

Product datasheet for MR206128

Hs3st3a1 (NM_178870) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hs3st3a1 (NM_178870) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hs3st3a1
Synonyms:	3Ost3a; Hs3st3a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206128 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCCCCCTCGGGTCCCACCGCGCCCAGCCCAGCCCGGCGGAGCCACTGTCGCGCAGCATCTTCAGGA
AGTTCTTGCTGATGCTCTGCTCGCTACTCACTTCCCTCTACGCTTCTACTGCCTGGCGGAGCGTGCC
ACCCGGCTCGGGCCCGTCGCGGGGTCCCGGGCGCGCGTCCCTGCAGGACCCAGGAACTGGCGATG
TGGCCCGGGAGCGCAAGGAAGCGCCTCTGCAGCTGAGGCAACGGAGGAGCGCGGGCGGTTCGGGGC
CAGGAGACAGCAGCGACCAGGAGGAGCAGAGCCCTGGGCTGGCCCGCCGACCAGGAGGCTCCGGGGCGGG
AAGCAGCGTGGCCGAGGCCAGCCCGGGGACCCTGGCCTTACTTCTGGACGAGGGCAGCAAGCAGCTGCCG
CAGGCCATCATCATCGGCGTGAAGAAGGGCGGCACGCGGGCGCTGCTGGAGTTCTGCGCGTGCACCCCG
ACGTGCGTGCCGTGGGTGCTGAGCCCCACTTTTTTACCAGGAGTACCACAAGGGCCTCGCTGGTACCG
GGATTTGATGCCCAGAACCTCGAGGGACAGATCACCATGGAGAAGACGCCAGCTACTTTGTGACCCGG
GAGGCACCCGCGCGCATCTCGGCCATGTCCAAGGACACCAAACTCATCGTGGTGGTGCAGCAGCCGGTGA
CCAGGGCCATCTCGGACTACACGACAGCCTGTCCAAGCGCCGACATCCCCAGCTTCGAGAGCCTGAC
GTTCCGCAACCGCAGCGGGCCCTCATAGACACGCTCTGGAGCGCCATCCAGATCGGCCTGTACGCCAAG
CACCTGGAGCCCTGGCTGCGCCACTTCCGCTCGGCCAGATGCTCTTCTGAGCGGGGAGCGGCTGGTCA
CGGACCCGGCCGCGAGCTGCGCCGCGTGCAGGATTTCCCTGGCCCTCAAGCGCATCATCACCGACAAGCA
CTTCTACTTCAACCAGACCAAGGGCTTCCCGTGCCTCAAGAAGGCGGAGGGCAGCGGCAAGCCGCACTGC
CTGGGCAAGACTAAGGGCCGCGCTCACCCACCATTGCGCGGGAGGTGCTGCGGCAGCTGCGTGACTTTT
ACCGGCCCTTCAACCGCAAGTTCTACCAGATGACCGGCCGCGACTTTGGCTGGGATGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206128 protein sequence
Red=Cloning site Green=Tags(s)

MAPSGPTGAQPSAEPLSRISIFRKFLMLCSLLTSLYVFYCLAERCPPGSGPVAGVPGRGVPAGPRELAM
 WPAGAPRKRLQLRQRRRRGRSGPGDSSDQEEQSPGLAAAPGGSGAGSSVAEAQPGLALLLDEGSKQLP
 QAIIGVKKGGTRALLEFLRVHPDVRAVGAEPHFDRSYHKGLAWYRDLMPRTLEGQITMEKTPSYFVTR
 EAPARISAMSKDTKLIVVVRDPVTRAIISDYTQTLSKRPDIPSFESLTFNRNSAGLIDTSWSAIQIGLYAK
 HLEPWLRHFPLGQMLFVSGERLVSDPAGELRRVQDFLGLKRIITDKHFYFNQTKGFPCLLKKAEGSGKPHC
 LGKTKGRAHPTIAREVLRQLRDFYRPFNRKFYQMTGRDFGWDG

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_178870

ORF Size: 1182 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_178870.5](#), [NP_849201.1](#)

RefSeq Size: 3933 bp

RefSeq ORF: 1182 bp

Locus ID: 15478

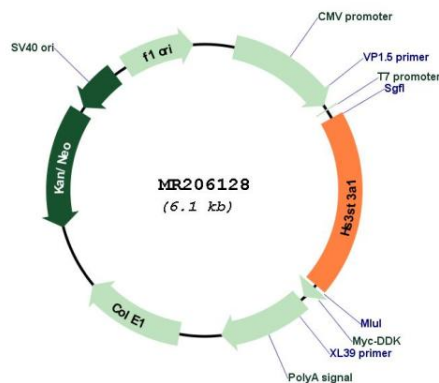
UniProt ID: [Q8BKN6](#)

Cytogenetics: 11 40.24 cM

MW: 43.5 kDa

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]

Product images:



Circular map for MR206128