

Product datasheet for **MG218075**

Hsd3b4 (NM_008294) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hsd3b4 (NM_008294) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hsd3b4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG218075 representing NM_008294 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTGGGTGGAGCTGCCTGGTGACAGGAGCAGGAGGGTTTCTTGCCAGAGGATTGTCCGAATGTTGG
TGCAGGAGGAAGAGCTGCAGGAGATCAGAGCCCTGTTCAAGGACCTTCGGTCGAAAACAGGAAGAGGAATT
GTCCAAGCTGCAGACAAAGACCAAGGTGACAGTACTGAAGGGAGACATTCTGGATGCCAGTGCCTGAAG
AGAGCCTGCCAGGGCATGCTGCTGTCAACACCCGCTGCTGCTATTGACCCCTTGGTGCCGCTTCCA
GACAGACCATCCTAGATGTCAATCTGAAAGGTACTCAGTCTACTGGATGCTTGTGTGGAAAGCAACGT
GCCAACATTCATCTACAGCAGCTCAGTGTGCTGGCTGGACCAAATTCCTACAAGGAGATCATCCTGAAT
GCCCATGAGGAGGAGCATCATGAAAGCAGTGGTCTAACCATACCCATACAGCAAAAAGATGGCTGAGA
AGGCAGTGTGGCAGCAATGGGAGCATCCTGAAAAATGGTGGCACTTTGCATACTTGTGCCTTAAGACT
CTCTTTCATCTATGGGAAGAATGCCAAGTCACTTCAACCACTGTGAAAACAGCACTGAAGAACAACAGC
ATAATTAAGAAAAATGCCAATTCTCCATCGCCAAACCCAGTGTATGTGGCAATGCAGCCTGGGCTCACA
TTCTGGCTGCCAGGAGCCTACAGGACCCTAAGAAGTCCCCAAGCATCCAAGGACAGTTCTATTACATTAC
AGATGACACCCCTCACAAAGCTATGATGACTTAAATGCACCCTGAGCAAGGAGTGGGGCTCCGCCTT
GATACCAGCTGGAGTCTTCTCTGCCCCTGCTCTACTGGCTTGCCTTCTCTGAAAAGTGTGAGCTTCC
TGCTACGTCCAGTCTACAATATAGACCACCATTAACCGCTCTTGATCACAGTCTAAATAGTGTATT
CACCTTCTCTACAAGAAGGCTCAGCGAGATCTGGGCTATGAGCCAATTGTGAGTGGGAGGAAGCCAAG
CAGAAAACCTCAGAGTGGATCGGAACACTAGTGATGCAGCACAGGGAGATTGAAAACAAAAGTACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG218075 representing NM_008294
Red=Cloning site Green=Tags(s)

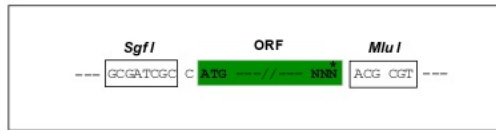
MPGWSCLVTGAGGFLGQRIVRMLVQEEELQEIRALFRTFGRKQEEELSKLQTKTKVTVLKGDILDAQCLK
 RACQGMSAVIHTAAAIDPLGAASRQTILDVNLKGTQLLLDACVEANVPTFIYSSSVLVAGPNSYKEIILN
 AHEEEHHESTWSNPYPYSKKMAEKAVLAANGSILKNGGTLHTCALRLSFIYGEECQVSTSTVKTALKNNS
 IIKKNATFSIANPVYVGNAAWAHILAARSLQDPKKSPSIQGFYITDDTPHQSYDDLKCTLKSKEWGLRL
 DTSWSLPLPLLYWLAFLLETVSVFLLRPVYNYRPPFNRLITVLNSVFTFSYKKAQRDLGYEPLVSWEEAK
 QKTSEWIGTLVMQHREIGNKKSQ

TRTRPLE - GFP Tag - V

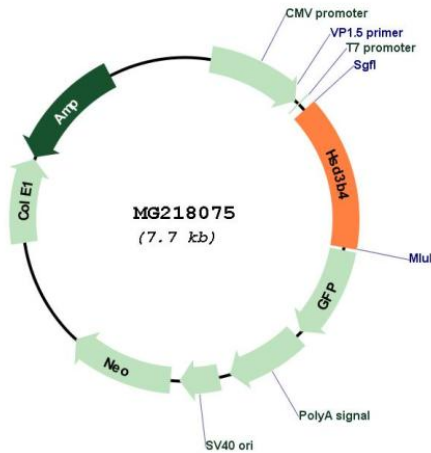
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_008294

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_008294.2 , NP_032320.1
RefSeq Size:	1673 bp
RefSeq ORF:	1122 bp
Locus ID:	15495
UniProt ID:	Q61767
Cytogenetics:	3 42.79 cM
Gene Summary:	Responsible for the reduction of the oxo group on the C-3 of 5alpha-androstane steroids. Catalyzes the conversion of dihydrotestosterone to its inactive form 5alpha-androstanediol, that does not bind androgen receptor/AR. Does not function as an isomerase. [UniProtKB/Swiss-Prot Function]