

Product datasheet for **RR215236**

Chst11 (NM_001108079) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Chst11 (NM_001108079) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Chst11
Synonyms: C4ST1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215236 representing NM_001108079
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAGCCGGCGTCTGGAAGTGATGAGGATGAACAGAATTTGCCGGATGGTGTGCCACTTGCTTGG
GATCCTTTATCTTGGTCATCTTCTATTTCCAAAGTATGTTGCACCCAGTCATGCGGAGGAATCCCTTTGG
CGTGGACATCTGCTGCCGAAGGGTCTCGGAGTCCACTGCAGGAGCTCTACAATCCCATCCAGCTGGAG
CTCTCCAACACTGCCATCCTGCACCAGATGAGACGGGACCAGGTGACAGACACCTGCCGGCCAACAGCG
CCATGAGCCGCAAGCGCAGGGTCTGACCCCAACGACCTGAAGCACCTGGTGGTGGATGAGGACCACGA
ACTCATCTACTGTATGTACCCAAGGTGGCGTGCACCAACTGGAAGAGGCTCATGATGGTCTGAGCGGC
CGGGGCAAGTACAGCGACCCATGGAGATCCCAGCCAACGAGGCCACGTGTCGGCCAACCTGAAGACCC
TTAACCAGTACAGCATCCCAGAGATCAACCACCGCTTGAAAAGCTACATGAAGTTCCTGTTCTGCGGGGA
GCCCTTCGAGAGGCTGGTGTCTGCCTACCGCAACAAGTTCACGCAGAAGTACAACACCTCCTTCCACAAG
CGCTACGGCACGAAGATCATCCGGCGCCAGCGGAAGAACGCCACGCAGGAGGCCCTGCCAAGGGGGACG
ATGTCAAGTTCGAGGAGTTCGTGGCTACCTCATCGACCCACACCCAGCGCAGGAGCCCTTCAACGA
GCACTGGCAGACGGTCTACTCCCTCTGCCACCCATGCCACATCCACTACGACCTCGTGGCAAGTACGAG
ACGCTGGAGGAGGACTCCAATTACGTAAGTTCGCGGCTGGCCGGGTGAGCGGCTACCTGAAGTTCACCACT
ATGCAAAGTCCACCCGAACCTACCGACGAGATGACCACGGAGTTCTTCCAGAACATCAGCGCCGAGACCA
GACACAGCTGTACGAAGTCTACAAACTGGACTTTTTAATGTTCAACTACTCAGTGCCAAACTACCTGAAG
TTGGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR215236 representing NM_001108079
 Red=Cloning site Green=Tags(s)

MKPALLEVMRMRNICRMVLATCLGSFILVIFYFQSM LHPVRRNPFVGDICCRKGSRSPLQELYNPIQLE
 LSNTAILHQMRDQVTDTCRANSAMSRKRRVLTPNDLKHLLVDEDHELICYVVKVACTNWKRLMMVLSG
 RGKYSDDPMEIPANEAHVSANLKTNLNQYSIPEINHRLKSYMKFLFVREPFERLVSAYRNKFTQKYNTSFHK
 RYGTKIIRRQRKNATQEALRKGDDVKFEFVAYLIDPHTQREPFNEHWQTVVYSLCHPCHIHYDLVGKYE
 TLEEDSNVYLRLAGVSGYLKFPYAKSTRITDDEMTTEFFQNI SAEHQTLVEVYKLDLFLMFNYSVPNYLK
 LD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

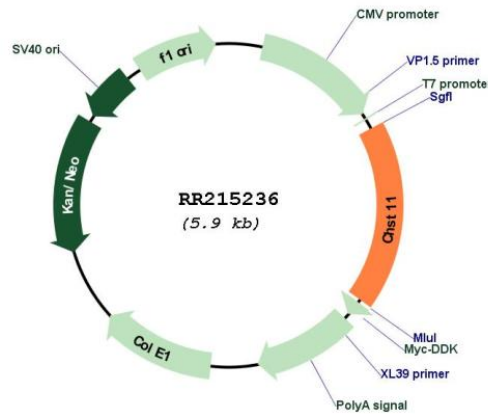
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001108079

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_001108079.1 , NP_001101549.1
RefSeq Size:	1989 bp
RefSeq ORF:	1059 bp
Locus ID:	314694
UniProt ID:	P69478
Cytogenetics:	7q13
MW:	41.6 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 (By similarity).[UniProtKB/Swiss-Prot Function]