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Product datasheet for RC219550

HS6ST1 (NM_004807) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HS6ST1 (NM_004807) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HS6ST1
Synonyms:	HH15; HS6ST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC219550 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGGCGGCGGCGCGCCGGCGGCAGGACCATGGTTGAGCGCGCCAGCAAGTTCGTGCTGGTGGTGGCGG
GCTCGGTGTGCTTCATGCTCATCTTGTACCAGTACGCGGGCCCAGGACTGAGCCTGGGCGCGCCCGGCGG
CCGCGCGCCGCCCGACGACCTGGACCTGTTCCCCACGCCCGACCCCCACTACGAGAAGAAGTACTACTTC
CCGGTCCGCGAGCTGGAGCGCTCGCTGCGCTTCGACATGAAGGGCGACGACGTGATCGTCTTCCTGCACA
TCCAGAAGACGGGCGGCACCACCTTCGGCCGCCACCTCGTGCAGAACGTACGCCTCGAGGTGCCGTGCGA
CTGCCGGCCCGGCCAGAAGAAGTGCACCTGCTACCGGCCCAACCGCCGCGAGACTTGGCTCTTCTCCCGC
TTCTCCACCGGCTGGAGCTGCGGGCTGCACGCCGACTGGACCGAGCTCACCAACTGCGTGCCCGGCGTGC
TGGACCGCCGCGACTCCGCCGCGCTGCGCACGCCCAGGAAGTTCTACTACATCACCCTGCTACGAGACCC
CGTGTCCCGCTACCTGAGCGAGTGGCGGCATGTGCAGAGGGGTGCCACGTGGAAGACGTCGTTGCATATG
TGTGATGGGCGCACGCCCACGCCTGAGGAGCTGCCGCCCTGCTACGAGGGCACGGACTGGTCGGGCTGCA
CGCTACAGGAGTTCATGGACTGCCCGTACAACCTGGCCAACAACCGCCAGGTGCGCATGCTGGCCGACCT
GAGCCTGGTGGGCTGCTACAACCTGTCCTTCATCCCCGAGGGCAAGCGGGCCCAGCTGCTGCTCGAGAGC
GCCAAGAAGAACCTGCGGGGCATGGCCTTCTTCGGCCTGACCGAGTTCCAGCGCAAGACGCAGTACCTGT
TCGAGCGGACGTTCAACCTCAAGTTCATCCGGCCCTTCATGCAGTACAATAGCACGCGGGCGGGCGGCGT
GGAGGTGGATGAAGACACCATCCGGCGCATCGAGGAGCTCAACGACCTGGACATGCAGCTGTACGACTAC
GCCAAGGACCTCTTCCAGCAGCGCTACCAGTACAAGCGGCAGCTGGAGCGCAGGGAGCAGCGCCTGAGGA
GCCGCGAGGAGCGTCTGCTGCACCGGGCCAAGGAGGCACTGCCGCGGGAGGATGCCGACGAGCCGGGCCG
CGTGCCCACCGAGGACTACATGAGCCACATCATTGAGAAGTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC219550 protein sequence
Red=Cloning site Green=Tags(s)

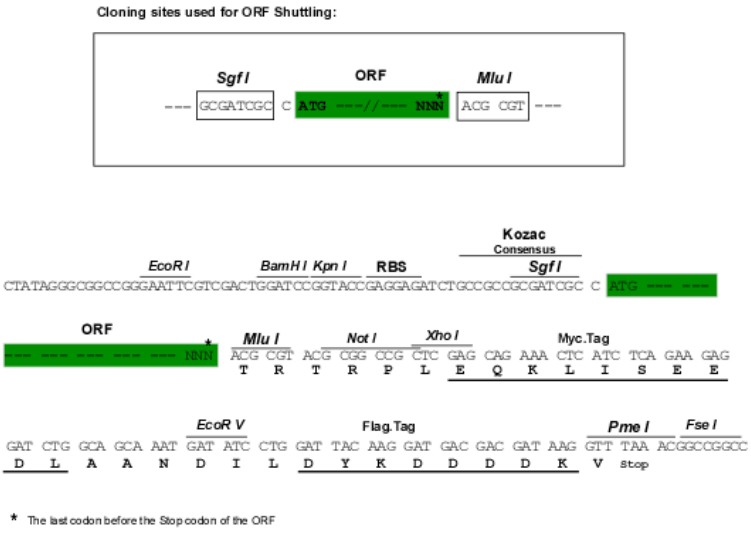
MRRRRAGGRTMVERASKFVLVVAGSVCFMLILYQYAGPGLSLGAPGGRAPPDDLDLFPTPDPHYEKKYYF
PVRELERSLRFDMKGDDVIVFLHIQKTGGTTFGRHLVQNVRLEVPCDCRPGQKKCTCYRPNRRETWLFSR
FSTGWSCGLHADWTELTNCVPGVLDRRDSAALRTPRKFYYITLLRDPVSRYLSEWRHVQRGATWKTSLHM
CDGRTPTPEELPPCYEGTDWSGCTLQEFMDCPYNLANNRQVRMLADLSLVGCYNLSFIPEGKRAQLLLES
AKKNLRGMAFFGLTEFQRKTQYLFERTFNLKFIRPFMQYNSTRAGGVEVDEDTIRRIEELNDLDMQLYDY
AKDLFQQRYQYKRQLERREQRLRSREERLLHRAKEALPREDADEPGRVPTEDYMSHIIEKW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6450_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004807

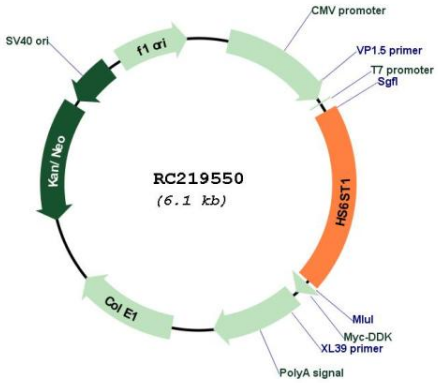
ORF Size: 1233 bp

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.

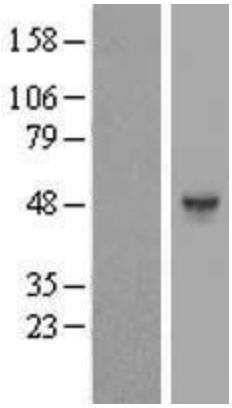
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	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_004807.1, NP_004798.2
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
MW:	48.2 kDa
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 RC219550



Western blot validation of overexpression lysate (Cat# [LY417741]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219550 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).