

Product datasheet for SC116374

HS3ST3B1 (NM_006041) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HS3ST3B1 (NM_006041) Human Untagged Clone
Tag:	Tag Free
Symbol:	HS3ST3B1
Synonyms:	3-OST-3B; 3OST3B1; h3-OST-3B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116374 sequence for NM_006041 edited (data generated by NextGen Sequencing)

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ATGGGGCAGCGCCTGAGTGGCGGCAGATCTTGCCTCGATGTCCCCGGCCGCTCCTACCG
CAGCCCGCCGCGCCCCCGCCCGGTGAGGAGGAAGCTCGCGCTGCTCTTCGCCATGCTC
TGCGTCTGGCTCTATATGTTCTGTA CTGTCGCGCCGGCTCCTGCGCCGCGCGCCGGG
CTGCTGCTCCTGGGCTCTGGGTCCCGCGCCGACACGACCCGCCAGCCCTGGCCACAGCT
CCGGACGGGACGCCCCCAGGCTGCCGTTCCGGGCGCGCCAGCCACCCCACTGGCTTCA
GGCAAGGAGATGGCCGAGGGCGCTGCGAGCCCGGAGGAGCAGAGTCCCGAGGTGCCGGAC
TCCCCAAGCCCCATCTCCAGCTTTTTTCAGTGGGTCTGGGAGCAAGCAGCTGCCGAGGCC
ATCATCATCGGCGTGAAGAAGGGCGGCACGCGGGCGCTGCTGGAGTTTCTGCGCGTGCAC
CCCGACGTGCGCGCCGTGGGCGCCGAGCCCATTTCTTCGATCGCAGCTACGACAAGGGC
CTCGCTTGGTACCGGGACCTGATGCCAGAACCCCTGGACGGGCAGATCACCATGGAGAAG
ACGCCCCAGTTACTTCGTACGCGGGAGGCCCCCGCGCATCTCGGCCATGTCCAAGGAC
ACCAAGCTCATCGTGGTGGTGGCGGGACCCGGTGACCAGGGCCATCTCGGACTACACGCAG
ACGCTGTCCAAGCGGCCGACATCCCCACCTTCGAGAGCTTGACGTTCAAAAACAGGACA
GCGGGCCTCATCGACACGTGCGGAGCGCCATCCAGATCGGCATCTACGCCAAGCACCTG
GAGCACTGGCTGCGCCACTTCCCATCCGCCAGATGCTCTTCGTGAGCGGCGAGCGGCTC
ATCAGCGACCCCGCCGGGAGCTGGGCCGCGTGAAGACTTCCCTGGCCCTGAAGAAGGATC
GAGGGCAGCAGCCGCGCCCATTTGCTGGGCAAGACCAAGGGCAGGACCCATCCTGAGATC
GACCGCGAGGTGGTGCAGGCTGCGCGAGTTTACCAGGCTTTCAACCTCAAGTTCTAC
CAGATGACCGGGCAGACTTTGGCTGGGATTGA

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Clone variation with respect to NM_006041.1



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_006041 unedited ATTTTGTAAACGACTCACTATAGGGCGGCACGCGAATTCGCACGAGGGGAAGTGCCGGG GCTGCTCGAGGCTCATTCTTATGACTGCAAGGAGGCAGCCCCGGCGTGCGGCGGTGCGC ACAGTCTATAGTGGCCAGGGCGCGAGAGTGCAACGTCCTCCTGGCCCCGAGCGCGTCGT GCGCCCCGGGAGCAGACCCTCGCCAGCAGTTACCGCCGTCGCCACTTTCCGTTCCAGTT GCAGTCTCTGCCGGCAACATGTCAAGATCCGCCGCCGTACAGCTGCCGCCGCCACCTG GGGAAGATCAGCAGCAGCAGCGGGCGCGGGCACAGGGGGCAATAAACCGATCCACC CGGGCGTCCAGCGTGCCGGGAACCTCTCTGCGCTCACTGCCCGCGGGACCCACGCCA TGTGCTGAGCCATGTCCCTGGCCGCGCCGCGGGCAGCGCATGGGGCAGCGCCTGAGTGG CGGCAGATCTTGCTCGATGTCCCGGGCGGCTCTACCGCAGCCGCGCGCCGCCCGCC GCCGGTGAGGATGAAGCTCGCGTGCTCTTCGCCATGCTCTGCGTCTGGCTCTATATGTT CCTGTACTCGTGCCTGGCTCCTGCGCCCGCGCCGGGGCTGCTGCTCCTGAGCTCTGG GTCCCGCGCCGNACACGACCCGNCAGCCCTGGCCACAGCTNCGGACGGGACGCCCNCCAT GCTGNCGTTCCAGTCGCCGNCAGCCACCCCACTGGCTTCATGCATGGATATGGCCGATGG CGCTGCGAGCCCGATGATCATAGTCCCGATGTGCCGGACTCCCATGCCCATCTNCAGC TTTTTCATGGGGTCTGGGAGTCAGCAGCTGGCGCATGCCATCTCATTTCGGGTGATTAATG GCGNACGCGGNCGCTGCTGNAGTTTTTTCGCGGCACCCCGACTGCGCCCGTGGTTCGCGAG CCCATTTTGGTTGCACTTCGATAGGCCTCCTTGGTCCGGNACTGATGCAAACCCGNACG GCGATACCATGGAATACCC
Restriction Sites:	NotI-NotI
ACCN:	NM_006041
Insert Size:	3000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_006041.1</u> , <u>NP_006032.1</u>
RefSeq Size:	2032 bp
RefSeq ORF:	1173 bp
Locus ID:	9953
UniProt ID:	<u>Q9Y662</u>
Cytogenetics:	17p12
Domains:	Sulfotransfer

Protein Families: Transmembrane

Protein Pathways: Glycosaminoglycan degradation, Heparan sulfate biosynthesis

Gene Summary: The protein encoded by this gene is a type II integral membrane protein that belongs to the 3-O-sulfotransferases family. These proteins catalyze the addition of sulfate groups at the 3-OH position of glucosamine in heparan sulfate. The substrate specificity of individual members of the family is based on prior modification of the heparan sulfate chain, thus allowing different members of the family to generate binding sites for different proteins on the same heparan sulfate chain. Following treatment with a histone deacetylase inhibitor, expression of this gene is activated in a pancreatic cell line. The increased expression results in promotion of the epithelial-mesenchymal transition. In addition, the modification catalyzed by this protein allows herpes simplex virus membrane fusion and penetration. A very closely related homolog with an almost identical sulfotransferase domain maps less than 1 Mb away. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]
Transcript Variant: This variant (1) represents the longer transcript. It encodes the protein.