

Product datasheet for MR206292

Hs6st1 (NM_015818) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hs6st1 (NM_015818) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hs6st1
Synonyms:	6Ost1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206292 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTGAGCGCGCCAGCAAGTTCGTGCTGGTGGTGGCGGGCTCGGCGTGCTTCATGCTCATCCTTTACC
AGTACGCGGGCCCGGGCTGAGTCTGGCGCGCCCGTGGCCGCTGCCCCCGACGACCTGGATCTCTT
CCCCACGCGGACCCACATTACGAGAAAAAGTACTACTCCCGGTGCGGAGCTGGAGCGCTCGCTGCGC
TTCGACATGAAGGGCAGCAGCTGATCGTCTTCTGCACATCCAGAAGACCGGCGGACCACCTTCGGCC
GCCACCTAGTGCAGAACGTGCGCCTCGAGGTGCCCTGCGACTGTGCCCCGGCCAGAAGAAGTGCACCTG
CTATCGGCCAAATCGCCGCGAGACCTGGCTCTTCTCTCGCTTCTCCACGGGCTGGAGCTGCGGGCTGCAC
GCTGACTGGACCGAACTACCAACTGTGTGCCCGGTGTGCTAGACCGCCGCGACCCAGCAGGTCTGCGTT
CGCCAGAAAAGTTCTACTACATCACCTGCTGCGAGACCCGATCCCGCTACCTGAGTGAATGGCGACA
TGTACAGCGTGGGGCCACGTGGAAGACCTCCTTGACATGTGTGACGGGCGCACCCGACCCAGAGGAG
CTGCCGCCCTGCTACGAGGGCACAGACTGGTGGGCTGCACGTTGACGAGGTTTATGGATTGCCCTATA
ACCTGGCTAACAACCGCAGGTGCGCATGCTGGCCGACCTCAGCTGGTGGGCTGCTACAACCTATCTTT
CATCCCCGAGAGCAAGCGGGCCAGTTGCTGCTGGAGAGCGCCAAGAAGAACCTGCGAGGCATGGCCTTC
TTCGGCCTCACTGAGTTCAGCGCAAGACGAGTACCTATTTGAGCGGACGTTCAACCTCAAGTTCATCC
GGCATTGCAATAACAACAGCACGCGGGCGGGCGGTGTGGAGGTGGATGAGGACACTATCCGCCACAT
CGAGGAGCTCAACGACCTGGACATGCAGCTGTATGACTATGCCAAGGACCTCTTTCAGCAGCGTTACCAG
TACAAGAGACAGCTGGAGCGCAGGGAACAGCGCCTGCGCAATCGCAAGAGCGCCTCCTGCACCGCTCCA
AGGAAGCGCTGCCACGGGAGGACCCAGAAGAGCCGGGCGGTGTGCCACCGAGGACTACATGAGCCATAT
CATTGAGAAGTGG

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR206292 protein sequence
Red=Cloning site Green=Tags(s)

MVERASKFVLVVAGSACFMLILYQYAGPGLSLGAPGGRVPPDDLDFPTDPHYEKKYFFVRELESLR
 FDMKGGDDVIVFLHIQKTGGTTFGRHLVQNVRLVPCDCRPGQKKCTCYRPNRRETWLF SRFSTGWSCGLH
 ADWTEL TNCVPGVLD RRRDPAGLRSPRKFYYITLLRDPVSRYLSEWRHVQRGATWK TSLHMC DGRTP TPEE
 LPPCYEGTDWSGCTLQEFMDCPYNLANNRQVRMLADLSLVGCYNLSFIPESKRAQLLLES AKKNLRGMAF
 FGLTEFQRKTQYLFERTFNLFIRPFMQYNSTRAGGVEDEDTIRHIEELNDLDMQLYDYAKDLFQQRYQ
 YKRQLERREQRLRNREERLLHRSKEALPREDPEEPGRVPTEDYMSHIEKW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_015818

ORF Size: 1206 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_015818.2](#), [NP_056633.2](#)

RefSeq Size: 3732 bp

RefSeq ORF: 1236 bp

Locus ID: 50785

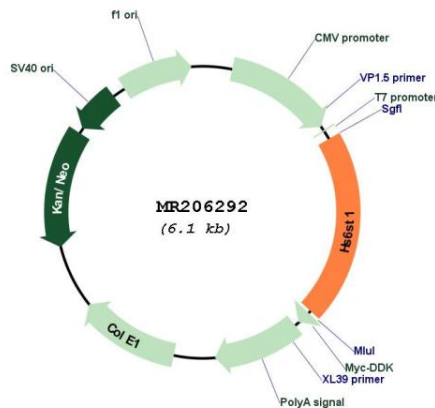
UniProt ID: [Q9QYK5](#)

Cytogenetics: 1 B

MW: 47.1 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. Critical for normal neuronal development where it may play a role in neuron branching. May also play a role in limb development. May prefer iduronic acid. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206292