

## Product datasheet for **RR214447**

### **Hs3st1 (NM\_053391) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Hs3st1 (NM\_053391) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Hs3st1  
**Synonyms:** 3OST-I  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR214447 representing NM\_053391  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGACCTTGCTGCTCCTGGGTGCGGTGCTGCTGGTGGCCAGCCCAGCTCGTGCCTTCCCACCCGGCTG  
CTCCTGGCCCGGACTCAAACAGCAGGGGCTTCTGAGGAAGGTGATTATTCTCCCGGAGGACACTGGAGA  
AGGTGCAGCCACCAATGGTTCCACCCAGCAGCTGCCACAGACTATCATCATTGGAGTACGCAAGGGTGGT  
ACCCGAGCCCTGCTGGAGATGCTCAGCCTGCATCCTGATGTTGCGGCAGCTGAAAACGAGGTCCATTCT  
TTGACTGGGAGGAACATTATAGCCAAGGCTGGGCTGGTACCTCACCCAGATGCCCTTCTCTCCCCACA  
CCAGCTCACGGTAGAGAAGACACCTGCCTACTTCACTTCGCCAAAGTGCCTGAGAGAATCCACAGCATG  
AACCTACTATCCGCCTGCTGCTCATCCTGAGGGACCCATCCGAACGTGTGCTATCCGACTACACCCAGG  
TGTTGTACAACCACCTTCAGAAGCACAACCTTACCCACCCATTGAGGACCTCCTAATGCGGGACGGACG  
GCTCAACGTGGACTACAAGGCTCTCAACCGCAGCCTGTACCATGCACACATGCTGAACTGGCTGCGTTTT  
TCCCCTGGGCCACATCCACATCGTGGATGGCGACCGTTTCATCAGAGACCCCTTCCCTGAGATCCAGA  
AAGTCGAAAGGTTCCCTCAAGCTGTCTCCACAGATCAACGCTCGAACTTCTACTTTAACAACCAAGGG  
CTTCTACTGCCTGCGGGACAGTGGCAAGGACCGCTGCTTACATGAGTCCAAGGCCGGCGCACCCCTCAA  
GTAGATCCCAAATACTTATAAAGTGCACGAATATTTTCGTGAGCCAAATAAGAAATTTTTCAAGCTCG  
TGGCAGAACATTCGACTGGCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR214447 representing NM\_053391  
 Red=Cloning site Green=Tags(s)

MTLLLLGAVLLVAQPQLVPSHPAAPGPGGLKQQGLLRKVIILPEDTGEGATNGSTQQLPQTIIIGVRKGG  
 TRALLEMLSLHPDVAAAENEVHFDFDWEHYSQGLGWYLQMPFSSPHQLTVEKTPAYFTSPKVPERIHSM  
 NPTIRLLLLILRDPSEVLSDYTQVLYNHLQKHKPYPIEDLLMRDGRNLVDYKALNRSLYAHMLNWLRF  
 FPLGHIHIVDGRFIRDPFPEIQKVERFLKLSQINASNIFYFNKTKGFYCLRDSGKDRCLHESKGRAHPQ  
 VDPKLLDKLHEYFREPNKKFKLVGRTFDWH

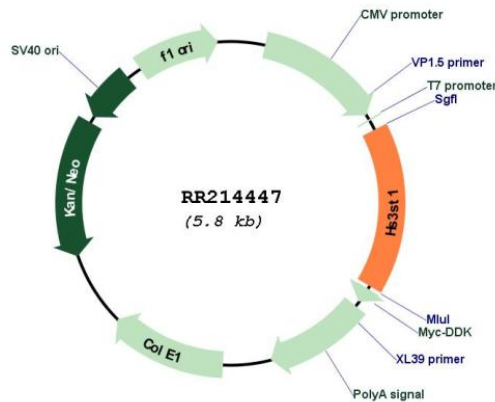
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_053391

**ORF Size:** 933 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_053391.1</a> , <a href="#">NP_445843.1</a>
<b>RefSeq Size:</b>	936 bp
<b>RefSeq ORF:</b>	936 bp
<b>Locus ID:</b>	84406
<b>UniProt ID:</b>	<a href="#">Q9ESG5</a>
<b>Cytogenetics:</b>	14q21
<b>MW:</b>	35.8 kDa
<b>Gene Summary:</b>	plays a role in heparan sulfate synthesis in alveolar type II cells [RGD, Feb 2006]