

Product datasheet for **MC214408**

Hs3st5 (NM_001081208) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hs3st5 (NM_001081208) Mouse Untagged Clone
Tag: Tag Free
Symbol: Hs3st5
Synonyms: D930005L05Rik; Gm1151; Hs3ost5
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC214408 representing NM_001081208
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCTATTCAAACAGCAGGTGTGGCTGAGACAGAAGCTCCTGGTACTGGGAAGCCTTGCTGTTGGGAGCC
TCCTGTATCTAGTTGCCAGAGTTGGGAGCTTGGATAGGCTCCAGCCATTTGCCCTGTTGAAAGTCGATT
TGGTGGTGGCCACAACCAGGCTGAGTTGCCACTGCGGGCCCTGCAGTTTAAAGAGAGGCTTGCTGCATGAG
TTCCGGAAAGGGCAATTCTTCCAAGGAGCAGTTACCTCCATGACTGGTCCAACAGCTCCCAAAGCCA
TTATCATTGGGGTGAGAAAAGGGGGCACAAAGGGCCCTGCTAGAGATGCTCAACCTCCATCCTGCAGTGGT
CAAAGCTTCCAAGAGATCCACTTCTTTGACAATGATGAGAATTATGCCAAGGGCATTGAGTGGTACAGG
AAAAAGATGCCTTTTTCTACCTCAGCAAATCACGATTGAAAAGAGCCCGCATATTTTCATCACAGAAG
AGGTTCCGAAAGGATTTACAAGATGAATCATCCATCAAGCTGTTGATCATTGTCAGGGAGCCGACCAC
AAGAGCAATTTCTGATTACTCAGGTGCTAGAGGGGAAGGAGCGGAAGAACAACCTACTATAAGTTT
GAAAACTGGCTATAGACCCTAATACCTGTGAAGTGAACACGAAATACAAGGCGGTTAGGACCAGCATAT
ACACAAAACATCTGGAGCGTGGTTGAAATACTTTCCATTGAACAGTTTCATATCGTAGATGGTGACCG
TCTTATCACAGAACCTTGCCGGAACACTACAGTGGTGGAAAAGTTCTTAAACCTTCTCCGAGGATAAGT
CAGTACAATTTATATTTCAATGCTACCAGAGGTTTTACTGTCTGAGATTTAACATTATCTTTAATAAGT
GCCTGGCGGGCAGCAAGGGGCGCATCCATCCAGAGGTAGACCCTCCGTCAATACCAAATTCGCGCAAAT
CTTTCATCTTTAATCAAAAATTTACCAGATCACTGGGAGGACATTGAACTGGCC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001081208



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Insert Size:	1041 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_001081208.2</u> , <u>NP_001074677.1</u>
RefSeq Size:	2958 bp
RefSeq ORF:	1041 bp
Locus ID:	319415
UniProt ID:	<u>Q8BSL4</u>
Cytogenetics:	10 B1
Gene Summary:	<p>Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) to catalyze the transfer of a sulfo group to position 3 of glucosamine residues in heparan. Catalyzes the rate limiting step in the biosynthesis of heparan sulfate (HSact). This modification is a crucial step in the biosynthesis of anticoagulant heparan sulfate as it completes the structure of the antithrombin pentasaccharide binding site. Also generates GlcUA-GlcNS or IdoUA-GlcNS and IdoUA2S-GlcNH₂ (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) lacks two exons in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein.</p>