

Product datasheet for **MG204561**

Hsd17b6 (BC021836) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hsd17b6 (BC021836) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hsd17b6
Synonyms:	Rdh8, 17betaHSD9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204561 representing BC021836 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGTTCTACCTGGTAACTCTTGTGGCCTTTACCACCTTCTGCGTTGGTATCGTGAGAGGCAGGTGG
TGAGCCATCTCCAAGACAAGTATGTCTTCATCACGGGCTGTGACTCTGGCTTTGGGAACCTGCTGGCCAG
ACAGCTGGACAGGAGAGGCATGAGGGTATTGGCTGCATGTCTGACGGAGAAGGGAGCCGAGGAGCTGAGG
AACAGACATCTGACAGGCTGGAGACAGTGATCCTGGATGTCACCAAGACAGAGATTGTGGCAGCCA
CTCAGTGGGTGAAGGAGCGTGTGGAGACAGAGGACTCTGGGTTTGGTTAATAATGCAGGTGTGTACA
ACCATTTGCCTACATTGAATGGTACAGACCAGAGGACTACATGCCTATCTTTCAAGTGAACCTCATTGGT
TTGACCCAGGTGACTATAAGCATGCTTTTCTGGTAAAGAAGGCTCGGGGAGGATCGTCAATGTCTCCA
GTGCTTTGGGAAGAGTTGCATTGTTGGAGGATTCTACAGTTGCTCCAAGTATGGGGTTGAGGCATTTTC
AGATGTGCTAAGGCATGAGGTTCAAGATTTTCGGGGTAAAAGTCAAGTAAATTGAACCTGGGAGCTCAAG
ACGGAAATGACAGATGCAGAGTTAACCATTGAGAGAACTAAGAAAGTCTGGGAAGCTGCCCTGAGCACA
TCAAGGAATCCTACGGACAGCAGTTTTTTGACGACTTTTGACGACCACCAACGAGAGTTGATGAAGTG
TAGCAGGAACCTGAGCCTAGTCACGACTGCATGGAGCACGCCCTGACCTCCACGCATCCTCGCACCCGG
TACTCGGCTGGCTGGGATGCCAAGTTTTTCTTCATCCCTCTATCTTATTTGCCTGCGTCACTGGTAGACT
ACTTATTGGCCATATCTAGGGGCAAGCCAGCTCAAGCAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG204561 representing BC021836
 Red=Cloning site Green=Tags(s)

MWFYLVTLVGLYHLLRWYRERQVVSHLQDKYVFITGCDSGFGNLLARQLDRRGMRVLAACLTEKGAEELR
 NKTSDRLETVILDVTKTESIVAATQWVKERVGDRGLWGLVNNAGVLQPFAYIEWYRPEDYMPIFQVNLIG
 LTQVTISMLFLVKKARGRIVNVSSALGRVALFGGFYSCSKYGVFAFSDVLRHEVQDFGVKYSIIIEPGSFK
 TEMTDAELTIERTKKVWEAAPEHIKESYQQQFFDDFCSTTKRELMKCSRNLSLVDCMEHALTSTHPRTR
 YSAGWDAKFFFIPLSYLPASLVLDYLLAISRGKPAQAA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC021836

ORF Size: 953 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: [BC021836](#), [AAH21836](#)

RefSeq Size: 1479 bp

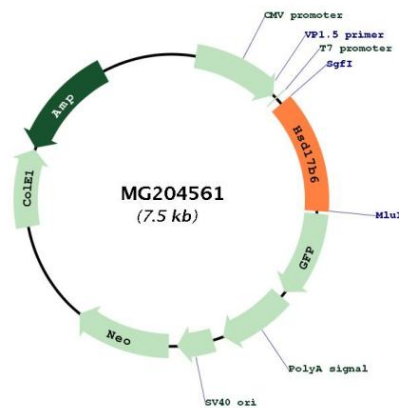
RefSeq ORF: 953 bp

Locus ID: 27400

Cytogenetics: 10 D3

Gene Summary: NAD-dependent oxidoreductase with broad substrate specificity that shows both oxidative and reductive activity (in vitro). Has 17-beta-hydroxysteroid dehydrogenase activity towards various steroids (in vitro). Converts 5-alpha-androstan-3-alpha,17-beta-diol to androsterone and estradiol to estrone (in vitro). Has 3-alpha-hydroxysteroid dehydrogenase activity towards androsterone (in vitro). Has retinol dehydrogenase activity towards all-trans-retinol (in vitro). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG204561