

Product datasheet for **RR209340**

Chst1 (NM_001011955) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Chst1 (NM_001011955) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Chst1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR209340 representing NM_001011955
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGCAATGTTCTGGAAGGCTGTCCTCCTCGCCCTGGCTCCATTGCCATCCAGTACACAGCCATCC
GCACATTCAGTCCCAAGTCTTTCCACACTTGCCTGGGCTGACAGAACTGGGCTGGCAGAGCGGTGTG
TGAGGAGGGCCCCACCTTCTCCTATAACCTCTCCAGAAAGACCCAGTCCCTCATCTTGGCCACCACGC
AGTGGTTCATCCTTTGTGGGCCAGCTCTCAACCAGCACATGGATGTCTTCTACCTGTTTGGCCTCTCT
ACCACGTCAGAACAGCTCATCCCCGCTTACCCAGGCAAGAGCCCCGCGACCCGAGGGTCATGCT
AGGTGCCAGCCGGGACCTGCTGAGGAGCCTTTATGATTGTGATCTCTACTTTCTGGAGAATTACATCAAG
CCACCTCCGGTCAACCACACCACCGACCGGGTCTCCGCCGAGGGGCCAGCAGGGTCTCTGTTCCCGTC
CTGTGTGACCCCTCTGGGCCCTGACCTGATCCTGGAGGAGGGGACTGTGTGCGTAAGTGGCGCTT
GCTGAACCTGACCTTGGCAGCTGAGGCTTGTGCTGAGCGCAGCCATGTGGCCATCAAGACTGTGCGGGT
CCTGAGGTGAATGACTTGCAGGCCCTAGTGAAGACCCAGGTTGAATCTCAAGGTATCCAGCTGGTGC
GAGACCCTCGTGGTATCTTAGCTTCTCGGAGTGAGACTTCCGGGACACATACCGACTCTGGCGGCTTTG
GTACGGCACAGGGAGGAAGCCCTACAACCTGGAGGTGACCCAGCTGACCACAGTGTGTGAGGATTTCTCT
AGCTCTGTGTCTACTGGCCTCATGCGGCCCTCCTGGCTCAAGGGCAAGTACATGTTGGTACGTTATGAGG
ACCTGGCCAGGAATCCAATGAAGAAGACAGAGGAGATCTACGAATTCCTGGGTATCCCCCTGGACAGTCA
CGTGGCACGCTGGATCCAGAACAATACGAGGGGTGACCCCACTTTGGGCAAGCACAAATACGGCACAGTG
CGCAACTCTGCAGCCACAGCTGAGAAGTGGCGCTTCCGCTCTCCTATGACATCGTGGCCTTTGCTCAGA
ACGCCTGCCAGCATGTGCTGGCAGCTGGGCTACAAGATGGCCACCTCGGAGGAGGAGCTGAAGAACC
AGCCATCAGCCTAGTGGAGGAGCGGACTTCCGCCCTTTTTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR209340 representing NM_001011955
 Red=Cloning site Green=Tags(s)

MQCSWKAVLLLALASIAIQYTAIRTFTAKSFHTCPGLTETGLAERLCEEGPTFSYNLSRKTHVLILATTR
 SGSSFVQQLFNQHMDVLYLFEPLYHVQNTLIPRFQTQKSPADRRVMLGASRDLLRSLYDCDYFLENYIK
 PPPVNHHTDRVFRRGASRVLC SRPVCDDPPGASDLILEEGDCVRKCGLLNLTAAEACRERSHVAIKTVRV
 PEVNDLRALVEDPRLNLKVIQLVRDPRGILASRSETFRDITYRLWRLWYGTGRKPYNLDTVQLTTVCEDFS
 SSVSTGLMRPSWLKGYMLVRYEDLARNPMKKTEEIYEF LGIPLDSHVARWIQNNTRGDPTLGKHKYGTV
 RNAAATAEKWRFRLSYDIVAFAQNACQHVLAQLGYKMATSEEELKNPAISLVEERDFRPFL

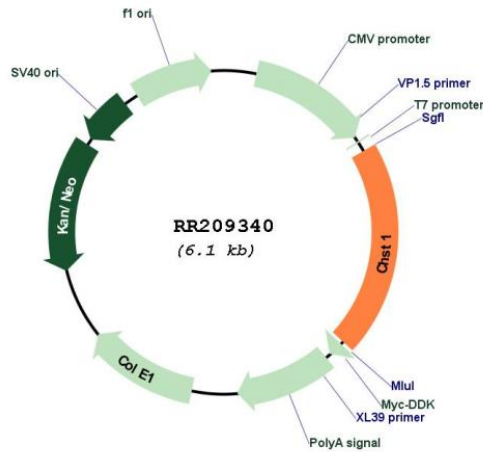
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001011955

ORF Size:	1233 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:	<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_001011955.1 , NP_001011955.1
RefSeq Size:	2395 bp
RefSeq ORF:	1236 bp
Locus ID:	295934
UniProt ID:	Q5R1Q0
Cytogenetics:	3q31
MW:	46.9 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 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]