

Product datasheet for **RC228855**

HSD3B2 (NM_001166120) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSD3B2 (NM_001166120) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HSD3B2
Synonyms:	HSD3B; HSDB; SDR11E2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC228855 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCTGGAGCTGCCTTGTGACAGGAGCAGGAGGGCTTCTGGGTGAGGATCGTCCGCTGTTGGTGG
AAGAGAAGGAAGTGAAGGAGATCAGGGCCTTGACAAGGCCTTCAGACCAGAATTGAGAGAGGAATTTTC
TAAGCTCCAGAACAGGACCAAGCTGACTGTACTGAAGGAGACATTCTGGATGAGCCATTCTGAAAAGA
GCCTGCCAGGACGCTCTGGTTCGTCATCCACACCCGCTGTATCATTGATGTCTTTGGTGTCACTCACAGAG
AGTCCATCATGAATGTCAATGTGAAAGGTACCCAGCTACTGTTGGAGGCCTGTGTCCAAGCCAGTGTGCC
AGTCTTACATACACCAGTAGCATAGAGGTAGCCGGGCCAACTCTACAAGGAAATCATCCAGAACGGC
CACGAAGAAGAGCCTCTGGAAAACATGGCCCACTCCATACCCGTACAGCAAAAAGCTTGTGAGAAGG
CTGTGCTGGCGGCTAATGGGTGGAATCTAAAAATGGTGATACCTTGTACTTGTGCGTTAAGACCCAC
ATATATCTATGGGAAGGAGGCCATTCTTTCTGCCAGTATAAATGAGGCCCTGAACAACATGGGATC
CTGTCAAGTGTGGAAAGTTCTCTACAGTCAACCCAGTCTATGTTGGCAACGTGGCCTGGGCCACATTC
TGGCCTTGAGGGCTCTGCGGGACCCCAAGAAGGCCCAAGTGTCCGAGGTCAATTCTATTACATCTCAGA
TGACACGCCTCACAAAGCTATGATAACCTTAATTACATCCTGAGCAAAGAGTTTGGCCTCCGCCTTGAT
TCCAGATGGAGCCTTCTTTAACCTGATGTACTGGATTGGCTTCTGCTGGAAGTAGTGAGCTTCTCTAC
TCAGCCCAATTTACTCTATCAACCCCTTCAACCGCCACACAGTCACATTATCAAATAGTGTGTTTAC
CTTCTCTTACAAGAAGGCTCAGCGAGATCTGGCGTATAAGCCACTCTACAGCTGGGAGGAAGCCAAGCAG
AAAACCGTGGAGTGGTTGGTTCCCTTGTGGACCGGCACAAGGAGACCCTGAAGTCCAAGACTCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC228855 protein sequence
Red=Cloning site Green=Tags(s)

MGWSCLVTGAGLLGQRIVRLLVEEKELKEIRALDKAFRPELREEFSKLNRTKLTVLEGDILDEPFLKR
 ACQDVSVVIHTACIIDVFGVTHRESIMNVNKGTLLEACVQASVPVFIYTSSIEVAGPNSYKEIIQNG
 HEEPLENTWPTPYPSKLAEKAVLAANGWNLKNGDTLYTCALRPTYIYGEPPFLSASINEALNNGI
 LSSVGKFSTVNPVYVGNVAWAHILRALRDPKAPSVRGQFYIISDDTPHQSYDNLNYILSKEFGLRLD
 SRWSLPLTLMYWIGFLLLEVVSFLLSPIYSYQPPFNHRHTVTLNSVFTFSYKKAQRDLAYKPLYSWEEAKQ
 KTVEWVGS�VDRHKETLKSQTQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6197_c07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001166120

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_001166120.1](#), [NP_001159592.1](#)

RefSeq Size: 1807 bp

RefSeq ORF: 1119 bp

Locus ID: 3284

UniProt ID: [P26439](#)

Cytogenetics: 1p12

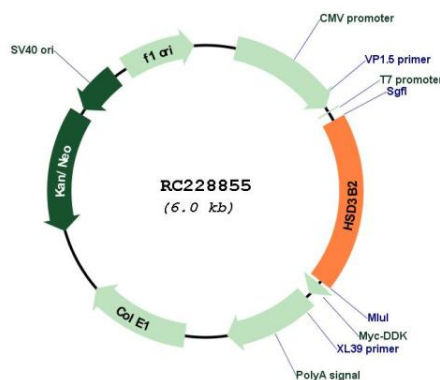
Protein Families: Druggable Genome, Transmembrane

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

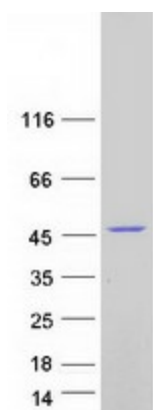
MW: 42.1 kDa

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]

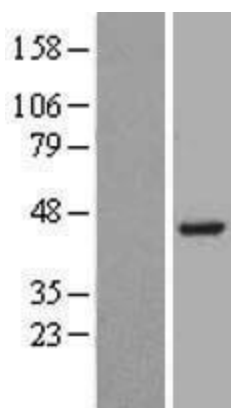
Product images:



Circular map for RC228855



Coomassie blue staining of purified HSD3B2 protein (Cat# [TP328855]). The protein was produced from HEK293T cells transfected with HSD3B2 cDNA clone (Cat# RC228855) using MegaTran 2.0 (Cat# [TT210002]).



Western blot validation of overexpression lysate (Cat# [LY431883]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228855 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).