

Product datasheet for **MC212033**

Chst10 (NM_145142) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chst10 (NM_145142) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Chst10
Synonyms:	A1507003; AU041319; Hnk-1st; ST
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC212033 representing NM_145142 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAAAATGTGAACCCATCAGGAAGGATCATCGAATGGCCCTGTCTGACAACATGCACCATCAGTGGC
TCCTGCTGGCTGCATGCTTTGGGTGATTTTCATGTTTCATGGTGGCCAGCAAGTTCATCAGTTGACCTT
TAAGGATCCGGATGGGTATAGTGCCAAACAGGAGTTTGTGTTCCCTGACGACCATGCCGGAAGCAGAGAAG
CTAAGAGGAGAGAAGCATTTTCCCTGAAGTCCCGAAGCCAACTGGGAAGATGCTTTTCGGACAGCCGTCCTG
ATCAGCCCCCGGTTTATCTGGAGCGGCTGGAGCTCATTAGAAAACCTGCAAGGAGGAGGCTCTGCGGAA
CCTCTCACACACCGAGGTCTCGAAGTTCGTCCTGGATCGAATATTTGTCTGTGACAAGCACAAGATTCTT
TTCTGTGACTCCCAAGGTGGGCAACACCCAGTGAAGAAAAGTGTGATCGTCCATAATGGAGCATT
CTTCCATTGAAGAGATTCCTGAAAATGTAGTCCATGACCATGAGAAAAATGGCCTTCCACGCCTCTCTTC
CTTCAGCAAAATAGGAATTCAGAAGCGATTGAAAACATACTTCAAGTTTTTTATTGTGAGAGATCCCTTT
GAAAGACTGATTTCTGCCTTTAAGGATAAGTTTGTTCACAATCCTCGATTGAGCCTTGGTACAGGCATG
AGATAGCCCCAGGCATTATTAGAAAAGTACCGGAAGAACCGGACAGAGACCCGGGGGATCCAGTTTGAAGA
TTTTGTGCGCTACCTGGGTGATCCAAACCGCAGGTGGTTAGACCTTCAGTTTGGGGACCATATCATCCAC
TGGGTGACCTACGTTGAACTCTGTGCGCCTGTGAGATCAAGTACAGTGTGGTGGACACCATGAGACCC
TGGAGGCAGATGCCCGTACATCCTGAAAGAAGCTGGCATAGACCATCTGGTGTGATACCCACCATCCC
TCCGGGCATCACCATGTACAACAGAACCAAGGTAGAACAGTACTTCTGGGCATCAGCAAACGAGACATC
CGGCGTCTCTATGCCCGCTTTGAAGGGGACTTCAAGCTCTTTGGGTATCAGAAACAGATTTCTTGCTAA
ATTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI



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ACCN:	NM_145142
Insert Size:	1125 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:	<ol style="list-style-type: none">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:	<u>NM_145142.2</u> , <u>NP_660124.2</u>
RefSeq Size:	3135 bp
RefSeq ORF:	1125 bp
Locus ID:	98388
UniProt ID:	<u>Q6PGK7</u>
Cytogenetics:	1 B
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]