

## Product datasheet for **RG206593**

### HSD3B2 (NM\_000198) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HSD3B2 (NM_000198) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HSD3B2
Synonyms:	HSD3B; HSDB; SDR11E2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206593 representing NM_000198 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGGCTGGAGCTGCCTTGTGACAGGAGCAGGAGGGCTTCTGGGTCAGAGGATCGTCCGCTGTTGGTGG  
AAGAGAAGGAAGTGAAGGAGATCAGGGCCTTGGACAAGGCCTTCAGACCAGAATTGAGAGAGGAATTTTC  
TAAGCTCCAGAACAGGACCAAGCTGACTGTACTTGAAGGAGACATTCTGGATGAGCCATTCTGAAAAGA  
GCCTGCCAGGACGTCTCGGTCGTCATCCACACCCGCTGTATCATTGATGTCTTTGGTGTCACTCACAGAG  
AGTCCATCATGAATGTCAATGTGAAAGGTACCCAGCTACTGTTGGAGGCCTGTGTCCAAGCCAGTGTGCC  
AGTCTTACATACACCAGTAGCATAGAGGTAGCCGGGCCAACTCTACAAGGAAATCATCCAGAACGGC  
CACGAAGAAGAGCCTCTGGAAAACATGGCCCACTCCATACCCGTACAGCAAAAAGCTTGTGAGAAGG  
CTGTGCTGGCGGCTAATGGGTGGAATCTAAAAATGGTGATACCTTGTACTTGTGCGTTAAGACCCAC  
ATATATCTATGGGAAGGAGGCCATTCCTTTCTGCCAGTATAAATGAGGCCCTGAACAACATGGGATC  
CTGTCAAGTGTGGAAAGTTCTCTACAGTCAACCCAGTCTATGTTGGCAACGTGGCCTGGGCCACATTC  
TGGCCTTGAGGGCTCTGCGGGACCCCAAGAAGGCCCAAGTGTCCGAGGTCAATTCTATTACATCTCAGA  
TGACACGCCTCACAAAGCTATGATAACCTTAATTACATCCTGAGCAAAGAGTTTGGCCTCCGCCTTGAT  
TCCAGATGGAGCCTTCTTTAACCTGATGTACTGGATTGGCTTCTGCTGGAAGTAGTGAGCTTCTCTAC  
TCAGCCCAATTTACTCTATCAACCCCTTCAACCGCCACACAGTCACATTATCAAATAGTGTGTTTAC  
CTTCTCTTACAAGAAGGCTCAGCGAGATCTGGCGTATAAGCCACTCTACAGCTGGGAGGAAGCCAAGCAG  
AAAACCGTGGAGTGGTTGGTCCCTTGTGGACCGGCACAAGGAGACCCTGAAGTCCAAGACTCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206593 representing NM\_000198  
 Red=Cloning site Green=Tags(s)

MGWSCLVTGAGLLGQRIVRLLVEEKELKEIRALDKAFRPELREEFSKLNRTKLTVLEGDILDEPFLKR  
 ACQDVSIVIHTACIIDVFGVTHRESIMNVNVKGTQLLLEACVQASVPVFYITSSIEVAGPNSYKEIIQNG  
 HEEPLENTWPTPYPSKLAEKAVLAANGWNLKNGDTLYTCALRPTYIYGEGPFLSASINEALNNGI  
 LSSVGKFTVNPVYVGNVAWAHILALRALRDPKAPSVRGQFYIISDDTPHQSYDNLNYILSKEFGLRLD  
 SRWSLPLTLMYWIWIGFLLLEVVSFLLSPIYSYQPPFNHRHTVTLNSVFTFSYKKAQRDLAYKPLYSWEEAKQ  
 KTVEWVGS�VDRHKETLKSQTQ

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_000198

**ORF Size:** 1116 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\\_000198.4](#)

**RefSeq Size:** 1669 bp

**RefSeq ORF:** 1119 bp

**Locus ID:** 3284

**UniProt ID:** [P26439](#)

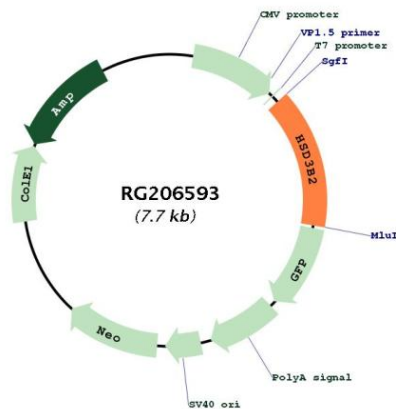
**Cytogenetics:** 1p12

**Protein Families:** Druggable Genome, Transmembrane

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

**Gene Summary:** The protein encoded by this gene is a bifunctional enzyme that catalyzes the oxidative conversion of delta(5)-ene-3-beta-hydroxy steroid, and the oxidative conversion of ketosteroids. It plays a crucial role in the biosynthesis of all classes of hormonal steroids. This gene is predominantly expressed in the adrenals and the gonads. Mutations in this gene are associated with 3-beta-hydroxysteroid dehydrogenase, type II, deficiency. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Oct 2009]

### Product images:



Circular map for RG206593