

## Product datasheet for MR206647

### Chst12 (NM\_021528) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Chst12 (NM\_021528) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Chst12  
**Synonyms:** AI595374; C4S-2; C4ST2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR206647 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACCAAGCCGCGGCTCTCCGGCTGTGGCTGGTACTAGGGTCGGCTCTCATGATCCTTTTGATCATTG  
 TATATTGGGACAACGTGGGAACCGCCACTTCTATCTGCACACGTCTCTCCAGGCCACACATCTAGA  
 ACCCCTTCCCACCCAGGGATTGGTGGAGGAGAACGTGTTACATCTGACGTGGATGAGTTTTGGATACT  
 CTCCTTAGTTCTGACGCGAAGCACAACGACCTTCCAGGAGAAAACTGAGCAGCCCCGGCGCCGCC  
 CCAGCAAGCCAGTCTTGAGCCACATGGAGGAGAACGTGAGAGGCTACGACTGGTCCACTCATGATGCCA  
 TCAGAACCCTGACCGGGACAGGCAGCAGGCCGAGAGGAGGAGCCTGCTGAGAGACTTCTGTGCCAACGCC  
 AGCCTGGCATTCCCCACCAAGGACCGCTCTTTGACGACATCCCCAACTACGAACTGAACCACCTGATCG  
 TGGACGACCGCCACGGGGTCATCTACTGCTACGTGCCAAGGTGGCTGCACCAACTGGAAGCGAGTGAT  
 GATCGTGCTGAGCGAGAGCCTGCTGGACCGGGCAGCCCCACCGAGACCCCTGGACATCCCCCGGAA  
 CACGTGCACAACACCAGCACGCACCTCACCTTCAACAAGTTCTGGCGCCGCTACGGAAAGTTCTCCCGTC  
 ACCTCATGAAGGTGAAGCTGAAGAAGTACACCAAGTTCTGTTGCGCGACCCCTTTGTGCGCCTCAT  
 CTCAGCCTTCCGAGCAAGTTCGAGCTGGAGAACAAGAGTTTACCAGCAAGTTCCGCGGTGCCATGCTC  
 CGACTGTACGCCAACACACAGCCTGCCCGCTCGGTGAGTGAGGCTTTCAGCGCCGGGCTCAAGGTCT  
 CCTTCGCCAACTTCATCCAGTACCTCCTAGACCCACACACGAGAGAGCTGGCGCCTTCAACGAGCACTG  
 GCGACAGGTGTACCGCCTCTGCCACCCGTGCCAGATAGACTATGACTTCTGTTGGGAAGCTGGAGAGCTC  
 GATGAGGACGCTGCCAGCTCCTGAGGTTCTCAAGGTAGACTCCAGCTCCACTTCCCCCCAGTTATC  
 GGAACAGGACGGCCAGCAGCTGGGAGGAAGACTGGTTTGCCAACATCCCCCTGGCATGGAGGCAACAGCT  
 CTATAAATCTACGAGGCCGACTTTGTTCTCTTTGGCTACCCCAAGCCAGAAAACCTGCTCAGGGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAATCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206647 protein sequence  
 Red=Cloning site Green=Tags(s)

MTKPRLFRLWLVLGSALMILLIIIVYWDNVGTAHFYLHTLSRPHILEPLPTQGLVEENVFTSDVDFLDT  
 LLSDDAKHNDLSRRKTEQPPAPAPSKPVLSHMEENVRGYDWDSTHDAHQNPDQRQAERRSLLRDFCANA  
 SLAFPTKDRSFDDIPNYELNHLIVDDRHGVIYCYVPKVACTNWKRVMIIVLSESLDRGSPYRDPLDIPRE  
 HVHNTSTHLTFNKFWRRYGKFSRHLMKVKLKYYTKFLFVRDPFVRLISAFRSKFELENEEFYRKFVAVPML  
 RLYANHTSLPASVSEAFSAGLKVSFANFIQYLDPHTEKLA PFNEHWRQVYRLCHPCQIDYDFVGKLETL  
 DEDAAQLLRFLKVDSQLHFPPSYRNRTASSWEEDWFANIPLAWRQQLYKLYEADFVLFVGYPKPENLLRD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_021528

**ORF Size:** 1260 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\\_021528.2](#), [NP\\_067503.2](#)

**RefSeq Size:** 1802 bp

**RefSeq ORF:** 1260 bp

**Locus ID:** 59031

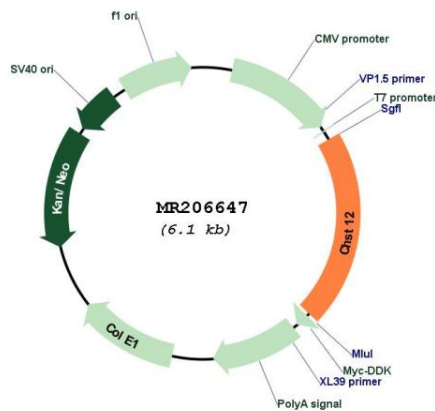
**UniProt ID:** [Q99LL3](#)

**Cytogenetics:** 5 G2

**MW:** 49.4 kDa

**Gene Summary:** Catalyzes the transfer of sulfate to position 4 of the N-acetylgalactosamine (GalNAc) residue of chondroitin and desulfated dermatan sulfate. Chondroitin sulfate constitutes the predominant proteoglycan present in cartilage and is distributed on the surfaces of many cells and extracellular matrices. Activity toward partially desulfated dermatan sulfate is however lower. Does not form 4, 6-di-O-sulfated GalNAc when chondroitin sulfate C is used as an acceptor (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR206647