

Product datasheet for **SC109325**

HSD11B1 (NM_005525) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSD11B1 (NM_005525) Human Untagged Clone
Tag:	Tag Free
Symbol:	HSD11B1
Synonyms:	11-beta-HSD1; 11-DH; CORTRD2; HDL; HSD11; HSD11B; HSD11L; SDR26C1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC109325 sequence for NM_005525 edited (data generated by NextGen Sequencing)

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ATGGCTTTTATGAAAAAATATCTCCTCCCATCTGGGGCTCTTCATGGCCTACTACTAC
TATTCTGCAAACGAGGAATTCAGACCAGAGATGCTCCAAGGAAAAGAAAGTATTGTCACA
GGGGCCAGCAAAGGGATCGGAAGAGAGATGGCTTATCATCTGGCGAAGATGGGAGCCCAT
GTGGTGGTGACAGCGAGGTCAAAGAACTCTACAGAAGGTGGTATCCCACTGCCTGGAG
CTTGGAGCAGCCTCAGCACACTACATTGCTGGCACCATGGAAGACATGACCTTCGCAGAG
CAATTTGTTGCCAAGCAGGAAAGCTCATGGGAGGACTAGACATGCTCATTCTCAACCAC
ATCACCAACACTTCTTTGAATCTTTTTCATGATGATATTCACCATGTGCGCAAAGCATG
GAAGTCAACTTCCTCAGTTACGTGGTCTGACTGTAGCTGCCTTGCCCATGCTGAAGCAG
AGCAATGGAAGCATTGTTGTCGTCTCCTCTCTGGCTGGGAAAGTGGCTTATCCAATGGTT
GCTGCCTATTCTGCAAGCAAGTTTGCTTTGGATGGGTTCTTCTCCTCCATCAGAAAGGAA
TATTCAGTGTCCAGGGTCAATGTATCAATCACTCTCTGTGTTCTTGGCCTCATAGACACA
GAAACAGCCATGAAGGCAGTTTCTGGGATAGTCCATATGCAAGCAGCTCCAAAGGAGGAA
TGTGCCCTGGAGATCATCAAAGGGGAGCTCTGCGCCAAGAAGAAGTGTATTATGACAGC
TCACTCTGGACCACTCTTCTGATCAGAAATCCATGCAGGAAGATCCTGGAATTTCTCTAC
TCAACGAGCTATAATATGGACAGATTCAAAACAAGTAG
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Clone variation with respect to NM_005525.3



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005525 unedited
 ACGAGGAGNAAGTGTGATGAAACATAAGTAAAGCAAATGCCCGAGGGAGAGAGAGAAG
 AGAAGAAAAATATAAAAGAACATCAATAAAAAGAAAGTCAGATTTGTTTCGAAATCTTGAGG
 AGTCTTCAGGCCAGCTCCCTGTCGGATGGCTTTTATGAAAAATTTTTTCCCATTCTG
 GGGCTCTTCATGGCCTACTACTACTATTCTGCAAACGAGGAATTCAGACCAGATATGCTC
 CAAGGAAATAAAGTATTGTACAGGGGCCAGCAAAGGGATCGGAAGATAGATGGCTTAT
 CATCTGGCGAATATGGGAGCCCATGTGGTGGTGACAGCGAGGTCAAAGAAACTCTACAG
 AAGGTGGTATCCCACTGCCTGGAGCTTGGAGCAGCCTCAGCACACTACATTGCTGGCACC
 ATGGAAGACATGACCTTCGACAGCAATTTGTTGCCCAAGCAGGAAAGCTCATGGGAGGA
 CTAGACATGCTCATTCTCAACCACATCACCAACTTCTTTGAATCTTTTTCATGATGAT
 ATTCACCATGTGCGCAAAGCATGGAAGTCAACTTCTCAGTTACGTGGTCTGACTGTA
 GCTGCCTTGCCCATGCTGAAGCAGAGCAATGGAAGCATTGTTGTCGTCTCCTCTCGCT
 GGGAAAGTGGCTTATCCAATGGTTGCTGCCTATTCTGCAAGCAAGTTGCTTTGGATGGG
 TTCTTCTCCTCCTCAGAAAGGATATTCAGTGTCCAGGTCAAGGATCAATCACTCTCTGG
 GTTCTTGGCCTCATAGACACCAGAACAGCCCTGAAAGCAGTTTCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005525 unedited
 GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTCATTTGTACAGTTTATGGTTTT
 AAAGAAACCATCTGAATAAGCTCAAGTTATAGCTACCAGTTATGAATTTATAAAGTTTA
 TGTGACCTTTATTATAATTAATATTGTATTAATCATCACATATTATATATAAGATAT
 AAATTTAATAACTATCTGGTAATTATACCTATGTTTACTAACAATTTTACAACGCTG
 GCTGCAGCGGTGCATGACATTCATTATTATTACATTTCCATTTTGCAAATGTTAAAGGAA
 CTCCTTCCATTTGTCAGGTGTGACCCATGACTTGCATGTCTCTGGGGACACTCTGGGAAG
 ATGCTTTCATAGATAAGAGCTCAGATAAACATGAGACAGAACAGTCCCAAATCCCTCAG
 CATGCCAGCCCTCAGGGAGTTCCTACTTGTATGAATCTGTCCATATTATAGCTCGTT
 GAGTAGAGAAATCCAGGATCTTCTGTCATGGATTTCTGATCAGAAGAGTGGTCCAGAGT
 GAGCTGTCATAATACACTTCTTCTTGGCGCAGAGCTCCCCCTTTGATGATCTCCAGGGCA
 CATTCTCCTTTGGAGCTGCTTGCATATGGACTATCCCAGAACTGCCTTCATGGCTGTT
 TCTGTGTCTATGAGGCCAAGAACACAGAGAGTGATTGATACATTGACCCTGGACTGAA
 TATTCCTTTCTGATGGAGGAGAAGAACCATNCCAAGCAAACCTTGCTTGAGAATAGGCA
 GCAACCCATTGGATAAGCCACTTTCCAGCCAGNAGANAGACGACAAACCATGCTTCATT
 GCTCTGCTTACAGATGGGCAAGGCAGCTACAGTCAGGAACACNNGTACTGAGAAAGTGAC
 TTCCATGCTTTGCGCCATGGTGAATATCCTCTGAAAGATCCAAGAGTGTGTGATGGTGTA
 AAATGACTGCTATCCTCCATGACTTCTGTT

Restriction Sites:

NotI-NotI

ACCN:

NM_005525

Insert Size:

1400 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:	<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_005525.2 , NP_005516.1
RefSeq Size:	1405 bp
RefSeq ORF:	879 bp
Locus ID:	3290
UniProt ID:	P28845
Cytogenetics:	1q32.2
Domains:	adh_short
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Androgen and estrogen metabolism, C21-Steroid hormone metabolism, Metabolic pathways
Gene Summary:	<p>The protein encoded by this gene is a microsomal enzyme that catalyzes the conversion of the stress hormone cortisol to the inactive metabolite cortisone. In addition, the encoded protein can catalyze the reverse reaction, the conversion of cortisone to cortisol. Too much cortisol can lead to central obesity, and a particular variation in this gene has been associated with obesity and insulin resistance in children. Mutations in this gene and H6PD (hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)) are the cause of cortisone reductase deficiency. Alternate splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, May 2011]</p> <p>Transcript Variant: This variant (1) represents the predominant transcript. Variants 1, 2 and 3 encode the same protein.</p>