

Product datasheet for **RR213495**

Hsd17b11 (NM_001004209) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hsd17b11 (NM_001004209) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hsd17b11
Synonyms:	Dhrs8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR213495 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGTACCTTCTTGACCTGATCCTGCTGCTGCCTCTGCTTATTGTCTTCTGCATTGAGTCTTTCATCA
AGCGTTTGATTCCCAAGAAGAAAAATCCGTCGCTGGAGAGATCGTTCTGATCACCGAGCTGGTCATGG
GATTGGAAGACTGACCGCTACGAATTTGCCAACTAAACACCAAAGTCTGTGGGATATCAATAAG
AATGGCATCGAGGAAACAGCGGCAAGTGCAGGAAGCTAGGTGCCAGGTCCATCCCTTTGTGGTGGACT
GCAGCCAGCGGGAAGAGATTTACAGCGCTGTGAGAAAGGTAAGGAAGAAGTTGGAGATGTAGCATTCT
GGTAAATAATGCCGGCGTTGTCTACACTGCAGATCTATTTGCTACGCAGGACCCTCAGATTGAAAAGACT
TTCGAAGTCAATGTGCTTGACACTTTTGGACCACCAAGGCATTTCTCCAGCCATGATGAAGAATAATC
ATGGTCATGTTGTCACCGTGGCGTCGGCAGCAGGGCACACCGTCGTTCCCTTCTGCTGGCTTACTGTTC
TAGCAAGTTTGTGCTGTTGGCTTCCACAGAGCCTTGACTGATGAACTGGCTGCCTGGGATGCACTGGA
GTCCGAACATCCTGCCTCTGCCCTAACTCATAAATACCGGCTTCATCAAGAACCCGAGCACCAATTTAG
GGCCACCCTGGAACCTGAGGAGGTGGTAGAGCATCTCATGCACGGGATCCTACTAACCAGAAGATGAT
CTTCGTCGGGCTCTATAGCGCTTTTGACAGTATTGAAAGGGTGTTCCTGAGAGATTCTGGACGTT
CTAAAGCGCAGGATCAACGTTAAGTTCGATGCTGTTGTTGGCTACAAAGATAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR213495 protein sequence
 Red=Cloning site Green=Tags(s)

MKYLDDLILLPLLVFCIESFIKRLIPKKKKS VAGEIVLITGAGHGIGRLTAYEF AKLNTKLVLDINK
 NGIEETA AKCRKLG AQVHPFVVDCSQREEIYS AVRKVKKEEVDVSILVNNAGVVYADLFATQDPQIEKT
 FEVNVLAHFWTTKAFLPAMMKNNHGHVVTVASAAGHTVVPFLLAYCSSKFAAVGFHRLTDELAALGCTG
 VRTSCLCPNFINTGFIKNPSTNLGPTLEPEEVVEHLMHGILTNQKMFVPGSIALLTVLERVFPERFLDV
 LKRRINVKFDVAVGYKDK

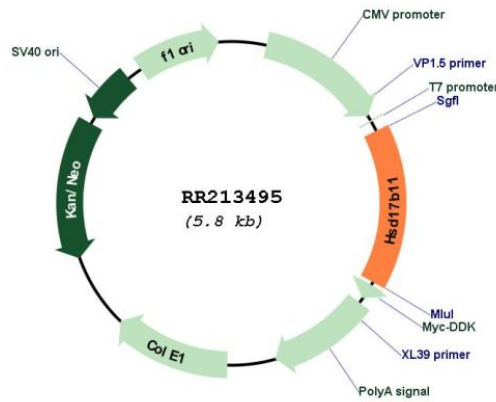
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001004209

ORF Size: 894 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:	<ol style="list-style-type: none">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_001004209.1 , NP_001004209.1
RefSeq Size:	1622 bp
RefSeq ORF:	897 bp
Locus ID:	289456
UniProt ID:	Q6AYS8
Cytogenetics:	14p22
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]