

Product datasheet for MR225229

Hsd3b3 (NM_001161744) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hsd3b3 (NM_001161744) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Hsd3b3
Synonyms: 9030618K22Rik; AI790201
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR225229 representing NM_001161744
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCTGGGTGGAGCTGCCTGGTACTGGAGCAGGAGGGTTTTGGGCCAGAGGATCATCCAGTTGTTGG
TGCAGGAGAAAGATCTTGAGGAGATCAGGTCCTGGACAAGGTCTCAAACCTGAAACCAGGAGCAATT
CTTCAACCTAGGGACAAGCATCAAGGTGACAGTGTGGAAGGAGACATTCTTGACACCCAGTACCTGAGG
AGAGCTTGCCAGGCATCTCTGTTGTATCCATACTGCTGCCATCATTGATGTCACAGGTGTCATCCCA
GGCAGACCATCTAGATGTCAATCTGAAAGGTACCCAGAATTATTGGAGGCCTGTATCCAAGCCAGTGT
GCCAGCCTTCATCTTCTCCAGCTCAGTTGACGTTGCAGGGCCCAACTCTTACAAGGACATTGTCCTGAAT
GGCCACGAGGACGAGCATCGTGAAAGCACATGGTCTGACCCATACCCATACAGCAAAAAGATGGCTGAGA
AGGCAGTGTGGCAGCCAATGGGAGCATGCTGAAAAATGGTGGCACTTTGCAAACCTGTGCATTAAGGCC
CATGTGCATTTATGGGGAGAGAAGTCAATTCCTTTCTAACACAATAATTAAGGCCCTCAAAAATAAGTTT
ATTCTGAGAGGTGGGGCAAATTCACAGCCAACCCAGTATATGTGGCAATGTGGCTGGGCACACA
TTCTGGCTGCCAGGGCCTTCGAAACCCAGAAGTCACCAATATCCAAGGAGAGTTCTACTACATCTC
AGATGATACCCCTCACCAAAGTTATGATGATTTAAATTACACCCTGAGCAAGGAGTGGGGCTTCTGCCTC
AATTCAGGTGGTACCTTCTGTGCCATACTGTACTGGCTTGCCTTCTGCTGGAACTGTGAGCTTCC
TGCTGAGTCCAATCTACAGATATACCTCCCTTTAACCGCCACTTGGTCACACTGACAGCTAGTACGTT
CACTTTCTCTACAAGAAAGCTCAGCGAGATCTGGGCTATGAGCCACTTGTGAGTGGGAGGAAGCCAAG
CAGAAAACCTCAGAGTGGATCGGGACACTAGTGGAGCAGCACAGGGAGACTGGACACAAAGTCTCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225229 representing NM_001161744
 Red=Cloning site Green=Tags(s)

MPGWSCLVTGAGGFLGQRIIQLLVQEKDLEEIRVLDKVKFPETREQFFNLGTSIKVTVLEGDILDTQYLR
 RACQGISVVIHTAAIIDVTGVIPRQTILDVNLKGTQNLLEACIQASVPAFIFSSSDVDVAGPNSYKDIVLN
 GHEDEHRESTWSDPYYPYSKKMAEKAVLAANGSMLKNGGTLQTCALRPMCIYGERSQFLSNTIIKALKKNKF
 ILRGGGKFSTANPVYVGNVAWAHILAARGLRNPKKSPNIQGEFYIISDDTPHQSYDDLNYTLKKEWGFCL
 NSRWYLPVPILYWLAFLLLETVSFLLSPIYRYIPFNRHLVTLTASTFTFSYKKAQRDLGYEPLVSWEEAK
 QKTSEWIGTLVEQHRETLDTKSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

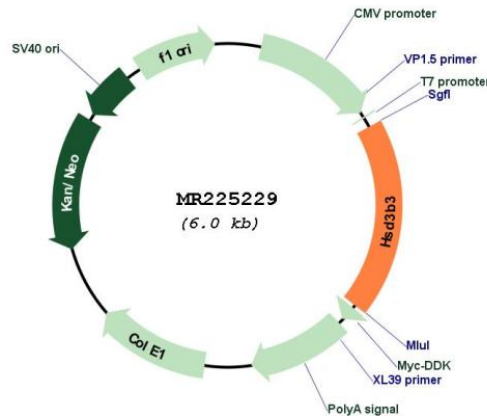
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001161744

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_001161744.1 , NP_001155216.1
RefSeq Size:	1708 bp
RefSeq ORF:	1122 bp
Locus ID:	15494
UniProt ID:	P26150
Cytogenetics:	3 42.86 cM
MW:	42.5 kDa
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]