

Product datasheet for **RG219550**

HS6ST1 (NM_004807) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HS6ST1 (NM_004807) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HS6ST1
Synonyms:	HH15; HS6ST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219550 representing NM_004807 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTGAGCGCGCCAGCAAGTTCGTGCTGGTGGTGGCGGGCTCGGTGTGCTTCATGCTCATCTTGTACC
AGTACGCGGGCCAGGACTGAGCCTGGCGCGCCCGCGCGCCCGCCGACGACCTGGACCTGTT
CCCCACGCCGACCCCACTACGAGAAGAAGTACTACTCCCGGTCGCGAGCTGGAGCGCTCGCTGCGC
TTCGACATGAAGGGCAGCAGCTGATCGTCTTCTGCACATCCAGAAGACGGCGGCACCACCTTCGGCC
GCCACCTCGTGCAGAACGTACGCTCGAGGTGCCGTGCGACTGCCGGCCCGCCAGAAGAAGTGCACCTG
CTACCGGCCAACCGCCGAGACTTGGCTCTTCTCCCGTTCCTCCACCGGCTGGAGCTGCGGGCTGCAC
GCCGACTGGACCGAGCTACCAACTGCGTGCCCGCGTGTGGACCGCCGCGACTCCGCCGCGTGCACA
CGCCAGGAAGTTCTACTACATCACCTGCTACGAGACCCCGTGTCCCGTACCTGAGCGAGTGGCGGCA
TGTGCAGAGGGGTGCCACGTGGAAGACGTGTTGCATATGTGTGATGGGCGCACGCCACGCTGAGGAG
CTGCCGCCCTGCTACGAGGGCAGGACTGGTGGGCTGCACGCTACAGGAGTTTATGGACTGCCCGTACA
ACCTGGCCAACAACCGCCAGGTGCGCATGCTGGCCGACCTGAGCCTGGTGGGCTGCTACAACCTGTCTT
CATCCCCGAGGGCAAGCGGGCCAGCTGCTGCTCGAGAGCGCCAAGAAGAACCTGCGGGGCATGGCCTT
TTCGGCCTGACCGAGTTCCAGCGCAAGACGACGTACCTGTTGAGCGGACGTTCAACCTCAAGTTTATCC
GGCCCTTCATGCAGTACAATAGCACGCGGGCGGGCGGCTGGAGGTGGATGAAGACACCATCCGGCGCAT
CGAGGAGCTCAACGACCTGGACATGCAGCTGTACGACTACGCAAGGACCTCTCCAGCAGCGCTACCAG
TACAAGCGGCAGCTGGAGCGCAGGGAGCAGCGCTGAGGAGCCGCGAGGAGCGTCTGCTGCACCGGGCCA
AGGAGGCACTGCCGCGGAGGATGCCGACGAGCCGGCGCGTGCCACCGAGGACTACATGAGCCACAT
CATTGAGAAGTGG

ACGCGTACGCGGGCGCTCGAG - GFP Tag - GTTTAA



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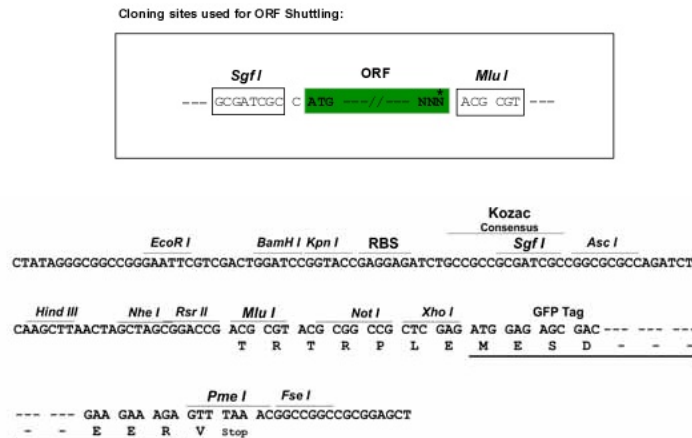
Protein Sequence: >RG219550 representing NM_004807
 Red=Cloning site Green=Tags(s)

MVERASKFVLVVAGSVCFMLILYQYAGPGLSLGAPGGRAPPDDLDFPTDPHYEKKYFFVRELESLR
 FDMKGGDDVIVFLHIQKTGGTTFGRHLVQNVRLVPCDCRPGQKKCTCYRPNRRETWLF SRFSTGWSCGLH
 ADWTEL TNCVPGVLD RRRSAALRTPRKFYIITLLRDPVSRYLSEWRHVQRGATWKTSLHMCDGRTPTEE
 LPPCYEGTDWSGCTLQEFMDCPYNLANNRQVRMLADLSLVGCYNLSF IPEGKRAQLLLES AKKNLRGMAF
 FGLTEFQRKTQYLFERTFNLFKIRPFMQYNSTRAGGVEVDEDTIRRIEELNDLDMQLYDYAKDLFQQRYQ
 YKRQLERREQRLRSREERLLHRAKEALPREDADEPGRVPTEDYMSHIEKW

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004807

ORF Size: 1203 bp

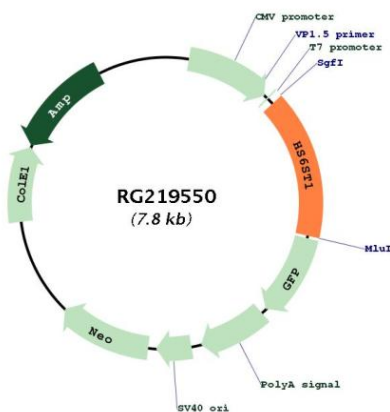
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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:	<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_004807.2, NP_004798.3</u>
RefSeq Size:	3966 bp
RefSeq ORF:	1236 bp
Locus ID:	9394
UniProt ID:	<u>O60243</u>
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]

Product images:



Circular map for RG219550