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Product datasheet for RC206558

HSD17B3 (NM_000197) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSD17B3 (NM_000197) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HSD17B3
Synonyms:	EDH17B3; SDR12C2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206558 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGACGTCCTGGAACAGTTCTTCATCCTCACAGGGCTGCTGGTGTGCCTGGCCTGCCTGGCGAAGT
GCGTGAGATTCTCCAGATGTGTTTTACTGAACTACTGGAAAGTTTTGCCAAAGTCTTTCTTGCGGTCAAT
GGGACAGTGGGCAGTGATCACTGGAGCAGGCGATGGAATTGGGAAAGCGTACTCGTTCGAGCTAGCAAAA
CGTGGACTCAATGTTGTCCTTATTAGCCGGACGCTGGAAAAACTAGAGGCCATTGCCACAGAGATCGAGC
GGACTACAGGGAGGAGTGTGAAGATTATACAAGCAGATTTTACAAAAGATGACATCTACGAGCATATTAA
AGAAAAACTTGCAGGCTTAGAAATTGGAATTTTAGTCAACAATGTCGGAATGCTTCCAAACCTTCTCCCA
AGCCATTTCCTGAACGCACCGGATGAAATCCAGAGCCTCATCCATTGTAACATCACCTCCGTAGTCAAGA
TGACACAGCTAATTCTGAAACATATGGAATCAAGGCAGAAAGGTCTCATCCTGAACATTTCTTCTGGGAT
AGCCCTGTTTCCTTGGCCTCTCTACTCCATGTACTCAGCTTCCAAGGCGTTTGTGTGCGCATTTTCCAAG
GCCCTGCAAGAGGAATATAAAGCAAAAGAAGTCATCATCCAGGTGCTGACCCCATATGCTGTCTCGACTG
CAATGACAAAGTATCTAAATACAAATGTGATAACCAAGACTGCTGATGAGTTTGTCAAAGAGTCATTGAA
TTATGTCACAATTGGAGGTGAAACCTGTGGCTGCCTTGCCCATGAAATCTTGGCGGGCTTTCTGAGCCTG
ATCCCGGCCTGGGCCTTCTACAGCGGTGCCTTCCAAAGGCTGCTCCTGACACACTATGTGGCATACCTGA
AGCTCAACACCAAGGTCAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC206558 protein sequence
Red=Cloning site Green=Tags(s)

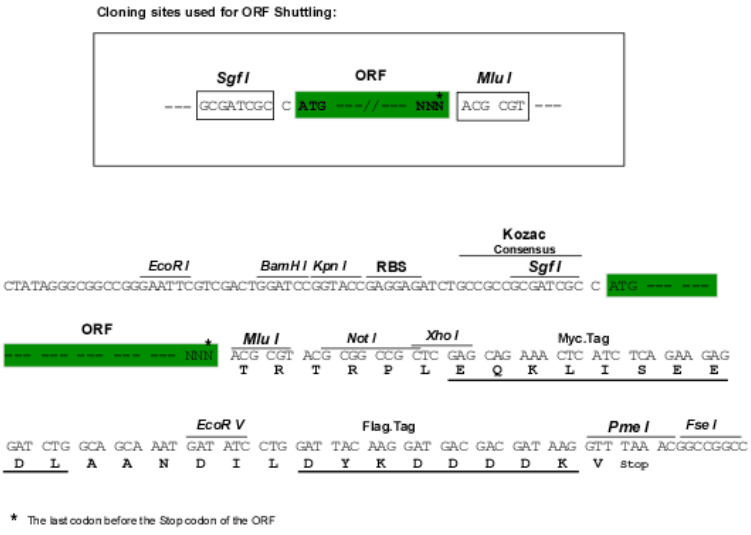
MGDVLEQFFILTGLLVCLACLAKCVRFSRCVLLNYWKVLPKSFLRSMGQWAVITGAGDGIGKAYSFELAK
RGLNVVLISRTLEKLEAIATEIERTTGRSVKIIQADFTKDDIYEHIKEKLAGLEIGILVNNVGMLPNLLP
SHFLNAPDEIQSLIHCNITSVVKMTQLILKHMESRQKGLILNISSGIALFPWPLYSMYSASKAFVCAFSK
ALQEEYKAKEVIIQVLTPYAVSTAMTKYLNTNVITKTADEFVKESLNYVTIGGETCGCLAHEILAGFLSL
IPAWAFYSGAFQRLLLTHYVAYLKLNTKVR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6331_a11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000197

ORF Size: 930 bp

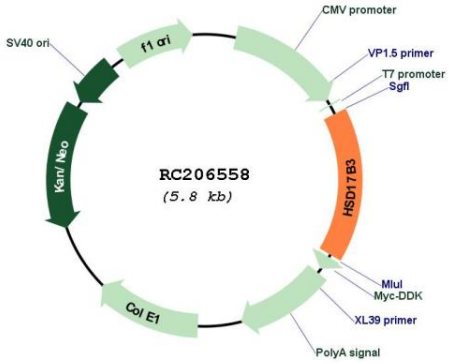
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

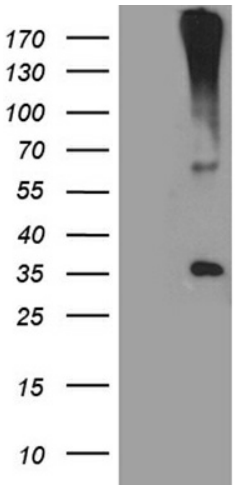
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
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
MW:	34.5 kDa
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]

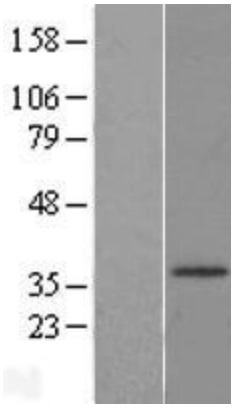
Product images:



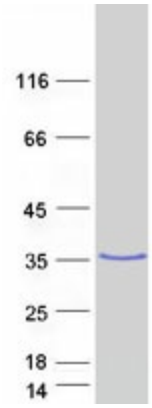
Circular map for RC206558



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY HSD17B3 (Cat# RC206558, 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-HSD17B3 (Cat# [TA811500])(1:2000). Positive lysates [LY424871] (100ug) and [LC424871] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY424871]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206558 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HSD17B3 protein (Cat# [TP306558]). The protein was produced from HEK293T cells transfected with HSD17B3 cDNA clone (Cat# RC206558) using MegaTran 2.0 (Cat# [TT210002]).