

Product datasheet for **RG220043**

HS6ST2 (NM_001077188) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HS6ST2 (NM_001077188) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HS6ST2
Synonyms:	MRXSPM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG220043 representing NM_001077188
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCACTGCCTGCGTGTGCAGTCCGGGAGTTCGAGCCGCGCGCAACCGGAGCGAGGAGCGCCCGTCC
 GCACCACTGTCCCCCGCGGCATTCCAGAGTAGAGGCCGAATTGGCAGCGAGCCGCCCGGGTTCGGTTCGC
 CGCCTCAGTTCGCGCGGGCCCTCTAGGGTGTGTCTCACGGATTCCACACCCGCGCCCTCTGGACAAG
 CCCCAGAAAGCGTCTTCTCCCTGGCGGGAGCCGCGTGCGCCCGCTTTTCGCGTGTCTGCCGGGCC
 GCCGAGGCGGATGCACGTCTCAGGCGACGCTGGGACCTGGGCTCCCTCTGCCGGGCCCTGCTCACTCG
 GGGCTGGCCGCTGGCCACTCGCTGAAGCACGTGCTCGTGCATCTTCTCCAAGATTTTCGGCCCC
 ATGGCCAGCGTCGGGAACATGGATGAGAAATCCAACAAGCTGCTGCTAGCTTTGGTGTGCTCTTCTAT
 TTGCCGTGATCGTCTCAATACGTGTGCCCGGCACAGAATGCCAGCTCCTCCGCTGCAGGCGTTCAG
 CTCGCCGTGCCGACCGTACCGCTCGGAGGATGAGAGCTCCGCCAGGTTTCGTGCCCGCTACAATTTCC
 ACCCGCGCGACCTCTCGCAAGGTAGACTTCGACATCAAGGGCGATGACCTGATCGTGTCTCTGCACA
 TCCAGAAGACCGGGGCCACCACTTTCCGGCCCACTTGGTGCCTAACATCCAGCTGGAGCAGCCGTGCGA
 GTGCCCGTGGGTGAGAAGAAATGCACTTGCCACCGCGCGGTAAGCGGGAAACCTGGCTCTTCTCCAGG
 TTCTCCACGGGCTGGAGCTGCGGGTTCACGCGGACTGGACCGAGCTCACCAGCTGTGTGCCCTCCGTGG
 TGGACGGCAAGCGCGACGCCAGGCTGAGACCGTCCAGTGGAGGATTTTTCAGATTCTAGATGCAGCAAG
 TAAGGATAAACGGGTTCTCAAACACTAACGCAGGCGCAACTCTCCGTATCCACAAAGACCCGGAAC
 ACATCTAAGAGTGGGAAGAACTTCCACTACATCACCATCCTCCGAGACCCAGTGTCCCGTACTTGAGTG
 AGTGGAGGATGTCCAGAGAGGGCAACATGAAAGCATCCCTGCATGTCTGCGATGGAAGGCCTCCAAC
 CTCGAAGAGCTGCCAGCTGTACACTGGCGATGACTGGTCTGGCTGCCCCCTCAAAGAGTTTATGGAC
 TGTCCTACAATCTAGCCAACAACCGCCAGGTGCGCATGCTCTCCGACCTGACCTGGTAGGCTGTACA
 ACCTCTGTGCATGCCTGAAAAGCAAAGAAACAAGGTCCTTCTGAAAAGTCCAAGTCAAATCTGAAGCA
 CATGGCGTTCTTCGGCCTCACTGAGTTTCAGCGGAAGACCCAATATCTGTTTGAGAAAACCTTCAACATG
 AACTTTATTTCCGCAATTTACCCAGTATAATACCACTAGGGCTCTAGTGTAGAGATCAATGAGGAAATTC
 AAAAGCGTATTGAGGGACTGAATTTCTGGATATGGAGTGTACAGCTATGCCAAAGACCTTTTTTTGCA
 GAGGTATCAGTTTATGAGGCAGAAAGAGCATCAGGAGGCCAGGCGAAAGCGTCAGGAACAACGCAATTT
 CTGAAGGGAAGGCTCCTTCAGACCCATTTCCAGAGCCAGGCTCAGGGCCAGAGCCAGAATCCGAATCAGA
 ATCAGAGTCAGAACCAATCCGAATGCCAATCAGAACCTGACTCAGAATCTGATGCAGAATCTGACTCA
 GAGTTTGAAGCAGAAAGGAGAACCGGAAAGCCGAAGCAGAACTCAGGCAAGGAGCAGAATGATAACACC
 AGCAATGGCACCACGACTACATAGGCAGTGTAGAGAAATGGCGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG220043 representing NM_001077188
 Red=Cloning site Green=Tags(s)

MALPACAVREFEPPRQPERGAPVRTTCPRRHSRVEAELASRPGSVAASVRAGPPRGVSHGFHTRPLLDK
 PRKASSSLAGAACAPLFAALLSRGRRRMHVLRRRWDLGS LCRALLTRGLAALGHSLKHLVGAIFSKIFGP
 MASVGNMDEKSNKLLALLVMLFLFAVIVLQYVCPGTECQLRLQAFSSPVDPYRSEDESSARFVPRYNF
 TRGDLLRKVDFDIKGGDLIVFLHIQKTGGTTFGRHLVRNIQLEQPCECRVQKKCTCHRP GKRETWLF SR
 FSTGWSCGLHADWTELTSCVPSVVDGKR DARLRPSRWRIFQILDAASKDKRGSPNTNAGANSPSSTKTRN
 TSKSGKNFYITILRDPVSRYLSEWRHVQRGATWKASLHVCDGRPPTSEELPSCYTGDDWSGCPLKEFMD
 CPYNLANNRQVRMLSDLTVGCYNLSVMPEKQRNKVLLSAKSNLKHMAFFGLTEFQRKTQYLFEKTFNM
 NFISPFTQYNTTRASSVEINEEIQKRIEGLNFLDMELYSYAKDLFLQRYQFMRQKEHQEARRKRQEQRKF
 LKGRLLQTHFQSQQGQSQNPQNQSQNPNPANQNL TQNLMQNL TQSLSQKENRESPKQNSGKEQNDNT
 SNGTNDYIGSVEKWR

TRTRPLE – GFP Tag – V

Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_001077188

ORF Size: 1935 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_001077188.2](#)

RefSeq Size: 4576 bp

RefSeq ORF: 1938 bp

Locus ID: 90161

UniProt ID: [Q96MM7](#)

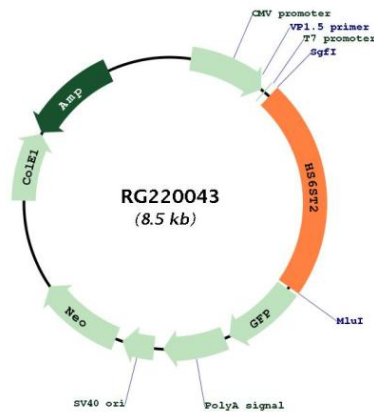
Cytogenetics: Xq26.2

Protein Families: Transmembrane

Protein Pathways: Heparan sulfate biosynthesis

Gene Summary: Heparan sulfate proteoglycans are ubiquitous components of the cell surface, extracellular matrix, and basement membranes, and interact with various ligands to influence cell growth, differentiation, adhesion, and migration. This gene encodes a member of the heparan sulfate (HS) sulfotransferase gene family, which catalyze the transfer of sulfate to HS. Different family members and isoforms are thought to synthesize heparan sulfates with tissue-specific structures and functions. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG220043