

Product datasheet for MC212072

Hsd3b7 (NM_133943) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hsd3b7 (NM_133943) Mouse Untagged Clone
Tag: Tag Free
Symbol: Hsd3b7
Synonyms: A1195443; BB098564
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC212072 representing NM_133943
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAGACTCTGCACAGGTGCCAACACTGGTATACCTGGTCACAGGTGGCTGCGGCTTCTGGGGGAAC
 ATATTGTTGGATGCTGCTGGAACGGGAGCCAGGCTCCGGGAGCTGCGTGTCTTTGACCTGCACCTGAG
 TTCTTGGCTGGAGGAGCTGAAAGCAGGGCCTGTGCAGGTGACTGCCATCCAGGGGATGTGACTCAGGCC
 CATGAGGTGGCAGCAGCCATGTCTGGATCACATGTGGTCATCCATACAGCTGGGTGGTGGATGTGTTG
 GGAAGGCCAGTCCAAAGACCATCCACAAAGTCAACGTGCAGGGCACACAGAATGTGATTGATGCTTGTGT
 GCAGACTGGCACTCAGTACCTGGTCTACACGAGCAGCATGGAAGTGGTGGGGCCTAACATCAAGGGCCAC
 CCCTTCTACAGGGGCAATGAAGATACCCCATATGAGGCAGTCCACAGCCATCCCTACCCATGCAGTAAAG
 CCCTTGCTGAGCAGCTGGTCTCGAGGCCAATGGAAGGAAGTCAATGGAGGGCTACCCCTGGTGACATG
 TGCCCTTCGACCCACGGGCATTTATGGTGAAGGTATCAGGTGATGAGAGACTTCTACTACCAGGGACTG
 CGCTTTGGAGGTGCTCTATTTGGGGCCGTCAGCTTCTGTGGAGCACGGTCGGGTCTATGTTGGCAATG
 TTGCTGGATGCACATACTGGTGGCCCGGGAGCTGGAGCAGCGGGCAGCACTCATGGGTGCCAGGTGTA
 TTTCTGCTATGATAAGTACCTTATAAAAGCTACGAGGACTTCAACATGGAGTTTCTGAGTCCCTGTGGT
 CTTGACTGATAGGCGCCACCCACTGCTGCCCTACTGGCTGCTAGTGGTGGTACCCTCAATGCC
 TGCTGCAGTGGTGGTCCGCCACTGGTGTGTACACACCCTGCTGAATCCCTACACGCTGGCTATGGC
 CAACACCACCTTTACTGTGAGTACCAACAAGGCACAGCGCATTGTTGGCTACAAGCCCCTTCTCATGG
 GAAGAGAGCAGGACCCGACCATTCAAGTGGTGCAGGCGATGGAGGGTTCAGCTCGG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_133943



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Insert Size:	1110 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:	<u>NM_133943.2</u> , <u>NP_598704.2</u>
RefSeq Size:	1823 bp
RefSeq ORF:	1110 bp
Locus ID:	101502
UniProt ID:	<u>Q9EQC1</u>
Cytogenetics:	7 F3
Gene Summary:	The 3-beta-HSD enzymatic system plays a crucial role in the biosynthesis of all classes of hormonal steroids. HSD VII is active against four 7-alpha-hydroxylated sterols. Does not metabolize several different C(19/21) steroids as substrates. Involved in bile acid synthesis (PubMed:11067870). Plays a key role in cell positioning and movement in lymphoid tissues by mediating degradation of 7-alpha,25-dihydroxycholesterol (7-alpha,25-OHC): 7-alpha,25-OHC acts as a ligand for the G protein-coupled receptor GPR183/EBI2, a chemotactic receptor for a number of lymphoid cells (PubMed:22999953).[UniProtKB/Swiss-Prot Function]