

Product datasheet for **MG206128**

Hs3st3a1 (NM_178870) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hs3st3a1 (NM_178870) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Hs3st3a1
Synonyms: 3Ost3a; Hs3st3a
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG206128 representing NM_178870
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCCCTCGGGTCCCACCGCGCCCAGCCCAGCCCGGCGGAGCCACTGTCGCGCAGCATCTTCAGGA
AGTTCTTGCTGATGCTCTGCTCGCTACTCACTTCCCTCTACGCTTCTACTGCCTGGCGGAGCGCTGCC
ACCCGGCTCGGGCCCGTCCGCGGGGTCCCGGGCGCGCGTCCCTGCAGGACCCAGGAACTGGCGATG
TGGCCCGGGAGCGCCAAGGAAGCGCCTCCTGCAGCTGAGGCAACGGAGGAGCGCGGGCGGTCCGGGG
CAGGAGACAGCAGCGACCAGGAGGAGCAGAGCCCTGGGCTGGCCCGCCGACCAGGAGGCTCCGGGGCGGG
AAGCAGCGTGGCCGAGGCCAGCCGGGGACCCTGGCCTTACTTCTGGACGAGGGCAGCAAGCAGCTGCCG
CAGGCCATCATCATCGGCGTGAAGAAGGGCGGCACGCGGGCGCTGCTGGAGTTCTGCGCGTGCACCCCG
ACGTGCGTGCCGTGGGTGCTGAGCCCCACTTTTTGACCGCAGCTACCACAAGGGCCTCGCTGGTACCG
GGATTTGATGCCAGAACCCTCGAGGGACAGATCACCATGGAGAAGACGCCAGCTACTTTGTGACCCGG
GAGGACCCGCGCGCATCTCGGCCATGTCCAAGGACACCAAACTCATCGTGGTGGTGCAGCAGCCGGTGA
CCAGGGCCATCTCGGACTACACGAGACGCTGTCCAAGCGCCGACATCCCCAGCTTCGAGAGCCTGAC
GTTCCGCAACCGCAGCGGGCCCTCATAGACACGTCCTGGAGCGCCATCCAGATCGGCCGTGACGCCAAG
CACCTGGAGCCCTGGCTGCGCCACTTCCCGCTCGGCCAGATGCTCTTCGTGAGCGGGGAGCGGCTGGTCA
CGGACCCGCGCGAGCTGCGCCGCGTGCAGGATTTCCCTGGCCCTCAAGCGCATCATCACCAGCAAGCA
CTTCTACTTCAACCAGACCAAGGGCTTCCCGTGCCTCAAGAAGGCGGAGGGCAGCGGCAAGCCGCACTGC
CTGGGCAAGACTAAGGGCCGCGCTCACCCACCATTGCGCGGGAGGTGCTGCGGCAGCTGCGTGACTTTT
ACCGGCCCTTCAACCGCAAGTTCTACCAGATGACCGGCCGCGACTTTGGCTGGGATGGA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206128 representing NM_178870
 Red=Cloning site Green=Tags(s)

MAPSGPTGAQPSAEPLSRSIFRKFLMLCSLLTSLYVFYCLAERCPPGSGPVAGVPGRGVPAGPRELAM
 WPAGAPRKRLQLRQRRRRGRSGPGDSSDQEEQSPGLAAAPGGSGAGSSVAEAQPGTLALLLDEGSKQLP
 QAIIGVKKGGTRALLEFLRVHPDVRAVGAEPHFDRSYHKGLAWYRDLMPRTLEGQITMEKTPSYFVTR
 EAPARISAMSKDTKLIVVVRDPVTRAI SDYTQTLSKRPDIPSFESLTFNRNSAGLIDTWSWAIQIGLYAK
 HLEPWLRHFPLGQMLFVSGERLVSDPAGELRRVQDFLGLKRIITDKHFYFNQTKGFPCLKKAEGSGKPHC
 LGKTKGRAHPTIAREVLRQLRDFYRPFNRKFYQMTGRDFGWDG

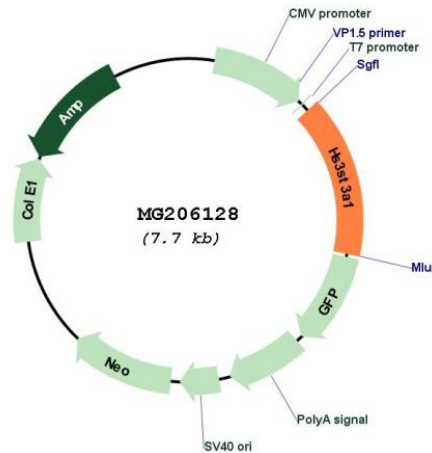
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_178870

ORF Size:	1179 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_178870.5 , NP_849201.1
RefSeq Size:	3927 bp
RefSeq ORF:	1182 bp
Locus ID:	15478
UniProt ID:	Q8BKN6
Cytogenetics:	11 40.24 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]