

Product datasheet for MR22239

Hsd17b1 (NM_010475) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hsd17b1 (NM_010475) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hsd17b1
Synonyms:	17beta-HSD; 17HSDB1; E2DH; Hsd17ba
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR22239 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCCACGGTAGTGCTCATTACCGTTGCTCCTCTGGAATCGGCATGCACTTGGCTGTTGCGCTAG
CTTCTGACCGTTCCAGAGCTTCAAAGTTTATGCCACATTGCGGGACCTGAAGGCACAGGGACCATTGTT
GGAGGCCGCCAGGACTCAAGGATGCCCTCCTGGCTCCTGGAGATACTGGAATTGGATGTCAGAGACTCC
AAATCTGTGGCTGCTGCCAGGCATGCGTGACTGAGGGTCGTGTGGATGTAATGCTGGCC
GCGGCTTGTGGCCGCTAGAAGCACATGAATTGAACGCTGTGGTGCTGTGTTGGATGTGAATGTGCT
TGGGACCATTCGGATGCTGCAGGCCTTCTGCCAGACATGAAGAGCGCCACTCTGGGCGTGTGCTGGT
ACCGCGAGTGTGGGAGGCTTGTGGGACTGCCATTCCACGAAGTGTACTGTGCCAGCAAGTTTGGCCTCG
AAGTTTGTGCGAGAGTCTGGCGATCCTGCTGCCGCTCTTTGGAGTCCATGTGAGCCTCATCGAGTGTGG
GGCAGTGCACACAGCCTTCTATGAAAAGCTGGTGGCGGGCCCCGGCGGGGCTCTGGAACGAGCAGATGCC
CAGACCCGCCACCTTTTGGCAGTACCTGCGTGGTTATGAGCAAGCCCTGAGCGAGGCGCAGGACCCAG
AGGAGGTGACGGAGCTCTTCTGACTGCAATGCGAGCCCCGAGCCCGCCTGCGCTACTTCTCCACGAA
CCGTTCTACCCCTGGCCGAATGCGCACAGAGGATCCCAGTGGCAGCAGCTATGTCGCGGCCATGCAC
CAAGAAGCCTTCTAATCTGCAGACCCAGGAGAATGCCAAGGCTGGGGCCCAAGTCCCGGGGTCTCGG
ACACGGCCTCCAGCGCCCTCATTTGCCTCCCTGAATGTGCAATCCCTAGGGTGGCATCTGAATTGGGGT
GTCTGCATCGGATAAACCGGGTCAGGACAATTCATGTTACCAGCAAAAGATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222239 protein sequence
Red=Cloning site Green=Tags(s)

MDPTVVLITGCSSGIGMHLAVRLASDRSQSFVYATLRDLKAQGPLEAARTQGCPPGSLEILELDVRDS
 KSVAAAQACVTEGRVDLVCNAGRGLFGPLEAHELNAVGAFLDVNVLGTIRMLQAFPLDMKRRHSGRVLV
 TASVGGMLMGLPFHEVYCASKFALEGLCESLAILLPLFGVHVSLIECGAVHTAFYEKLVGGPGGALERADA
 QTRHLFAHYLRGYEQALSEAQDPPEEVELFLTAMRAPQPALRYFSTNRFPLARMRTEDPSGSSSYAAMH
 QEAFSNLQTQENAKAGAQPVGVSDTASSALICLPECAIPRVA SELGWSASDKPGQDN S CYQQKI

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_010475

ORF Size: 1035 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_010475.2](#)

RefSeq Size: 1317 bp

RefSeq ORF: 1035 bp

Locus ID: 15485

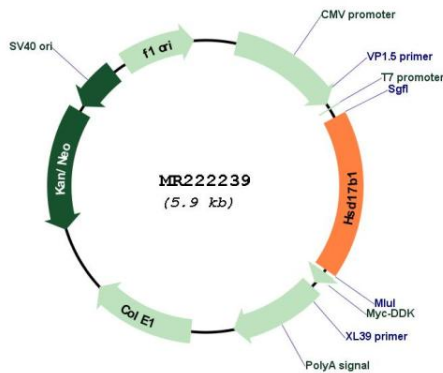
UniProt ID: [P51656](#)

Cytogenetics: 11 64.17 cM

MW: 36.8 kDa

Gene Summary: Favors the reduction of estrogens and androgens. Uses preferentially NADH.
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222239