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Product datasheet for SC306301

HS6ST2 (NM_147175) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HS6ST2 (NM_147175) Human Untagged Clone
Tag:	Tag Free
Symbol:	HS6ST2
Synonyms:	MRXSPM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_147175, the custom clone sequence may differ by one or more nucleotides

ATGGCACTGCCTGCGTGTGCAGTCCGGGAGTTCGAGCCGCCGCGGCAACCGGAGCGAGGAGCGCCCGTCC
GCACCACCTGTCCCCGCCGGCATTCCAGAGTAGAGGCCGAATTGGCAGCGAGCCGGCCCGGGTCGGTCGC
CGCCTCAGTTCGCGCGGGCCCTCCTAGGGGTGTGTCTCACGGATTCCACACCCGGCCGCTCCTGGACAAG
CCCCGAAAGGCGTCTTCTTCCCTGGCGGGAGCCGCGTGCGCCCCGCTTTTCGCGCTGCTGTCCCGGGGCC
GCCGCAGGCGGATGCACGTCCTCAGGCGACGCTGGGACCTGGGCTCCCTCTGCCGGGCCCTGCTCACTCG
GGGCCTGGCCGCCCTGGGCCACTCGCTGAAGCACGTGCTCGGTGCGATCTTCTCCAAGATTTTCGGCCCC
ATGGCCAGCGTCGGGAACATGGATGAGAAATCCAACAAGCTGCTGCTAGCTTTGGTGATGCTCTTCCTAT
TTGCCGTGATCGTCCTCCAATACGTGTGCCCCGGCACAGAATGCCAGCTCCTCCGCCTGCAGGCGTTCAG
CTCCCCGGTGCCGGACCCGTACCGCTCGGAGGATGAGAGCTCCGCCAGGTTCGTGCCCCGCTACAATTTC
ACCCGCGGCGACCTCCTGCGCAAGGTAGACTTCGACATCAAGGGCGATGACCTGATCGTGTTCCTGCACA
TCCAGAAGACCGGGGGCACCACTTTCGGCCGCCACTTGGTGCGTAACATCCAGCTGGAGCAGCCGTGCGA
GTGCCGCGTGGGTCAGAAGAAATGCACTTGCCACCGGCCGGGTAAGCGGGAAACCTGGCTCTTCTCCAGG
TTCTCCACGGGCTGGAGCTGCGGGTTGCACGCCGACTGGACCGAGCTCACCAGCTGTGTGCCCTCCGTGG
TGGACGGCAAGCGCGACGCCAGGCTGAGACCGTCCAGGAACTTCCACTACATCACCATCCTCCGAGACCC
AGTGTCCCGGTACTTGAGTGAGTGGAGGCATGTCCAGAGAGGGGCAACATGGAAAGCATCCCTGCATGTC
TGCGATGGAAGGCCTCCAACCTCCGAAGAGCTGCCCAGCTGCTACACTGGCGATGACTGGTCTGGCTGCC
CCCTCAAAGAGTTTATGGACTGTCCCTACAATCTAGCCAACAACCGCCAGGTGCGCATGCTCTCCGACCT
GACCCTGGTAGGCTGCTACAACCTCTCTGTCATGCCTGAAAAGCAAAGAAACAAGGTCCTTCTGGAAAGT
GCCAAGTCAAATCTGAAGCACATGGCGTTCTTCGGCCTCACTGAGTTTCAGCGGAAGACCCAATATCTGT
TTGAGAAAACCTTCAACATGAACTTTATTTCGCCATTTACCCAGTATAATACCACTAGGGCCTCTAGTGT
AGAGATCAATGAGGAAATTCAAAAGCGTATTGAGGGACTGAATTTTCTGGATATGGAGTTGTACAGCTAT
GCCAAAGACCTTTTTTTGCAGAGGTATCAGTTTATGAGGCAGAAAGAGCATCAGGAGGCCAGGCGAAAGC
GTCAGGAACAACGCAAATTTCTGAAGGGAAGGCTCCTTCAGACCCATTTCCAGAGCCAGGGTCAGGGCCA
GAGCCAGAATCCGAATCAGAATCAGAGTCAGAACCCAAATCCGAATGCCAATCAGAACCTGACTCAGAAT
CTGATGCAGAATCTGACTCAGAGTTTGAGCCAGAAGGAGAACCGGGAAAGCCCGAAGCAGAACTCAGGCA
AGGAGCAGAATGATAACACCAGCAATGGCACCAACGACTACATAGGCAGTGTAGAGAAATGGCGTTAA

Restriction Sites: Please inquire

ACCN: NM_147175

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_147175.2, NP_671704.2
RefSeq Size:	4441 bp
RefSeq ORF:	1818 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] Transcript Variant: This variant (S) lacks an alternate in-frame segment, compared to variant L, resulting in a shorter protein (isoform S).