

## Product datasheet for **MG202707**

### Hsd17b2 (BC012682) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hsd17b2 (BC012682) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hsd17b2
Synonyms:	A1194836; A1194967; A1255511
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202707 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCCCGTTTGCCTCTGAGTCAGCATGGCTCTGCTTGGCTGCCGCTGCAGTGTGGGGGACGCTTC  
TCTGCGGATGCCGGAGTGGCAGGCAGCTGCGGAGCCAGGCGGTGTGTCTCGCTGGCCTCTGGGGAGGTGC  
CTGCCTGCTCAGTCTGTCCCTCCTGACCTTGTTCCTTTATCCGTGGCCTGCTTCTTCTTCTGTAT  
ATGAGTTCATCTGACCAAGACTTGTACCTGTGGATCAAAGGCCGTGCTGGTGACAGGTGCTGATTCCG  
GTTTCGGTCACGGTTTGGCCAAGCACCTGGACAAGCTGGGTTTACAGTGTGGTGGAGTCTGGACAA  
AGAGGGCCCGGGAGCAGAGGAAGTGAAGAACTGCTCTGAGCGTCTTTCAGTGTCCAGATGGATGTC  
ACCAAGCCAGAGCAGATAAAGATGCTCACAGCAAAGTCACAGAGAAGATACAAGACAAAGACTGTGGG  
CCGTGGTTAACAATGCCGGGTCTTCCACTTACCTATCGACGGGAACTCATACCCATGAGCATCTACAG  
AAAATGCATGGCCGTGAACCTTCTCGGAACTGTCGAGGTACCAAGGCGTTTCTGCCTCTACTTAGAAAG  
TCCAAGGGGAGGCTGGTGAACGTCAGCAGCATGGGAGGCACGGTTCCACTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG202707 protein sequence  
Red=Cloning site Green=Tags(s)

MSPFASESAWLCLAAAVALGGTLLCGCRSGRQLRSQAVCLAGLWGGACLLSL SLLCTLFLLSVACFLLLY  
 MSSSDQDLLPVDQKAVLVTGADSGFGHGLAKHLDKLGFTVAVGLDKEGPGAEELRKHCSERLSVLQMDV  
 TKPEQIKDAHSKVTEKIQDKGLWAVVNNAGVFHLPIDGELIPMSIYRKCMAVNFVGTVEVTKAFLPLLRK  
 SKGRLVNVSSMGGTVPL

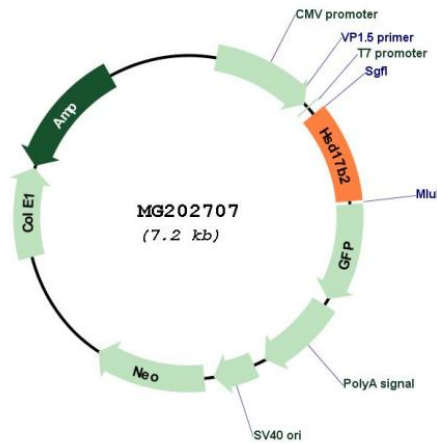
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** BC012682

**ORF Size:** 681 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="#">BC012682.1</a>
<b>RefSeq Size:</b>	1282 bp
<b>RefSeq ORF:</b>	684 bp
<b>Locus ID:</b>	15486
<b>Cytogenetics:</b>	8 E1
<b>MW:</b>	24.2 kDa
<b>Gene Summary:</b>	Capable of catalyzing the interconversion of testosterone and androstenedione, as well as estradiol and estrone. Also has 20-alpha-HSD activity. Uses NADH while EDH17B3 uses NADPH (By similarity).[UniProtKB/Swiss-Prot Function]