

Product datasheet for **RG204701**

HSD17B6 (NM_003725) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSD17B6 (NM_003725) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HSD17B6
Synonyms:	HSE; RODH; SDR9C6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204701 representing NM_003725 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGCTCTACCTGGCGCCTTCGTGGCCTGTACTACCTTCTGCACTGGTACCGGGAGAGGCAGGTGG
TGAGCCACCTCCAAGACAAGTATGTCTTTATCACGGGCTGTGACTCGGGCTTTGGGAACCTGCTGGCCAG
ACAGCTGGATGCACGAGGCTTGAGAGTGTGGCTGCGTGTCTGACGGAGAAGGGGCCGAGCAGCTGAGG
GGCCAGACGTCTGACAGGCTGGAGACGGTGACCCTGGATGTTACCAAGATGGAGAGCATCGCTGCAGCTA
CTCAGTGGGTGAAGGAGCATGTGGGGACAGAGGACTCTGGGGACTGGTGAACAATGCAGGCATTCTTAC
ACCAATTACCTTATGTGAGTGGCTGAACACTGAGGACTCTATGAATATGCTCAAAGTGAACCTCATTGGT
GTGATCCAGGTGACCTTGAGCATGCTTCCTTTGGTGGAGAGACACGGGGAAGAATTGTCAATGTCTCCA
GCATTCTGGGAAGAGTTGCTTTCTTTGTAGGAGGCTACTGTGTCTCCAAGTATGGAGTGGAGCCTTTTC
AGATATTCTGAGGCGTGAGATCAACATTTTGGGGTAAAATCAGCATAGTTGAACCTGGCTACTTCAGA
ACGGGAATGACAAACATGACACAGTCCTTAGAGCGAATGAAGCAAAGTTGGAAAGAAGCCCCAAGCATA
TTAAGGAGACCTATGGACAGCAGTATTTTGTATGCCCTTACAATATCATGAAGGAAGGGCTGTTGAATTG
TAGCACAACCTGAACCTGGTCACTGACTGCATGGAACATGCTCTGACATCGGTGCATCCGCGAAGCTCGA
TATTCAGCTGGCTGGGATGCTAAATTTTCTTCATCCCTCTATCTATTTACCTACATCACTGGCAGACT
ACATTTGACTAGATCTTGGCCCAAACCCAGCCAGGCAGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204701 representing NM_003725
 Red=Cloning site Green=Tags(s)

MWLYLAAFVGLYYLLHWYRERQVVSHLQDKYVFITGCDSGFGNLLARQLDARGLRVLAACLTEKGAEQLR
 GQTSDRLETVTLDVTKMESIAAATQWVKEHVGDRLWGLVNNAGILTPITLCEWLNTEDSMMLKVNLI
 VIQVTL SMLPLVRRARGRIVNVSSILGRVAFFVGGYCVSKYGVFAFSDILRREIQHFGVKISIVEPGYFR
 TGMTNMTQSLERMKQSWKEAPKHIKETYGQQYFDALYINMKEGLLNCSTNLNLVTDCMEHALTSVHPRTR
 YSAGWDAKFFFIPLSYLPTSLADYILTRSWPKPAQAV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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: 1512 bp

RefSeq ORF: 954 bp

Locus ID: 8630

UniProt ID: [O14756](#)

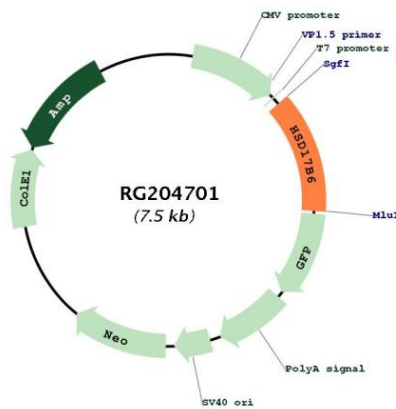
Cytogenetics: 12q13.3

Domains: adh_short

Protein Families: Druggable Genome

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:



Circular map for RG204701