

Product datasheet for **MG220196**

Chst5 (NM_019950) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chst5 (NM_019950) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chst5
Synonyms:	A1173964; Gn6st-3; GST-4; I-GlcNAc-6-ST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220196 representing NM_019950 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGCTACCCCGTTTCTCCAGCACTGTCATGCTTCGCTCCTGATGGTACAGACTGGCATCCTGGTCT
TCCTGGTCTCCCGCAAGTGCCATCGTCCCGAGGCGCTTGGGAGCGTGTGCACGTGCTGGTACTGTC
CTCGTGGCGCTCGGGCTCGTCTTCGTGGGCCAGCTCTTCAGCCAACACCCCGATGCTTCTACCTGATG
GAGCCGGCTTGGCACGTCTGGGATACGTTGTCGAGGGCAGTGCCCGCACTCCACATGGCCGTGCGTG
ACCTGATCCGCTCAGTGTTCCTATGCGACATGGACGATTTGATGCCTACCTGCCCTGGCGCCGAACAT
CTCGGATCTCTCCAGTGGCGGTGAGCCGCGCATTGTGCTCACCTCCGGTCTGCGAAGCCTTCGCTCGT
GGCAACATCAGCAGCGAGGAGGTGTGAAGCCTCTGTGCGCAACGCGGCCCTTCGGCCTGGCTCAGGAAG
CCTGCAGCTCCTATAGTCACGTGCTCAAGGAGGTGCGCTTCTTAACTACAGGTGCTACCCGCT
GCTCAGCGACCCTGCGCTCAACCTGCGCATCGTGACCTAGTGCGGACCCGCGGGCGTGTGCGCTCC
CGAGAGCAGACAGCAAGGCGTGGCACGGGACAATGGCATCGTCTGGGTACCAACGGCACGTGGGTGG
AGGCGGACCCCGGCTGCGCGTGGTCAACGAGGTATGCCGAGCCATGTGCGCATCGCAGAGGCAGCCTT
GCACAAGCCGCCCTTCTTGAAGATCGTACCGCTGGTGGCTACGAGGATCTGGCCGGGACCCA
CTCACCGTAATCCGTGAACCTATGCTTCACCGGCTGGTCTCACGCCGAGTCCAGACTTGGATCC
ACAATATCAGCATGGTTCAGGGCCAGGCGCGCCGTAAGCCTTCAAGACCACATCCAGGGATGCGCT
CAGTGTATCCAGGCTGGCGCCACACGCTGCCCTTTGCCAAGATTGCGCGGGTCCAGGAACTGTGCGGG
GGTGCAGCTGCAGCTGCTGGGTTACCGGTCTGTGCATTGCGAGCTTGGCAAAAGGACCTCTCTGGACC
TCCTGCTGCCAAGAGGCATGGACAGTTTCAAGTGGGCATCGTCCAGGAGAAGCAACCGGAATCT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG220196 representing NM_019950
 Red=Cloning site Green=Tags(s)

MRLPRFSSTVMLSLLMVQTGILVFLVSRQVPSSPAGLGERVHVLVLSWRSWSSFFVGQLFQHPDVFYLM
 EPAWHVWDTLSQGSAPALHMAVRDLIRSVFLCDMDVFDAYLPWRRNISDLFQWAVSRALCSPVCEAFAR
 GNISSEEVCKPLCATRPFGLAQEACSSYSHVVLKEVRFNQLVPLSDPALNLRIVHLVRDPRAVLR
 REQAKALARDNGIVLGTNGTWVEADPRLRVVNEVCRSHVRIAEALHKPPPFLQDRYRLVRYEDLARDP
 LTVIRELYAFTGLGLTPQLQTIHNIHSGSGPGARREAFKTTSRDALSVSQAWRHLPFAKIRRVQELCG
 GALQLLGYRSVHSELEQRDLSLDDLLPRGMDSFKWASSTKQPES

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019950

ORF Size: 1185 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_019950.2](#), [NP_064334.1](#)

RefSeq Size: 1935 bp

RefSeq ORF: 1188 bp

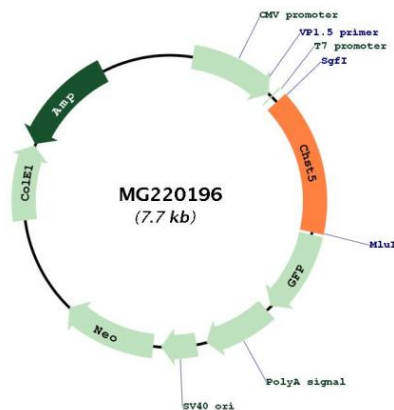
Locus ID: 56773

UniProt ID: [Q9QUP4](#)

Cytogenetics: 8 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 non-reducing N-acetylglucosamine (GlcNAc) residues of keratan. Mediates sulfation of keratan in cornea. Keratan sulfate plays a central role in maintaining corneal transparency. Acts on the non-reducing terminal GlcNAc of short and long carbohydrate substrates that have poly-N-acetylactosamine structures. May also have activity toward O-linked sugars of mucin-type acceptors.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG220196