

Product datasheet for **MG206647**

Chst12 (NM_021528) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Chst12 (NM_021528) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Chst12
Synonyms: AI595374; C4S-2; C4ST2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG206647 representing NM_021528
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCAAGCCGCGGCTCTCCGGCTGTGGCTGGTACTAGGGTCGGCTCTCATGATCCTTTTGATCATTG
 TATATTGGGACAACGTGGGAACCGCCACTTCTATCTGCACACGTCTCTCCAGGCCACACATCTAGA
 ACCCCTTCCCACCCAGGGATTGGTGGAGGAGAACGTGTTACATCTGACGTGGATGAGTTTTGGATACT
 CTCCTTAGTTCTGACGCGAAGCACAACGACCTTCCAGGAGAAAACTGAGCAGCCCCGGCGCCGCC
 CCAGCAAGCCAGTCTTGAGCCACATGGAGGAGAACGTGAGAGGCTACGACTGGTCCACTCATGATGCCA
 TCAGAACCCTGACCGGGACAGGCAGCAGGCCGAGAGGAGGAGCCTGCTGAGAGACTTCTGTGCCAACGCC
 AGCCTGGCATTCCCCACCAAGGACCGCTCTTTGACGACATCCCCAACTACGAACTGAACCACCTGATCG
 TGGACGACCGCCACGGGGTCACTACTGCTACGTGCCAAGGTGGCTGCACCAACTGGAAGCGAGTGAT
 GATCGTGTGAGCGAGAGCCTGCTGGACCGGGCAGCCCCACCGAGACCCCTGGACATCCCCCGGAA
 CACGTGCACAACACCAGCACGCACCTCACCTTCAACAAGTTCTGGCGCCGCTACGGAAAGTTCTCCCGTC
 ACCTCATGAAGGTGAAGCTGAAGAAGTACACCAAGTTCTGTTCGTGCGCGACCCCTTTGTGCGCCTCAT
 CTCAGCCTTCCGAGCAAGTTGAGCTGGAGAACAAGAGTTTACCAGCAAGTTCCGCGGTGCCATGCTC
 CGACTGTACGCCAACACACCAGCCTGCCGCCCTCGGTGAGTGAGGCTTTCAGCGCCGGGCTCAAGGTCT
 CCTTCGCCAATTCATCCAGTACCTCCTAGACCCACACACGAGGAGACTGGCGCCTTCAACGAGCACTG
 GCGACAGGTGTACCGCCTCTGCCACCCGTGCCAGATAGACTATGACTTCTGTGGGAAGCTGGAGACGCTC
 GATGAGGACGCTGCCAGCTCCTGAGGTTCTCAAGGTAGACTCCAGCTCCACTTCCCCCCAGTTATC
 GGAACAGGACGGCCAGCAGCTGGGAGGAAGACTGGTTTGCCAACATCCCCCTGGCATGGAGGCAACAGCT
 CTATAAATCTACGAGGCCGACTTTGTTCTTTGGCTACCCCAAGCCAGAAAACCTGCTCAGGGAC

ACGGTACGCGGCCGCTCGAG - GFP Tag - **GTTTAA**



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Protein Sequence: >MG206647 representing NM_021528
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MTKPRLFRLWLVLGSALMILLIIYVWDNVGTAHFYLHTLSRPHILEPLTQGLVEENVFTSDVDFLDT
 LLSSDAKHNDLSRRKTEQPPAPAPSKPVLSHMEENVRGYDWDTHDAHQNPDQRQAERRSLLRDFCANA
 SLAFPTKDRSFDDIPNYELNHLIVDDRHGVIYCYVPKVACTNWKRVMIVLSESLDRGSPYRDPLDIPRE
 HVHNTSTHLTFNKFRRYGGKFSRHLMKVKLKYYTKFLFVRDPFVRLISAFRSKFELENEEFYRKFAVPM
 RLYANHTSLPASVSEAFSAGLKVSFANFIQYLLDPHTEKLAPFNEHWRQVYRLCHPCQIDYDFVGKLETL
 DEDAAQLLRFLKVDSQLHFPPSYRNRTASSWEEDWFANIPLAWRQQLYKLYEADFVLFYGPKEPENLLRD

TRTRPLE - GFP Tag - V

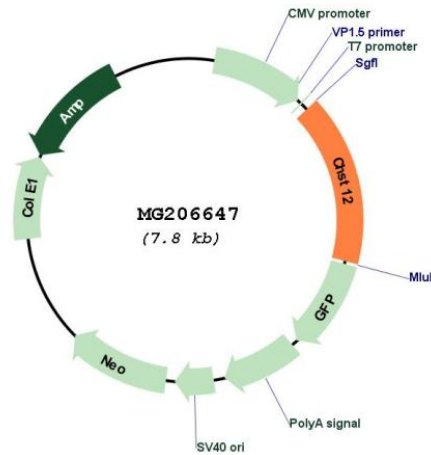
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_021528

ORF Size:	1257 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_021528.2 , NP_067503.2
RefSeq Size:	1785 bp
RefSeq ORF:	1260 bp
Locus ID:	59031
UniProt ID:	Q99LL3
Cytogenetics:	5 G2
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]