

## Product datasheet for **RG204497**

### HSD3B1 (NM\_000862) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HSD3B1 (NM_000862) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HSD3B1
Synonyms:	3BETAHSD; HSD3B; HSDB3; HSDB3A; SDR11E1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204497 representing NM_000862 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGACGGGCTGGAGCTGCCTTGTGACAGGAGCAGGAGGGTTTCTGGGACAGAGGATCATCCGCCTTTGG  
TGAAGGAGAAGGAGCTGAAGGAGATCAGGGTCTTGACAAGGCCCTTCGGACCAGAATTGAGAGAGGAATT  
TTCTAAACTCCAGAACAAGACCAAGCTGACAGTGCTGGAAGGAGACATTCTGGATGAGCCATTCTGAAG  
AGAGCCTGCCAGGACGTCTCGGCATCATCCACACCGCCTGTATCATTGATGTCTTCGGTGTCACTCACA  
GAGAGTCTATCATGAATGTCAATGTGAAAGGTACCCAGCTCCTGTAGAGGCCTGTGTCCAAGCTAGTGT  
GCCAGTCTTCATCTACACCAAGTAGCATAGAGGTAGCCGGGCCAACTCCTACAAGGAAATCATCCAGAAT  
GGCCATGAAGAAGAGCCTCTGAAAAACACATGGCCCGCTCCATACCCACACAGCAAAAAGCTTGCTGAGA  
AGGCTGTACTGGCGGCTAACGGGTGGAATCTGAAAAACGGCGGCACCCTGTACACTTGTGCCTTACGACC  
CATGTATATCTATGGGAAGGAAGCCGATTCTTTCTGCTAGTATAAACGAGGCCCTGAACAACAATGGG  
ATCCTGTCAAGTGTGGAAAGTTCTCCACTGTTAACCCAGTCTATGTTGGCAATGTGGCCTGGGCCACACA  
TTCTGGCCTTGAGGGCCCTGCAGGACCCCAAGAAGGCCCAAGCATCCGAGGACAGTTCTACTATATCTC  
AGATGACACGCCTCACCAAAGCTATGATAACCTTAATTACACCCTGAGCAAAGAGTTCGGCCTCCGCCTT  
GATTCAGATGGAGCTTTCCTTTATCCCTGATGTATTGGATTGGCTTCTGCTGGAAATAGTGAGCTTCC  
TACTCAGGCCAATTTACACCTATCGACCCCTTCAACCGCCACATAGTCACATTGTCAAATAGCGTATT  
CACCTTCTTTATAAGAAGGCTCAGCGAGATTTGGCGTATAAGCCACTCTACAGCTGGGAGGAAGCCAAG  
CAGAAAACGGTGGAGTGGTTGTTCCCTTGTGGACCGGCACAAGGAGAACCTGAAGTCCAAGACTCAG

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG204497 representing NM\_000862  
 Red=Cloning site Green=Tags(s)

MTGWSCLVTGAGGFLGQRIIRLLVKEKELKEIRVLDKAFGPELREEFSKLQNKTKLTVLEGDILDEPFLK  
 RACQDVSVIIHTACIIDVFGVTHRESIMNVNKGTOQLLEACVQASVPVFIYTSSIEVAGPNSYKEIIQN  
 GHHEEPLNTWPAPYPHSHKLAEKAVLAANGWNLKNGGTYTCALRPMYIYGEGRFLSASINEALNNG  
 ILSVVGKFTVNPVYVGNVAWAHILRALQDPKKAPSIHQFYIISDDTPHQSYDNLNYTLSEFGLRL  
 DSRWSFPLSLMYWIGFLLLEIVSFLLRPIYTYRPPFNRIIVTLSNSVFTFSYKKAQRDLAYKPLYSWEEAK  
 QKTVEWVWGLVDRHKENLKSQTQ

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_000862

**ORF Size:** 1119 bp

**OTI Disclaimer:** 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.

**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\\_000862.2](#), [NP\\_000853.1](#)

**RefSeq Size:** 1689 bp

**RefSeq ORF:** 1122 bp

**Locus ID:** 3283

**UniProt ID:** [P14060](#)

**Cytogenetics:** 1p12

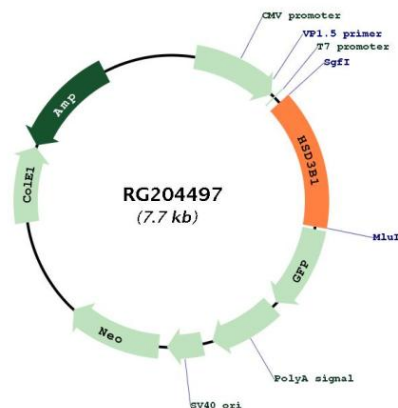
**Domains:** 3Beta\_HSD

**Protein Families:** Transmembrane

**Protein Pathways:** Androgen and estrogen metabolism, C21-Steroid hormone metabolism, Metabolic pathways

**Gene Summary:** The protein encoded by this gene is an enzyme that catalyzes the oxidative conversion of delta-5-3-beta-hydroxysteroid precursors into delta-4-ketosteroids, which leads to the production of all classes of steroid hormones. The encoded protein also catalyzes the interconversion of 3-beta-hydroxy- and 3-keto-5-alpha-androstane steroids. [provided by RefSeq, Jun 2016]

### Product images:



Circular map for RG204497