

Product datasheet for **RN209340**

Chst1 (NM_001011955) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Chst1 (NM_001011955) Rat Untagged Clone
Tag: Tag Free
Symbol: Chst1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN209340 representing NM_001011955
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGCAATGTTCTGGAAGGCTGCTCCTCCTCGCCCTGGCTCCATTGCCATCCAGTACACAGCCATCC
 GCACATTCAGTCCCAAGTCTTTCCACACTTGCCCTGGGCTGACAGAACTGGGCTGGCAGAGCGGTGTG
 TGAGGAGGGCCACCTTCTCCTATAACCTCTCCAGAAAGACCCACGTCCTCATCTTGGCCACCACGC
 AGTGGTTCATCCTTTGTGGGCCAGCTCTCAACCAGCACATGGATGTCTTCTACCTGTTTGGCCTCTCT
 ACCACGTCAGAACAGCTCATCCCCGCTTACCCAGGGCAAGAGCCCCGCGACCCGAGGGTCATGCT
 AGGTGCCAGCCGGGACTGCTGAGGAGCCTTTATGATTGTGATCTCTACTTTCTGGAGAATTACATCAAG
 CCACCTCCGGTCAACCACACCACCGACCGGGTCTTCCGCCGAGGGGCCAGCAGGGTCTCTGTTCCCGTC
 CTGTGTGTGACCCTCTGGGCCCTGACCTGATCCTGGAGGAGGGGACTGTGTGCGTAAGTGGGCTT
 GCTGAACCTGACCTTGGCAGCTGAGGCTTGTGCTGAGCGCAGCCATGTGGCCATCAAGACTGTGCGGGT
 CCTGAGGTGAATGACTTGCAGGCTAGTGAAGACCCAGGTTGAATCTCAAGGTATCCAGCTGGTGC
 GAGACCCTCGTGGTATCTTAGCTTCTCGGAGTGAGACTTCCGGGACACATACCGACTCTGGCGGCTTTG
 GTACGGCACAGGGAGGAAGCCCTACAACCTGGAGCTGACCAGCTGACCACAGTGTGTGAGGATTTCTCT
 AGCTCTGTGTCTACTGGCCTCATGCGGCCCTCCTGGCTCAAGGGCAAGTACATGTTGGTACGTTATGAGG
 ACCTGGCCAGGAATCCAATGAAGAAGACAGAGGAGATCTACGAATTCCTGGGTATCCCCCTGGACAGTCA
 CGTGGCACGCTGGATCCAGAACAATACGAGGGGTGACCCCACTTTGGGCAAGCACAAATACGGCACAGTG
 CGCAACTCTGCAGCCACAGCTGAGAAGTGGCGCTTCCGCTCTCCTATGACATCGTGGCCTTTGCTCAGA
 ACGCCTGCCAGCATGTGCTGGCAGCTGGGCTACAAGATGGCCACCTCGGAGGAGGAGCTGAAGAACC
 AGCCATCAGCCTAGTGGAGGAGCGGACTTCCGCCCTTTTTTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001011955
Insert Size:	1236 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_001011955.1</u> , <u>NP_001011955.1</u>
RefSeq Size:	2395 bp
RefSeq ORF:	1236 bp
Locus ID:	295934
UniProt ID:	<u>Q5RIQ0</u>
Cytogenetics:	3q31
Gene Summary:	Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the transfer of sulfate to position 6 of galactose (Gal) residues of keratan. Has a preference for sulfating keratan sulfate, but it also transfers sulfate to the unsulfated polymer. The sulfotransferase activity on sialyl LacNAc structures is much higher than the corresponding desialylated substrate, and only internal Gal residues are sulfated. May function in the sulfation of sialyl N-acetyllactosamine oligosaccharide chains attached to glycoproteins. Participates in biosynthesis of selectin ligands. Selectin ligands are present in high endothelial cells (HEVs) and play a central role in lymphocyte homing at sites of inflammation (By similarity).[UniProtKB/Swiss-Prot Function]