

## Product datasheet for **RR207387**

### Hsd3b3 (NM\_001042619) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Hsd3b3 (NM\_001042619) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Hsd3b3  
**Synonyms:** Hsd3b  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR207387 representing NM\_001042619  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCCTGGATGGAGCTGCCTGGTGACAGGAGCAGGAGGGTTTGTGGCCAGAGGATCATCCGGATGTTGG  
TGCAGGAGAAAGAACTGCAGGAGGTCAGGGCTCTGGACAAAGTCTTCAGACCAGAAACCAAGGAGGAATT  
CTCTAAGCTGCAGACAAAGGCCAAGGTGACAATGTTAGAAGGAGATATTCTGGATGCCAGTACCTGAGG  
AGAGCGTGCCAGGCATCTCTGTTGTATCCACACGGCTTCTGTGATGGATTTCTCACGTGCTCACC  
GGCAGACCATCTAGATGTCAATCTGAAAGGTACCCAGAACCTATTGGAGCCGGTATCCACGCTAGTGT  
GCCAGCCTTCTACTGACGACAGTTGACGTTGCAGGGCCCAACTCCTACAAGAAGACCATCCTGAAT  
GGCCGTGAGGAAGAGCATCATGAAAGCAGATGGTCAAATCCATACCCATACAGCAAAAAGATGGCCGAGA  
AGGCAGTGCTGGCAGCCAATGGGAGCATCCTGAAAAATGGTGGCACACTGCATACTTGTGCCTTAAGGCC  
CATGTACATTTATGGGGAGAGAGGTCAATTCCTTTCTAGAATAATAATTATGGCCCTCAAAAATAAGGGT  
GTTCTGAACGTTACTGGCAAATTCCTCATAGTCAATCCAGTGTATGTAGGCAATGTGGCCTGGGCACATA  
TTCTGGCTGCCAGGGCCTTCGAGACCCCAAGAAGTCAAAAATATCCAAGGACAGTTCTACTATATCCTC  
AGATGACACCCCTCACCAAGCTATGATGATTTAAATTGACCCCTGAGCAAGGAATGGGGCCTCCGCCTT  
GATTCAGCTGGAGCCTTCTCTGCCCTGCTCTACTGGCTTGCCTTCTGCTGAAACTGTGAGCTTCC  
TGCTGCGTCCATTTTACAACATAGGCCACCTTTAACTGCCACTTGGTCACTGTCAAATAGCAAGTT  
CACTTTCTCTACAAGAAAGCTCAGAGAGATCTGGGCTATGAGCCACTTGTGAGTGGGAGGAAGCCAAAG  
CAGAAAACCTCGGAGTGGATCGGGACACTAGTGGAGCAGCACAGGGAGACTGGACACAAAGTCTCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR207387 representing NM\_001042619  
 Red=Cloning site Green=Tags(s)

MPGWSCLVTGAGGFVQRIIRMLVQEKELQEVRLDKVFRPETKEEF SKLQTKAKVTMLEGDILDAQYLR  
 RACQGISVVIHTASVMDFSRVLPRQTILDVNLKGTQNLLEAGIHASVPAFIYCSTVDVAGPNSYKKTILN  
 GREEEHHESTWSNPYPYSKKMAEKAVLAANGSILKNGGTLHTCALRPMYIYGERGQFLSRIIIMALKNKG  
 VLNVTGKFSIVNPVYVGNVAWAHILAARGLRDPKKSQNIQGFYYISDDTPHQSYDDLNCTLSKEWGLRL  
 DSSWSLPLPLLWLAFLLETVSVFLLRPFYNYRPPFNCHLVTLSNSKFTFSYKKAQRDLGYEPLVSWEEAK  
 QKTSEWIGTLVEQHRETLDTKSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

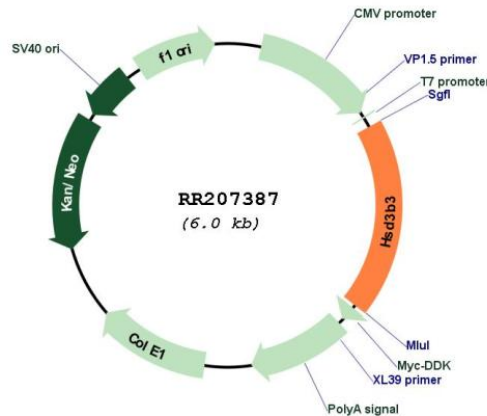
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001042619

<b>ORF Size:</b>	1119 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_001042619.1</a> , <a href="#">NP_001036084.1</a>
<b>RefSeq Size:</b>	1629 bp
<b>RefSeq ORF:</b>	1122 bp
<b>Locus ID:</b>	682974
<b>UniProt ID:</b>	<a href="#">P22072</a>
<b>Cytogenetics:</b>	2q34
<b>MW:</b>	42.3 kDa
<b>Gene Summary:</b>	3-beta-HSD is a bifunctional enzyme, that catalyzes the oxidative conversion of Delta(5)-ene-3-beta-hydroxy steroid, and the oxidative conversion of ketosteroids. The 3-beta-HSD enzymatic system plays a crucial role in the biosynthesis of all classes of hormonal steroids. [UniProtKB/Swiss-Prot Function]