

Product datasheet for **MG205763**

Hsd3b2 (NM_153193) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hsd3b2 (NM_153193) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Hsd3b2
Synonyms: 3-beta-HSD II
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG205763 representing NM_153193
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTGGGTGGAGCTGCCTGGTACTGGAGCAAAAGGGTTTTGGGGCAGAGGATCATCCAGTTGTTGG
TGCAAGAGGAAGATCTGGAGGAGATCAGGGTCTGGACAAGGTCTTCAGACCAGAAACAAGGAAGGAATT
CTTCAACCTAGAGACAAGCAACAAGGTGACAGTGTGGAAGGAGACATTCTTGACACCCAGTACCTGAGG
AGAGCTTGCCAGGGCATCTCTGTTGTCATCCATACTGCTGCCATCATTGATGTCACAGGTGTCATCCCA
GGCAGACCATCCTAGATGTCAATCTGAAAGGTACCCAGAATTATTGGAGCCTGTATCCAAGCCAGTGT
GCCAGCCTTCATCTTCTCCAGCTCAGTTGATGTTGCAGGGCCCAACTCTTACAAGGAGATTGCTTGAAT
GGCCATGAGGAAGAGTGTGATGAAAGTACATGGTCTGATCCATACCCATACAGCAAAAAGATGGCTGAGA
AGGCAGTGTGGCAGCCAATGGGAGCATGCTAAAAATGGTGGCACTTTGCAAACCTGTGCATTAAGGCC
CATGTGCATTTATGGGGAGAGAAGTCCACTCATTTCTAACATAATAATTATGGCCCTTAACATAAGGGT
ATTCTGAGAAGTTTTGGCAAATCAACACAGCCAACCCAGTATATGTGGGCAATGTAGCCTGGGCACACA
TTCTGGCTGCCAGGGCCTTCGAGACCCCAAGAAGTACCAAATATCCAAGGAGAGTTCTACTACATCTC
AGATGACACCCCTCACAAAGCTTTGATGATATAAGTTACACCTTGAGCAAGGAGTGGGGCTTCTGCCTT
GATTCAGCTGGAGCCTTCTGTGCCCTACTGTACTGGCTTGCACTTCTGCTGGAACTGTGAGCTTCC
TCCTGAGTCCAATCTACAGATATATACCTCCCTTTAACCGCCACTTGGTCACACTGTAGGAGTACACATT
CACTTTCTCTACAAGAAAGCTCAGCGAGATCTGGGCTATGAGCCAATTGTCAGCTGGGAGGAAGCCAAG
CAGAAAACCTCAGAGTGGATCGGGACACTAGTGGAGCAGCACAGGGAGACTGGACACAAAGTCTCAG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205763 representing NM_153193
Red=Cloning site Green=Tags(s)

MPGWSCLVTGAKGFLGQRIIQLLVQEEDLEEIRVLDKVFVRPETRKEFFNLETSNKVTVLEGDILDTQYLR
 RACQGISVVIHTAAIIDVTGVIPRQTILDVNLKGTQNLLEACIQASVPAFIFSSSVDVAGPNSYKEIVLN
 GHEEECHESTWSDPYYPYSKKMAEKAVLAANGSMLKNGGTLQTCALRPMCIYGERSPLISNIIIMALKHKKG
 ILRSFGKFNTANPVYVGNVAWAHILAARGLRDPKKSPNIQGEFYIISDDTPHQSFDDISYTLKKEWGFCL
 DSSWSLPVPLLYWLAFLLETVSVFLLSPIYRYIPFNRHLVTLSGSTFTFSYKKAQRDLGYEPLVSWEEAK
 QKTSEWIGTLVEQHRETLDTKSQ

TRTRPLE - GFP Tag - V

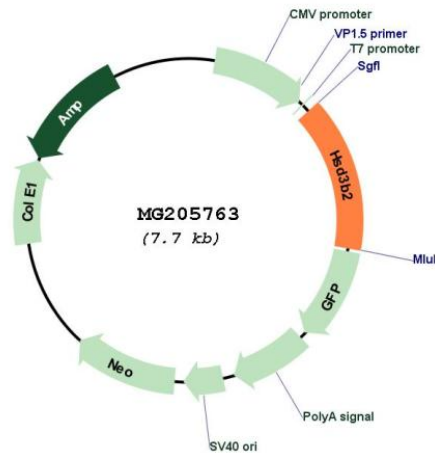
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_153193

| | |
|-------------------------------|---|
| ORF Size: | 1119 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_153193.2 , NP_694873.1 |
| RefSeq Size: | 3700 bp |
| RefSeq ORF: | 1122 bp |
| Locus ID: | 15493 |
| UniProt ID: | P26149 |
| Cytogenetics: | 3 42.85 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] |