

Product datasheet for **SC117792**

HSD17B6 (NM_003725) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | HSD17B6 (NM_003725) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | HSD17B6 |
| Synonyms: | HSE; RODH; SDR9C6 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_003725, the custom clone sequence may differ by one or more nucleotides |

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ATGTGGCTCTACCTGGCGGCTTCGTGGGCTGTACTACCTTCTGCACTGGTACCGGGAGAGGCAGGTGG
TGAGCCACCTCCAAGACAAGTATGTCTTTATCACGGGCTGTGACTCGGGCTTTGGGAACCTGCTGGCCAG
ACAGCTGGATGCACGAGGCTTGAGAGTGCTGGCTGCGTGTCTGACGGAGAAGGGGCGGAGCAGCTGAGG
GGCCAGACGTCTGACAGGCTGGAGACGGTGACCCTGGATGTTACCAAGATGGAGAGCATCGCTGCAGCTA
CTCAGTGGGTGAAGGAGCATGTGGGGGACAGAGGACTCTGGGGACTGGTGAACAATGCAGGCATTCTTAC
ACCAATTACCTTATGTGAGTGGCTGAACACTGAGGACTCTATGAATATGCTCAAAGTGAACCTCATTGGT
GTGATCCAGGTGACCTTGAGCATGCTTCCTTTGGTGAGGAGAGCACGGGAAGAATTGTCAATGTCTCCA
GCATTCTGGGAAGAGTTGCTTTCTTTGTAGGAGGCTACTGTGTCTCCAAGTATGGAGTGGAAAGCCTTTTC
AGATATTTCTGAGGCGTGAGATTCACATTTTGGGGTAAAATCAGCATAGTTGAACCTGGCTACTTCAGA
ACGGGAATGACAAACATGACACAGTCCTTAGAGCGAATGAAGCAAAGTTGGAAAGAAGCCCCAAGCATA
TTAAGGAGACCTATGGACAGCAGTATTTTGTATGCCCTTACAATATCATGAAGGAAGGGCTGTTGAATTG
TAGCACAAACCTGAACCTGGTCACTGACTGCATGGAACATGCTCTGACATCGGTGCATCCGCGAAGCTCGA
TATTCAGCTGGCTGGGATGCTAAATTTTCTTCATCCCTCTATCTTATTTACCTACATCACTGGCAGACT
ACATTTTGACTAGATCTTGGCCCAAACCCAGCCAGGCAGTCTAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003725 unedited
 GGTCAAAAATTGTATACGACTCATATAGGCGGCCGCGNAATCGGCACGAGGAGGAGGAAG
 CCGACTGCTGCCTGGTCTGCAAAGAAGTCTTTCAAGTCTCTAGGACTGGACTCTTCCTA
 AGCAAGTCCGAGAAGGAAGCACCTCCTATGTGGCTCTACCTGGCGGCCTTCGTGGGCC
 TGTACTACCTTGCACCTGGTACCGGGAGAGGCAGGTGGTGAGCCACCTCCAAGACAAGT
 ATGTCTTTATCACGGGCTGTGACTCGGGCTTTGGGAACCTGTGGCCAGACAGCTGGATG
 CACGAGCTTGAGAGTGTGGCTGCTGACGGAGAAGGGGGCCGAGCAGCTGAGGG
 GCCAGAGCTCTGACAGGCTGGAGACGGTGACCCTGGATGTTACCAAGATGGAGAGCATCG
 CTGCAGCTACTCAGTGGGTGAAGGAGCATGTGGGGGACAGAGGACTCTGGGGACTGGTGA
 ACAATGCAGGCATTCTTACACCAATTACCTTATGTGAGTGGCTGAACACTGAGGACTCTA
 TGAATATGCTCAAAGTGAACCTCATTGGTGTGATCCAGGTGACCTTGAGCATGCTTCCTT
 TGGTGAGGAGAGCACGGNAGAATTGTCAATGTCTCCAGCATTCTGGGAAGAGTTGCTT
 TCTTTGTAGGAGGCTACTGTGTCTCAAGTATGGAGTGGAAAGCCTTTTCAGATATTCTGA
 GCGGTGAGATTCAACATTNTGGGGTAAAATCAGCATAGTTGAACCTGGCTACTTCAGAA
 CGGAATGACAAACATGACACAGTCCTTAGAGCGAATGAAGCANAGTTGGAAAGAAGCCC
 CCAGCATATTAAGGAGACCTATGGACAGCAGTATTTTGGATGCCCTTACATATCATGAA
 GGAAAGGCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003725 unedited
 AAATACAATATTCTATTATAAAGTACCATAATACANACCCATTTCAAGTAAGGACAAACA
 CACCAACATATTTCTTAGTAGTTTCTCACAATAGATTATTAAGCATAGAACAATTATT
 CATATTCATAAAGAAATGACTTCAAATAGGTTAAATTGTTTTCCATCTACTCTGTTTAA
 TAAGGCAAGAACAATGATTCACCTTTAGACAAATAGTCTCATCAAAAAGGGCTAAAATA
 GTAAAGATTTCATCACCTAAAGTGGTAAGCTTTGGATATCTGAAATATAAACATGTTAGTA
 CTCTGATGATGCCAGATAAATGAATTCAGGCAAGAAAACACATCGTTACAAAAGCCTGG
 GTTCTAAATCAGGATTAAGTACTGAGACACTAACAATTTTCAAGTTTGTCTTCAAGAA
 GCACCAACCCAGCTTTCTTTAGACTGCCTGGGCTGGTCTGGGCCACCATCTAGTCAAAAT
 GTCGTCTGCCACCGACGTAGGTCAATAAGATACACGGATCAATCAAAATGTACCCCTCCA
 CCCACCTGAATATCTACCTTTGGATGCCCCCGCCGACAGCAGTTCATGCAGTCATC
 TGACCACCTATATGGTTTGTGCTGCAATCCCCCCCCCGCCTTCATGATCTTTTCCGA
 GTCTCTGCCCTTCTCGTTGTGCTAGGCCCTCTTCACTCACCTCCGGCCGCTCTCACCC
 TCCCCCCCACCTTATCACGCTCCCCCCCCCGCCTTCTCCTGTGAATCCCTTTCCAC
 CCCCCCTCCTGTCACCCGAAAGTTCCTCCACCCTCCAATCGCCCAATCTTCCCTCCCCCT
 TACATCTTCTCCCCACCCCGTTTTTTTTCCCCCGAAACATTGCTTCTTCTCCCTC
 CCCCCATTCTAGCCTCCACGTCTCCCCTCCCCATCATTTTCTTCCCTCCCCACTCCC
 ATTT

Restriction Sites:

NotI-NotI

ACCN:

NM_003725

Insert Size:

1700 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_003725.2](#), [NP_003716.2](#)

RefSeq Size: 1512 bp

RefSeq ORF: 954 bp

Locus ID: 8630

UniProt ID: [O14756](#)

Cytogenetics: 12q13.3

Domains: adh_short

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene has both oxidoreductase and epimerase activities and is involved in androgen catabolism. The oxidoreductase activity can convert 3 alpha-adiol to dihydrotestosterone, while the epimerase activity can convert androsterone to epi-androsterone. Both reactions use NAD⁺ as the preferred cofactor. This gene is a member of the retinol dehydrogenase family. [provided by RefSeq, Aug 2013]