

Product datasheet for MR223170

Hs3st3b1 (NM_018805) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Hs3st3b1 (NM_018805) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Hs3st3b1 |
| Synonyms: | 3-OST-3B; 3Ost3b; 3OST3B1; AU041882; AW536289; Hs3st3b; m3-OST-3B |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR223170 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCAGCGCCTGAGCGGGCCGGTCTGTCTCGATGTCCCGGGCCGGTTCCTGCCGCAGCCCGCCG
CGCCCCCGCCCGGTGAGGAGGAAGCTCGCGTGTCTTCGCCATGCTTTGCATCTGGCTGTACATGTT
TTTGTACTCGTGCCTGGCTCCTGTACCGCCGCTCCCGCCGCTGCTCTGGGCTCGGGGTCCCGCGCT
ACTCACGCTCAGCCAGCCCTGGTCACAGCTCCGAATGAGACATCCCTAAGATGCCCTTCCGGGCACCTC
CGGCAATTCGCTGGCTGCAGGAAGGATAAGACAGTAGGCGCTGGGAGCCAGGAGGAGCAGAGTCCAGA
GGCAGCCGACTCCCCAGTCCCATCTCCAGCTTCTCAGCGGCGCTGGGAGCAAGCAGCTGCCGCAGGCC
ATCATCATCGGGGTGAAGAAGGGCGGCACGCGGGCGTTGCTGGAGTTCCTGCGCTGCACCCGACGTGC
GCGCCGTGGGCGCCGAGCCCCACTTTTTCGACCGCAGTACCACAAGGGTCTTGCCTGGTACCGGGACTT
GATGCCAGAACCTCGAGGGACAGATCACCATGGAGAAGACGCCAGCTACTTTGTGACCCGGGAGGCA
CCCGCGCATCTCGCCATGTCCAAGGACACCAAGCTCATCGTGGTGGTGCAGCCGGTACCGAGGG
CCATCTCGGACTACACGACAGCCTGTCCAAGCGCCGGACATCCCAGCTTCGAGAGCCTGACGTTCCG
CAACCGCAGCGCGGGCCTCATAGACACGCTCCTGGAGCGCCATCCAGATCGGCTGTACGCCAAGCACCTG
GAGCCCTGGCTGCGCCACTTCCCGCTCGGCCAGATGCTCTTCGTGAGCGGGGAGCGGCTGGTCAGCGAC
CGGCCGGCAGCTGCGCCGCTGCAGGATTTCTGGGCTCAAGCGCATCATCACCAGACAAGCACTTCTA
CTTCAACCAGACCAAGGGCTTCCCGTGCCTCAAGAAGGGCGGAGGGCAGCGCAAGCCGACTGCCTGGGC
AAGACTAAGGGCCGCGCACCCACCATCGCGCGAGGTGCTGCGGCAGCTGCGTGACTTTTACCGGC
CCTTCAACCGCAAGTTCTACCAGATGACCGCCGCGACTTCGGCTGGAC

ACGGTACGGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR223170 protein sequence
 Red=Cloning site Green=Tags(s)

MGQRLSGGRSCLDVPGRFLPQPPPPPPVRRKLLALLFAMLCIWL YMFLYSCAGSCTAAPGLLLLGSRSRA
 THAQPALVTAPNETSPKMPFRAPPANSLAAGKDKTVGAGSQEEQSPEADSPSPISFFSGAGSKQLPQA
 I IIGVKKGGTRALLEFLRVHPDVRAVGAEPHFDFDRSYHKGLAWYRDLMPRTLQGITMEKTPSYFVTREA
 PARISAMSKDTKLIVVVRDPVTRAI SDYTQTL SKRPDIPSFESL TFRNRSAGLIDTSWSAIQIGLYAKHL
 EPWLRHFPLGQMLFVSGERLVSDPAGELRRVQDFLGLKRIITDKHFYFNQTKGFCLKKAEGSGKPHCLG
 KTKGRAHPTIAREVLRQLRDFYRPFNRKFYQMTGRDFGWD

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_018805

ORF Size: 1173 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_018805.1](#), [NM_018805.2](#), [NP_061275.2](#)

RefSeq Size: 6004 bp

RefSeq ORF: 1173 bp

Locus ID: 54710

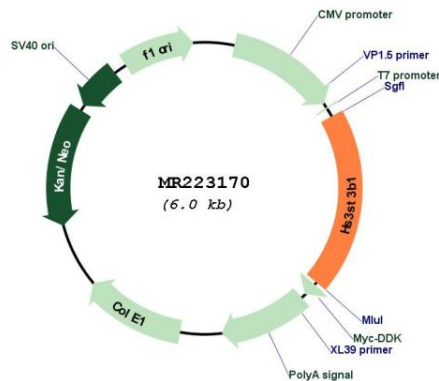
UniProt ID: [Q9QZS6](#)

Cytogenetics: 11 39.47 cM

MW: 43.3 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 MR223170