

Product datasheet for **MG219389**

Chst11 (NM_021439) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chst11 (NM_021439) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chst11
Synonyms:	1110020P09Rik; C4s; C4ST; C4ST-1; C4ST1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219389 representing NM_021439 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCCGGCGCTGCTGGAAGTGATGAGGATGAACAGAAATTTGCCGGATGGTGTGCCACTTGCTTCG
GATCCTTTATCTTGTCATCTTCTATTTCCAAAGTATGTTGCACCCAGTCATGCCGAGGAACCCCTTCGG
TGTGGACATCTGCTGCCGAAGGGATCGAGAAGTCCCCTGCAGGAGCTCTACAATCCATCCAGCTGGAG
CTATCCAAACTGCCATCTGCACCAGATGAGACGGGACCAGGTGACAGACACCTGCCGGCCAACAGCG
CCATGAGCCGCAAGCGCAGGGTGTGACCCCAACGACCTGAAGCACCTGGTGGTGGATGAGGACCACGA
ACTCATCTACTGCTATGTGCCAAAGGTAGCGTGCACCACTGGAAGAGGCTCATGATGGTCTGAGTGGC
CGGGGCAAGTACAGCGATCCCATGGAGATCCCAGCCAACGAAGCCACGTGTCGGCCAACCTGAAGACCC
TTAACCAGTACAGCATCCCAGAGATCAACCACCGCTTGAAAAGCTACATGAAGTTCCTGTTCTGTCGGGA
ACCCTTCGAGAGGCTGGTGTCTGCCTACCGCAACAAGTTCACGCAGAAGTACAACACCTCCTCCACAAG
CGCTACGGCACCAGATCATCCGACGCCAGCGGAAGACGCCACGCAGGAGGCCCTGCGCAAGGGGGACG
ATGTCAAGTTCGAGGAGTTCGTGGCCTACCTCATCGACCCCAACCCAGCGGGAGGAGCCCTTCAACGA
GCACTGGCAGACGGTCTACTCTCTGCCACCCGTGCCACATCCACTACGACCTCGTGGGCAAGTATGAG
ACACTGGAGGAGGACTCCAATTACGTACTGCAGCTGGCCGGAGTGAGCGGCTACCTGAAGTCCCCACCT
ATGCAAAGTCCACCCGAACCTACCGACGAGATGACCACGGAGTCTTCCAGAACATCAGCGCCGAGCACCA
GACACAGCTGTATGAAGTCTACAACTGGACTTTTTAATGTTCAACTACTCAGTGCCAACTACCTGAAG
TTGGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG219389 representing NM_021439
 Red=Cloning site Green=Tags(s)

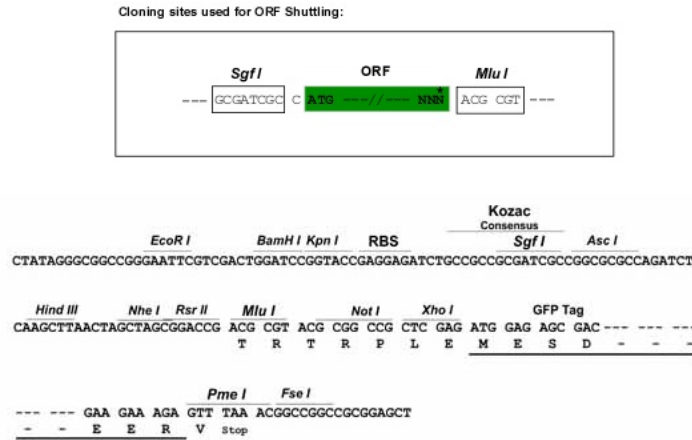
MKPALLEVMRMNRCRMVLATCFGSFILVIFYFQSM LHPVMRRNPF GVDICCRKGSRSPLQELYNPIQLE
 LSNTAILHQMRDQVTDTCRANSAMSRKRRVLTPNDL KHLVDEDEL IYCVPKVACTNWKRLMMVLSG
 RGKYS DPMEIPANEAHVSANL KTLNQYSIPEINHRLKSYMKFLFVREPFERLVSAYRNKFTQKYNTSFHK
 RYGTKIIRRQRKNATQEALRKGD DVKFE EFVAYLIDPHTQREEPFNEHWQT VVYSLCHPCHIHYDLVGKYE
 TLEEDSNVYLQLAGVSGYLKFP TYAKSTRTTDEMTTEFFQNI SAEHQ TQLYEVYKLDLDFMNFNSVPNYLK
 LD

TRTRPLE - GFP Tag - V

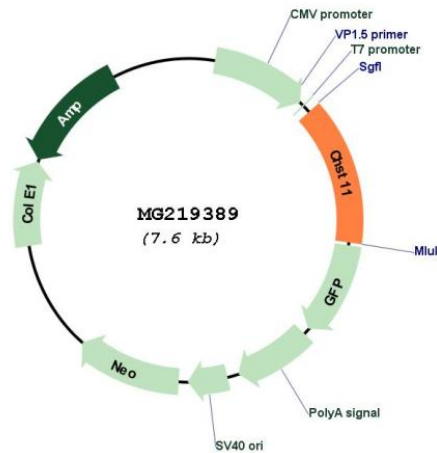
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_021439

ORF Size:	1056 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:	<ol style="list-style-type: none">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_021439.2 , NP_067414.2
RefSeq Size:	5532 bp
RefSeq ORF:	1059 bp
Locus ID:	58250
UniProt ID:	Q9JME2
Cytogenetics:	10 C1
Gene Summary:	Catalyzes the transfer of sulfate to position 4 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 in desulfated dermatan sulfate. Preferentially sulfates in GlcA->GalNAc unit than in IdoA->GalNAc unit. Does not form 4, 6-di-O-sulfated GalNAc when chondroitin sulfate C is used as an acceptor.[UniProtKB/Swiss-Prot Function]