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Product datasheet for RC204701

HSD17B6 (NM_003725) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSD17B6 (NM_003725) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HSD17B6
Synonyms:	HSE; RODH; SDR9C6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC204701 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGCTCTACCTGGCGGCCTTCGTGGGCCTGTACTACCTTCTGCACTGGTACCGGGAGAGGCAGGTGG
TGAGCCACCTCCAAGACAAGTATGTCTTTATCACGGGCTGTGACTCGGGCTTTGGGAACCTGCTGGCCAG
ACAGCTGGATGCACGAGGCTTGAGAGTGCTGGCTGCGTGTCTGACGGAGAAGGGGGCCGAGCAGCTGAGG
GGCCAGACGTCTGACAGGCTGGAGACGGTGACCCTGGATGTTACCAAGATGGAGAGCATCGCTGCAGCTA
CTCAGTGGGTGAAGGAGCATGTGGGGGACAGAGGACTCTGGGGACTGGTGAACAATGCAGGCATTCTTAC
ACCAATTACCTTATGTGAGTGGCTGAACACTGAGGACTCTATGAATATGCTCAAAGTGAACCTCATTGGT
GTGATCCAGGTGACCTTGAGCATGCTTCCTTTGGTGAGGAGAGCACGGGGAAGAATTGTCAATGTCTCCA
GCATTCTGGGAAGAGTTGCTTTCTTTGTAGGAGGCTACTGTGTCTCCAAGTATGGAGTGGAAGCCTTTTC
AGATATTCTGAGGCGTGAGATTCAACATTTTGGGGTGAAAATCAGCATAGTTGAACCTGGCTACTTCAGA
ACGGGAATGACAAACATGACACAGTCCTTAGAGCGAATGAAGCAAAGTTGGAAAGAAGCCCCCAAGCATA
TTAAGGAGACCTATGGACAGCAGTATTTTGATGCCCTTTACAATATCATGAAGGAAGGGCTGTTGAATTG
TAGCACAAACCTGAACCTGGTCACTGACTGCATGGAACATGCTCTGACATCGGTGCATCCGCGAACTCGA
TATTCAGCTGGCTGGGATGCTAAATTTTTCTTCATCCCTCTATCTTATTTACCTACATCACTGGCAGACT
ACATTTTGACTAGATCTTGGCCCAAACCAGCCCAGGCAGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC204701 protein sequence
Red=Cloning site Green=Tags(s)

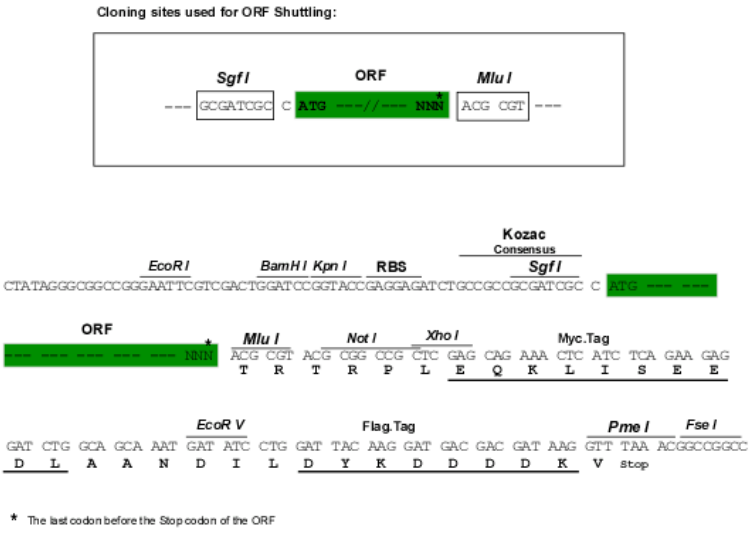
MWLYLAAFVGLYYLLHWYRERQVVSHLQDKYVFITGCDSGFGNLLARQLDARGLRVLAACLTEKGAEQLR
GQTSDRLETVTLDVTKMESIAAATQWVKEHVGDRGLWGLVNNAGILTPITLCEWLNTEDSMNMLKVNLIG
VIQVTLSMLPLVRRARGRIVNVSSILGRVAFFVGGYCVSKYGVEAFSDILRREIQHFGVKISIVEPGYFR
TGMTNMTQSLERMKQSWKEAPKHIKETYGQQYFDALYNIMKEGLLNCSTNLNLVTDCMEHALTSVHPRTR
YSAGWDAKFFFIPLSYLPTSLADYILTRSWPKPAQAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

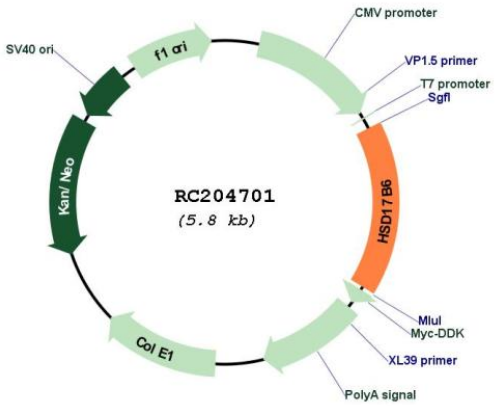
Chromatograms: https://cdn.origene.com/chromatograms/mk6068_b10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



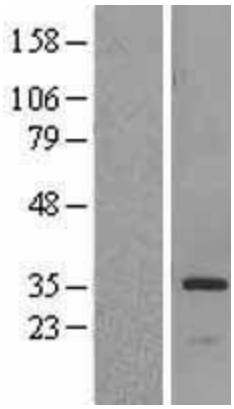
Plasmid Map:



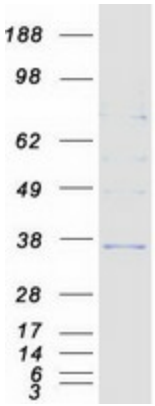
ACCN: NM_003725

ORF Size:	951 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_003725.4
RefSeq Size:	1629 bp
RefSeq ORF:	954 bp
Locus ID:	8630
UniProt ID:	O14756
Cytogenetics:	12q13.3
Domains:	adh_short
Protein Families:	Druggable Genome
MW:	36 kDa
Gene Summary:	The protein encoded by this gene has both oxidoreductase and epimerase activities and is involved in androgen catabolism. The oxidoreductase activity can convert 3 alpha-adiol to dihydrotestosterone, while the epimerase activity can convert androsterone to epi-androsterone. Both reactions use NAD+ as the preferred cofactor. This gene is a member of the retinol dehydrogenase family. [provided by RefSeq, Aug 2013]

Product images:



Western blot validation of overexpression lysate (Cat# [LY418477]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204701 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HSD17B6 protein (Cat# [TP304701]). The protein was produced from HEK293T cells transfected with HSD17B6 cDNA clone (Cat# RC204701) using MegaTran 2.0 (Cat# [TT210002]).