

## Product datasheet for MR204133

### Hsd17b11 (NM\_053262) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hsd17b11 (NM_053262) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hsd17b11
Synonyms:	Dhrs8; Pan1b; retSDR2; SDR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204133 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGTATCTTCTTGACTTGATCCTGCTGCTGCCTTTGCTCATCGTCTTCAGCATTGAGTCTCTTGTC  
AGCTTTTTATTCCCAAGAAGAAAAATCTGTCGCCGGAGAGATCGTCTGATCACCGGAGCTGGTCATGG  
GATTGGAAGACTGACTGCCTACGAATTTGCCAACTTAACACCAAAGTCTCTGGGATCAATAAG  
AACGGCATCGAGGAAACAGCTGCTAAGTGCAGGAAGCTGGGTGCCAGGCCATCCCTTTGTGGTGGACT  
GCAGCCAGCGGAAGAGATTTACAGCGCTGCGAAAAAGGTAAGGAAGAAGTTGGAGATGTAGCATTCT  
GGTAAATAACGCCGGCGTTGTCTACACTGCAGACTTATTTGCTACGCAGGACCCTCAGATTGAAAAGACT  
TTCGAAGTCAATGTGCTTGCACACTTTTGGACCACCAAGGCATTTCTCCCAGTGATGATGAAGAATAATC  
ATGGCCACATTGTCACTGTGGCATCAGCAGCAGGCCACACCGTGGTCCCCTTCTTGTGGCTTACTGCTC  
CAGCAAGTTTGTGCGCTTGGCTTCCACAGAGCCTTGACTGATGAGCTGGCTGCCCTGGGACGAACAGGA  
GTGCGAACATCGTGCCTCTGCCCAACTCATAAACACCGGCTTCATCAAGAACCAAGCACCAATTTAG  
GACCCACCCTGGAACCCGAGGAGGTGGTGAACATCTCATGCACGGGATCCTCACTGAGAAGCAAATGAT  
TTTCGTTCCGAGTTCCATAGCACTTCTGACAGTATTGAAAGGATCGTCCCTGAGAGGTTCTGCAAGTC  
CTAAAACACAGGATCAACGTCAAGTTCGATGCAGTTGTTGGGTACAAAGACAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204133 protein sequence  
Red=Cloning site Green=Tags(s)

MKYLDDLILLPLLVFVSIKLVKLFIPKKKSVAGEIVLITGAGHGIGRLTAYEFAKLNTKLVLDINK  
 NGIEETAACKRKLGAQHPFVDCSQREEIYSAAKVKVEEVDVSI L VNNAGVVYADLFATQDPQIEKT  
 FEVNVLAHFWTTKAFLPVMKNNHGHIVTASAAGHTVVPFLLAYCSSKFAAVGFHRLTDELAALGRTG  
 VRTSCLCPNFINTGFIKPNSTNLGPTLEPEEVVEHLMHGILTEKQIMIFVPSIALLTVLERIVPERFLQV  
 LKHRINVKFDVAVGYKDK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_053262

**ORF Size:** 897 bp

**OTI Disclaimer:** 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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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:** [NM\\_053262.2](#)

**RefSeq Size:** 1699 bp

**RefSeq ORF:** 897 bp

**Locus ID:** 114664

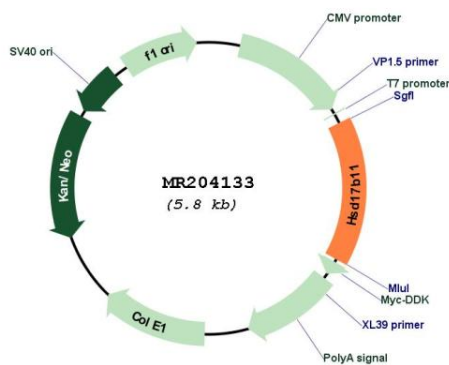
**UniProt ID:** [Q9EQ06](#)

**Cytogenetics:** 5 E5

**MW:** 32.9 kDa

**Gene Summary:** Can convert androstan-3-alpha,17-beta-diol (3-alpha-diol) to androsterone in vitro, suggesting that it may participate in androgen metabolism during steroidogenesis. May act by metabolizing compounds that stimulate steroid synthesis and/or by generating metabolites that inhibit it. Has no activity toward DHEA (dehydroepiandrosterone), or A-dione (4-androste-3,17-dione), and only a slight activity toward testosterone to A-dione.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR204133