

Product datasheet for RC208327

HS3ST3A1 (NM_006042) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HS3ST3A1 (NM_006042) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HS3ST3A1
Synonyms:	3-OST-3A; 3OST3A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208327 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCCCGGGCCCGCCAGTGCCTCTCCACCTCGGCCGAGCCGCTGTCCCGCAGCATCTTCCGGA
AGTTCTTGCTGATGCTCTGCTCCCTGCTCACGTCCCTTACGTCTTCTACTGCCTGGCCGAGCGTGCCA
GACCTGTCCGGCCCGTCTGGGGCTGTCCGGCGGGCGAGGAGGCGGGGCCCTGGTGGCGGCGTC
CTGGCCGAGGCCGAGGAGCTGGCGGTGTGGCCGGCGGGCACAGAGAAAGCGCTCTGCAACTGC
CGCAGTGGCGGAGGCGCCGGCCCGCCCGCCCGCAGCAGCGGAGGAGCGGCCTGGGAAGAAGATC
CCCTGGCCTGTCAGGGGGTCCGGGCGGCTCCGGGGCCGGAAGCACCGTGGCCGAGCCCGCCGGGACC
CTGGCGCTGCTCCTGGACGAAGGACGAAGCAGCTGCCGAGGCCATCATCATCGGAGTGAAGAAGGGCG
GCACGCGGGCGTCTGGAGTTCCTGCGCGTGCACCCGACGTGCGCGCGTGGGCGCCGAGCCCACTT
CTTCGACCGCAGCTACGACAAGGGCCTCGCTGGTACCGGACCTGATGCCCAGAACCCTGGACGGGCGAG
ATCACCATGGAGAAGACGCCAGTTACTTCGTACGCGGGAGGCCCGCGCGCATCTCGCCATGTCCA
AGGACACCAAGCTCATCGTGGTGGTGGGGACCGGTGACCAGGGCCATCTCGGACTACACGCAGACGCT
GTCCAAGCGGCCGACATCCCCACCTTCGAGAGCTTGACGTTCAAAAACAGGACAGCGGGCCTCATCGAC
ACGTCGTGGAGCGCCATCCAGATCGGCATCTACGCCAAGCACCTGGAGCACTGGCTGCCCACTTCCCCA
TCCGCCAGATGCTCTTCGTGAGCGGCGAGCGGCTCATCAGCGACCGGCCGGGAGCTGGGCCGCGTGCA
AGACTTCTGGGCTCAAGAGGATCATCACGGACAAGCACTTCTACTTCAACAAGACCAAGGGCTTCCCC
TGCTGAAGAAGGCGGAGGGCAGCAGCCGGCCCAATTGCCTGGGCAAGACCAAGGGCAGGACCCATCCTG
AGATCGACCGGAGGTGGTGCAGGCTGCGCGAGTTCTACCGCCTTTCAACCTCAAGTTCTACCAGAT
GACCGGCACGACTTTGGCTGGGATGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC208327 protein sequence
Red=Cloning site Green=Tags(s)

MAPPGPASALSTSAEPLSRSIFRKFLMLCSLLTSLYVFYCLAERCQTLSPVVGLSGGGEEAGAPGGGV
LAGGPRELAVWPAQAQRKRLQLPQWRRRRPPAPRDDGEEAAWEEESPGLSGGPGGSGAGSTVAEAPPGT
LALLLDEGSKQLPQAIIGVKKGGTRALLEFLRVHPDVRVGAEPHFDFRSYDKGLAWYRDLMPRTLDDGQ
ITMEKTPSYFVTREAPARISAMSKDTKLIVVVRDPVTRAI SDYTQTL SKRPDIPTFESLTFKNRTAGLID
TSWSAIQIGIYAKHLEHLRHFPIRQMLFVSGERLISDPAGELGRVQDFLGLKRIITDKHFYFNKTKGFP
CLKKAEGSSRPHCLGKTKGRTHPEIDREVVRRLREFYRPFNLKFYQMTGHDFGWDG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6779_h09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_006042

ORF Size: 1218 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_006042.3](#)

RefSeq Size: 2546 bp

RefSeq ORF: 1221 bp

Locus ID: 9955

UniProt ID: [Q9Y663](#)

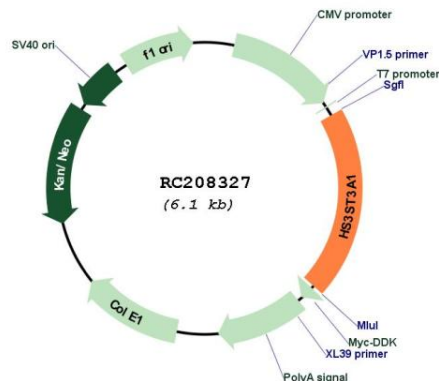
Cytogenetics: 17p12

Protein Pathways: Glycosaminoglycan degradation, Heparan sulfate biosynthesis

MW: 44.9 kDa

Gene Summary: Heparan sulfate biosynthetic enzymes are key components in generating a myriad of distinct heparan sulfate fine structures that carry out multiple biologic activities. The enzyme encoded by this gene is a member of the heparan sulfate biosynthetic enzyme family. It is a type II integral membrane protein and possesses heparan sulfate glucosaminyl 3-O-sulfotransferase activity. The sulfotransferase domain of this enzyme is highly similar to the same domain of heparan sulfate D-glucosaminyl 3-O-sulfotransferase 3B1, and these two enzymes sulfate an identical disaccharide. This gene is widely expressed, with the most abundant expression in liver and placenta. [provided by RefSeq, Dec 2014]

Product images:



Circular map for RC208327