

Product datasheet for **MR215964**

Hs6st2 (NM_001077202) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hs6st2 (NM_001077202) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hs6st2
Synonyms:	6OST2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR215964 representing NM_001077202
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCACTGCCTGCGTTTGCAGCCCGGGCGCTCGGGCCGCACTGCAACCGGAGCAAGGAGCGCCCGCC
 GCACCACCTGTCCCGCCGGCATTCCAGAGTAGAGGCCGAATTGGCAGCAAGCCGGCCCGGTCTGTTGC
 CGCCTCAGTCCGCGCCGGCCCTCTAGGGGTGTGTCTCTCGGATCAACTCCCGCGCTCCAGGACAAG
 CCCCCAAAGCATTCTTCTTCTGGCGGGAGCCTTGCAGCCCGCTCTCGCGTGTGCTCGAGGCC
 GCCGAGCGGATGCACGACCTCAGGCGACGCTGGGACCTGGGCTCCCTGCGGGCCCTGCTCACTCG
 GGGCTGGCAGCCGTGGCCACTCGCTCAAGCAGTGCTCAGTGCATCTTCTCAAGATTTTCGGTCCC
 TTGGCCAGCGTCGGGAACATGGATGAGAAATCTAACAAGCTGCTGCTGGCTTTGGTGATGCTCTTCTAT
 TTGGGTGATCGTCTCAATACGTGTGCCCGGCACAGAATGCCAGCTCCTCCGCTGCAGGCGTTCAG
 CTCGCCGTGCCGATCCGTACCGCTCGGAGGATGAGAGTTCGGCCAGGTTTGTACCCCGCTACAATTC
 AGCCGCGCGATCTCTGCGCAAGGTAGACTTCGACATCAAGGGCGATGACCTGATCGTGTCTCTGCACA
 TCCAGAAGACTGGGGCACCACTTTTGGCCGTCACTGGTGCACAACATCCAGCTGGAGCAGCCATGTGA
 GTGCCCGTGGGGCAGAAGAAATGCACTTGCCACCGCCGGTAAGAGGGAGACCTGGCTCTTCTCCAGG
 TTCTCCACCGGTGGAGCTGCGGGTGCATGCCGACTGGACCGAGCTCACCAGCTGCGTCCCGCGGTGG
 TGGATGGCAAGCGCAGCCAGGCTGAGACCTCCAGTGGAGGATTTTTCAGATTCTAGATGGAACAAG
 TAAGGATAGATGGGGTTCTTCAAACCTCAAACCTCAGGCGCAACTCTCCATCCTCCAAAAGCCCCGAGC
 ACATCGAAGAGTGGGAAGAACTTCCATTACATTACCATCCTGAGAGACCCAGTGTACGGTACTTGAGTG
 AATGGAGGCATGTCCAGAGAGGAGCAACTTGAAAGCATCCCTGCACGTCTGTGATGGAAGGCCCAAC
 CTCTGAAGAGCTGCCAGCTGTACACCGGTGATGACTGGTCTGGATGCCCTCTCAAAGAGTTCATGGAC
 TGTCCTATAATCTGGCCAACAACCGCCAAGTTCGCATGCTATCTGACCTGACTCTAGTGGGATGCTACA
 ACCTCTGTGCATGCCTGAAAAGCAAAGAAACAAAGTCTTCTGGAAAGTCCAAATCCTGAAGCA
 CATGGCGTTCTTTGGCCTCACTGAGTTTCAGCGCAAGACCCAGTACCTGTTTGAAGACCTTCAACATG
 AACTTTATCTCGCCGTTTACCCAGTATAATACCACTAGGGCTCTAGTGTGAGATCAATGAGGAAATCC
 AAAAGCGTATTGAGGGACTGAATTTTCTGGATATGGAGTTGTACAGCTATGCTAAAGACCTTTTCTGCA
 AAGGTATCAGTTCATGAGGCAGAAAGAACATCAGGATGCCAGGCGGAAGCGTCAGGAGCAACGCAATTT
 CTGAAGGAAGGTTCTTTCAGACCCATTTCCAGAGTCAGAGTCAGGGTCAGAGCCAGAGCCAGAGTCCAG
 GTCAGAATCTGAGTCAGAATCCAAATCCTAACCCAAATCAGAACCTGACTCAGAACCTGAGTCACAAATCT
 GACTCCGAGTTCAAATCCCAATTCGACCCAGAGGGAGAACCAGGGGAAGTCAAGCAGGGCTCAGGCCAG
 GGACAAGGTGATAGCGGCACCAGCAATGGCACCAATGACTACATAGGGAGCGTAGAGACATGGCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR215964 representing NM_001077202
Red=Cloning site Green=Tags(s)

MALPAFAARALGPPLQPEQGAPARTTCPRRHSRVEAELAASRPGSVAASVRAGPPRGVSLGFNSPPLQDK
 PPKAFSSLAGALRAPLFLALLPRGRRRRMHDLRRRWDLGSLCRALLTRGLAAVGHSLKHVLSAIFSKIFGP
 LASVGNMDEKSNKLLLLVMLFLFAVIVLQYVCPGTECQLRLQAFSSPVPDPYRSEDESSARFVPRYNF
 SRGDLRLKRVDFDIKGGDLLVFLHIQKTGGTTFGRHLVRNIQLEQPCECRVGQKKCTCHRP GKRETWLF SR
 FSTGWSCGLHADWTELTSCVPVVDGKRDLRPSRWRIFQILDGTSKDRWGSSNFNSGANSPPSSTKPRS
 TSKSGKNFHYITILRDPVSRYLSEWRHVQRGATWKASLHVCDGRPPTSEELPSCYTGDDWSGCPLEFMD
 CPYNLANNRQVRMLSDLTLVGCYNLSVMPEKQRNKVLLLESAKSNLKHMAFFGLTEFQRKTQYLFEKTFNM
 NFISPFTQYNTTRASSVEINEEIQKRIEGLNFLDMELYSYAKDLFLQRYQFMRQKEHQDARRKRQEQRKF
 LKGRFLQTHFQSQSQQSQQSPGQNL SQPNPNPNQNL TQNL SHNL TPSSNPNTQRENREGSQKQGSQ
 GQGDSGTSNGTNDYIGSVETWR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9005_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001077202

ORF Size: 1956 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:

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_001077202.2](#), [NP_001070670.1](#)

RefSeq Size: 4234 bp

RefSeq ORF: 1959 bp

Locus ID: 50786

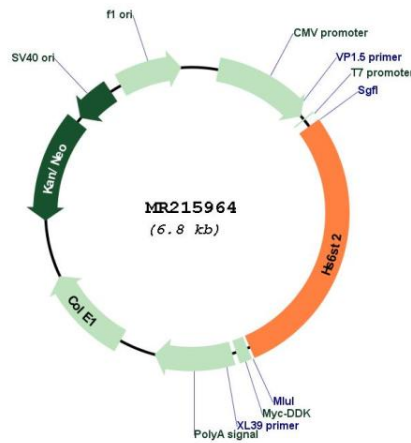
UniProt ID: [Q80UW0](#)

Cytogenetics: X A5

MW: 74 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]

Product images:



Circular map for MR215964