

## Product datasheet for **MR229057**

### Hsd11b1 (NM\_001044751) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hsd11b1 (NM_001044751) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hsd11b1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229057 representing NM_001044751 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGTTATGAAAAATTACCTCCTCCCGATCCTGGTGCTCTTCCTGGCCTACTACTACTATTCTACAA  
ATGAAGAGTTCAGACCAGAAATGCTCCAGGAAAGAAAGTGATTGTCCTGGGCCAGCAAAGGGATTGG  
AAGAGAAATGGCATATCATCTGTCAAAAATGGGAGCCCATGTGGTATTGACTGCCAGGTCGGAGGAAGGT  
CTCCAGAAGGTAGTGTCTCGCTGCCTTGAAGCTCGGAGCAGCCTCTGCTCACTACATTGCTGGCACTATGG  
AAGACATGACATTTGCGGAGCAATTTATTGTCAAGGCGGAAAGCTCATGGGCGGACTGGACATGCTTAT  
TCTAAACCACATCACTCAGACCTCGCTGTCTCTTCCATGACGACATCCACTCTGTGCGAAGAGTCATG  
GAGGTCAACTTCCTCAGCTACGTGGTCATGAGCACAGCCGCCTTGCCCATGCTGAAGCAGAGCAATGGCA  
GCATTGCCGTCATCTCCTCCTGGCTGGGAAAATGACCCAGCCTATGATTGCTCCCTACTCTGCAAGCAA  
GTTTGCTCTGGATGGTTCTTTCCACCATTAGAACAGAACTCTACATAACCAAGGTCAACGTGTCCATC  
ACTCTCTGTGCTTGGCCTCATAGACACAGAAACAGCTATGAAGGAAATCTCTGGGATAATTAACGCC  
AAGCTTCTCCAAGGAGGAGTGCGCCCTGGAGATCATCAAAGGCACAGCTCTACGCAAAGCGAGGTGTA  
CTATGACAAATCGCCTTTGACTCCAATCCTGCTGGGAACCCAGGAAGGAAGATCATGGAATTTTTTCA  
TTACGATATTATAATAAGGACATGTTTGAAGTAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229057 representing NM\_001044751  
 Red=Cloning site Green=Tags(s)

MAVMKNYLLPILVFLAYYYYSTNEEFRPEMLQGKKVIVTGASKIGREMAHYLSKMGAHVVL TARSEEG  
 LQKVVSRCLELGAASAHYIAGTMEDMTFAEQFIVKAGKLMGGLDMLILNHITQTSLSLFHDDIHSVRRVM  
 EVNFLSYVVMSTAALPMLKQSNQSIAVISLQAGKMTQPMIAPYSASKFALDGGFFSTIRTELYITKVNYSI  
 TLCVLGLIDTETAMKEISGIINAQASPKEECALEIIKGTALRKSEVYDYKSP LTPILLGNPGRKIMEFFS  
 LRYYNKDMFVSN

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\_001044751

**ORF Size:** 876 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\\_001044751.1](#), [NP\\_001038216.1](#)

**RefSeq Size:** 1355 bp

**RefSeq ORF:** 879 bp

**Locus ID:** 15483

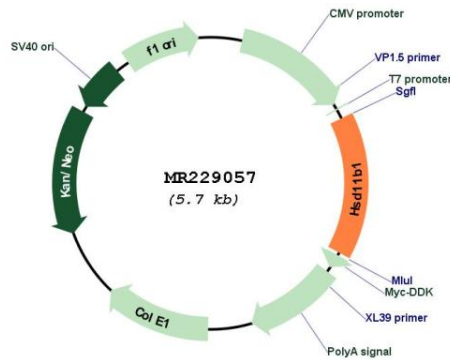
**UniProt ID:** [P50172](#)

**Cytogenetics:** 1 H6

**MW:** 32.4 kDa

**Gene Summary:** Catalyzes reversibly the conversion of cortisol to the inactive metabolite cortisone. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR229057