

Product datasheet for **MC207463**

Chst4 (NM_011998) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Chst4 (NM_011998) Mouse Untagged Clone
Tag: Tag Free
Symbol: Chst4
Synonyms: Gn6st-2; GST-3; HEC-GlcNAc6ST
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC207463 representing NM_011998
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGATGCTGTTGAAGAAAGGGAGGCTGCTGATGTTCTGGGTTCCAGGTCATCGTTGTAGCTCTTTCA
TCCATATGTCGGTCCACAGACACCTTTCCAGAGGGAGGAGTCCAGGAGGCCCGTGCATGTGCTGGTGT
GTCTTCTGGCGGTGAGGATCCTCTTTGTGGGACAGCTTTTCGGGCAGCACCCGGATGTGTTCTACCTG
ATGGAGCCTGCCTGGCATGTGTGGATGACTTTCCAGCAGCAGCAGCCTGGAAGCTGCACATGGCTGTG
GGGATCTTCTGCGTTCGGTCTTCTGTGTGACATGAGCGTCTTTGATGCCTACATGAACCCAGGCCCCCG
GAAACAGTCCAGCCTCTCCAGTGGGAGCAAAGCCGGGCCCTGTGCTCAGCGCCTGTGTGTGACTTCTTC
CCTGCCACGAGATCAGCTCACCAAGCACTGCAAGCTGCTCTGCGGTGACGAGCCCTTTGATATGGTGG
AGAAGGCTGCCGCTCTCACGGCTTCGTGGTACTCAAGGAGGTGCGTTTTCTCAGCCTGCAGGCCCTCTA
TCCACTACTCACGGACCTTCCCTCAACCTGCACGTGTCACCTGGTCCGAGACCCCGGGCCGTGTTCC
CGATCCCGGGAGCACACCACCATAGAATCATGGTTGACAGTCATATTGTGCTAGGGCAGCATTGGAAA
CGATCAAGGAGGAAGACCAGCCCTATTATGCCATGAAGATCATCTGCAAAAAGCCAGGTGGACATAGTCAA
GGCCATCAAACCTCCCTGAAGCTCTGCAGCAGCGCTACCTGTTCTGAGGTATGAGGACCTGGTTCGG
GCACCCCTGGCCAGACGACCAGACTATATAAATTTGTGGGGTTGGATTTTTGCCCCACCTCAAACAT
GGGTTTACAATGTCAACCGCGGCAAGGGCATGGGTGAGCATGCCTTCCATACTAACGCCAGGAACGCCCT
CAACGTCTCAGGCGTGGCGTTGGTCTTACCTTACGAAAAGTTTTCCAGCTTCAAGATGCCTGCGGT
GAGGCTATGGATTTGCTGGGATACCTCCAGGTGAGATCTCAACAAGAACAAGGCAACCTGTCCCTGGATC
TTCTGCTCCTCCCATATCTTGGGCGAGTCTCCGAGAAGGT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_011998
Insert Size:	1167 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:	NM_011998.4 , NP_036128.3
RefSeq Size:	2000 bp
RefSeq ORF:	1167 bp
Locus ID:	26887
UniProt ID:	Q9R111
Cytogenetics:	8 D3
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 within mucin-associated glycans that ultimately serve as SELL ligands. SELL ligands are present in high endothelial cells (HEVs) and play a central role in lymphocyte homing at sites of inflammation. Participates in biosynthesis of SELL ligand sialyl 6-sulfo Lewis X on SELL counter-receptors SPN/CD43, GLYCAM1 and MADCAM1. Also involved in biosynthesis of SELL ligand recognized by MECA-79 antibody. Plays a central role in lymphocyte trafficking during chronic inflammation. Has a catalytic preference for core 2-branched mucin-type O-glycans. Can use GlcNAc β 1-6[Gal β 1-3]GalNAc-pNP (core 2), GlcNAc β 1-6ManOMe and GlcNAc β 1-2Man oligosaccharide structures as acceptors. Has also activity toward core 3 of GlcNAc β 1-3GalNAc-pNP. Its substrate specificity may be influenced by its subcellular location.[UniProtKB/Swiss-Prot Function]