

Product datasheet for **MR230293**

Hs6st2 (NM_001290468) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hs6st2 (NM_001290468) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hs6st2
Synonyms:	6OST2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230293 representing NM_001290468
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGAGAAATCTAACAAGCTGCTGCTGGCTTTGGTATGCTCTTCTATTTGCGGTGATCGTCTCC
 AATACGTGTGCCCGGCACAGAATGCCAGCTCCTCCGCCTGCAGGCGTTACGCTCCCGGTGCCGATCC
 GTACCGCTCGGAGGATGAGAGTTCGGCCAGTTTGTACCCGCTACAATTCAGCCCGCGGATCTCCTG
 CGCAAGGTAGACTTCGACATCAAGGGCGATGACCTGATCGTGTTCCTGCACATCCAGAAGACTGGGGCA
 CCCTTTTGGCCGTACCTGGTGCACAACATCCAGCTGGAGCAGCCATGTGAGTGCCGCGTGGGGCAGAA
 GAAATGCACTTGCCACCGGCCGGTAAGAGGGAGACCTGGCTCTTCTCCAGGTTCTCCACCGCTGGAGC
 TGCGGGCTGCATGCCACTGGACCGAGCTACCAGCTGCGTGCCGGCGGTGGTGGATGGCAAGCGCGACG
 CCAGGCTGAGACCTTCCAGGTGGAGGATTTTTCAGATTCTAGATGGAACAAGTAAGGATAGATGGGGTTC
 TTCAAACCTCAACTCAGGCGCAACTCTCCATCCTCCACAAAGCCCCGGAGCACATCGAAGAGTGGGAAG
 AACTTCCATTACATTACCATCCTGAGAGACCCAGTGTCACGGTACTTGAGTGAATGGAGGATGTCCAGA
 GAGGAGCAACTTGAAAGCATCCCTGCACGTCTGTGATGGAAGGCCCCAACTCTGAAGAGCTGCCAG
 CTGCTACACCGGTGATGACTGGTCTGGATGCCCTCTCAAAGAGTTCATGGACTGTCCCTATAATCTGGCC
 AACACCGCCAAGTTCGCATGCTATCTGACCTGACTCTAGTGGGATGCTACAACCTCTCTGTATGCCTG
 AAAAGCAAAGAAACAAGTCTTCTGAAAAGTGCCAAATCCAATCTGAAGCACATGGCGTCTTTGGCCT
 CACTGAGTTTTCAGCGAAGACCCAGTACCTGTTTGAAGAAGCTTCAACATGAATTTATCTCGCCGTTT
 ACCCAGTATAATACCAGTGGGCTCTAGTGTGAGATCAATGAGGAAATCCAAAAGCGTATTGAGGGAC
 TGAATTTTCTGGATATGGAGTTGTACAGCTATGCTAAAGACCTTTTCTGCAAAGGTATCAGTTTCATGAG
 GCAGAAAGAACATCAGGATGCCAGGCGGAAGCGTCAGGAGCAACGCAAAATTTCTGAAGGGAAGTTCCCT
 CAGACCCATTTCCAGAGTCAGAGTCAGGGTCAGAGCCAGAGCCAGAGTCCAGGTCAGAATCTGAGTCAGA
 ATCCAAATCCTAACCCAAATCAGAACCTGACTCAGAACCTGAGTCACAATCTGACTCCGAGTTCAAATCC
 CAATTCGACCCAGAGGAGAACCGGGGAAGTCAGAAGCAGGGCTCAGGCCAGGGACAAGGTGATAGCGGC
 ACCAGCAATGGCACCAATGACTACATAGGGAGCGTAGAGACATGGCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230293 representing NM_001290468
 Red=Cloning site Green=Tags(s)

MDEKSNKLLLLALVMLFLFAVIVLQYVCPGTECQLLRQLQAFSSPVPDPYRSEDESSARFVPRYNFSRGDLL
 RKVDFDIKGDLLIVFLHIQKTGGTTFRHLVRNIQLEQPCECRVGQKKCTCHRPKRETWLSRFSTGWS
 CGLHADWTELTSCVPAVVDGKRDLRPSRWIRFQILDGTSKDRWGSSNFSNGANSPPSTKPRSTKSGK
 NFHYITILRDPVSRYLSEWRHVQRGATWKASLHVCDGRPPTSEELPSCYTGDWGCPLKEFMDCPYNLA
 NNRQVRMLSDLTLVGCYNLSVMPEKQRNKVLLLESASNKHMFAFFGLTEFQRKTQYLFEKTFNMNFI
 SPFTQYNTTRASSVEINEEQKRIEGLNFLDMELYSYAKDLFLQRYQFMRQKEHQDARRKRQEQRKFLKGRFL
 QTHFQSQSQGSQSPQNLSQLPNPNPNQNLQNLSHNLTPSSNPNSTQRENRSQKQGSQGGQDSDG
 TSNGTNDYIGSVETWR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

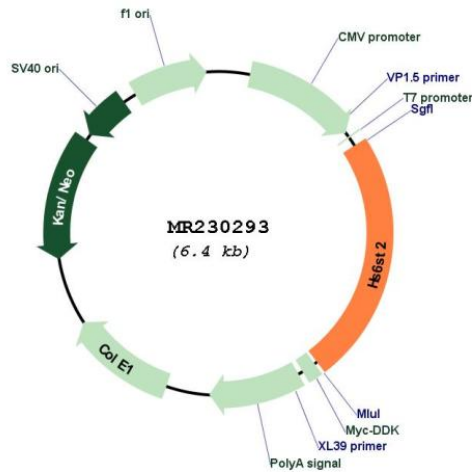
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001290468

ORF Size: 1518 bp

OTI Disclaimer: 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_001290468.1, NP_001277397.1</u>
RefSeq Size:	4433 bp
RefSeq ORF:	1521 bp
Locus ID:	50786
UniProt ID:	<u>Q80UW0</u>
Cytogenetics:	X A5
MW:	58.5 kDa
Gene Summary:	6-O-sulfation enzyme which catalyzes the transfer of sulfate from 3'-phosphoadenosine 5'-phosphosulfate (PAPS) to position 6 of the N-sulfoglucosamine residue (GlcNS) of heparan sulfate.[UniProtKB/Swiss-Prot Function]