

Product datasheet for **MC212073**

Hsd3b7 (NM_001040684) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hsd3b7 (NM_001040684) 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: >MC212073 representing NM_001040684
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTGCTGGAACGGGAGCCAGGCTCCGGGAGCTGCGTGTCTTTGACCTGCACCTGAGTCTTGCTGG
AGGAGCTGAAAGCAGGGCTGTGCAGGTGACTGCCATCCAGGGGATGTGACTCAGGCCATGAGGTGGC
AGCAGCCATGTCTGGATCACATGTGGTCATCCATACAGCTGGGTGGTGGATGTGTTGGGAAGGCCAGT
CCAAAGACCATCCACAAAGTCAACGTGCAGGGCACACAGAATGTGATTGATGCTTGTGTGCAGACTGGCA
CTCAGTACCTGGTCTACACGAGCAGCATGGAAGTGGTGGGGCCTAACATCAAGGGCCACCCCTTCTACAG
GGCAATGAAGATACCCCATATGAGGCAGTCCACAGCCATCCCTACCCATGCAGTAAAGCCCTTGCTGAG
CAGCTGGTCCCTCGAGGCAATGGAAGGAAGGTCAATGGAGGGCTACCCCTGGTGACATGTGCCCTTCGAC
CCACGGGCATTTATGGTGAAGTTCATCAGGTGATGAGAGACTTCTACTACCAGGGACTGCGCTTTGGAGG
TCGTCTATTTCCGGCCGTCCCAGCTTCTGTGGAGCACGGTCCGGTCTATGTTGGCAATGTTGCTTGATG
CACATACTGGTGGCCCGGAGCTGGAGCAGCGGCAGCACTCATGGGTGGCCAGGTGATTTCTGCTATG
ATAAGTACCTTATAAAAGCTACGAGGACTTCAACATGGAGTTTCTGAGTCCCTGTGGCTTCGACTGAT
AGGCGCCACCCACTGCTGCCCTACTGGCTGCTAGTGCTGCTGGCTACCCTCAATGCCCTGCTGCAGTGG
CTGCTCCGCCACTGGTCTGTACACACCCTGCTGAATCCCTACACGCTGGCTATGGCCAACACCACCT
TACTGTGCTACCAACAAGGCACAGCGCATTTTGGCTACAAGCCCTCTTCTCATGGGAAGAGAGCAG
GACCCGCACCATTCAGTGGGTGCAGGCGATGGAGGGTTCAGCTCGG**TGA**

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001040684



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Insert Size:	1029 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_001040684.1</u> , <u>NP_001035774.1</u>
RefSeq Size:	1771 bp
RefSeq ORF:	1029 bp
Locus ID:	101502
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]