

## Product datasheet for **MG207740**

### Chst2 (BC051963) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chst2 (BC051963) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chst2
Synonyms:	Chst2, GlcNAc6ST, Gn6st, GST-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207740 representing BC051963  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGGTATTTTCGAGGAAGGCGCTGGTGTGTGCGCGGGCTATGCACTGCTACTGGTGCTCACGATGC  
 TCAACCTTTGGACTACAAGTGGCATAAAGAGCCGCTGCAGCAGTGCAACCCCGACGGCCCTCTGGGTGC  
 CGCGGTAGGGGGCGCGGGGCGGCTGGGGACGGCCGGGTGCGCTCCTGCAGCGCCACCCCGCGCTCAC  
 TCTCGCATGGACCCCGCACCCCGTACCGCCCTCTGCCGCGGGCGTGGGGGAGTTCCCGCAGCCGCGG  
 CTGGGAGTGCAGGAGCTGCGGCCCTCTGGGCAATGCTACTCGAGGCACAGGGGTGGAGGGGACAAGCG  
 GCAGTTGGTGTATGTGTTACCACGTGGCGCTCGGGCTCGTCTTCTTCGGTGAGCTCTTCAACCAGAAC  
 CCTGAGGTGTTCTTCTCTATGAGCCTGTGTGGCAGTGTGGCAAAACTGTACCCCGGGGACGCCGTTT  
 CCCTGCAGGGGGCAGCGGGGACATGCTGAGCGCTCTTACCCTGCGATCTTTCGGTTTTCCAGCTGTA  
 TAGCCCCGCAGGCAGTGGGGGGCAACCTCACCCTCTGGGCATCTTTGGGCAGCCACTAACAAAGGTG  
 GTATGCTCCTCGCACTCTGTCTGCCTACCGCAAGGAGGTCTGTCGGACTGGTGGACACCGCGTGTGCA  
 AAAAGTGGCCACCTCAACGCCTGGCAGCTTTCGAGGAGGAGTGTGCAAGTACCGCACGCTGGTTATCAA  
 GGGCGTGGGGTCTTCGATGTGGCTGTGTTGGCGCCGCTGCTTAAAGATCCAGCCTTGGACCTCAAGGTC  
 ATCCACCTAGTACGTGATCCTCGTGTGTTGCCAGCTCCCGCATCCGCTCGCGTACGGCCCTCATCCGGG  
 AAAGCCTACAGGTGGTGCAGCCGGATCCAAGAGCCACCGCATGCCCTTCTGGAGGCTGCTGGCCA  
 CAAGCTTGGTGCCAAGAAGGAGGATATGGTGGCCAGCAGACTACCACGCTCTGGGTGCAATGGAGGTC  
 ATCTGCAACAGTATGGCCAAGACGCTGCAACAGCCCTGCAGCCTCCTGACTGGTGCAGGGACACTACT  
 TGGTGGTGGTACGAGGATCTGGTGGGAGACCCCGTTAAGCCCTACGGAGGATATATGACTTTGTGGG  
 GCTGCTGGTGTAGTCCCGAAATGGAGCAGTTTGCCTGAACATGACCAGTGGTTCGGGCTCCTCCTCCAAG  
 CCTTTCGTGGTGTGAGCTCGCAATGCCACTCAGGCCGCCAATGCCTGGCGGACCGCGCTCACCTCCAGC  
 AGATCAAACAGGTGGAGGAGTTTGTACCAGCCATGGCCGTGCTGGGCTATGAGCGGGTTAACAGTCC  
 TGAGGAGGTCAAAGACCTCAGCAAGACCTTGCTCAGGAAGCCCCGGCTT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG207740 representing BC051963  
 Red=Cloning site Green=Tags(s)

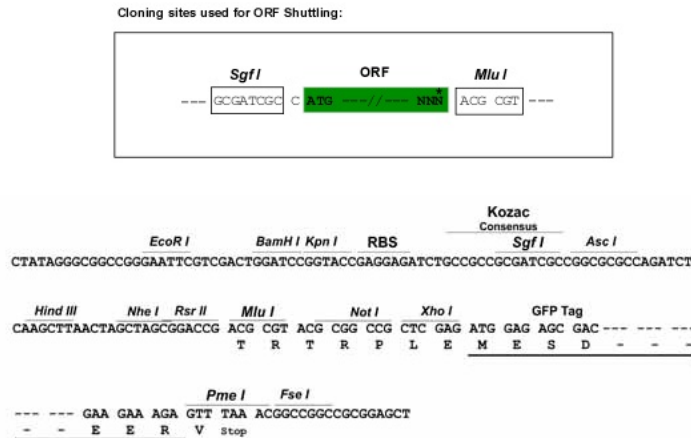
MKVFRRKALVLCAGYALLLVLTMLNLLDYKWHKEPLQCCNPDPGLGAAVGAAGAGWGRPGSPPAAPPRAH  
 SRMDPRTPYRPPAAGVAVPAAAAGSAGAAAALGNATRGTRGGGDKRQLVYVFTTWRSGSSFFGELFNQN  
 PEVFFLYEPVWHVWQKLYPGDAVSLQGAARDMLSALYRCDLSVFQLYSPAGSGGRNLTTLGFGAATNKV  
 VCSSPLCPAYRKEVVGLVDDRVCCKCPPQRLARFEEECRKYRTLVIKGVRFVDVAVLAPLLKDPALDLKV  
 IHLVRDPRAVASSRIRSRHGLIRESLQVVRSDPRAHRMPFLEAAGHKLGAKKEGMGGPADYHALGAMEV  
 ICNSMAKTLQATALQPPDWLQGHYLVVRYEDLVGDPVKTLRRVYDFVGLLVSPMEQFALNMTSGSGSSSK  
 PFVVSARNATQAANAWRTALTFQIQVEEFCYQPMAVLGYERVNSPEEVKDLKTLRKPRL

**TRTRPLE** – GFP Tag – V

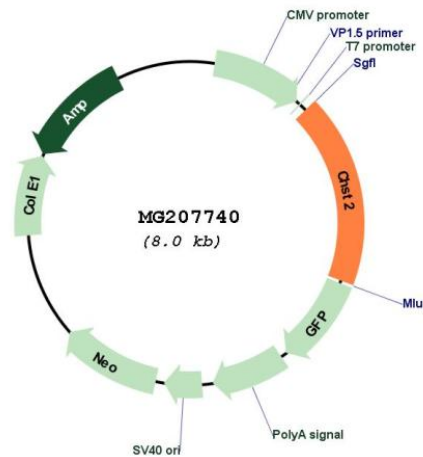
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** BC051963

**ORF Size:** 1451 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:** [BC051963](#), [AAH51963](#)

**RefSeq Size:** 2501 bp

**RefSeq ORF:** 1451 bp

**Locus ID:** 54371

**Cytogenetics:** 9 E3.3

**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 keratan-like structures on N-linked glycans and within mucin-associated glycans that can 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 the SELL ligand sialyl 6-sulfo Lewis X and in lymphocyte homing to Peyer patches. Has no activity toward O-linked sugars. Its substrate specificity may be influenced by its subcellular location. Sulfates GlcNAc residues at terminal, non-reducing ends of oligosaccharide chains.[UniProtKB/Swiss-Prot Function]