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Product datasheet for MG207541

Chst3 (NM_016803) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chst3 (NM_016803) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chst3
Synonyms:	C6ST; C6ST-1; GST-0
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>MG207541 representing NM_016803
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGAAAGGACTCGCTTTGCCTCAGGATTTCCGGGACCTTGTACACAGCCTAAAGATTCGAGGCAGAT
ACGTCTTGTTCCTGGCATTTGTGGTCATAGTTTTTATCTTCATTGAAAAGGAAAATAAAATCATATCCAG
GGTCTCCGACAAGCTGAAGCAGATCCCTCATTTTGTGGCAGATGCCAACAGCACTGACCCAGCCCTGCTC
TTATCGGAGAATGCATCTCTCTTGTCCCTGAGCGAGTTGGATTCCACCTTTTCCCATCTGCGGAGCCGCC
TGCACAACCTGAGCCTGCAGCTGGGCGTGGAGCCAGCAATGGAGAGCCAGGAGGCTGGGGCAGAGAAGCC
ATCCCAGCAGGCTGGAGCAGGGACCCGGCGCCACGTGCTTCTCATGGCCACCACCCGCACGGGTTCCTCG
TTCGTGGGCGAGTTCTTCAACCAGCAGGGCAATATCTTCTACCTCTTCGAGCCACTGTGGCACATCGAGC
GCACCGTGTTCTTCCAGCAGCGAGGCGCCAGCGCGGCTGGTTCAGCCTTGGTCTACCGTGATGTCCTCAA
GCAGTTGTTGCTATGCGACCTGTATGTGCTGGAGCCCTTCATCAGCCCTCCGCCCGAGGACCACTTGACT
CAGTTCCTGTTCCGCCGGGGATCCAGCCGTTCACTCTGCGAGGATCCGGTGTGCACACCCTTCGTCAAGA
AGGTCTTTGAGAAGTACCACTGCAGGAACCGTCGCTGCGGGCCACTCAACGTGACCTTGGCGGGCGAGGC
CTGCCGCCGCAAGGACCACGTGGCCCTCAAGGCTGTGCGCATCCGTCAGCTGGAGTTCCTGCAGCCGCTA
GTTGAGGACCCGAGGTTGGATCTACGAGTCATTCAGCTGGTGCGCGACCCCCGGGCCGTGCTGGCTTCAC
GCATAGTGGCCTTTGCGGGCAAGTATGAGAACTGGAAGAAGTGGCTGTCCGAGGGGCAGGACCAGCTGAG
CGAGGATGAGGTGCAGCGATTGCGGGGCAACTGTGAGAGCATCCGCCTGTCTGCAGAGCTGGGCTTGCGG
CAGCCAGCCTGGCTGCGCGGTCGTTACATGCTGGTGCGCTATGAGGATGTGGCACGCAGGCCACTGCAGA
AGGCCCGAGAGATGTACAGCTTTGCGGGCATCCCCTTGACCCCGCAGGTGGAGGACTGGATCCAGAAGAA
CACGCAGGCGACACGCGACAGCAGCGATGTCTACTCCACTCAGAAAAACTCTTCTGAGCAGTTTGAGAAG
TGGCGCTTCAGCATGCCTTTCAAGCTGGCACAGGTGGTACAGGCTGCCTGTGGCCCGACCATGCACCTCT
TTGGCTACAAGTTGGCCAGGGATGCCGCCTCACTCACCAACCGCTCCATCAGCCTGCTGGAGGAGCGGGG
CACCTTCTGGGTCACG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

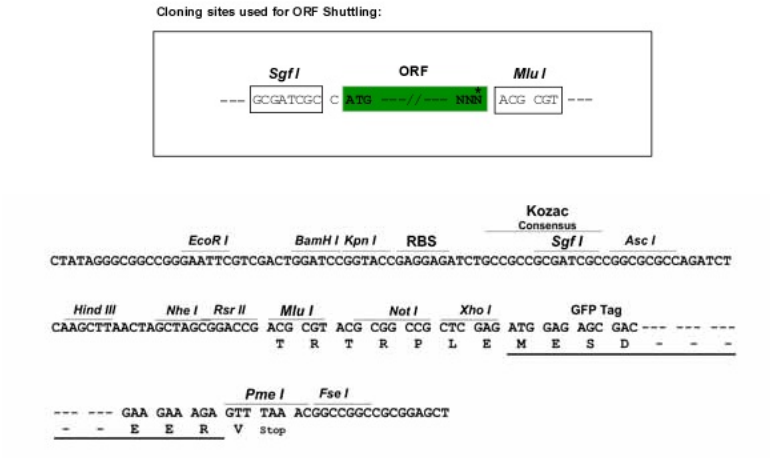
>MG207541 representing NM_016803
Red=Cloning site Green=Tags(s)

MEKGLALPQDFRDLVHSLKIRGRYVLFLAFVVIVFIFIEKENKIISRVSDKLKQIPHFVADANSTDPALL
LSENASLLSLSELDSTFSHLRSRLHNLSLQLGVEPAMESQEAGAEKPSQQAGAGTRRHVLLMATTRTGSS
FVGEFFNQQGNIFYLFEPLWHIERTVFFQQRGASAAGSALVYRDVLKQLLLCDLYVLEPFISPPPEDHLT
QFLFRRGSSRSLCEDPVCTPFVKKVFEKYHCRNRRCGPLNVTLAGEACRRKDHVALKAVRIRQLEFLQPL
VEDPRLDLRVIQLVRDPRAVLASRIVAFAGKYENWKKWLSEGQDQLSEDEVQRLRGNCESIRLSAELGLR
QPAWLRGRYMLVRYEDVARRPLQKAREMYSFAGIPLTPQVEDWIQKNTQATRDSSDVYSTQKNSSEQFEK
WRFSMPFKLAQVVQAACGPTMHLFGYKLARDAASLTNRSISLLEERGTFWVT

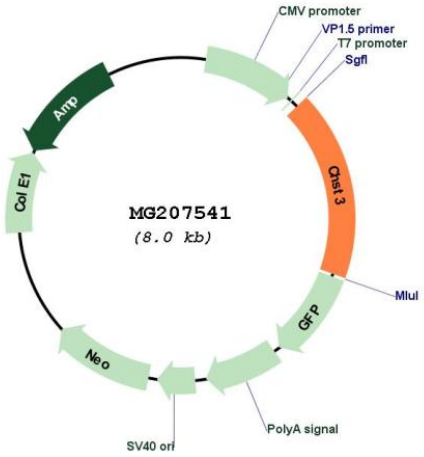
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_016803
ORF Size:	1416 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_016803.2, NP_058083.1
RefSeq Size:	6000 bp
RefSeq ORF:	1437 bp
Locus ID:	53374
UniProt ID:	O88199
Cytogenetics:	10 B4
Gene Summary:	Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the transfer of sulfate to position 6 of the N-acetylgalactosamine (GalNAc) residue of chondroitin. Chondroitin sulfate constitutes the predominant proteoglycan present in cartilage and is distributed on the surfaces of many cells and extracellular matrices. Can also sulfate Gal residues of keratan sulfate, another glycosaminoglycan, and the Gal residues in sialyl N-acetyllactosamine (sialyl LacNAc) oligosaccharides. May play a role in the maintenance of naive T-lymphocytes in the spleen.[UniProtKB/Swiss-Prot Function]