

## Product datasheet for **RG203109**

### **HSD11B1 (NM\_005525) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HSD11B1 (NM_005525) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HSD11B1
Synonyms:	11-beta-HSD1; 11-DH; CORTRD2; HDL; HSD11; HSD11B; HSD11L; SDR26C1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203109 representing NM_005525 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTTTTATGAAAAATATCTCCTCCCCATTCTGGGGCTTTCATGGCCTACTACTACTATTCTGCAA  
ACGAGGAATTCAGACCAGAGATGCTCCAAGGAAAGAAAGTGATTGTCACAGGGGCCAGCAAAGGGATCGG  
AAGAGAGATGGCTTATCATCTGGCGAAGATGGGAGCCCATGTGGTGGTGACAGCGAGGTCAAAGAAACT  
CTACAGAAGGTGGTATCCACTGCCTGGAGCTTGGAGCAGCCTCAGCACACTACATTGCTGGCACCATGG  
AAGACATGACCTTCGCAGAGCAATTTGTTGCCAAGCAGGAAAGCTCATGGGAGGACTAGACATGCTCAT  
TCTCAACCACATACCAACACTTCTTTGAATCTTTTTTCATGATGATATTCACCATGTGCGCAAAAGCATG  
GAAGTCAACTTCCTCAGTTACGTGGTCTGACTGTAGCTGCCTTGCCCATGCTGAAGCAGAGCAATGGAA  
GCATTGTTGTCGTCCTCTCTGGCTGGGAAAGTGGCTTATCCAATGGTTGCTGCCTATTCTGCAAGCAA  
GTTTGCTTTGGATGGGTTCTTCTCCTCCATCAGAAAGGAATTCAGTGTCCAGGGTCAATGTATCAATC  
ACTCTCTGTGTTCTTGGCCTCATAGACACAGAAACAGCCATGAAGGCAGTTTCTGGGATAGTCCATATGC  
AAGCAGCTCAAAGGAGGAATGTGCCCTGGAGATCATCAAAGGGGAGCTCTGCGCCAGGAAGAAGTGTA  
TTATGACAGCTCACTCTGGACACTCTTCTGATCAGAAAATCCATGCAGGAAGATCCTGGAATTTCTCTAC  
TCAACGAGCTATAATATGGACAGATTATAAACAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG203109 representing NM\_005525  
 Red=Cloning site Green=Tags(s)

MAFMKKYLLPILGLFMAYYYYSANEEFRPEMLQGKVIIVTGASKIGREMAHYHLAKMGAHVVVTARSKET  
 LQKVVSHCLELGAASAHYIAGTMEDMTFAEQFVAQAGKLMGGLDMLILNHI TNTSLNLFHDDIHHVRKSM  
 EVNFLSYVVLTVAAALPMLKQSNQSI VVVSSLAGKVAYPMVAAYSASKFALDGGFFSSIRKEYSVSRVNVSI  
 TLCVLGLIDTETAMKAVSGIVHMQAAPKEECALEI IKGGALRQEEVYDSSLWTTLLIRNPCRKILEFLY  
 STSYNMDRFINK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005525

**ORF Size:** 876 bp

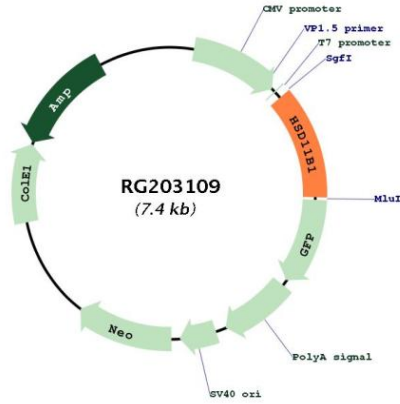
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

<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>	<u>NM_005525.2, NP_005516.1</u>
<b>RefSeq Size:</b>	1405 bp
<b>RefSeq ORF:</b>	879 bp
<b>Locus ID:</b>	3290
<b>UniProt ID:</b>	<u>P28845</u>
<b>Cytogenetics:</b>	1q32.2
<b>Domains:</b>	adh_short
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Androgen and estrogen metabolism, C21-Steroid hormone metabolism, Metabolic pathways
<b>Gene Summary:</b>	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]

Product images:



Circular map for RG203109