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Product datasheet for MR204411

Hs3st1 (NM_010474) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hs3st1 (NM_010474) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hs3st1
Synonyms:	3-Ost; D5Wsu110e; Hsg3ost
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR204411 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCTTGCTGCTCCTGGGTGCGGTGCTGCTGGTGGCCCAGCCCCAGCTTGTGCATTCCCACCCGGCTG
CTCCTGGCCCGGGGCTCAAACAGCAGGAGCTTCTGAGGAAGGTGATTATTCTCCCAGAGGACACCGGAGA
AGGCACAGCATCCAATGGTTCCACACAGCAGCTGCCACAGACCATCATCATTGGGGTGCGCAAGGGTGGT
ACCCGAGCCCTGCTAGAGATGCTCAGCCTGCATCCTGATGTTGCTGCAGCTGAAAACGAGGTCCATTTCT
TTGACTGGGAGGAGCATTACAGCCAAGGCCTGGGCTGGTACCTCACCCAGATGCCCTTCTCCTCCCCTCA
CCAGCTCACCGTGGAGAAGACACCCGCCTATTTCACTTCGCCCAAAGTGCCTGAGAGAATCCACAGCATG
AACCCCACCATCCGCCTGCTGCTTATCCTGAGGGACCCATCAGAGCGCGTGCTGTCCGACTACACCCAGG
TGTTGTACAACCACCTTCAGAAGCACAAGCCCTATCCACCCATTGAGGACCTCCTAATGCGGGACGGTCG
GCTGAACCTGGACTACAAGGCTCTCAACCGCAGCCTGTACCATGCACACATGCTGAACTGGCTGCGTTTT
TTCCCGTTGGGCCACATCCACATTGTGGATGGCGACCGCCTCATCAGAGACCCTTTCCCTGAGATCCAGA
AGGTCGAAAGATTCCTGAAGCTTTCTCCACAGATCAACGCCTCGAACTTCTACTTTAACAAAACCAAGGG
CTTCTACTGCCTGCGGGACAGTGGCAAGGACCGCTGCTTACACGAGTCCAAAGGCCGGGCGCACCCCCAG
GTGGATCCCAAACTACTTGATAAACTGCACGAATACTTTCATGAGCCAAATAAGAAATTTTTCAAGCTCG
TGGGCAGAACATTCGACTGGCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

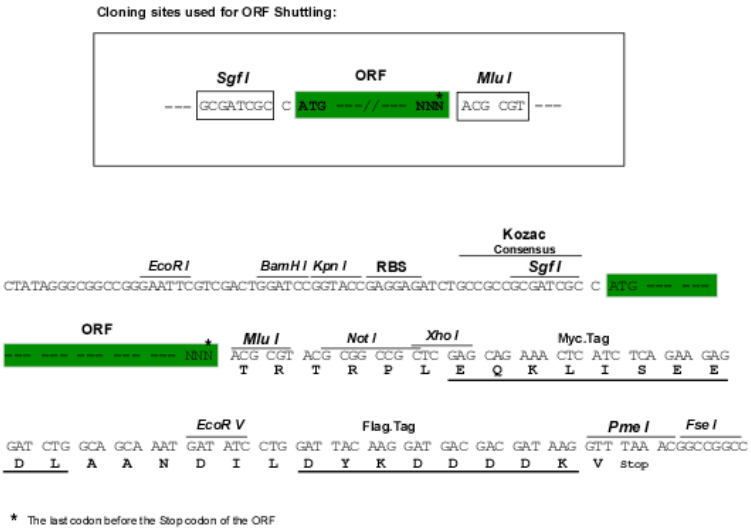
>MR204411 protein sequence
Red=Cloning site Green=Tags(s)

MTLLLLGAVLLVAQPQLVHSHPAAPGPGLKQQELLRKVIILPEDTGEGTASNGSTQQLPQTIIIGVRKGG
TRALLEMLSLHPDVAAAENEVHFFDWEEHYSQGLGWYLTQMPFSSPHQLTVEKTPAYFTSPKVPERIHSM
NPTIRLLLILRDPSERVLSDYTQVLYNHLQKHKPYPPIEDLLMRDGRLNLDYKALNRSLYHAHMLNWLRF
FPLGHIHIVDGDRLIRDPFPEIQKVERFLKLSPQINASNFYFNKTKGFYCLRDSGKDRCLHESKGRAHPQ
VDPKLLDKLHEYFHEPNKKFFKLVGRTFDWH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010474

ORF Size: 936 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_010474.2

RefSeq Size: 1685 bp

RefSeq ORF: 936 bp

Locus ID: 15476

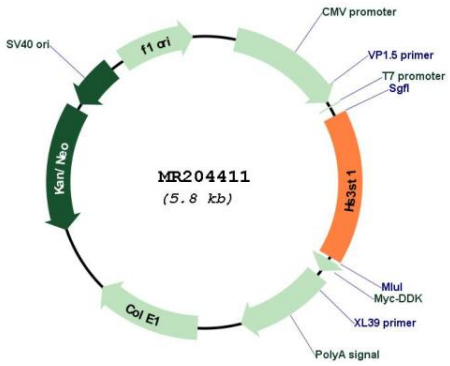
UniProt ID: O35310

Cytogenetics: 5 21.14 cM

MW: 35.9 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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204411