

Product datasheet for **MR208889**

Chst15 (NM_029935) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chst15 (NM_029935) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chst15
Synonyms:	4631426J05Rik; BRAG; GalNAcS-6ST; MAd5; mKIAA0598
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208889 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGGCATTGCATTAATTGCTGCGTCCAGCTGTTCCCGAAGACACACAAACAGCAAGTTGCCCTGCC
 AAGGAGGCCCCATCACAGTCATCAGGCGTGCCCACTTGCAAAGGAGAAAAACAAATTCGTTTTCGTGT
 GGACAGTAAGCAGATGAACCTGCTTGTCTCGAAGTGAGGACTGAGGGCAATGAAAACCTGGGGTGGG
 TTTTTCGCTTCAGGAAGGGGAAGCGATGTAGCCTGGTCTTTGGATTGATAATAATGACCTTGGTATGG
 CTTCTTACATCCTTCCGGGGCTCATCAGGAACCTCTGATTTCTCCCTTTCCATTATGGGGGCTTTCC
 CAGCAACCCAGCGTGATGGATGGTGAACCCAGTGATGTAAAGAGCATCACTACCAGCCTTCTGTA
 AATAACATCTCCTATGTAAGGACTATCCGAGCATTAACTGATTATCGACAGCATTGCTGCCAGGATTG
 AGTTCACAACCAGGCAGCTCCCGACTTACAAGATCTCAAGAGACAAGAGTTGCATATGTTTTCTGTAAT
 CCCAGCAAATTCCTCCGACTAGCAAGAGCCCTTGTGGTATGAGGAGTTCTCGGGCAGGAACACCACT
 GACCCCTACCTGACCAATTCCTACGTGCTCTACTCCAAGCGGTTCCGCTCTACCTTTGACGCTCTGCGCA
 AGGTTTTCTGGGGCCACCTGTCCACGTGCAGGGCAAGCACTTCCGCCTGCGCTGCCTGCCCCACTTCTA
 CATCATTGGGCAGCCCAAGTGTGGAACCACTGACCTGTACGACCGCTCCGGCTGCATCCAGAAGTGAAA
 TTCTCAGCCATCAAGGAGCCGACTGGTGGACCCGGAAGCGCTTTGGAATTGTCCGCCTGCGGGACGGAC
 TACGAGACCGCTACCTGTGGAAGATTACCTGGACCTCTTTGACTTGGCTGCACACCAGATCCATCAAGG
 ACTGCAGGCTGCCTCTGCAGAGCAGCCAGCAAGATGAATAAGATCATTATTGGAGAGCCAGCGCCTCT
 ACAATGTGGGATAACAATGCCTGGACCTTCTTCTATGACAACAGCACAGACGGCGAGCCACCATTCCTGA
 CCCAAGACTTCATCCATGCCTTTCAACCGAAGCCAAGCTCATTGTTATGCTCAGGGATCCTGTGGAGAG
 GTTGTACTCAGACTATCTCTACTTCGCAAGTTCCAATAAATCTGCAGATGACTTCCACGAGAAAGTGACG
 GAGGCTCTGCAGCTGTTTAAAATTGCATGCTGGATTATTCACTGCGCGCCTGCGTCTACAACAACCC
 TGAACAATGCCATGCCGTGAGGCTCCAGGTTGGCCTGTATGCTGTGTACCTCCTGGATTGGCTGACTGT
 CTTCAGTAAGGAGCAGTTCCTCATTCTCCGCTGGAAGACCACGCATCCAATGTCAAGTATACCATGCAC
 AAGGTCTCCAGTTTCTAAACCTGGGGCCTCTGAGTGAGAAGCAGGAAGCTCTGATGACCAAGAGCCCTG
 CATCCAACACACGGCTCCTGAGGATCGTAGTCTGGGACCCATGTGGCCATCACCAGAAAGATTCTGCG
 TGAAATCTATGGGCTTTCAACACAAGGCTGGCACAGGCTTGGATGACGAAGCATTGCTGGAAGACA
 ACG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208889 protein sequence
 Red=Cloning site Green=Tags(s)

MRHCINCCVQLFPEDTHKQQVACQGGPHSHQACPTCKGENKILFRVDSKQMNLLAVLEVRTEGNENWGG
 FLRFRKGRKCSLVFGLIIMTLVMASYILSGAHQELLISSPFHYGGFSPNPSVMDGENPSDVKEHHYQPSV
 NNISYVKDYPSIKLIIDSIAARIEFTTRQLPDLQDLKRQELHMFVSVIPSKFLPTSKSPCWYEEFSGRNTT
 DPYLTNSYVLYSKRFRSTFDALRKVFWGHLSHVQKHFRLRCLPHFYIIGQPKCGTTDLYDRLRLHPEVK
 FSAIKEPHWWTRKRFIVRLRDGLRDRYPVEDYLDLFDLAAHQIHQGLQAASAEQPSKMNKIIIGEASAS
 TMWDNNAWTFYDNSTDGEPFLTQDFIHAFQPEAKLIVMLRDPVERLYSDYLYFASSNKSADDFHEKVT
 EALQLFENCMLDYSLRACYNNTLNNAMPVRLQVGLYAVYLLDWLTVFSKEQFLILRLEDHASNVKYTMH
 KVFQFLNLGPLEKQALMTKSPASNTRRPEDRSLGPMWPITQKILREFYGFNTRLAQVLDDAEFAWK
 T

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_029935

ORF Size: 1686 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_029935.6](#)

RefSeq Size: 4265 bp

RefSeq ORF: 1686 bp

Locus ID: 77590

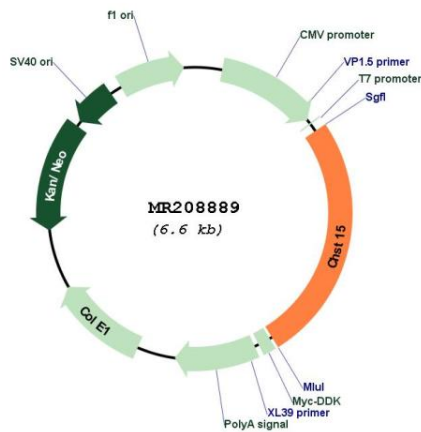
UniProt ID: [Q91XQ5](#)

Cytogenetics: 7 F3

MW: 65 kDa

Gene Summary: Sulfotransferase that transfers sulfate from 3'-phosphoadenosine 5'-phosphosulfate (PAPS) to the C-6 hydroxyl group of the GalNAc 4-sulfate residue of chondroitin sulfate A and forms chondroitin sulfate E containing GlcA-GalNAc(4,6-SO₄) repeating units. It also transfers sulfate to a unique non-reducing terminal sequence, GalNAc(4SO₄)-GlcA(2SO₄)-GalNAc(6SO₄), to yield a highly sulfated structure similar to the structure found in thrombomodulin chondroitin sulfate. May also act as a B-cell receptor involved in BCR ligation-mediated early activation that mediate regulatory signals key to B-cell development and/or regulation of B-cell-specific RAG expression; however such results are unclear in vivo (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208889