

Product datasheet for **SC116375**

HS3ST2 (NM_006043) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HS3ST2 (NM_006043) Human Untagged Clone
Tag:	Tag Free
Symbol:	HS3ST2
Synonyms:	3OST2; 30ST2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_006043, the custom clone sequence may differ by one or more nucleotides

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ATGGCCTATAGGGTCTGGGCCGCGGGGCCACCTCAGCCGCGGAGGGCGCGCAGGCTGCTCTTCGCCT
TCACGCTCTCGCTCTCCTGCACTTACCTGTGTTACAGCTTCTGTGCTGCTGCGACGACCTGGGTCGGAG
CCGCCTCCTCGGCGCGCCTCGCTGCCTCCGCGGCCAGCGGGCGGCCAGAACTTCTCCAGAAGTCC
CGCCCCGTGATCCCTCCGGGCCGACGCCAGCGAGCCAGCGCTCCAGCGGCCCGCCGCCCGGTGC
CCGCCCTCGCCTCTCCGGTTCCAACCACTCCGGCTACCCAAGCTGGGTACCAAGCGGTTGCCCAAGC
CCTCATTGTGGCGTGAAGAAGGGGGCACCCGGCCGTGCTGGAGTTTATCCGAGTACACCCGGACGTG
CGGGCCTTGGGCACGGAACCCCACTTCTTTGACAGGAACTACGGCCGCGGCTGGATTGGTACAGGAGCC
TGATGCCCAGGACCTCGAGAGCCAGATCAGCTGGAGAAGACGCCAGCTACTTTGTCACTCAAGAGGC
TCTCGACGCATCTTCAACATGTCCCGAGACCAAGCTGATCGTGGTTGTGCGGAACCCCTGTGACCCGT
GCCATCTCTGATTACACGCAGACTCTCCAAGAAGCCCGACATCCCGACCTTTGAGGGCCTCTCCTTCC
GCAACCGCACCTGGGCCTGGTGGACGTGTCATGGAACGCCATCCGCATCGGCATGTACGTGCTGCACCT
GGAGAGCTGGCTGCAGTACTTCCCGTAGCTCAGATTCATTCGTGAGTGGCGAGCGACTCATCACTGAC
CCGGCCGCGGAGATGGGGCGAGTCCAGGACTTCTGGGCATTAAGAGATTATCAGGACAAGCACTTCT
ATTTCAACAAGACCAAAGGATTCCTTGGCTTGAAGAAACAGAATCGAGCCTCTGCCTCGATGCTTGGG
CAAATCAAAGGAGAACTCATGTACAGATTGATCCTGAAGTGATAGACCAGCTCCGAGAATTTATAGA
CCGTATAATATCAAATTTATGAAACCGTTGGGCAGGACTTCAGTGGGAATAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_006043 unedited NGGTCAAATTTGTATACGACTCATATAGGCGGCNCGGAATTCGCACGAGGCGCGGGGC CACCTCAGCCGCGGAGGGCGCGCAGGCTGCTCTTCGCCTTCACGCTCTCGCTCTCCTGCA CTTACCTGTGTTACAGCTTCTGTGCTGCTGCGACGACCTGGGTTCGGAGCCGCCTCCTCG GCGCGCTCGCTGCCTCCGCGGCCAGCGCGGGCGGCCAGAACTTCTCCAGAAGTCCC GCCCTGTGATCCCTCCGGGCCAGCCAGCGAGCCAGCGCTCCAGCGCGCCCGCCG CCGCCGTGCCCCCCTCGCCTCTCCGGTTCCAACCACTCCGGCTCACCCAAGCTGGGTA CCAAGCGTTGCCCAAGCCCTCATTGTGGCGTGAAGAAGGGGGCACCCGGGCGTGC TGGAGTTTATCCGAGTACACCCGACGTGCGGGCCTTGGGCACGGAACCCCACTTCTTTG ACAGGAACACGGCCGCGGGCTGGATTGGTACAGACAGGATACTCGTGTGGCTACTCAGA TATCAAGAATAAGATGAAAACATCCCTGTTGTGTTGGTTCAAGCCAGCTTAACTGACAGA TTCCTCTCCTGCTCCCTAGCCACTGGTAGATATGCCTGCCTTCTGCCTCCATCANGTGT GAAGAATTTGAGCTGTTGAGTAATCCGCCAAGATTGTCCAGCTAGCAAGATTGAAACCC CGCAGCCTGCTCCTGGACCCTGAGCACGGTGCCTTNTCCAGCGTCTNCCTGTTCTCCAGC CACCAGCACTGCTTTCGGTCAGCCCTTCCGCACACTCTACCCANACTCCTGCAACCAGCT NCGAACCGGCTCTCTCATGACACATCTTGTGTCATGGTGACCATGCCGAAGTGCANACTGGA TCTNCTCT
Restriction Sites:	NotI-NotI
ACCN:	NM_006043
Insert Size:	4310 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:	NM_006043.1 , NP_006034.1
RefSeq Size:	1968 bp
RefSeq ORF:	1104 bp
Locus ID:	9956
UniProt ID:	Q9Y278
Cytogenetics:	16p12.2
Domains:	Sulfotransfer
Protein Families:	Transmembrane

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 is a type II integral membrane protein and possesses heparan sulfate glucosaminyl 3-O-sulfotransferase activity. This gene is expressed predominantly in brain and may play a role in the nervous system. [provided by RefSeq, Jul 2008]