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Product datasheet for RG221187

HS6ST3 (NM_153456) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HS6ST3 (NM_153456) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HS6ST3
Synonyms:	HS6ST-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG221187 representing NM_153456
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATGAAAGGTTCAACAAGTGGCTGCTGACGCCGGTGCTCACTCTCCTCTTCGTGGTCATCATGTACC
AGTACGTGTCCCCCTCCTGCACCAGCTCCTGCACCAACTTCGGGGAGCAGCCCCGCGCGGGGGAGGCCGG
CCCGCCCGCCGTCCCGGGTCCCGCCCGCCGGGCTCAGGCGCCGCCGGAGGAGTGGGAGCGGCGGCCCCAG
TTGCCCCCGCCGCCCCGGGGGCCCCCCGAGGGACCTCGGGGGGCCGCGGCGCCGGAGGAGGAGGACGAGG
AGCCCGGAGACCCCCGGGAGGGGGAGGAAGAGGAGGAGGAAGACGAGCCGGACCCCGAGGCCCCGGAAAA
CGGCTCCCTGCCCCGATTCGTGCCGCGCTTCAACTTCAGCCTGAAGGACCTGACCCGCTTCGTGGATTTC
AACATCAAAGGGCGCGACGTGATCGTGTTCCTCCACATCCAGAAGACGGGGGGCACCACTTTCGGCCGGC
ACCTGGTGAAGAACATCCGGCTGGAGCAGCCTTGTAGCTGCAAAGCGGGTCAGAAGAAGTGCACCTGCCA
CCGGCCTGGCAAGAAGGAGACGTGGCTCTTCTCCCGCTTCTCCACCGGCTGGAGCTGCGGGCTGCACGCC
GACTGGACGGAGCTCACCAACTGCGTGCCGGCCATCATGGAGAAGAAGGACTGTCCCCGCAACCACAGCC
ACACCAGGAATTTCTATTACATCACAATGTTACGGGATCCAGTGTCACGTTACCTGAGCGAGTGGAAACA
TGTCCAGAGAGGGGCCACTTGGAAAACCTCTCTTCATATGTGTGATGGAAGAAGCCCCACCCCAGATGAG
CTGCCTACCTGCTACCCTGGGGATGACTGGTCTGGGGTCAGCTTGCGGGAGTTTATGGATTGCACCTACA
ACCTGGCTAACAATCGCCAGGTGCGCATGCTGGCTGACCTCAGCCTGGTGGGCTGCTATAACTTGACTTT
CATGAACGAGAGTGAAAGAAACACCATCCTGTTGCAGAGTGCAAAGAACAACCTGAAGAACATGGCCTTC
TTTGGGCTCACTGAGTTCCAGAGGAAGACACAGTTTCTCTTTGAGAGAACATTCAACCTCAAGTTCATCT
CCCCCTTCACACAGTTCAACATCACGCGGGCTTCTAACGTGGAGATCAACGAGGGTGCCCGCCAACGCAT
TGAGGATCTAAACTTCCTGGACATGCAGCTTTACGAGTATGCAAAAGATCTCTTCCAGCAGCGCTACCAC
CACACCAAGCAGCTAGAGCACCAGAGGGACCGCCAGAAGCGGCGGGAGGAGCGGAGGCTGCAGCGAGAGC
ACAGGGACCACCAGTGGCCCAAAGAAGATGGGGCTGCAGAAGGGACTGTCACCGAGGACTACAACAGCCA
GGTGGTGAGATGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

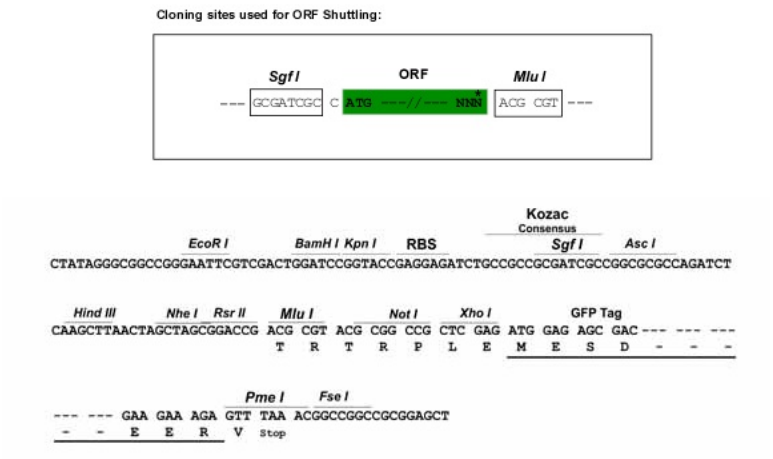
>RG221187 representing NM_153456
Red=Cloning site Green=Tags(s)

MDERFNKWLLTPVLTLLFVVIMYQYVSPSCTSSCTNFGEQPRAGEAGPPAVPGPARRAQAPPEEWERRPQ
LPPPPRGPPEGPRGAAAPEEEDEEPGDPREGEEEEEEDEPDPEAPENGSLPRFVPRFNFSLKDLTRFVDF
NIKGRDVIVFLHIQKTGGTTFGRHLVKNIRLEQPCSCKAGQKKCTCHRPGKKETWLFSRFSTGWSCGLHA
DWTELTNCVPAIMEKKDCPRNHSHTRNFYYITMLRDPVSRYLSEWKHVQRGATWKTSLHMCDGRSPTPDE
LPTCYPGDDWSGVSLREFMDCTYNLANNRQVRMLADLSLVGCYNLTFMNESERNTILLQSAKNNLKNMAF
FGLTEFQRKTQFLFERTFNLKFISPFTQFNITRASNVEINEGARQRIEDLNFLDMQLYEYAKDLFQQRYH
HTKQLEHQRDRQKRREERRLQREHRDHQWPKEDGAAEGTVTEDYNSQVVRW

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153456

ORF Size: 1413 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

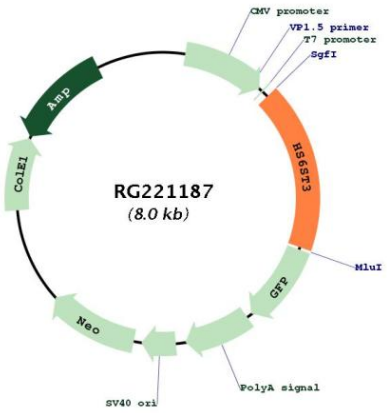
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_153456.3
RefSeq Size:	7817 bp
RefSeq ORF:	1416 bp
Locus ID:	266722
UniProt ID:	Q8IZP7
Cytogenetics:	13q32.1
Protein Families:	Transmembrane
Protein Pathways:	Heparan sulfate biosynthesis
Gene Summary:	Heparan sulfate (HS) sulfotransferases, such as HS6ST3, modify HS to generate structures required for interactions between HS and a variety of proteins. These interactions are implicated in proliferation and differentiation, adhesion, migration, inflammation, blood coagulation, and other diverse processes (Habuchi et al., 2000 [PubMed 10644753]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG221187