGGACTTTAAGCTCTTTGGGTACCAGAAA
CCAGACTTTTTGCTAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

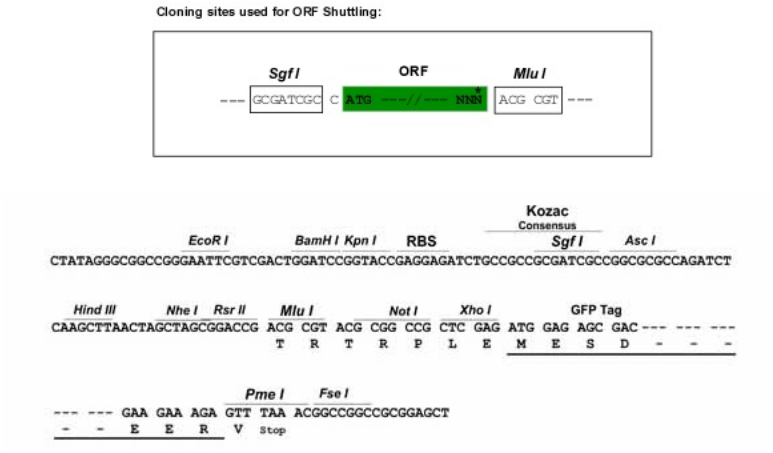
>RG203793 representing NM_004854
Red=Cloning site Green=Tags(s)

MHHQWLLLAACFWVIFMFMVASKFITLTFKDPDVYSAKQEFLFLTTMPEVRKLPEEKHIPEELKPTGKEL
PDSQLVQPLVYMERLELIRNVCRDDALKNLSHTPVSKFVLDRIFVCDKHKILFCQTPKVGNTQWKKVLIV
LNGAFSSIEEIPENVVHDHEKNGLPRLSSFSDAEIQKRLKTYFKFFIVRDPFERLISAFKDKFVHNPRFE
PWYRHEIAPGIIRKYRRNRTETRGIQFEDFVRYLGDPNHRWLDLQFGDHIIHWVTYVELCAPCEIMYSVI
GHHETLEDDAPYILKEAGIDHLVSYPTIPPGITVYNRTKVEHYFLGISKRDIRRLYARFEGDFKLFGYQK
PDFLLN

TRTRPLE - GFP Tag - V

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).

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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: 2815 bp

RefSeq ORF: 1071 bp

Locus ID: 9486

UniProt ID: O43529

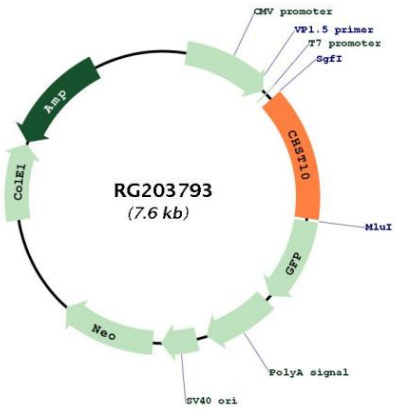
Cytogenetics: 2q11.2

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]

Product images:



Circular map for RG203793

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