

Product datasheet for MR217755

Chst10 (NM_145142) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Chst10 (NM_145142) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Chst10
Synonyms: A1507003; AU041319; Hnk-1st; ST
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR217755 representing NM_145142
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAAAATGTGAACCCATCAGGAAGGATCATCGAATGGCCCCTGTCTGACAACATGCACCATCAGTGGC
 TCCTGCTGGCTGCATGCTTTGGGTGATTTTCATGTTTCATGGTGGCCAGCAAGTTCATCACGTTGACCTT
 TAAGGATCCGGATGGGTATAGTCCAAACAGGAGTTTGTGTTCTGACGACCATGCCGGAAGCAGAGAAG
 CTAAAGAGGAGAGAAGCATTTTCTGAAGTCCCGAAGCCAACTGGGAAGATGCTTTTCGGACAGCCGCTCTG
 ATCAGCCCCGGTTTATCTGGAGCGGCTGGAGCTCATTAGAAACACCTGCAAGGAGGAGGCTCTGCGGAA
 CCTCTCACACACCGAGGTCTCGAAGTTCGTCCTGGATCGAATATTTGTCTGTGACAAGCACAAGATTCTT
 TTCTGTCAGACTCCCAAGGTGGCAACACCCAGTGAAGAAAGTCTGATCGTCCATAAATGGAGCATTTT
 CTTCCATTGAAGAGATTCTGAAAATGTAGTCCATGACCATGAGAAAAATGGCCTTCCACGCCTCTCTTC
 CTTCAGCAAAATAGGAATTCAGAAGCGATTGAAAACATACTTCAAGTTTTTTATTGTGAGAGATCCCTTT
 GAAAGACTGATTTCTGCCTTTAAGGATAAGTTTGTTCACAATCCTCGATTTCGAGCCTTGGTACAGGCATG
 AGATAGCCCCAGGCATTATTAGAAAGTACCGGAAGAACCGGACAGAGACCCGGGGATCCAGTTTGAAGA
 TTTTGTGCGCTACCTGGGTGATCCAACCGCAGGTGGTTAGACCTTCAGTTTGGGGACCATATCATCCAC
 TGGGTGACCTACGTTGAACCTCTGTGCGCCCTGTGAGATCAAGTACAGTGTGGTCCGACACCATGAGACCC
 TGGAGGCAGATGCCCGTACATCCTGAAAAGAAGCTGGCATAGACCATCTGGTGTCAATCCCAACCATCCC
 TCCGGGCATCACCATGTACAACAGAACCAAGGTAGAACAGTACTTCTGGGCATCAGCAACGAGACATC
 CGGCGTCTCTATGCCCGCTTTGAAGGGACTTCAAGCTCTTTGGGTATCAGAAACAGATTTCTTGTCTAA
 AT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR217755 representing NM_145142
Red=Cloning site Green=Tags(s)

MENVNPSGRIIEWPLSDNMHHQWLLAACFVWIFMFMVASKFITLTFKDPDGYSAKQEFVFLTTMPEAEK
 LRGEKHFPEVPKPTGKMLSDSRPDQPPVYLERLELIRNTCKEEALRNLSHTEVSKFVLDRI FVCDKHKIL
 FCQTPKVGNTQWKVLI VLN GAFSSIEEIPENVVHDHEKNGLPRLSSFSKIGIQKRLKTYKFFIVRDPF
 ERLISAFKDKFVHNPRFEPWYRHEIAPGIRKYRKNRTETRGIQFEDFVRYLGDPNRRWLDLQFGDHIH
 WVTYVELCAPCEIKYSVVGHHETLEADAPYILKEAGIDHLVSYPTIPPGITMYNRKVEQYFLGISKRDI
 RRLYARFEGDFKLFQYQKPDFLLN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9019_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145142

ORF Size: 1122 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_145142.2](#), [NP_660124.2](#)

RefSeq Size: 3135 bp

RefSeq ORF: 1125 bp

Locus ID: 98388

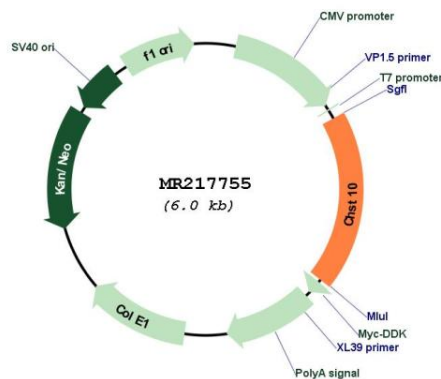
UniProt ID: [Q6PGK7](#)

Cytogenetics: 1 B

MW: 44.6 kDa

Gene Summary: Catalyzes the transfer of sulfate to position 3 of terminal glucuronic acid of both protein- and lipid-linked oligosaccharides. Participates in biosynthesis of HNK-1 carbohydrate structure, a sulfated glucuronyl-lactosaminyl residue carried by many neural recognition molecules, which is involved in cell interactions during ontogenetic development and in synaptic plasticity in the adult. May be indirectly involved in synapse plasticity of the hippocampus, via its role in HNK-1 biosynthesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217755