

Product datasheet for **RG203293**

HSD17B2 (NM_002153) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSD17B2 (NM_002153) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HSD17B2
Synonyms:	EDH17B2; HSD17; SDR9C2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203293 representing NM_002153 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCACTTTCTCTCGGACACAGCATGGATCTGCCTGGCTGTCCACAGTACTATGTGGACAGTAT
TTTGCAAATACAAGAAGAGCTCAGGGCAGCTGTGGAGCTGGATGGTCTGCCTGCCAGGCCTCTGTGCAGT
CTGCCTGCTCATCTGTCCCTTTTGGGGCTTGATCCTTCTCGGTGCATGCTTCTCATGTACT
TACTTATCTGGCCAAGAATTGTTACCTGTGGATCAGAAGGCAGTCTGGTACAGGTGGTATTGCGGGC
TTGGCCATGCTTTGTGCAAGTATCTGGATGAGCTGGGCTTCACGGTATTTGCCGGAGTTTGAATGAAAA
TGGCCCAGGAGCTGAGGAATTGCGAAGAACCTGCTCTCCGCGCCTCTCGGTGCTCCAAATGGACATCAGG
AAGCCAGTGCAGATAAAAGATGCTTACAGCAAGTTGCAGCAATGCTGCAGGACAGAGGACTGTGGGCTG
TGATCAACAATGCTGGGGTGTGGCTTTCCAAGTATGGGGAGCTTCTTCTTATGACTGACTACAAACA
ATGCATGGCCGTGAAGTCTTTGGAAGTGTGGAGGTACAAAGACGTTTTTGCCTCTTCTTAGAAAAATCC
AAAGGGAGGCTGGTGAATGTGACGAGCATGGGAGGAGGGGCCCAATGAAAGGCTGGCATCTTATGGCT
CATCAAAGGCGGCTGTGACCATGTTCTCATCAGTTATGAGACTGGAGCTTCCAAGTGGGAAATTAAGT
TGCTTCCATCCAACCTGGAGCTTCTCAAAAATATCGCAGGCACCAAGTACAAGTGGGAAAAGCTGGAG
AAGGACATCTGGACCACCTCCCGCTGAGGTACAGGAAGACTACGGCCAGGACTACATCTTAGCACAGC
GGAATTTCTCCTATTGATCAACTGTTAGCCAGCAAGGACTTCTCTCCGGTGTGCGGGACATCCAGCA
TGCTATCTTGGCGAAGAGCCCTTTGCCTATTACACGCCAGGAAAGGCGCTTACTTGTGGATCTGCCTT
GCTCACTATTTGCCTATTGGCATATATGATTACTTTGCTAAAAGACATTTTGGCCAAGACAAGCCCATGC
CCAGAGCTCTAAGAATGCCTAACTACAAGAAAAAGGCCACC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203293 representing NM_002153
 Red=Cloning site Green=Tags(s)

MSTFFSDTAWICLAVPTVLCGTVFCKYKKSSGQLWSWMVCLAGLCAVCLLILSPFWGLILFSVSCFLMYT
 YLSGQELLPVDQKAVLVTGGDCGLGHALCKYLDELGFTVFAGVLNENGPAGEELRRTCSPLSVLQMDIT
 KPVOIKDAYSKVAAMLQDRGLWAVINNAGVLGFPTDGELELLMTDYKQCMVNFVFGTVEVTKTFLPLLRKS
 KGRLVNVSSMGGGAPMERLASYGSSKAAVTMFSSVMRLELSKWGIKVASIQPGGFLTNIAGTSDKWEKLE
 KDILDHLPAEVQEDYGGDYILAQRNLLLLINSLASKDFSPVLRDIQHAILAKSPFAYYTPGKGAYLWICL
 AHYLPIGIYDYFAKRHFQDQKMPRALRMPNYKKKAT

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002153

ORF Size: 1161 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_002153.3](#)

RefSeq Size: 1427 bp

RefSeq ORF: 1164 bp

Locus ID: 3294

UniProt ID: [P37059](#)

Cytogenetics: 16q23.3

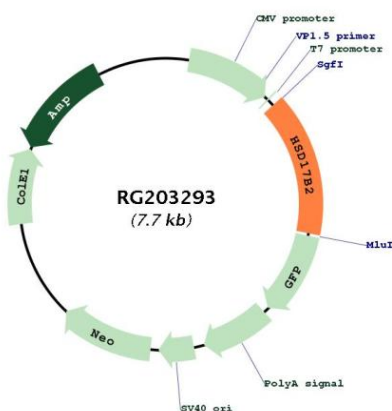
Domains: adh_short

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Androgen and estrogen metabolism, Metabolic pathways

Gene Summary: Capable of catalyzing the interconversion of testosterone and androstenedione, as well as estradiol and estrone. Also has 20-alpha-HSD activity. Uses NADH while EDH17B3 uses NADPH.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG203293