OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR206464

Chst1 (NM_023850) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chst1 (NM_023850) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chst1
Synonyms:	2610008E20Rik; AW125896; C6ST; GST-1; Gst1; KSGAL6ST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206464 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAATGTTCTTGGAAGGCTGTCCTCCTCCTCGCCCTGGCCTCCATTGCCATCCAGTACACAGCCATCC
GCACTTTCACCGCCAAGTCTTTCCACACTTGCCCTGGGCTGACAGATACTGGCTTGGCAGAGCGGTTGTG
TGAGGAGGGCCCTACCTTCTCCTACAACCTCTCCAGGAAGACCCACGTCCTGATCCTGGCCACCACACGC
AGTGGCTCTTCCTTTGTGGGCCAGCTCTTCAACCAGCACATGGATGTCTTCTACCTGTTCGAGCCGCTCT
ATCACGTCCAAAACACGCTCATCCCCCGGTTCACCCAGGGCAAGAGCCCCGCAGATCGCAGGGTCATGCT
AGGTGCCAGCCGGGACCTGCTGAGGAGCCTTTATGATTGTGATCTCTACTTTCTGGAGAACTACATCAAG
CCACCTCCAGTCAACCACACCACCAACAGGGTCTTCCGCAGAGGGGCCAGCAGGGTCCTTTGTTCCCGTC
CAGTGTGTGACCCTCCAGGGTCCTCTGACCTGATCCTGGAGGAGGGGGACTGTGTGCGCATGTGTGGCTT
GCTGAACCTGACCTTGGCAGCCGAGGCTTGTCGTGAGCGCAGTCATGTGGCCATCAAGACTGTGCGGGTG
CCCGAGGTGAATGACTTGCGGGCTCTAGTGGAAGACCCCAGGCTGAACCTCAAGGTCATCCAGCTGGTGC
GAGACCCTCGTGGCATCTTGGCTTCTCGCAGTGAGACCTTCCGGGACACCTACCGGCTCTGGCGGCTTTG
GTACGGCACAGGGAGGAAGCCCTACAACCTGGATGTGACACAGCTGACCACTGTGTGTGAGGATTTCTCT
AGCTCTGTGTCTACTGGCCTCATGCGGCCCTCCTGGCTCAAGGGCAAGTACATGCTGGTACGTTATGAGG
ACCTGGCCAGAAATCCAATGAAGAAGACAGAAGAGATCTACGAATTCCTGGGTATCCCCCTGGACAGTCA
CGTGGCACACTGGATCCAGAACAATACGAGGGGCGACCCCACTTTGGGCAAGCACAAATACAGCACAGTG
CGCAACTCTGCAGCCACAGCTGAGAAGTGGCGCTTCCGCCTCTCCTATGACATCGTGGCCTTTGCCCAGA
ATGCCTGCCAGCAGGTGTTGGCTCAGCTGGGCTACAAGATGGCCAACTCGGAGGAGGAACTGAAGAATCC
GGCCATCAGCCTAGTGGAGGAGCGTGACTTCCGCCCTTTTTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

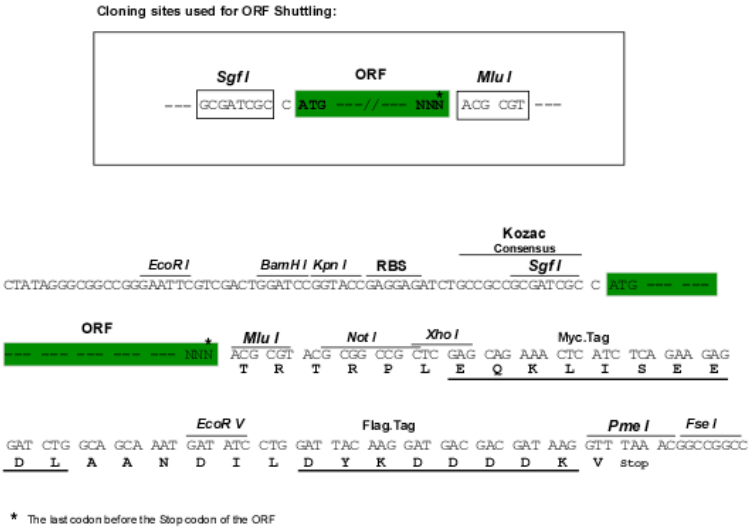
>MR206464 protein sequence
Red=Cloning site Green=Tags(s)

MQCSWKAVLLLALASIAIQYTAIRTFTAKSFHTCPGLTDTGLAERLCEEGPTFSYNLSRKTHVLILATTR
SGSSFVGQLFNQHMDVFYLFEPLYHVQNTLIPRFTQGKSPADRRVMLGASRDLLRSLYDCDLYFLENYIK
PPPVNHTTNRVFRRGASRVLCSRPVCDPPGSSDLILEEGDCVRMCGLLNLTLAAEACRERSHVAIKTVRV
PEVNDLRALVEDPRLNLKVIQLVRDPRGILASRSETFRDTYRLWRLWYGTGRKPYNLDVTQLTTVCEDFS
SSVSTGLMRPSWLKGKYMLVRYEDLARNPMKKTEEIYEFLGIPLDSHVAHWIQNNTRGDPTLGKHKYSTV
RNSAATAEKWRFRLSYDIVAFAQNACQQVLAQLGYKMANSEEELKNPAISLVEERDFRPFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_023850

ORF Size: 1236 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_023850.1, NP_076339.1

RefSeq Size: 2682 bp

RefSeq ORF: 1236 bp

Locus ID: 76969

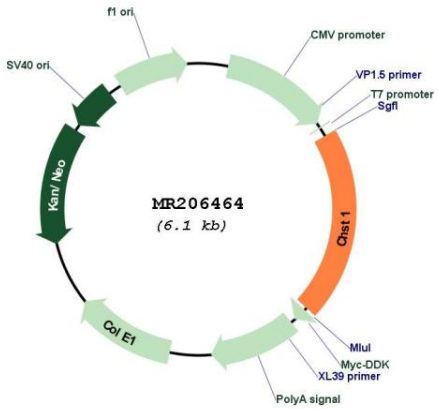
UniProt ID: Q9EQC0

Cytogenetics: 2 E1

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]

Product images:



Circular map for MR206464