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Product datasheet for MG219223

Hsd3b3 (NM_001161742) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hsd3b3 (NM_001161742) 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:

>MG219223 representing NM_001161742
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTGGGTGGAGCTGCCTGGTGACTGGAGCAGGAGGGTTTTTGGGCCAGAGGATCATCCAGTTGTTGG
TGCAGGAGAAAGATCTTGAGGAGATCAGGGTCCTGGACAAGGTCTTCAAACCTGAAACCAGGGAGCAATT
CTTCAACCTAGGGACAAGCATCAAGGTGACAGTGTTGGAAGGAGACATTCTTGACACCCAGTACCTGAGG
AGAGCTTGCCAGGGCATCTCTGTTGTCATCCATACTGCTGCCATCATTGATGTCACAGGTGTCATTCCCA
GGCAGACCATCCTAGATGTCAATCTGAAAGGTACCCAGAACTTATTGGAGGCCTGTATCCAAGCCAGTGT
GCCAGCCTTCATCTTCTCCAGCTCAGTTGACGTTGCAGGGCCCAACTCTTACAAGGACATTGTCCTGAAT
GGCCACGAGGACGAGCATCGTGAAAGCACATGGTCTGACCCATACCCATACAGCAAAAAGATGGCTGAGA
AGGCAGTGCTGGCAGCCAATGGGAGCATGCTGAAAAATGGTGGCACTTTGCAAACTTGTGCATTAAGGCC
CATGTGCATTTATGGGGAGAGAAGTCAATTCCTTTCTAACACAATAATTAAGGCCCTCAAAAATAAGTTT
ATTCTGAGAGGTGGGGGCAAATTCTCCACAGCCAACCCAGTATATGTGGGCAATGTGGCCTGGGCACACA
TTCTGGCTGCCAGGGGCCTTCGAAACCCCAAGAAGTCACCAAATATCCAAGGAGAGTTCTACTACATCTC
AGATGATACCCCTCACCAAAGTTATGATGATTTAAATTACACCCTGAGCAAGGAGTGGGGCTTCTGCCTC
AATTCCAGGTGGTACCTTCCTGTGCCCATACTGTACTGGCTTGCCTTCCTGCTGGAAACTGTGAGCTTCC
TGCTGAGTCCAATCTACAGATATATACCTCCCTTTAACCGCCACTTGGTCACACTGACAGCTAGTACGTT
CACTTTCTCCTACAAGAAAGCTCAGCGAGATCTGGGCTATGAGCCACTTGTCAGCTGGGAGGAAGCCAAG
CAGAAAACCTCAGAGTGGATCGGGACACTAGTGGAGCAGCACAGGGAGACACTGGACACAAAGTCTCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

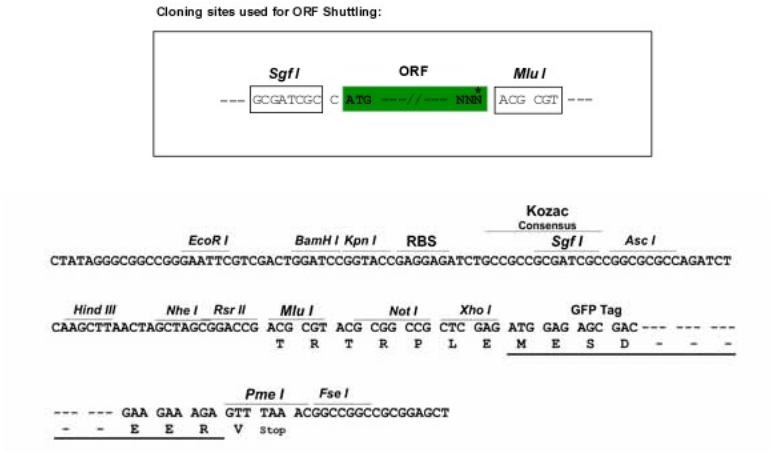
>MG219223 representing NM_001161742
Red=Cloning site Green=Tags(s)

MPGWSCLVTGAGGFLGQRIIQLLVQEKDLEEIRVLDKVFKPETREQFFNLGTSIKVTVLEGDILDTQYLR
RACQGISVVIHTAAIIDVTGVIPRQTILDVNLKGTQNLLEACIQASVPAFIFSSSVDVAGPNSYKDIVLN
GHEDEHRESTWSDPYPYSKKMAEKAVLAANGSMLKNGGTLQTCALRPMCIYGERSQFLSNTIIKALKNKF
ILRGGGKFSTANPVYVGNVAWAHILAARGLRNPKKSPNIQGEFYYISDDTPHQSYDDLNYTLSKEWGFCL
NSRWYLPVPILYWLAFLLETVSFLLSPIYRYIPPFNRHLVTLTASTFTFSYKKAQRDLGYEPLVSWEEAK
QKTSEWIGTLVEQHRETLDTKSQ

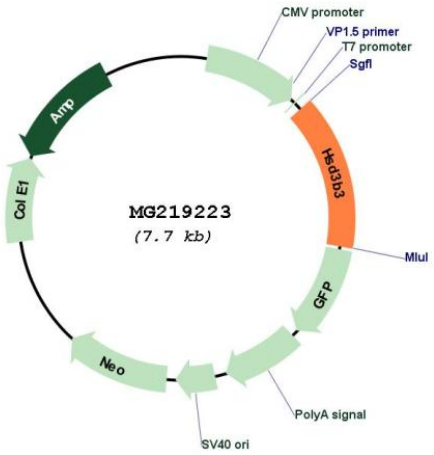
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001161742

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:	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_001161742.1, NP_001155214.1
RefSeq Size:	1769 bp
RefSeq ORF:	1122 bp
Locus ID:	15494
UniProt ID:	P26150
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]