

Product datasheet for **RG206558**

HSD17B3 (NM_000197) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSD17B3 (NM_000197) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HSD17B3
Synonyms:	EDH17B3; SDR12C2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206558 representing NM_000197 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGGACGTCCTGGAACAGTTCTTCATCCTCACAGGGCTGCTGGTGTGCCTGGCCTGCCTGGCGAAGT
GCGTGAGATTCTCCAGATGTGTTTTACTGAACTACTGGAAAGTTTTGCCAAAGCTTTCTTGCGGTCAAT
GGGACAGTGGGCAGTGATCACTGGAGCAGGCGATGGAATTGGGAAAGCGTACTCGTTCGAGCTAGCAAAA
CGTGGACTCAATGTTGCCTTATTAGCCGGACGCTGGAAAACTAGAGGCCATTGCCACAGAGATCGAGC
GGACTACAGGGAGGAGTGAAGATTACAAGCAGATTTTACAAAAGATGACATCTACGAGCATATTAA
AGAAAACTTGCAGGCTTAGAAATTGGAATTTAGTCAACAATGTCGGAATGCTTCCAAACCTTCTCCCA
AGCCATTTCTGAACGCACCGGATGAAATCCAGAGCCTCATCCATTGTAACATCACCTCCGTAGTCAAGA
TGACACAGCTAATTCTGAAACATATGGAATCAAGGCAGAAAGGTCTCATCCTGAACATTTCTTGGGAT
AGCCCTGTTTCTTGGCCTCTCTACTCCATGTAAGGCGTTTGTGTGCGCATTTTCCAAG
GCCCTGCAAGAGGAATATAAAGCAAAAGAAGTCATCATCCAGGTGCTGACCCCATATGCTGTCTCGACTG
CAATGACAAAGTATCTAAATACAAATGTGATAACCAAGACTGCTGATGAGTTTGTCAAAGAGTCATTGAA
TTATGTACAATTGGAGGTGAAACCTGTGGCTGCCTTGCCCATGAAATCTTGGCGGGCTTCTGAGCCTG
ATCCCGCCTGGCCTTCTACAGCGGTGCCTTCCAAAGGCTGCTCCTGACACACTATGTGGCATACTGA
AGCTCAACACCAAGGTCAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206558 representing NM_000197
 Red=Cloning site Green=Tags(s)

MGDVLEQFFILTGLLVCLACLAKCVRFSRCVLLNYWKVLPKSFLRSMQWAVITGAGDGIGKAYSFELAK
 RGLNVVLSRSTLEKLEAIATEIERTTGRSVKIIQADFTKDDIYEHIKEKLAGLEIGILVNNVGMPLNLLP
 SHFLNAPDEIQSLIHCNITSVVKMTQLILKHMSRQKGLILNISSGIALFPWPLYSMYSASKAFVCAFSK
 ALQEEYKAKEVIIQVLPYAVSTAMTKYLNTNVIKTADEFVKESLNYVTIGGETCGCLAHEILAGFLSL
 IPAWAFYSGAFQRLLLTHYVAYLKLNTKVR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000197

ORF Size: 930 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_000197.2](#)

RefSeq Size: 1134 bp

RefSeq ORF: 933 bp

Locus ID: 3293

UniProt ID: [P37058](#)

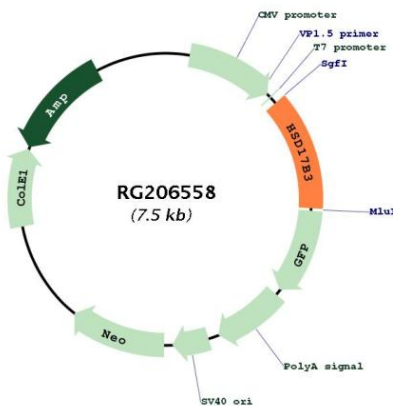
Cytogenetics: 9q22.32

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Androgen and estrogen metabolism, Metabolic pathways

Gene Summary: This isoform of 17 beta-hydroxysteroid dehydrogenase is expressed predominantly in the testis and catalyzes the conversion of androstenedione to testosterone. It preferentially uses NADP as cofactor. Deficiency can result in male pseudohermaphroditism with gynecomastia. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG206558