

Product datasheet for **MG215964**

Hs6st2 (NM_001077202) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hs6st2 (NM_001077202) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hs6st2
Synonyms:	6OST2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG215964 representing NM_001077202
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCACTGCCTGCGTTTGCAGCCCGGGCGCTCGGGCCGCACTGCAACCGGAGCAAGGAGCGCCCGCC
 GCACCACCTGTCCCGCCGGCATTCCAGAGTAGAGGCCGAATTGGCAGCAAGCCGGCCCGGTCTGTTGC
 CGCCTCAGTCCGCGCCGGCCCTCTAGGGTGTGTCTCTCGGATCAACTCCCGCCGCTCCAGGACAAG
 CCCCCAAAGGCATTTTCTCCTTGGCGGGAGCCTTGCAGCCCGCTCTTCGCGTGTCTGCTCGAGGCC
 GCCGCAGGCGGATGCACGACCTCAGGCGACGCTGGGACCTGGGCTCCCTCTGCCGGGCCCTGCTCACTCG
 GGGCTGGCAGCCGTGGGCCACTCGCTCAAGCACGTGCTCAGTGCATCTTCTCAAGATTTTCGGTCCC
 TTGGCCAGCGTCGGGAACATGGATGAGAAATCTAACAAGCTGCTGCTGGCTTTGGTGATGCTCTTCTAT
 TTGGGTGATCGTCTCAATACGTGTGCCCGGCACAGAATGCCAGCTCCTCCGCTGCAGGCGTTCAG
 CTCGCCGTGCCGATCCGTACCGCTCGGAGGATGAGAGTTCGGCCAGGTTTGTACCCCGCTACAATTC
 AGCCGCGCGATCTCTGCGCAAGGTAGACTTCGACATCAAGGGCGATGACCTGATCGTGTCTCTGCACA
 TCCAGAAGACTGGGGCACCACTTTTGGCCGTCACTGGTGCACAACATCCAGCTGGAGCAGCCATGTGA
 GTGCCCGTGGGGCAGAAGAAATGCACTTGCCACCGCCGGTAAGAGGGAGACCTGGCTCTTCTCCAGG
 TTCTCCACCGGCTGGAGCTGCGGGTGCATGCCGACTGGACCGAGCTCACCAGCTGCGTCCCGCGGTGG
 TGGATGGCAAGCGCGACGCCAGGCTGAGACCTCCAGTGGAGGATTTTTCAGATTCTAGATGGAACAAG
 TAAGGATAGATGGGGTTCTTCAAACCTCAAACCTCAGGCGCAACTCTCCATCCTCCAAAAGCCCCGGAGC
 ACATCGAAGAGTGGGAAGAACTTCCATTACATTACCATCCTGAGAGACCCAGTGTACGGTACTTGAGTG
 AATGGAGGATGTCCAGAGAGGAGCAACTTGGAAAGCATCCCTGCACGTCTGTGATGGAAGGCCCAAC
 CTCTGAAGAGCTGCCAGCTGTACACCGGTGATGACTGGTCTGGATGCCCTCTCAAAGAGTTCATGGAC
 TGTCCTATAATCTGGCCAACAACCGCCAAGTTCGCATGCTATCTGACCTGACTCTAGTGGGATGCTACA
 ACCTCTGTGCATGCCTGAAAAGCAAAGAAACAAAGTCTTCTGGAAAGTCCAAATCCAATCTGAAGCA
 CATGGCGTTCTTTGGCCTCACTGAGTTTTCAGCGCAAGACCCAGTACCTGTTTGAAGACCTTCAACATG
 AACTTTATCTCGCCGTTTACCCAGTATAATACCACTAGGGCTCTAGTGTGAGATCAATGAGGAAATCC
 AAAAGCGTATTGAGGGACTGAATTTTCTGGATATGGAGTGTACAGCTATGCTAAAGACCTTTTCTGCA
 AAGGTATCAGTTCATGAGGCAGAAAGAACATCAGGATGCCAGGCGGAAGCGTCAGGAGCAACGCAATTT
 CTGAAGGGAAGGTTCTTTCAGACCCATTTCCAGAGTCAGAGTCAGGGTCAGAGCCAGAGCCAGAGTCCAG
 GTCAGAATCTGAGTCAGAATCCAATCCTAACCAAAATCAGAACCTGACTCAGAACCTGAGTCACAATCT
 GACTCCGAGTTCAAATCCAATTCGACCCAGAGGGAGAACCAGGGGAAGTCAAGAGCAGGGCTCAGGCCAG
 GGACAAGGTGATAGCGGCACCAGCAATGGCACCAATGACTACATAGGGAGCGTAGAGACATGGCGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG215964 representing NM_001077202
 Red=Cloning site Green=Tags(s)

MALPAFAARALGPPLQPEQGAPARTTTPRRHSRVEAELASRPGSVAASVRAGPPRGVSLGFNSPPLQDK
 PPKAFSSLAGALRAPLFAALLPRGRRRRMHDLRRRWDLGSLCRALLTRGLAAVGHSLKHLVLSAIFSKIFGP
 LASVGNMDEKSNKLLALLVMLFLFAVIVLQYVCPGTECQLRLQAFSSPVDPYRSEDESSARFVPRYNF
 SRGDLLRKVDFDIKGGDLIVFLHIQKTGGTTFGRHLVRNIQLEQPCECRVQKKCTCHRPKRETWLF SR
 FSTGWSCGLHADWTELTSCVPAVVDGKRDARLRPSRWRIFQILDGTSKDRWGSSNFNSGANSPPSSTKPRS
 TSKSGKNFHYITILRDPVSRYLSEWRHVQRGATWKAASLHVCDGRPPTSEELPSCYTGDDWSGCPLKEFMD
 CPYNLANNRQVRMLSDLTVGCYNLSVMPEKQRNKVLLSAKSNLKHMAFFGLTEFQRKTQYLFEKTFNM
 NFISPFTQYNTTRASSVEINEEIQKRIEGLNFLDMELYSYAKDLFLQRYQFMRQKEHQDARRKRQEQRKF
 LKGRFLQTHFQSQSQQSQQSPGQNLQSNPNPNPNQNLQNLSHNLTPSSNPNSTQRENRSQKQGGSGQ
 GQGDSGTSNGTNDYIGSVETWR

TRTRPLE – GFP Tag – V

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:	NM_001077202.2 , NP_001070670.1
RefSeq Size:	4234 bp
RefSeq ORF:	1959 bp
Locus ID:	50786
UniProt ID:	Q80UW0
Cytogenetics:	X A5
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]