

Product datasheet for RR201524

Hsd17b1 (NM_012851) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hsd17b1 (NM_012851) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hsd17b1
Synonyms:	17BHD1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR201524 representing NM_012851 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGACTCCACGGTAGTGCTCATTACCGTTGCTCTTCTGGAATTGGCCTGCACTTGGCTGTTTCGTCTGG
CTTCCGACCGTTCCAGAGCTTCAAAGTTTATGCCACATTGCGGGATCTGAAGTCACAGGGACCATTGTT
GGAGGCAGCCAGGGCTCAAGGATGCCCTCTGGCTCCCTGGAGATACTGGAATTGGATGTCAGAGACTCG
GAATCTGTGGCTGCTGCCCGGCATGCGTGACGGAGGGTCGAGTGGATGTACTGGTCTGTAATGCTGGAC
GCGGCTTGTTCGGCCGCTGGAAGCGCATGAGTTGAACGCTGTGGGTGCTGTACTGGATGTGAATGTTCT
TGGGACCATCCGGATGCTTCAGGCCTTTCTGCCAGACATGAAAAGGCGCCACTCCGGGCGTGTGCTGGT
ACTGCGAGTGTGGGAGGTTTGTATGGGGCTGCCATTCCACGAAGTGTACTGTGCCAGCAAGTTTGCCTCG
AAGGTCTGTGCGAGAGTCTGGCGATCCTGCTGCCGCTCTTTGGAGTCCACGTGAGCCTCATCGAGTCCG
GGCAGTGACACAGCCTTCCATGAAAAGCTGGAGGGCGCCCGGGCGGGCTCTGGAGCGAGCAGATGCC
CAGACCCGCCACCTTTTGGCCACTATCAGCGTGGTTATGAGCAAGCCCTGAGCGAGGCGCAGGACCCAG
AGGAGGTGACGGAGCTCTTCTTGACTGCGATGCGAGCCCCGACGCTGCGCTACTTCTCCACAAA
CCGCTTCTGCCGCTGGCCGAATGCGCACAGAGACCCAGTGGCAGCAGCTACGTCGAAGCCATGCAC
CGCAGGGCCTTCTGATCTGCAGGTCCAGGAGGGTGCCAAGGCTGGGGCCCAAGTTTCAGGGGATCCAG
ACACGCCCCCAGAGCCCTCATTTGTCTCCCCGAGTGTGCAATCCCTAGGGTGACAGCTGAATTGGGATG
GTCTGCATCAGATAAACCGGGTCAGAACAAATCATGTTACCAGCAAAAAGATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR201524 representing NM_012851
 Red=Cloning site Green=Tags(s)

MDSTVVLITGCSSGIGLHLAVRLASDRSQSFVKVYATLRDLKSQGPLLEAARAQGCPPGSLEILELDVDRS
 ESVAAARACVTEGRVDVLCNAGRGLFGPLEAHELNAVAVLDVNVLTGIRMLQAFPLDMKRRHSGRVLV
 TASVGGMLMGLPFHEVYCASKFALEGLCESLAILLPLFGVHVSLEICGAVHTAFHEKLEGGPGGALERADA
 QTRHLFAHYQRGYEQALSEAQDPPEEVTFLTAMRAPQPALRYFSTNRFLLPLARMRTEDPSGSSYVEAMH
 REAFSDLQVQEGAKAGAQVSGDPDTPPRALICLPECAIPRVTAELGWSASDKPGQNKSCYQQKI

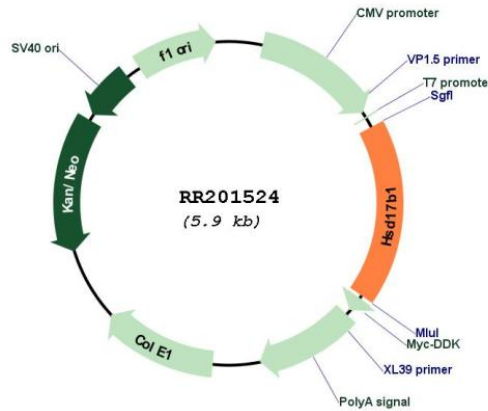
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_012851

ORF Size: 1032 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_012851.2, NP_036983.1</p>
RefSeq Size:	<p>1431 bp</p>
RefSeq ORF:	<p>1035 bp</p>
Locus ID:	<p>25322</p>
UniProt ID:	<p>P51657</p>
Cytogenetics:	<p>10q31</p>
MW:	<p>37 kDa</p>
Gene Summary:	<p>catalyzes the conversion between 17 beta-hydroxy- and 17-ketosteroids; plays a role in estradiol biosynthesis [RGD, Feb 2006]</p>