

## Product datasheet for MR225231

### Hsd3b3 (NM\_001161745) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Hsd3b3 (NM\_001161745) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Hsd3b3  
**Synonyms:** 9030618K22Rik; AI790201  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR225231 representing NM\_001161745  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGCCTGGGTGGAGCTGCCTGGTACTGGAGCAGGAGGGTTTTGGGCCAGAGGATCATCCAGTTGTTGG  
 TGCAGGAGAAAGATCTTGAGGAGATCAGGTCCTGGACAAGTCTCAAACCTGAAACCAGGAGCAATT  
 CTTCAACCTAGGGACAAGCATCAAGGTGACAGTGTGGAAGGAGACATTCTTGACACCCAGTACCTGAGG  
 AGAGCTTGCCAGGCATCTCTGTTGTACTCCACTGCTGCCATCATTGATGTCACAGGTGTCATCCCA  
 GGCAGACCATCCTAGATGTCAATCTGAAAGGTACCCAGAATTATTGGAGGCCTGTATCCAAGCCAGTGT  
 GCCAGCCTTCATCTTCTCCAGCTCAGTTGACGTTGCAGGGCCCAACTCTTACAAGGACATTGTCCTGAAT  
 GGCCACGAGGACGAGCATCGTGAAAGCACATGGTCTGACCCATACCCATACAGCAAAAAGATGGCTGAGA  
 AGGCAGTGTGGCAGCCAATGGGAGCATGCTGAAAAATGGTGGCACTTTGCAAACCTGTGCATTAAGGCC  
 CATGTGCATTTATGGGGAGAGAAGTCAATTCCTTTCTAACACAATAATTAAGGCCCTCAAAAATAAGTTT  
 ATTCTGAGAGGTGGGGCAAATTCACAGCCAACCCAGTATATGTGGCAATGTGGCTGGGCACACA  
 TTCTGGCTGCCAGGGCCTTCGAAACCCAGAAGTCACCAATATCCAAGGAGAGTTCTACTACATCTC  
 AGATGATACCCCTCACCAAAGTTATGATGATTTAAATTACACCCTGAGCAAGGAGTGGGGCTTCTGCCTC  
 AATTCAGGTGGTACCTTCTGTGCCATACTGTACTGGCTTGCCTTCTGCTGGAACTGTGAGCTTCC  
 TGCTGAGTCCAATCTACAGATATACCTCCCTTTAACCGCCACTGGTCACACTGACAGCTAGTACGTT  
 CACTTTCTCTACAAGAAAGCTCAGCGAGATCTGGGCTATGAGCCACTTGTGAGTGGGAGGAAGCCAAG  
 CAGAAAACCTCAGAGTGGATCGGGACACTAGTGGAGCAGCACAGGGAGACTGGACACAAAGTCTCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR225231 representing NM\_001161745  
Red=Cloning site Green=Tags(s)

MPGWSCLVTGAGGFLGQRIIQLLVQEKDLEEIRVLDKVKFPETREQFFNLGTSIKVTVLEGDILDTQYLR  
 RACQGISVVIHTAAIIDVTGVIPRQTILDVNLKGTQNLLEACIQASVPAFIFSSSDVDVAGPNSYKDIVLN  
 GHEDEHRESTWSDPYYPYSKKMAEKAVLAANGSMLKNGGTLQTCALRPMCIYGERSQFLSNTIIKALKKNKF  
 ILRGGGKFSTANPVYVGNVAWAHILAARGLRNPKKSPNIQGEFYIISDDTPHQSYDDLNYTLKKEWGFCL  
 NSRWYLPVPILYWLAFLLLETVSVFLLSPIYRYIPFNRHLVTLTASTFTFSYKKAQRDLGYEPLVSWEEAK  
 QKTSEWIGTLVEQHRETLDTKSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

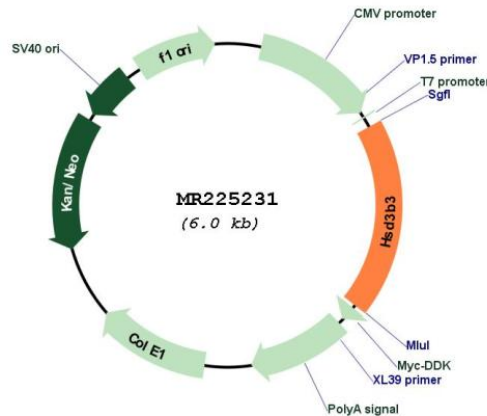
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001161745

<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_001161745.1</a> , <a href="#">NP_001155217.1</a>
<b>RefSeq Size:</b>	1655 bp
<b>RefSeq ORF:</b>	1122 bp
<b>Locus ID:</b>	15494
<b>UniProt ID:</b>	<a href="#">P26150</a>
<b>Cytogenetics:</b>	3 42.86 cM
<b>MW:</b>	42.5 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]