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Product datasheet for RC203293

HSD17B2 (NM_002153) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSD17B2 (NM_002153) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HSD17B2
Synonyms:	EDH17B2; HSD17; SDR9C2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC203293 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCACTTTCTTCTCGGACACAGCATGGATCTGCCTGGCTGTCCCCACAGTACTATGTGGGACAGTAT
TTTGCAAATACAAGAAGAGCTCAGGGCAGCTGTGGAGCTGGATGGTCTGCCTGGCAGGCCTCTGTGCAGT
CTGCCTGCTCATCCTGTCCCCTTTTTGGGGCTTGATCCTCTTCTCGGTGTCATGCTTCCTCATGTATACT
TACTTATCTGGCCAAGAATTGTTACCTGTGGATCAGAAGGCAGTCCTGGTGACAGGTGGTGATTGCGGGC
TTGGCCATGCTTTGTGCAAGTATCTGGATGAGCTGGGCTTCACGGTATTTGCCGGAGTTTTGAATGAAAA
TGGCCCAGGAGCTGAGGAATTGCGAAGAACCTGCTCTCCGCGCCTCTCGGTGCTCCAAATGGACATCACG
AAGCCAGTGCAGATAAAAGATGCTTACAGCAAGGTTGCAGCAATGCTGCAGGACAGAGGACTGTGGGCTG
TGATCAACAATGCTGGGGTGCTTGGCTTTCCAACTGATGGGGAGCTTCTTCTTATGACTGACTACAAACA
ATGCATGGCCGTGAACTTCTTTGGAACTGTGGAGGTCACAAAGACGTTTTTGCCTCTTCTTAGAAAATCC
AAAGGGAGGCTGGTGAATGTCAGCAGCATGGGAGGAGGGGCCCCAATGGAAAGGCTGGCATCTTATGGCT
CATCAAAGGCGGCTGTGACCATGTTCTCATCAGTTATGAGACTGGAGCTTTCCAAGTGGGGAATTAAAGT
TGCTTCCATCCAACCTGGAGGCTTCCTAACAAATATCGCAGGCACCAGTGACAAGTGGGAAAAGCTGGAG
AAGGACATTCTGGACCACCTCCCCGCTGAGGTACAGGAAGACTACGGCCAGGACTACATCTTAGCACAGC
GGAATTTCCTCCTATTGATCAACTCGTTAGCCAGCAAGGACTTCTCTCCGGTGCTGCGGGACATCCAGCA
TGCTATCTTGGCGAAGAGCCCTTTTGCCTATTACACGCCAGGGAAAGGCGCTTACTTGTGGATCTGCCTT
GCTCACTATTTGCCTATTGGCATATATGATTACTTTGCTAAAAGACATTTTGGCCAAGACAAGCCCATGC
CCAGAGCTCTAAGAATGCCTAACTACAAGAAAAAGGCCACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC203293 protein sequence
Red=Cloning site Green=Tags(s)

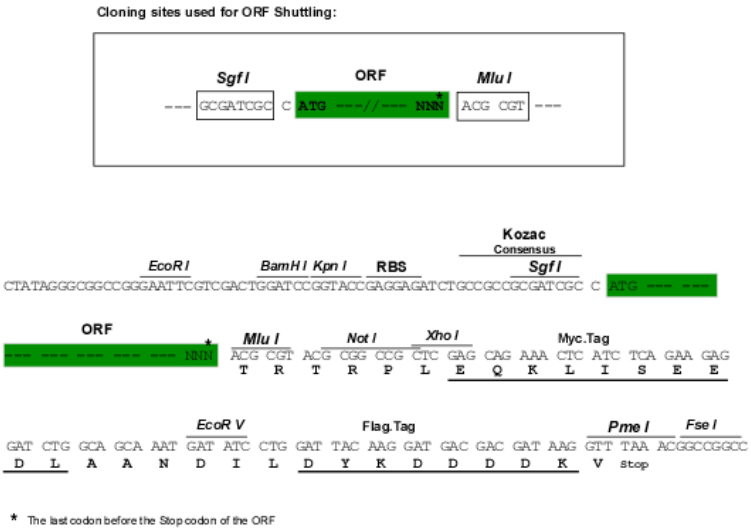
MSTFFSDTAWICLAVPTVLCGTVFCKYKKSSGQLWSWMVCLAGLCAVCLLILSPFWGLILFSVSCFLMYT
YLSGQELLPVDQKAVLVTGGDCGLGHALCKYLDELGFTVFAGVLNENGPGAEELRRTCSPRLSVLQMDIT
KPVQIKDAYSKVAAMLQDRGLWAVINNAGVLGFPTDGELLLMTDYKQCMAVNFFGTVEVTKTFLPLLRKS
KGRLVNVSSMGGGAPMERLASYGSSKAAVTMFSSVMRLELSKWGIKVASIQPGGFLTNIAGTSDKWEKLE
KDILDHLPAEVQEDYGQDYILAQRNFLLLINSLASKDFSPVLRDIQHAILAKSPFAYYTPGKGAYLWICL
AHYLPIGIYDYFAKRHFGQDKPMPRALRMPNYKKKAT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6428_a01.zip

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

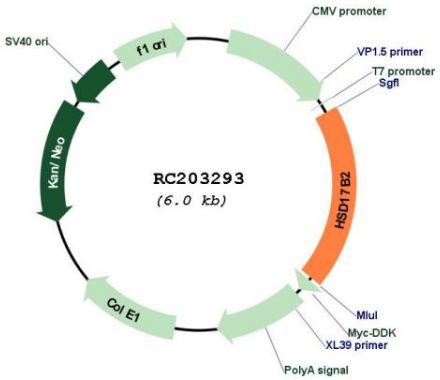
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

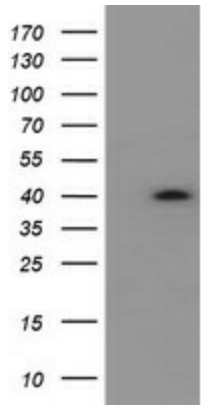
Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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:	1451 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
MW:	42.8 kDa
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]

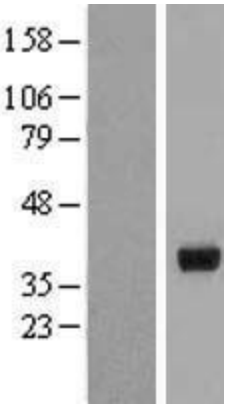
Product images:



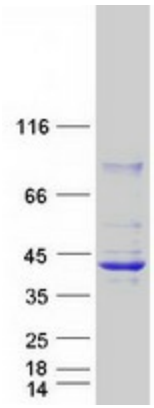
Circular map for RC203293



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY HSD17B2 (Cat# RC203293, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HSD17B2(Cat# [TA504565]). Positive lysates [LY419500] (100ug) and [LC419500] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY419500]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203293 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HSD17B2 protein (Cat# [TP303293]). The protein was produced from HEK293T cells transfected with HSD17B2 cDNA clone (Cat# RC203293) using MegaTran 2.0 (Cat# [TT210002]).