

Product datasheet for **SC317658**

HS6ST1 (NM_004807) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HS6ST1 (NM_004807) Human Untagged Clone
Tag:	Tag Free
Symbol:	HS6ST1
Synonyms:	HH15; HS6ST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004807, the custom clone sequence may differ by one or more nucleotides

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ATGCGGGCGGCGCGCCGGCGGCGGACAGGACCATGGTTGAGCGCGCCAGCAAGTTCGTGCTGGTGGTGGCGG
GCTCGGTGTGCTTCATGCTCATCTTGTACCAGTACGCGGGCCAGGACTGAGCCTGGGCGCGCCCGGCGG
CCGCGCGCCGCCGACGACCTGGACCTGTTCCCCACACCCGACCCCACTACGAGAAGAAGTACTACTTTC
CCGGTCCGCGAGCTGGAGCGCTCGCTGCGCTTCGACATGAAGGGCGACGACGTGATCGTCTTCTGCACA
TCCAGAAGACGGGCGGCACCACCTTCGGCCGCCACCTCGTGCAGAACGTACGCCTCGAGGTGCCGTGCGA
CTGCCGGCCCGGCGAGAAGAAGTGCACCTGCTACCGGCCAACCCCGCGAGACTTGGCTCTTCTCCCGC
TTCTCCACCGGTGGAGCTGCGGGCTGCACGCCGACTGGACCGAGCTACCAACTGCGTGCCCGGCGTGC
TGGACCGCCGCGACTCCGCCGCGCTGCGCACGCCAGGAAGTTCTACTACATCACCTGCTACGAGACCC
CGTGTCCCGCTACCTGAGCGAGTGGCGGCATGTGCAGAGGGGTGCCACGTGGAAGACGTGCTTGCATATG
TGTGATGGGCGCACGCCACGCCTGAGGAGCTGCCGCCCTGCTACGAGGGCACGGACTGGTGGGGTGCAC
CGCTACAGGAGTTCATGGACTGCCCGTACAACCTGGCCAAACAACCCGAGGTGCGCATGCTGGCCGACCT
GAGCCTGGTGGGCTGCTACAACCTGTCTTTCATCCCCGAGGGCAAGCGGGCCAGCTGCTGCTCGAGAGC
GCCAAGAAGAACCTGCGGGGCAATGGCCTTCTTCGGCCTGACCGAGTTCAGCGCAAGACGCGAGTACCTGT
TCGAGCGGACGTTCAACCTCAAGTTCATCCGGCCCTTTCATGCAGTACAATAGCACGCGGGCGGGCGGCGT
GGAGGTGGATGAAGACACCATCCGGCGCATCGAGGAGCTCAACGACCTGGACATGCAGCTGTACGACTAC
GCCAAGGACCTTTCAGCAGCGCTACCAAGTACAAGCGGACGCTGGAGCGCAGGGAGCAGCGCCTGAGGA
GCCGCGAGGAGCGTCTGCTGCACCGGGCAAGGAGGCACTGCCGCGGGAGGATGCCGACGAGCCGGGCCG
CGTGCCACCGAGGACTACATGAGCCACATCATTGAGAAGTGGTAG
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Restriction Sites:	Please inquire
ACCN:	NM_004807



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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:

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_004807.2](#), [NP_004798.3](#)

RefSeq Size: 3966 bp

RefSeq ORF: 1236 bp

Locus ID: 9394

UniProt ID: [O60243](#)

Cytogenetics: 2q14.3

Protein Families: Transmembrane

Protein Pathways: Heparan sulfate biosynthesis

Gene Summary:

The protein encoded by this gene is a member of the heparan sulfate biosynthetic enzyme family. Heparan sulfate biosynthetic enzymes are key components in generating a myriad of distinct heparan sulfate fine structures that carry out multiple biological activities. This enzyme is a type II integral membrane protein and is responsible for 6-O-sulfation of heparan sulfate. This enzyme does not share significant sequence similarity with other known sulfotransferases. A pseudogene located on chromosome 1 has been found for this gene. [provided by RefSeq, Jul 2008]