

Product datasheet for **MG225226**

Hsd3b3 (NM_001012306) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hsd3b3 (NM_001012306) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Hsd3b3
Synonyms: 9030618K22Rik; AI790201
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG225226 representing NM_001012306
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTGGGTGGAGCTGCCTGGTACTGGAGCAGGAGGGTTTTGGCCAGAGGATCATCCAGTTGTTGG
TGCAGGAGAAAGATCTTGAGGAGATCAGGGTCTGGACAAGGTCTTCAAACCTGAAACCAGGGAGCAATT
CTTCAGTACCCAGAACTTATTGGAGGCTGTATCCAAGCCAGTGTGCCAGCCTTCATCTTCTCCAGCTCA
GTTGACGTTGCAGGGCCAACTTTACAAGGACATTGCCTGAATGGCCACGAGGACGAGCATCGTGAAA
GCACATGGTCTGACCCATACCCATACAGCAAAAAGATGGCTGAGAAGGCAGTGTGCCAGCCAATGGGAG
CATGCTGAAAAATGGTGGCACTTTGCAAACCTTGTGCATTAAGGCCATGTGCATTTATGGGGAGAGAAGT
CAATTCCTTTCTAACACAATAATTAAGGCCCTCAAAAATAAGTTTATTCTGAGAGGTGGGGCAAAATCCT
CCACAGCCAACCCAGTATATGTGGGCAATGTGGCTGGGCACACATTCTGGCTGCCAGGGGCTTCGAAA
CCCCAAGAAGTACCAAAATATCCAAGGAGAGTTCTACTACATCTCAGATGATACCCTCACAAAGTTAT
GATGATTTAAATTACACCCTGAGCAAGGAGTGGGGCTTCTGCCTCAATTCAGGTGGTACCTTCTGTGC
CCATACTGTACTGGCTTGCTTCTCTGCTGGAACCTGTGAGCTTCTGCTGAGTCCAATCTACAGATATAT
ACCTCCCTTTAACCGCCACTTGGTCACACTGACAGCTAGTACGTTCACTTCTCTTACAAGAAAGCTCAG
CGAGATCTGGGCTATGAGCCACTTGTGAGCTGGGAGGAAGCCAAGCAGAAAACCTCAGAGTGGATCGGGA
CACTAGTGGAGCAGCACAGGGAGACTGGACACAAAGTCTCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225226 representing NM_001012306
 Red=Cloning site Green=Tags(s)

MPGWSCLVTGAGGFLGQRIIQLLVQEKDLEEIRVLDKVFKEPETREQFFSTQNLEACIQASVPAFIFSSS
 VDVAGPNSYKDIVLNGHEDEHRESTWSDPYYPYSKKMAEKAVLAANGSMLKNGGTLQTCALRPMCIYGERS
 QFLSNTI I KALKNKFILRGGKSSSTANPVYVGNVAWAHILAARGLRNPKKSPNIQGEFYIISDDTPHQSY
 DDLNYTLSKEWGFCLNSRWYLPVPILYWLAFLETVSFLLSPIRYIIPFNHRLVTLTASTFTFSYKKAQ
 RDLGYEPLVSWEAKQKTSEWIGTLVEQHRETLDTKSQ

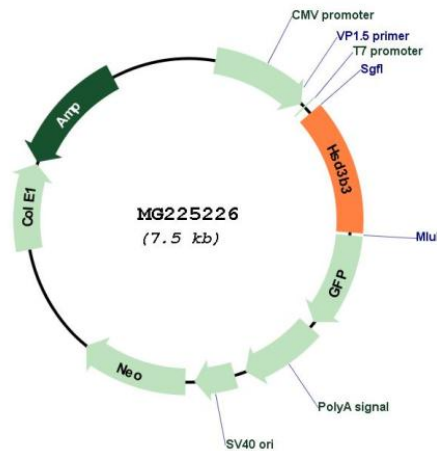
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001012306

ORF Size: 954 bp

OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_001012306.1
RefSeq Size:	1490 bp
RefSeq ORF:	957 bp
Locus ID:	15494
Cytogenetics:	3 42.86 cM
Gene Summary:	3-beta-HSD is a bifunctional enzyme, that catalyzes the oxidative conversion of Delta(5)-ene-3-beta-hydroxy steroid, and the oxidative conversion of ketosteroids. The 3-beta-HSD enzymatic system plays a crucial role in the biosynthesis of all classes of hormonal steroids. [UniProtKB/Swiss-Prot Function]