

Product datasheet for **MR224813**

Hs3st5 (NM_001081208) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hs3st5 (NM_001081208) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Hs3st5
Synonyms: D930005L05Rik; Gm1151; Hs3ost5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR224813 representing NM_001081208
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTATTCAAACAGCAGGTGTGGCTGAGACAGAAGCTCCTGGTACTGGGAAGCCTTGCTGTTGGGAGCC
TCCTGTATCTAGTTGCCAGAGTTGGGAGCTTGATAGGCTCCAGCCATTTGCCCTGTTGAAAGTCGATT
TGGTGGTGCCACAACCAGGCTGAGTTGCCACTGCGGGCCCTGCAGTTAAGAGAGGCTTGCTGCATGAG
TTCCGGAAGGCAATTCTTCCAAGGAGCAGTTACCTCCATGACCTGGTCCAACAGCTCCCAAAGCCA
TTATCATTGGGGTGAGAAAAGGGGCACAAGGGCCCTGCTAGAGATGCTCAACCTCCATCCTGCAGTGGT
CAAAGCTCCCAAGAGATCCACTTCTTTGACAATGATGAGAATTATGCCAAGGGCATTGAGTGGTACAGG
AAAAAGATGCCTTTTTCTACCCTCAGCAAATCAGATTGAAAAGAGCCCGGCATATTTTCATCACAGAAG
AGGTTCCGAAAGGATTTACAAGATGAACCTCATCCATCAAGCTGTTGATCATTGTCAGGGAGCCGACCAC
AAGAGCAATTTCTGATTACTCAGGTGCTAGAGGGGAAGGAGCGGAAGAACAACCTACTATAAGTTT
GAAAACTGGCTATAGACCCTAATACCTGTGAAGTGAACACGAAATACAAGGCGTTAGGACCAGCATAT
ACACAAAACATCTGGAGCGCTGGTTGAAATACTTTCCATTGAACAGTTTCATATCGTAGATGGTGACCC
TCTTATCACAGAACCTCTGCCGAACTACAGCTGGTGGAAAAGTTCTTAAACCTCCTCCGAGGATAAGT
CAGTACAATTTATTTCAATGCTACCAGAGGTTTTACTGCTGAGATTTAACATTATCTTTAATAGT
GCCTGGCGGCAGCAAGGGCGCATCCATCCAGAGGTAGACCCCTCCGTCATTACCAAATTCGCGCAAATT
CTTTCATCCTTTAATCAAAAATTTTACCAGATCACTGGGAGGACATTGAACTGGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR224813 representing NM_001081208
Red=Cloning site Green=Tags(s)

MLFKQQVWLRQKLLVLGSLAVGSLLYLVARVGS�DRLQPICPVESRFGGAHNQAELPLRALQFKRGLLHE
 FRKGNSSKEQVHLHDLVQQLPKAIIIGVRKGGTRALLEMLNLHPAVVKASQEIHFNDNDENYAKGIEWYR
 KKMPFSYPQQITIEKSPAYFITEEVPERIYKMNSSIKLLIIVREPTTRAI SDYTQVLE GKERKNKTYK
 EKLAIDPNTCEVNTKYKAVRTSIYTKHLERWLKYFPIEQFHIVDGDRLITEPLPELQLVEKFLNLPPRIS
 QYNLYFNATRGFYCLRFNIIIFNKCLAGSKGRIHPEVDPSVITKLRKFHHPFNQKFYQITGRTL NWP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9020_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001081208

ORF Size: 1038 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_001081208.2](#), [NP_001074677.1](#)

RefSeq Size: 2958 bp

RefSeq ORF: 1041 bp

Locus ID: 319415

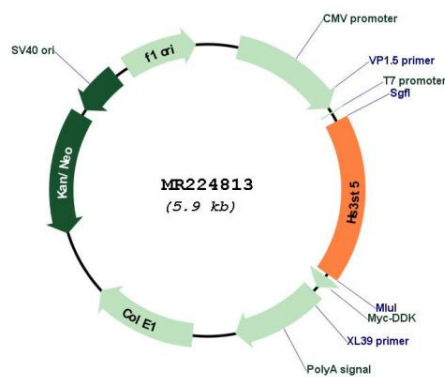
UniProt ID: [Q8BSL4](#)

Cytogenetics: 10 B1

MW: 40.9 kDa

Gene Summary: Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) to catalyze the transfer of a sulfo group to position 3 of glucosamine residues in heparan. Catalyzes the rate limiting step in the biosynthesis of heparan sulfate (HSact). This modification is a crucial step in the biosynthesis of anticoagulant heparan sulfate as it completes the structure of the antithrombin pentasaccharide binding site. Also generates GlcUA-GlcNS or IdoUA-GlcNS and IdoUA2S-GlcNH₂ (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224813