

Product datasheet for **SC321065**

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: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_005525.2
GGGGACAATTCAGAGGCTGCTGCCTTAGGAGGTTGTAGAAAGCTCTGTAGGTTCTCT
CTGTGTGTCTACAGGAGTCTTCAGGCCAGCTCCCTGTCGGATGGCTTTTATGAAAAAT
ATCTCCTCCCCATTCTGGGGCTTTCATGGCCTACTACTACTATTCTGCAAACGAGGAAT
TCAGACCAGAGATGCTCCAAGGAAAAGAAAGTGATTGTCACAGGGGCCAGCAAAGGATCG
GAAGAGAGATGGCTTATCATCTGGCGAAGATGGGAGCCCATGTGGTGGTACAGCGAGGT
CAAAAGAAACTCTACAGAAGGTGGTATCCCACTGCCTGGAGCTTGGAGCAGCCTCAGCAC
ACTACATTGCTGGCACCATGGAAGACATGACCTTCGCAGAGCAATTTGTTGCCAAGCAG
GAAAGCTCATGGGAGGACTAGACATGCTCATTCTCAACCACATCACCACACTTCTTTGA
ATCTTTTTCATGATGATATTCACCATGTGCGCAAAAGCATGGAAGTCAACTTCTCAGTT
ACGTGGTCTGACTGTAGCTGCCTTGCCATGCTGAAGCAGAGCAATGGAAGCATTGTTG
TCGTCTCCTCTCTGGCTGGGAAAGTGGCTTATCCAATGGTTGCTGCCTATTCTGCAAGCA
AGTTTGCTTTGGATGGGTTCTTCTCCTCCATCAGAAAGGAATATTCAGTGTCCAGGGTCA
ATGTATCAATCACTCTCTGTGTTCTTGGCCTCATAGACACAGAAACAGCCATGAAGGCAG
TTTCTGGGATAGTCCATATGCAAGCAGCTCCAAAGGAGGAATGTGCCCTGGAGATCATCA
AAGGGGGAGCTCTGCGCCAGGAAGAAAGTATTATGACAGCTCACTCTGGACCACTTCT
TGATCAGAAATCCATGCAGGAAGATCCTGGAATTTCTACTCAACGAGCTATAATATGG
ACAGATTCATAAACAAGTAGGAAGTCCCTGAGGGCTGGGCATGCTGAGGGATTTTGGGAC
TGTTCTGTCTCATGTTTATCTGAGCTCTTATCTATGAAGACATCTCCAGAGTGTCCTCC
AGAGACATGCAAGTCATGGGTACACCTGACAAATGGAAGGAGTTCCTCTAACATTTGCA
AAATGGAATGTAATAAATGAATGTCATGCACCGCTGCAGCCAGCAGTTGTAATAATTG
TTAGTAAACATAGGTATAATTACCAGATAGTTATATAAATTTATATCTTATATAATA
ATATGTGATGATTAATACAATATTAATTATAATAAAGGTCACATAAACTTTATAAATCCA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire



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ACCN:	NM_005525
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_005525.2</u> , <u>NP_005516.1</u>
RefSeq Size:	1405 bp
RefSeq ORF:	879 bp
Locus ID:	3290
UniProt ID:	<u>P28845</u>
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>