

Product datasheet for **MR207747**

Chst7 (NM_021715) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chst7 (NM_021715) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chst7
Synonyms:	2600013M07Rik; C6ST-2; glcNAc6ST-4; Gn6st-4; GST5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207747 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAGGGCCGGCGCGCGCCGAGAGTATTGCAAGTTCACGCTGCTTTGGCGCTGTACACGCTTT
 TGCTACTTCTGTCCCCTCTGTACTGGACAGCCACAGCGAGCAGGACAAGGGCAGGAACTGCCCCGGCCT
 GCAGCGCAGCTTGGGTGTGTGGAGCCTGGAGGCGCGCGCCGGGGAACGTGAGCAGGGCGCTGAGGTG
 CGGTCCCTGGCCGAAGGAAACCCGGATCGATCCCCGGTCCCCGGCAACCTCAGCGCCGTCGGTGAGG
 CGGTGACCAGGAAAAGCAACACATCTATGTGCATGCCACCTGGCGCACC GGCTCGTCTTCTGGGCGA
 ACTCTTCAACCAGCACCCGACGTTTTCTACTTGTACGAGCCATGTGGCATCTGTGGCAGGCACTGTAT
 CCGGGCGACGCGGAGAGCCTGCAGGGCGCACTAAGAGACATGCTGCGCTCCCTCTCCGCTGTGATTTCT
 CTGTGCTGCGCCTGTACGCGCAGCCTGGGACCCTGGGGAGCGAGCACC GGACTCGGCCAACCTCACCAC
 GGCCATGCTTTCCGCTGGCGGACCAACAAGGTATCTGCTCGCCGCTCTGTGCCCGCCGCGCCCGG
 GCACGCGCGGACGTGGGACTCGTCGAGGACAAAGCCTGCGAAAGTACCTGCCCGCCGTTTCGCTCCGCG
 CCCTGGAGGCCGAGTGCCGAAGTACCCGGTGGTGGTCATCAAAGACGTGCGGCTACTGGACCTGGGAGT
 GCTGGTCCCTCTGCTGCGTGACCCAGGCCTCAACCTAAAGGTGGTGAACCTTCCGAGACCCTCGGGCC
 GTGCACAACTCGCGCCTCAAGTCGAGGCAGGGACTGCTGCGCGAAAGCATCCAGGTGCTGCGCACGCGCC
 AGAGGGGCGACCACTCCACCCGGTGTCTGCTGGCGCATGGAGTGGATGCCCGTCCGGGAGGCCAGGCCCG
 GGCTCTGCCCTCGGCGCCACGCGCTGATTTCTTAAACCAGCGCGCTTGAGGTGATCTGTGAAGCGTGG
 CTTGCGACCTGCTATTCACCCGCGCGCGCCGCTGGCTGAGGCGTGCCTACCTGCGGTTGCGGACACTGC
 AGGACCTGGTGTGGCAGCCCCAAGCCAGCTGCGCCGCTGCTGCGCTTCTTGGGTTGCGGACACTGC
 CGCGCTTGATGCCTTCGCATTCAATATGACGCGGGGCTCGGCCTACGGCGCCGATCGTCCCTTCCACTTG
 TCTGCGCGGGACCCCGAGAGGCTGTGCACGCTGGCGCAACGTCTGAGCCAAGAGCAGGTGCGCCAAG
 TGGAAACCGCCTGCGCCCTGCCATGCGTCTGCTTGCCTACCCTCGAAGTGGGGACGAACGCGACAGGAA
 GACCGTCAGGGAAGGGGAGACCACTGGAGACCAAGGCCAATTGGGCTGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207747 protein sequence
 Red=Cloning site Green=Tags(s)

MKGRRRRRREYCKFTLLALYL LLLL VPSVLDHSEQDKGRNCPGLQRSLGVWSLEAAAAGEREQGAEV
 RSLAEGNPDRSPGSPGNL SAVGEAVTQEKQHIYVHATWRTGSSFLGELFNQHPDVFYL YEPMHWLWQALY
 PGDAESLQGALRDMLRSLFRCDFSVLRL YAQPGDPGERAPDSANLTTAMLFRWRNTNKVICSPPLCPAAPR
 ARADVGLVEDKACESTCPPVSLRALEAE CRKYPVVVIKDVRLLDLGVLP LLRDPGLNLKVVQLFRDPRA
 VHNSRLKSRQGLLRESIQVLRTRQRGDHFRVLLAHGVDARPGQARALPSAPRADFFL TSALEVICEAW
 LRDLLFTRGAPAWLRRRYLRLRYEDLVWQPQALRRLRF SGLRTLAAALDAFAFNMTRGSAYGADRPFHL
 SARDAREAVHAWRERLSQEQVRQVETACAPAMRLLAYPRSGDERDRKTVREGETPLETKANWAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_021715

ORF Size: 1455 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_021715.1](#), [NP_068361.1](#)

RefSeq Size: 2248 bp

RefSeq ORF: 1455 bp

Locus ID: 60322

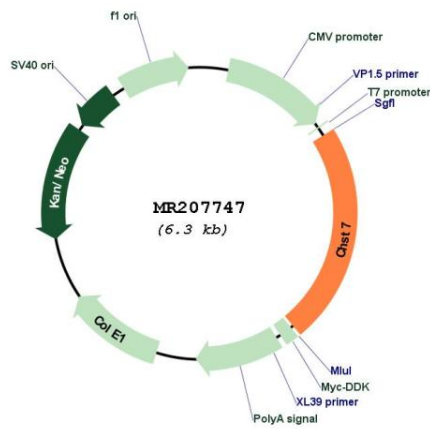
UniProt ID: [Q9EP78](#)

Cytogenetics: X A1.3

MW: 54.8 kDa

Gene Summary: Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the transfer of sulfate to position 6 of non-reducing N-acetylglucosamine (GlcNAc) residues. Preferentially acts on mannose-linked GlcNAc. Also able to catalyze the transfer of sulfate to position 6 of the N-acetylgalactosamine (GalNAc) residue of chondroitin. Also acts on core 2 mucin-type oligosaccharide and N-acetylglucosamine oligomer with a lower efficiency. Has weak or no activity toward keratan sulfate and oligosaccharides containing the Galbeta1-4GlcNAc. Catalyzes 6-O-sulfation of beta-benzyl GlcNAc but not alpha- or beta-benzyl GalNAc.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207747