

## Product datasheet for **MG206464**

### Chst1 (NM\_023850) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chst1 (NM_023850) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chst1
Synonyms:	2610008E20Rik; AW125896; C6ST; GST-1; Gst1; KSGAL6ST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206464 representing NM_023850 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAATGTTCTTGAAGGCTGTCCTCCTCGCCCTGGCTCCATTGCCATCCAGTACACAGCCATCC  
GCACTTTCACGCAAGTCTTCCACACTTGCCTGGGCTGACAGATACTGGCTTGGCAGAGCGTTGTG  
TGAGGAGGGCCCTACCTTCTCCTACAACCTCTCCAGGAAGACCCAGTCTGATCCTGGCCACCACAGC  
AGTGGCTCTTCTTTGTGGCCAGCTCTCAACCAGCACATGGATGTCTTCTACCTGTTGAGCCGCTCT  
ATCACGTCCAAAACAGCTCATCCCCGGTTCACCCAGGCAAGAGCCCCGAGATCGCAGGGTCATGCT  
AGGTGCCAGCCGGACCTGCTGAGGAGCCTTATGATTGTGATCTCTACTTTCTGGAGAACTACATCAAG  
CCACCTCCAGTCAACCACACCACCAACAGGGTCTTCCGCAGAGGGGCCAGCAGGGTCTTTGTTCCCGTC  
CAGTGTGTGACCTCCAGGGTCTCTGACCTGATCCTGGAGGAGGGGACTGTGTGCGCATGTGTGGCTT  
GCTGAACCTGACCTTGGCAGCCGAGGCTTGTGCTGAGCGCAGTCATGTGGCCATCAAGACTGTGCGGGT  
CCCAGGTGAATGACTTGCAGGCTTAGTGGAAGACCCAGGCTGAACCTCAAGGTATCCAGCTGGTGC  
GAGACCCTCGTGGCATCTGGCTTCTCGCAGTGAGACCTCCGGGACACCTACCGCTCTGGCGGCTTTG  
GTACGGCACAGGGAGGAAGCCCTACAACCTGGATGTGACACAGCTGACCACTGTGTGAGGATTTCTCT  
AGCTCTGTGCTACTGGCTCATGCGGCCCTCCTGGCTCAAGGGCAAGTACATGCTGGTACGTTATGAGG  
ACCTGGCCAGAAAATCCAATGAAGAAGACAGAAGATCTACGAATTCCTGGGTATCCCCCTGGACAGTCA  
CGTGGCACACTGGATCCAGAACAATACGAGGGGCGACCCCACTTTGGGCAAGCACAAATACAGCACAGT  
CGCAACTCTGCAGCCACAGCTGAGAAGTGGCGCTTCCGCCTCTCTATGACATCGTGGCCTTTGCCAGA  
ATGCTTCCAGCAGGTGTTGGCTCAGCTGGGCTACAAGATGGCCAACCTCGGAGGAGGAAGTGAAGAATCC  
GGCCATCAGCCTAGTGGAGGAGCGTGACTTCCGCCCTTTTTTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206464 representing NM\_023850  
 Red=Cloning site Green=Tags(s)

MQCSWKAVLLLALASIAIQYTAIRTFTAKSFHTCPGLTDTGLAERLCEEGPTFSYNLSRKTHVLILATTR  
 SGSSFVQQLFNQHMDVFLFEPLYHVQNTLIPRFTOGKSPADRRVMLGASRDLLRSLYDCDLYFLENYIK  
 PPPVNHTTNRVFRRGASRVLC SRPVCDPPGSSDLILEEGDCVRMCGLLNLTLAAEACRERSHVAIKTVRV  
 PEVNDLRALVEDPRLNLKVIQLVRDPRGILASRSETFRDITYRLWRLWYGTGRKPYNLDTVQLTTVCEDFS  
 SSVSTGLMRPSWLKGYMLVRYEDLARNPMKKTEEIYEF LGIPLDSHVAHWIQNNTRGDPDLGKHKYSTV  
 RNAAATAEKWRFRLSYDIVAFAQACQQVLAQLGYKMANSEEEELKNPAISLVEERDFRPFL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_023850

**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:**

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:** 2188 bp

**RefSeq ORF:** 1236 bp

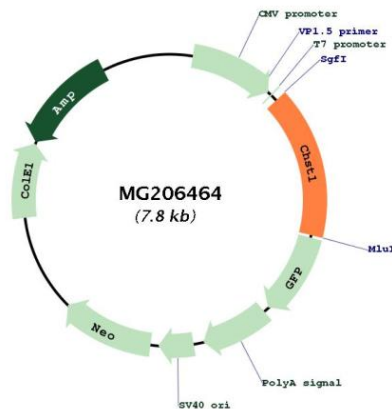
**Locus ID:** 76969

**UniProt ID:** [Q9EQC0](#)

**Cytogenetics:** 2 E1

**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 MG206464