

## Product datasheet for **SC107341**

### HSD11B1 (NM\_181755) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HSD11B1 (NM_181755) 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-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_181755, the custom clone sequence may differ by one or more nucleotides

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ATGGCTTTTATGAAAAAATATCTCCTCCCCATTCTGGGGCTCTTCATGGCCTACTACTACTATTCTGCAA
ACGAGGAATTCAGACCAGAGATGCTCCAAGGAAAGAAAGTGATTGTCACAGGGGCCAGCAAAGGGATCGG
AAGAGAGATGGCTTATCATCTGGCGAAGATGGGAGCCCATGTGGTGGTGACAGCGAGGTCAAAGAAACT
CTACAGAAGGTGGTATCCCCTGCCTGGAGCTGGAGCAGCCTCAGCACACTACATTGCTGGCACCATGG
AAGACATGACCTTCGCAGAGCAATTTGTGCCAAGCAGGAAAGCTCATGGGAGGACTAGACATGCTCAT
TCTCAACCACATCAACAACCTTCTTTGAATCTTTTTCATGATGATTCACCATGTGCGCAAAAAGCATG
GAAGTCAACTTCCTCAGTTACGTGGTCTGACTGTAGCTGCCTTGCCCATGCTGAAGCAGAGCAATGGAA
GCATTGTTGTCGTCTCCTCTCTGGCTGGGAAAGTGGCTTATCCAATGGTTGCTGCCTATTCTGCAAGCAA
GTTTGCTTTGGATGGGTTCTTCTCCTCCATCAGAAAGGAATTCAGTGTCCAGGGTCAATGTATCAATC
ACTCTCTGTGTTCTTGGCCTCATAGACACAGAAACAGCCATGAAGGCAGTTTCTGGGATAGTCCATATGC
AAGCAGCTCCAAAGGAGGAATGTGCCCTGGAGATCATCAAGGGGGAGCTCTGCGCCAAGAAGAAGTGTA
TTATGACAGCTCACTCTGGACCACTCTTCTGATCAGAAATCCATGCAGGAAGATCCTGGAATTTCTCTAC
TCAACGAGCTATAATATGGACAGATTATAAACAAGTAG
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_181755 unedited NNGGTTTCAGATTTGTATACGACTCATATAGGCGGCCGCGCAATTCGCACCAGGGGTTGT AGAAAGCTCTGTAGGTTCTCTGTGTGTCTTAAGGAGTCTTCAGGCCAGCTCCCTGTCG GATGGCTTTTATGAAAAAATATCTCCTCCCATTTCTGGGGCTCTTCATGGCCTACTACTA CTATTCTGCAAACGAGGGAGATTCAGAACCAGAGATGCGTCCAAGGAAAGAAAGTGATT GTCACAGGGGCCAGCAAAGGGATCGGAAGAGAGATGGCTTATCATCTGGCGAAGATGGGA GCCCATGTGGTGGTGACAGCGAGGTCAAAGAAACTCTACAGAAGTGGTATCCCATGCG CTGGAGCTTGGAGCAGCCTCAGCACACTACATTGCTGGCACCATGGAAGACATGACCTTC GCAGAGCAATTTGTTGCCAAGCAGGAAAGCTCATGGGAGGACTAGACATGCTCATTCTC AACCACATCACCAACTTCTTTGAATCTTTTTCATGATGATTCACCATGTGCGCAAA AGCATGGAAGTCAACTTCTCAGTTACGTGGTCTGACTGTAGCTGCCTTGCCCATGCTG AAGCAGAGCAATGGAAGCATTGGTGTCTCTCTCTGGCTGGGAAAGTGGCTTATCCA ATGTTGCTGCCTATTCTGCAAGCAAGTTTGGTTGGATGGGTTCTTCTCCTCCATCAGA AAGGAATATTCAGTGTCCAGGGCAATGTGTCAATCACTCTCTGTGTTCTTGGCCTCATA GACACAGAAACAGCCATGAGAGCAGTTTCTGGGATAGTCCATATGCAAGCAGCTCCAAG GNAGAATGTGCCCTGGAATCATCAAAGGGGAGCTCTGCCCCAGAAGAAGTGATTATGA CAGCTCACTCTGGGGCACNTCTCT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_181755
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_181755.1</a> , <a href="#">NP_861420.1</a>
<b>RefSeq Size:</b>	1415 bp
<b>RefSeq ORF:</b>	879 bp
<b>Locus ID:</b>	3290
<b>UniProt ID:</b>	<a href="#">P28845</a>
<b>Cytogenetics:</b>	1q32.2
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Androgen and estrogen metabolism, C21-Steroid hormone metabolism, Metabolic pathways

**Gene Summary:**

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]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein.