

Product datasheet for **MC201890**

Hsd3b1 (NM_008293) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hsd3b1 (NM_008293) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hsd3b1
Synonyms:	3-beta-HSD I; D3ErtD383e
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC052659 sequence for NM_008293 AAGAGGTAATCCCTCAGCATCCAGACTCTCATCTGACTTTTAAACAATTTAACAGCCCTCCTAAGGGTTA CCCTATATCATACCAGCTCCCAGTGTCTGTTTCTGTGTTGACCATGGCTGGATGGAGCTGCCTGGT GACAGGAGCAGGAGGGTTTGTGGGCCAGAGGATCATCAAGATGTTGGTGCAGGAGAAAGAACTGCAGGAG GTCAGAGCTCTGGACAAAGTATTCCGACCAGAAAACCAAGGAGGAATTCTCCAAGCTGCAGACAAAGACCA AGGTGACAGTGTGGAAGGAGACATTCTGGATGCCAGTGCCTGAGGAGAGCCTGCCAGGCATCTCTGT TGTCTCCACACTGCTGCTGTCATTGATGTCACAGGTGTCATTCCAGGCAGACCATCCTAGATGTCAAT CTGAAAGTACCCAGAACCTATTGGAGGCTGTGTTCAAGCAAGTGTGCCAGCCTTCATCTTCTGCAGCT CAGTTGATGCTGCAGGGCCCACTCGTACAAGAAGATCGTCTGAATGGCCAGGAGAACAGAATCATGA AAGCACATGGTCTGATCCATACCCATACAGCAAAAAGATGGCTGAGAAGGCAGTACTGGCAGCCAATGGG AGCATGCTGAAAATGGTGGCACTTTGAATACTTGTGCCTTAAGACCCATGTACATTTATGGGGAGAGAA GTCCATTCATTTTTAATGCAATAATTAGGGCCCTCAAAAATAAGGGTATTCTGTGTGTTACTGGCAAATT CTCCATAGCCAACCCAGTATATGTGAAAATGTGGCCTGGGCACACATTCTGGCAGCCAGGGCCTTCGA GACCCCAAGAAGTCTACAAGCATCCAAGGACAGTTCTACTACATCTCAGATGACACCCCTCACCAAAGCT ATGATGATTTAAATTACACCCTGAGTAAGGAATGGGGCTCCGCCCTAATGCCAGCTGGAGCCTTCTCT GCCCTGCTCTACTGGCTTGCTTCCCTGCTGAAAAGTGTGAGCTTCTGCTACGTCCAGTCTACAGGTAT AGACCTCTCTTTAACCGCACTCGATCACACTGTCAAATAGCACGTTCACTTTTTCTTACAAGAAAGCTC AGCGAGATCTGGGCTATGAGCCACTTGTCAACTGGGAGGAAGCAAAGCAGAAAACCTCAGAGTGGATAGG GACAATAGTGGAAACAGCACAGGGAGATATTGGACAAAAGTCCAGTGTGAAAAAGGGCAGGTACATG GCTCTGGGAGTTATAAGTCTGTAGCAAGTACAGAGGCACAAGCCAGGTCTGCTGCTCTCTGTAGACA CAGAGACCAACTTGGTATCTTTCTCAAGTCAACAGAACCTTGCCAGTCACTAACCCACTCACAACTTG CTTCCCTAAGCCCTGCTCAGAGACAAACATAGCTGAGTCTCAGTTCTTAGGCTTCAGCAATTACAATTT ACTTTCACTTAGAATAGTATTGCTTTTATTTCCCCCTTCAAGTCTAAATCATATCTTGCCTTTGGTA AAATCCCCTGCTTTCTGAAGCAAAAACAAAACAGCAATAAATATTGTAATGCCTTAAAAAAAAAAAAAA AA
Restriction Sites:	RsrII-NotI



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ACCN:	NM_008293
Insert Size:	1122 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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:	BC052659 , AAH52659
RefSeq Size:	1612 bp
RefSeq ORF:	1122 bp
Locus ID:	15492
UniProt ID:	P24815
Cytogenetics:	3 42.89 cM
Gene Summary:	<p>A bifunctional enzyme responsible for the oxidation and isomerization of 3beta-hydroxy-Delta(5)-steroid precursors to 3-oxo-Delta(4)-steroids, an essential step in steroid hormone biosynthesis. Specifically catalyzes the conversion of pregnenolone to progesterone, 17alpha-hydroxypregnenolone to 17alpha-hydroxyprogesterone, dehydroepiandrosterone (DHEA) to 4-androstenedione, and androstenediol to testosterone. Additionally, catalyzes the interconversion between 3beta-hydroxy and 3-oxo-5alpha-androstane steroids controlling the bioavailability of the active forms. Specifically converts dihydrotestosterone to its inactive form 5alpha-androstanediol, that does not bind androgen receptor/AR. Also converts androstanedione, a precursor of testosterone and estrone, to epiandrosterone. Expected to use NAD(+) as preferred electron donor for the 3-beta-hydroxy-steroid dehydrogenase activity and NADPH for the 3-ketosteroid reductase activity.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the shorter transcript. Both variants 1 and 2 encode the same protein.</p>