

## Product datasheet for **RR207461**

### Hs2st1 (NM\_001100518) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hs2st1 (NM_001100518) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hs2st1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR207461 representing NM_001100518 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGGGCTCCTCAGGATTATGATGCCGCCCAAGTTGCAGCTGCTGGCGGTGGTGGCCTTCGCGGTGGCGA  
TGCTCTTCTTGGAGAACCAGATCCAGAAGCTGGAGGAGTCCCGGGCGAAGCTAGAGAGGGCAATTGCAAG  
ACATGAAGTCCGAGAGATTGAACAGCGCCACAGATGGACGGCCCTCGGCAGGATGCCACTTGGATGAA  
GAAGAAGACATCGTCATATTTATAACAGAGTGCCCAAACTGCAAGCACCTCGTTCACCAATATCGCCT  
ATGACCTGTGTGCAAAGAATAGATACCAGTCTTTCACATCAACTACCAAAAACAACCCAGTAATGTC  
ATTGCAGGATCAGGTGCGCTTTGTAAAGAATATAACCAGCTGGAACGAGATGAAACCAGGCTTCTATCAC  
GGACACATTTCTTACTTGGATTTTGCAAAATTCGGGGTGAAGAAGAAGCCGATTTACATCAATGTCGTCA  
GGGACCCGATTGAGAGGCTAGTTTCTACTATTACTTTCTGAGGTTTGGAGATGATTACAGACCCGGACT  
AAGGAGGCGAAACAAGGAGACAAGAAGACCTTCGATGAATGCGTGGCTGAGGGCGGCTCAGACTGTGCT  
CCAGAGAAGCTCTGGCTTCAGATCCCGTCTTCTGTGGCCACAGCTCAGAATGCTGGAATGTTGGAAGCA  
GATGGGCGATGGATCAAGCTAAGTACAACCTAGTTAATGAGTACTTCTGTTGGGGTACTGAAGAGTT  
GGAAGACTTCATCATGCTCCTGGAGGCGGCTCTGCCCGGTTCTTCAGGGGCGCGACGGACTCTATCGT  
ACAGGAAAGAAATCTCACCTTAGGAAAACACAGAGAAGAACTGCCCACTAAACAGACCATCGCGAAGC  
TACAGCAGTCCGACATTTGGAAAATGGAGAATGAGTTCTATGAGTTTGCCTGGAGCAGTTCCAGTTCAT  
GAGAGCCACGCGGTCCGTGAGAAAAGTGGAGACCTCTACATCTGGCCAGAACTTTTCTATGAAAAG  
ATTTACCCTAAGTCGAAC

**ACGCGT**ACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
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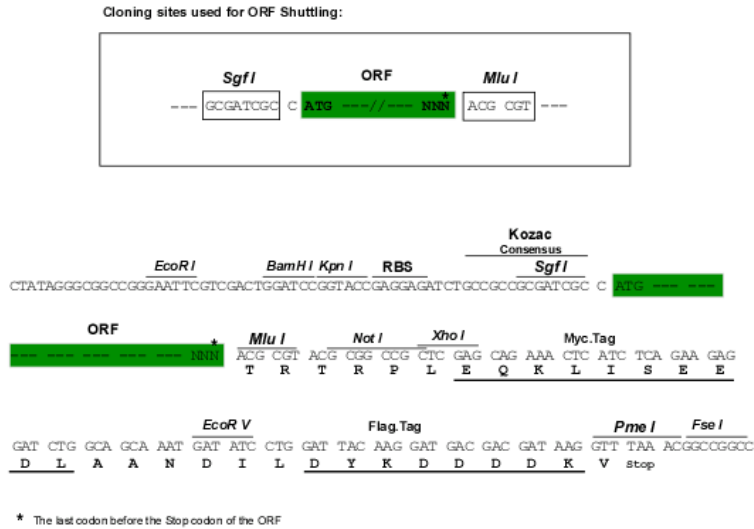
**Protein Sequence:** >RR207461 representing NM\_001100518  
 Red=Cloning site Green=Tags(s)

MGLLRIMPPKLQLLAVVAFVAVMLFLENQIQKLEESRAKLERAIARHEVREIEQRHTMDGPRQDATLDE  
 EEDIVIIYNRPKTASTSFTNIAIDLCAKNRYHVLHINTTKNNPVMSLQDQVRFVKNITSWNEMKPGFYH  
 GHISYLDFAKFGVKKKPIYINVVRDPIERLVSYFFLRFGDDYRPLRRRKQGDKTFDECVAEGGSDCA  
 PEKLWLQIPFFCGHSSECVNVSRWAMDQAKYNLVNEYFLVGVTEELDFIMLLEAALPRFFRGATDLYR  
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 IYPKSN

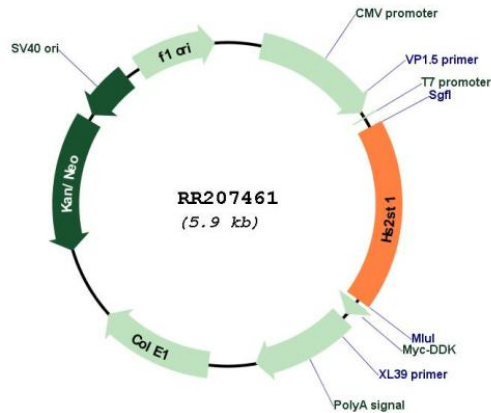
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001100518

<b>ORF Size:</b>	1068 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_001100518.1</a> , <a href="#">NP_001093988.1</a>
<b>RefSeq Size:</b>	4133 bp
<b>RefSeq ORF:</b>	1071 bp
<b>Locus ID:</b>	292155
<b>Cytogenetics:</b>	2q44
<b>MW:</b>	41.9 kDa