

Product datasheet for MR225226

Hsd3b3 (NM_001012306) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hsd3b3 (NM_001012306) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hsd3b3
Synonyms:	9030618K22Rik; AI790201
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225226 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTGGGTGGAGCTGCCTGGTACTGGAGCAGGAGGGTTTTGGGCCAGAGGATCATCCAGTTGTTGG
TGCAGGAGAAAGATCTTGAGGAGATCAGGGTCTGGACAAGGTCTCAAACCTGAAACCAGGGAGCAATT
CTTCAGTACCCAGAACTTATTGGAGGCTGTATCCAAGCCAGTGTGCCAGCCTTCATCTCTCCAGCTCA
GTTGACGTTGCAGGGCCAACTTTACAAGGACATTGCCTGAATGGCCACGAGGACGAGCATCGTGAAA
GCACATGGTCTGACCCATACCCATACAGCAAAAAGATGGCTGAGAAGGCAGTGTGCCAGCCAATGGGAG
CATGCTGAAAAATGGTGGCACTTTGCAAACCTTGTGCATTAAGGCCATGTGCATTTATGGGGAGAGAAGT
CAATTCCTTTCTAACACAATAATTAAGGCCCTCAAAAATAAGTTTATTCTGAGAGGTGGGGCAAACTCCT
CCACAGCCAACCCAGTATATGTGGGCAATGTGGCTGGGCACACATTCTGGCTGCCAGGGGCCCTTCGAAA
CCCCAAGAAGTCACAAAATCCAAGGAGAGTTCTACTACATCTCAGATGATACCCTCACAAAGTTAT
GATGATTTAAATTACCCCTGAGCAAGGAGTGGGGCTTCTGCCTCAATTCAGGTGGTACCTTCTGTGC
CCATACTGTACTGGCTTGCTTCTCTGCTGGAACCTGTGAGCTTCTGTGAGTCCAATCTACAGATATAT
ACCTCCCTTTAACCGCCACTTGGTCACACTGACAGCTAGTACGTTCACTTCTCTACAAGAAAGCTCAG
CGAGATCTGGGCTATGAGCCACTTGTGAGCTGGGAGGAAGCCAAGCAGAAAACCTCAGAGTGGATCGGGA
CACTAGTGGAGCAGCACAGGGAGACACTGGACACAAAGTCTCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225226 protein sequence
Red=Cloning site Green=Tags(s)

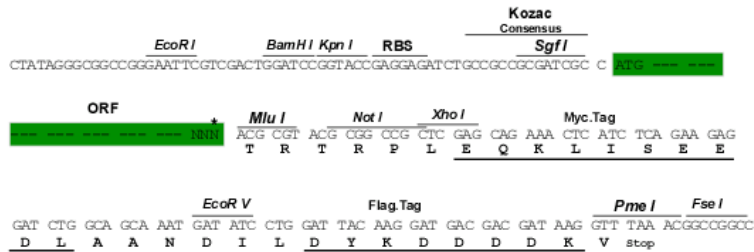
MPGWSCLVTGAGGFLGQRRIQLLVQEKDLEEIRVLDKVKFPETREQFFSTQNLEACIQASVPAFIFSSS
VDVAGPNSYKDIVLNGHEDEHRESTWSDPYYPYSKKMAEKAVLAANGSMLKNGGTLQTCALRPMCIYGERS
QFLSNTIIKALKKNKFILRGGKSSSTANPVYVGNVAWAHILAARGLRNPKKSPNIQGEFYIISDDTPHQS
DDLNYTLSEKWFCLNSRWYLPVPILYLWLAFLLETVSFLLSPIYRYIPPFNRHLVTLTASTFTFSYKKAQ
RDLGYEPLVSWEAKQKTSEWIGTLVEQHRETLDTKSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001012306

ORF Size: 957 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_001012306.1](#)

RefSeq Size: 1490 bp

RefSeq ORF: 957 bp

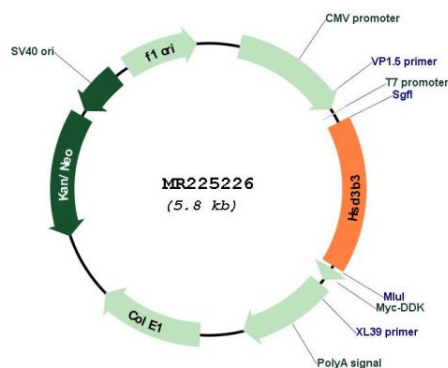
Locus ID: 15494

Cytogenetics: 3 42.86 cM

MW: 36.1 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]

Product images:



Circular map for MR225226