

Product datasheet for MR219389

Chst11 (NM_021439) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Chst11 (NM_021439) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Chst11
Synonyms: 1110020P09Rik; C4s; C4ST; C4ST-1; C4ST1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR219389 representing NM_021439
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGCCGGCGCTGCTGGAAGTGATGAGGATGAACAGAAATTTGCCGGATGGTGTGCCACTTGCTTCG
 GATCCTTTATCTTGTCATCTTCTATTTCCAAAGTATGTTGCACCCAGTCATGCGGAGGAACCCCTTCGG
 TGTGGACATCTGCTGCCGAAGGGATCGAGAAGTCCCCTGCAGGAGCTCTACAATCCCATCCAGCTGGAG
 CTATCAAACACTGCCATCTGCACCAGATGAGACGGGACCAGGTGACAGACACCTGCCGGCCAACAGCG
 CCATGAGCCGCAAGCGCAGGGTGTGACCCCAACGACCTGAAGCACCTGGTGGTGGATGAGGACCACGA
 ACTCATCTACTGCTATGTGCCAAAGGTAGCGTGCACCAACTGGAAGAGGCTCATGATGGTCTGAGTGGC
 CGGGGCAAGTACAGCGATCCCATGGAGATCCCAGCCAACGAAGCCACCTGTCGGCCAACCTGAAGACCC
 TTAACCACTACAGCATCCCAGAGATCAACCACCGCTTGAAAAGCTACATGAAGTTCCTGTTCTGTCGGGA
 ACCCTTCGAGAGGCTGGTGTCTGCCTACCGCAACAAGTTCACGCAGAAGTACAACACCTCCTCCACAAG
 CGCTACGGCACCAGATCATCCGACGCCAGCGGAAGACGCCACGCAGGAGGCCCTGCGCAAGGGGGACG
 ATGTCAAGTTCGAGGAGTTCGTGGCCTACCTCATCGACCCCAACCCAGCGGGAGGAGCCCTTCAACGA
 GCACTGGCAGACGGTCTACTCTCTGCCACCCGTGCCACATCCACTACGACCTCGTGGCAAGTATGAG
 AACTGGAGGAGACTCCAATTACGTACTGCAGCTGGCCGGAGTGAGCGGCTACCTGAAGTCCCCACCT
 ATGCAAAGTCCACCCGAACCTACCGACGAGATGACCACGGAGTCTTCCAGAACATCAGCGCCGAGCACCA
 GACACAGCTGATGAAGTCTACAACTGGACTTTTTAATGTTCAACTACTCAGTGCCAACTACCTGAAG
 TTGGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR219389 representing NM_021439
 Red=Cloning site Green=Tags(s)

MKPALLEVMRMRICRMVLATCFGSFILVIFYFQSM LHPVRRNPFVGDICCRKGSRSPLQELYNPIQLE
 LSNTAILHQMRDQVTDTCRANSAMSRKRRVLTPNDLKHLVDEDEL IYCVPKVACTNWKRLMMVLSG
 RGKYS DPMEIPANEAHVSANLKTNLNQYSIPEINHRLKSYMKFLFVREPFERLVSAYRNKFTQKYNTSFHK
 RYGTKIIRRQRKNATQEALRKGDVYKFEFVAYLIDPHTQREPFNEHWQTVVYSLCHPCHIHYDLVGKYE
 TLEEDSNVYLQLAGVSGYLKFPYAKSTRITDDEMTTEFFQNISAEHQTLVEVYKLDFLMFNYSVPNYK
 LD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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:

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_021439.1](#), [NM_021439.2](#), [NP_067414.2](#)

RefSeq Size: 5532 bp

RefSeq ORF: 1059 bp

Locus ID: 58250

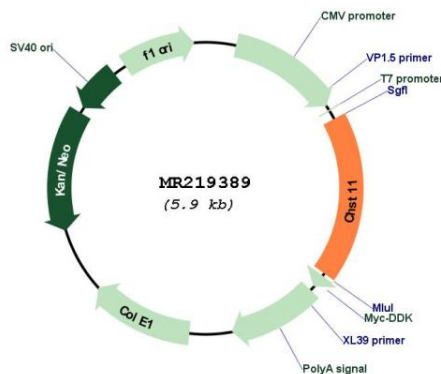
UniProt ID: [Q9JME2](#)

Cytogenetics: 10 C1

MW: 42.1 kDa

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]

Product images:



Circular map for MR219389