

## Product datasheet for **MG223234**

### Hs3st2 (NM\_001081327) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hs3st2 (NM_001081327) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hs3st2
Synonyms:	6430516N12Rik; A830061E14Rik; AW491345
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223234 representing NM_001081327 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCTATAGGGTCTGGGCCGCGGGGCCACCTCAGCCGCGGAGAGCGCGCAGGCTGCTCTTCGCCT  
TCACACTGTCCTGTCTGCACTTACCTGTGTTACAGTTCCTGTGCTGCTGCGACGGTCTGGGCCAGAG  
CCGCTGCTCGGCGCACCGGTTGCTCCGCGGCCAGCGCAAGCGGCCAGAACTTCTGGCGAAGTCC  
CGCCCGTGTGATCCCCGGGGCCGACGCCAGTGAGCCAGCGCTCCAGCGCGCCCGCTGCCGCTC  
CAGCACCGCGCTCTCCGGATCCAATCACTCTGGCTCCCGAAGCCAGGCACAAACGGTGCCTCAAGC  
CCTCATTGTGGCGTCAAGAAAGGGGAACTCGGGCGGTGCTGGAGTTTATCCGCGTGCACCCGGACGTG  
CGGGCCTTGGGCACTGAGCCCCACTTCTTCGACAGGAACTACGGACGAGGACTGGACTGGTACAGGAGCC  
TGATGCCGAGGACCTTGAGACCCAGATCACACTGGAGAAGACGCCAGCTATTCGTCACCTCAAGAAGC  
CCCTCGACGGATCTTCAACATGTCACGAGACCAAGCTGATAGTGGTGGTGCAGAACCCAGTGACCCGA  
GCCATCTGACTACACGCACTCTTCCAAGAAGCCGACATCCACCTTCGAGGGCCTGTCTTCC  
GCAACCGAGTCTAGGCTGGTGGACGTGCTTGAACGCTATCCGATTGGCATGTATGCACTGCACCT  
GGAAAGCTGGCTGCGGTACTTCCCACTGGCCAGATCCACTTCGTCAGTGGAGAGCGGCTCATCACCGAC  
CCTGCTGGTGAGATGGTTCGATTCAGGACTTCTGGGCATCAAGAGATTCACAGACCAAGCACTTCT  
ACTTCAACAAGACCAAGGATTCCCTTGCTTGA AAAAACCAGAGTCAACCTCCTGCCTCGATGCCTGGG  
CAAATCAAAGGGAGAATCATGTACAGATCGACCCTGAAGTTATAGACCAGCTCCGGGAATTTTATAGA  
CCTTATAATATTAATTTTATGAACTGTTGGCAGGACTTCCGGTGGGAG

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG223234 representing NM\_001081327  
 Red=Cloning site Green=Tags(s)

MAYRVLGRAGPPQPRRARRLLFAFTLSLCTYLCSYFLCCCDGLGQSRLLGAPRCLRGPSASGQKLLAKS  
 RPCDPPGPTPSEPSAPSAPAAAAAPARLSGSNHSYGSPKPGTKRLPQALIVGVKKGTRAVLEFIRVHPDV  
 RALGTEPHFFDRNYGRGLDWYRSLMPRTLETQITLEKTPSYFVTQEAPRRIFNMSRDTKLIVVVRNPVTR  
 AISDYTQTLKKPDIPTFEGLSFRNRSLGLVDVSWNAIRIGMYALHLESWLRYFPLAQIHFVSGERLITD  
 PAGEMGRIQDFLGIKRFITDKHFYFNKTKGFPLKKESTLLPRCLGKSKGRTHVQIDPEVIDQLREFYR  
 PYNIKFYETVGGQDFRWE

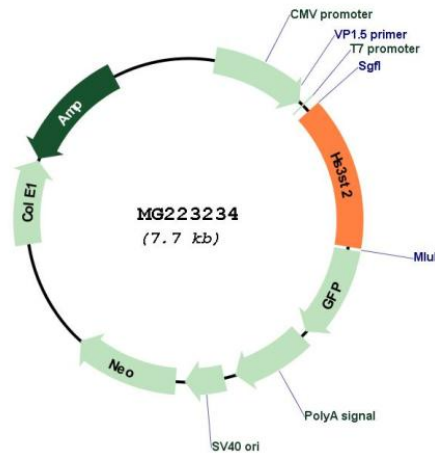
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001081327

<b>ORF Size:</b>	1101 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001081327.1</a> , <a href="#">NP_001074796.1</a>
<b>RefSeq Size:</b>	2270 bp
<b>RefSeq ORF:</b>	1104 bp
<b>Locus ID:</b>	195646
<b>UniProt ID:</b>	<a href="#">Q673U1</a>
<b>Cytogenetics:</b>	7 65.07 cM
<b>Gene Summary:</b>	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 GlcA2S-GlcNS. Unlike 3-OST-1, does not convert non-anticoagulant heparan sulfate to anticoagulant heparan sulfate (By similarity).[UniProtKB/Swiss-Prot Function]