

Product datasheet for **MG223170**

Hs3st3b1 (NM_018805) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hs3st3b1 (NM_018805) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hs3st3b1
Synonyms:	3-OST-3B; 3Ost3b; 3OST3B1; AU041882; AW536289; Hs3st3b; m3-OST-3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223170 representing NM_018805 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCAGCGCCTGAGCGGGCCGGTCTGTCTCGATGTCCCGGGCCGGTTCTGCCGCAGCCCGCCG
CGCCCCCGCCCGGTGAGGAGGAAGCTCGCGTGTCTTCGCCATGCTTTGCATCTGGCTGTACATGTT
TTTGTACTCGTGCCTGGCTCCTGTACCGCCGCTCCCGCCGCTGCTGCTCCTGGGCTCGGGTCCCGCGCT
ACTCACGCTCAGCCAGCCCTGGTCACAGCTCCGAATGAGACATCCCTAAGATGCCCTTCCGGGCACCTC
CGGCCAATTCGCTGGCTGCAGGCAAGGATAAGACAGTAGGCGCTGGGAGCCAGGAGGAGCAGAGTCCAGA
GGCGCCGACTCCCCAGTCCCATCTCCAGTTCCTCAGCGGCGCTGGGAGCAAGCAGTCCCGCAGGCC
ATCATCATCGGGGTGAAGAAGGGCGGCACGCGGGCGTTGCTGGAGTTCCTGCGCTGCACCCGACGTGC
GCGCCGTGGGCGCCGAGCCCCACTTTTTCGACCGCAGTACCACAAGGGTCTTGCCTGGTACCGGGACTT
GATGCCAGAACCTCGAGGGACAGATCACCATGGAGAAGACGCCAGCTACTTTGTGACCCGGGAGGCA
CCCGCGGCATCTCGCCATGTCCAAGGACACCAAGCTCATCGTGGTGGTGCAGCCCGGTGACCAGGG
CCATCTCGGACTACACGCAGACGCTGTCCAAGCGCCGGACATCCCAGTTCGAGAGCCTGACGTTCCG
CAACCGCAGCGCGGGCCTCATAGACAGTCTCGGAGCGCCATCCAGATCGGCCTGTACGCCAAGCACCTG
GAGCCCTGGCTGCGCCACTTCCCGCTCGCCAGATGCTCTTCGTGAGCGGGGAGCGGCTGGTCAGCGCAG
CGGCCGGCAGCTGCGCCGCGTGCAGGATTTCTGGGCCTCAAGCGCATCATCACCAGACAAGCACTTCTA
CTTCAACCAGACCAAGGGCTTCCCGTGCCTCAAGAAGGGCGGAGGGCAGCGCAAGCCGCACTGCCTGGG
AAGACTAAGGGCCGCGCACCCACCATCGCGCGGAGGTGCTGCGGCAGCTGCGTGACTTTTACCGGC
CCTTCAACCGCAAGTTCTACCAGATGACCGCCGCGACTTCGGCTGGAC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA



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Protein Sequence: >MG223170 representing NM_018805
 Red=Cloning site Green=Tags(s)

MGQRLSGGRSCLDVPGRFLPQPPPPPPVRRKLLALLFAMLCIWL YMFLYSCAGSCTAAPGLLLLGSRSRA
 THAQPALVTAPNETSPKMPFRAPPANSLAAGKDKTVGAGSQEEQSPEADSPSPISFFSGAGSKQLPQA
 I IIGVKKGGTRALLEFLRVHPDVRAVGAEPHFDFDRSYHKGLAWYRDLMPRTLQEGQITMEKTPSYFVTREA
 PARISAMSKDTKLIVVVRDPVTRAI SDYTQTL SKRPDIPSFESL TFRNRSAGLIDT SWSAIQIGL YAKHL
 EPWLRHFPLGQMLFVSGERLVSDPAGELRRVQDFLGLKRIITDKHFYFNQTKGF PCLKKAEGSGKPHCLG
 KTKGRAHPTIAREVLRQLRDFYRPFNRKFYQMTGRDFGWD

TRTRPLE - GFP Tag - V

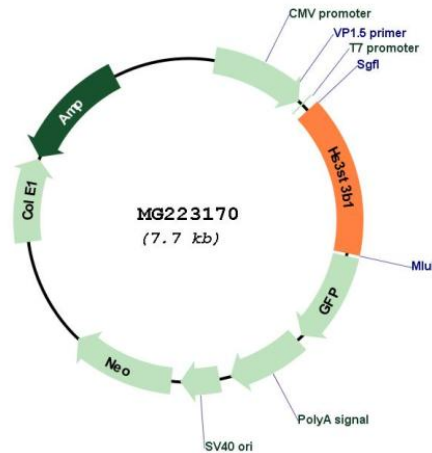
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_018805

ORF Size:	1170 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:	NM_018805.2 , NP_061275.2
RefSeq Size:	6004 bp
RefSeq ORF:	1173 bp
Locus ID:	54710
UniProt ID:	Q9QZS6
Cytogenetics:	11 39.47 cM
Gene Summary:	Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) to catalyze the transfer of a sulfo group to an N-unsubstituted glucosamine linked to a 2-O-sulfo iduronic acid unit on heparan sulfate. Catalyzes the O-sulfation of glucosamine in IdoUA2S-GlcNS and also in IdoUA2S-GlcNH2. Unlike 3-OST-1, does not convert non-anticoagulant heparan sulfate to anticoagulant heparan sulfate (By similarity).[UniProtKB/Swiss-Prot Function]