

Product datasheet for **SC320131**

HS3ST1 (NM_005114) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: HS3ST1 (NM_005114) Human Untagged Clone
Tag: Tag Free
Symbol: HS3ST1
Synonyms: 3OST; 3OST1
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_005114.2
 CCTCTGCGCCCTGGCAGCCAGGAGTCGCCGCCACGACCACCGGGTCTCAGTGGGTGCCTG
 CGCCTTCTCCCCGCCCGCTGCCAGGGCCATCCAGAACTTGCTCTACCCGCCGGGT
 GCTCGGCAGTGCTGCCATGGCCAGCCAGGAGCCTATTTAGGGCGCCGACGGGCTGG
 ACAGAGGCGCGGCTGAGTAATTGAAGGCCTGAAACGCCCATGTGCCACTGACTAGGAGGC
 TTCCCTGCTGCGCACTTCATGACCCAGCGCGCGGCCAGTGAAGCCACCGTGGTGT
 CCAGCATGGCCGCGTGTCTCTGGGCGCGGTGCTGCTGGTGGCCAGCCCAGCTAGTGC
 CTTCCCGCACCGCGAGCTAGGCCAGCAGGAGCTTCTGCGGAAAGCGGGACCCTCCAGG
 ATGACGTCGCGATGGCGTGGCCCCAACGGCTCTGCCAGCAGTTGCCGACACCATCA
 TCATCGGCGTGCCAAGGGCGGCACGCGCAGCTGCTGGAGATGCTCAGCCTGCACCCCG
 ACGTGGCGGCGCGGAGAACGAGGTCCACTTCTCGACTGGGAGGAGCATTACAGCCACG
 GCTTGGGCTGGTACCTCAGCCAGATGCCCTTCTCCTGGCCACACCAGCTCACAGTGGAGA
 AGACCCCGCGTATTTACGTCGCCAAAGTGCCTGAGCGAGTCTACAGCATGAACCCGT
 CCATCCGGCTGCTGCTCATCCTGCGAGACCCGTCGGAGCGGTGCTATCTGACTACACC
 AAGTGTCTACAACCACATGCAGAAGCACAAGCCCTACCCGTCCATCGAGGAGTTCCTGG
 TGCGCGATGGCAGGCTCAATGTGGACTACAAGGCCCTCAACCGCAGCCTTACCACGTGC
 ACATGCAGAACTGGCTGCGCTTTTTCCCGCTGCGCCACATCCACATTGTGGACGGCGACC
 GCCTCATCAGGGACCCCTTCCCTGAGATCCAAAAGGTCGAGAGGTTCTAAAGCTGTCGC
 CGCAGATCAATGCTTCGAACTTCTACTTTAACAAAACCAAGGGCTTTTACTGCTGCGGG
 ACAGCGGCGGGACCGCTTACATGAGTCCAAAGGCCGGCGCACCCCAAGTCGATC
 CAAAACACTCAATAAACTGCACGAATATTTTCATGAGCCAAATAAGAAGTTCCTCGAGC
 TTGTTGGCAGAACATTTGACTGGCACTGATTTGCAATAAGCTAAGCTCAGAACTTCTCT
 ACTGTAAGTTCCTGGTGTACATCTGAGGGGAAAAAGAATTTTAAAAAGCATTTAAGGTAT
 AATTTATTTGTAATAAAGTACTTCTGTACAGTATTAGATTACAAATTGCCATAT
 AACTAGTTATATTTTCTACTTGTAAATGGAGGGCATTGTTGTTTTCATGGTT
 GTTAACATTGTGAATATGTCTCTATATGAAGGAACTAACTATTTCACTGAAAAA
 AAAAGATTTTTTCTGAAAAA



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Restriction Sites:	Please inquire
ACCN:	NM_005114
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_005114.2</u> , <u>NP_005105.1</u>
RefSeq Size:	1965 bp
RefSeq ORF:	924 bp
Locus ID:	9957
UniProt ID:	<u>O14792</u>
Cytogenetics:	4p15.33
Domains:	Sulfotransfer
Protein Families:	Druggable Genome
Protein Pathways:	Heparan sulfate biosynthesis
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 possesses both heparan sulfate glucosaminyl 3-O-sulfotransferase activity, anticoagulant heparan sulfate conversion activity, and is a rate limiting enzyme for synthesis of anticoagulant heparan. This enzyme is an intraluminal Golgi resident protein. [provided by RefSeq, Jul 2008]