

## Product datasheet for **MG218387**

### Hsd3b7 (NM\_133943) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Hsd3b7 (NM\_133943) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Hsd3b7  
**Synonyms:** A1195443; BB098564  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG218387 representing NM\_133943  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGATCGCC

ATGGCAGACTCTGCACAGGTGCCAACACTGGTATACCTGGTCACAGGTGGCTGCGGCTTCTGGGGAAC  
 ATATTGTTTCGGATGCTGCTGGAACGGGAGCCCAGGCTCCGGGAGCTGCGTGTCTTTGACCTGCACCTGAG  
 TTCTTGGCTGGAGGAGCTGAAAGCAGGGCCTGTGCAGGTGACTGCCATCCAGGGGATGTGACTCAGGCC  
 CATGAGGTGGCAGCAGCCATGTCTGGATCACATGTGGTCATCCATACAGCTGGGTTGGTGGATGTGTTT  
 GGAAGGCCAGTCAAAGACCATCCAAAAGTCAACGTGCAGGGCACACAGAATGTGATTGATGCTTGTGT  
 GCAGACTGGCACTCAGTACCTGGTCTACACGAGCAGCATGGAAGTGGTGGGCCTAACATCAAGGGCCAC  
 CCCTTCTACAGGGCAATGAAGATACCCATATGAGGCAGTCCACAGCCATCCCTACCCATGCAGTAAAG  
 CCCTTGTCTGAGCAGCTGGTCTCGAGGCCAATGGAAGGAAGTCAATGGAGGGCTACCCCTGGTGACATG  
 TGCCCTTCGACCCACGGGCATTTATGGTGAAGTCAATCAGGTCATGAGAGACTTCTACTACCAGGGACTG  
 CGCTTGGAGGTGCTCTATTTCCGGCCGTCAGCTTCTGTGGAGCAGGTCGGGCTATGTTGGCAATG  
 TTGCTTGGATGCACATACTGGTGGCCCGGAGCTGGAGCAGCGGGCAGCACTCATGGGTGGCCAGGTGTA  
 TTTCTGCTATGATAAGTCACTTATAAAAGCTACGAGGACTTCAACATGGAGTTTCTGAGTCCCTGTGGT  
 CTTGACTGATAGGCGCCACCCACTGCTGCCCTACTGGCTGCTAGTGTGCTGCTACCCTCAATGCC  
 TGCTGCAGTGGCTGCTCCGCCACTGGTGTGTACACACCCCTGCTGAATCCCTACAGCTGGCTATGGC  
 CAACACCACCTTTACTGTCACTACCAACAGGCACAGCGCATTGTTGGTACAAGCCCTCTTCTCATGG  
 GAAGAGAGCAGGACCCGACCATTCACTGGGTGCAGGCGATGGAGGGTTCAGCTCGG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

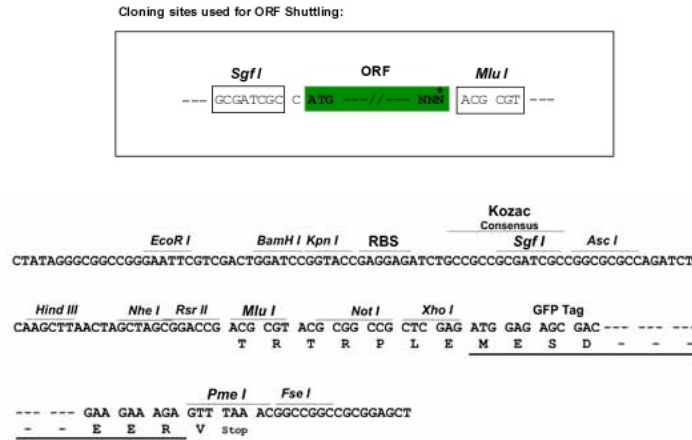
Protein Sequence: >MG218387 representing NM\_133943  
 Red=Cloning site Green=Tags(s)

MADSAQVPTLVYLVTGGCGFLGEHIVRMLLEREPRLRELRVFDLHLSWLEELKAGPVQVTAIQGDVTQA  
 HEVAAAMSGSHVVIHTAGLVDFGKASPKTIHKVNVQGTQNVIDADCVQTGTQYL VYTSSMEVVGPNIKGH  
 PFYRGNEDTPYEAVHSHPYPCSKALAEQLVLEANGRKVNGGLPLVTCALRPTGIYGEHQVMRDFYYQGL  
 RFGGRLFRAVPASVEHGRVYVGNVAVMMHILVARELEQRAALMGGQVYFCYDKSPYKSYEDFNMEFLSPCG  
 LRLIGAHPLLPYLLVLLATLNALLQWLLRPLVLYTPLLNPYTLAMANTTFTVSTNKAQRHFGYKPLFSW  
 EESRTRTIQWVQAMEGSAR

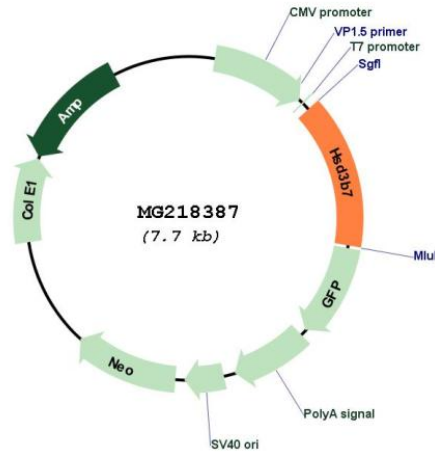
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_133943

<b>ORF Size:</b>	1107 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_133943.2</a> , <a href="#">NP_598704.2</a>
<b>RefSeq Size:</b>	1823 bp
<b>RefSeq ORF:</b>	1110 bp
<b>Locus ID:</b>	101502
<b>UniProt ID:</b>	<a href="#">Q9EQC1</a>
<b>Cytogenetics:</b>	7 F3
<b>Gene Summary:</b>	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]